UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

EARTHQUAKE DATA REPORT

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by

U.S. Geological Survey

NATIONAL EARTHQUAKE INFORMATION CENTER[1]

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[1]USGS, Denver, Colorado

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U. S. DEPARTMENT OF THE INTERIOR

Geological Survey

EARTHQUAKE DATA REPORT

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

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

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

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

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

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

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

Hypocenter Symbols

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

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

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

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

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

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

References

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

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

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

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

Jordan, Thomas H. and Keith A. Sverdrup (1981), Teleseismic Location Techniques and their Application to Earthquake Clusters in the South-Central Pacific, *Bull. Seis. Soc. Am.*, **71**, pp. 1105–1130.

FEB 01, 1991 00h 07m 33.19± 0.45s
40.276 N ± 6.4km 27.325 E ± 3.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.3 (ATH), 3.2 (ISK).

EDC	0.42	80	iPg	07	40.50	-1.2
BNT	0.46	80	iPg	07	41.80	-0.8
KCT	0.79	92	iPg	07	47.80	-0.8
EZN	0.89	240	iPg	07	50.30	0.1
DST	1.20	123	iPn	07	55.80	0.1
PRK	1.31	219	ePb	07	57.80	0.4
ISK	1.54	59	iPn	08	01.10	0.5
YLV	1.59	79	ePn	08	01.70	0.2
RDO	1.61	303	ePn	08	01.20	-0.5
			eSn	08	24.00	
GBZT	1.69	72	ePn	08	04.50	1.5
			iSg	08	27.20	
HRT	1.87	72	ePn	08	06.30	0.8
KDZ	1.99	314	eP	08	07.00	-0.3
DIM	2.23	323	eP	08	12.00	1.3
PLD	2.69	314	eP	08	17.00	-0.3
MMB	3.02	297	eP	08	21.00	-1.0

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

FEB 01, 1991 01h 55m 07.43± 1.30s
27.480 N ± 5.6km 140.445 E ± 7.2km
DEPTH = 298.7 ± 13.1 km
4.8mb (14 obs.)
BONIN ISLANDS REGION (212)

MAT	9.23	349	(P)	57	16.00	-0.9
MDJ	19.19	336	eP	59	12.60	1.8
SNY	19.88	320	Pd	59	18.60	0.9
	0.6s	100.00nm			5.3mb	
WHN	23.01	284	Pc	59	49.50	1.5
	1.0s	30.00nm			4.7mb	
TIY	25.63	301	eP	00	12.00	0.0
XAN	27.80	291	P	00	31.00	-0.5
	0.8s	40.00nm			5.0mb	
CD2	32.12	285	iPd	01	08.80	-0.6
	0.8s	100.00nm			5.4mb	
LZH	32.12	295	iPd	01	09.00	-0.5
	1.0s	25.00nm			4.7mb	
GTA	35.65	300	P	01	38.80	-0.5
	0.8s	10.00nm			4.4mb	
CHG	38.98	266	eP	02	07.10	0.1
MTN	41.09	194	eP	02	24.50	0.3
WRA	47.51	188	P	03	14.00	-1.0
	0.4s	33.40nm			5.0mb	
WRA	47.51	188	P	03	15.00	0.0
	0.4s	33.40nm			5.0mb	
GUN	47.97	284	P	03	19.40	0.4
PKI	48.45	284	P	03	22.60	-0.1
KKN	48.51	284	P	03	23.00	0.0
DMN	48.70	284	P	03	24.60	0.1
GKN	49.02	284	P	03	26.60	-0.1
ASPA	51.24	188	iPd	03	43.40	0.2
DZM	55.30	150	iPc	04	13.90	1.0
GBA	60.04	270	Pc	04	44.90	-0.9
INK	63.33	25	ePd	05	06.80	0.1
MBC	65.92	15	eP	05	23.00	-0.2
	0.5s	3.00nm			4.3mb	
YKA	72.54	28	eP	06	03.20	-0.2
	0.6s	4.20nm			4.3mb	
SOD	73.48	338	eP	06	09.00	0.2
KAF	76.45	334	iP	06	25.40	-0.2
	0.3s	9.10nm			5.0mb	
NUR	78.02	333	iP	06	34.00	-0.2
	0.5s	18.20nm			5.1mb	
UPP	81.19	335	iP	06	50.70	-0.2
HFS	82.45	336	eP	06	56.90	-0.6
	0.4s	6.60nm			4.8mb	
NB2	82.68	338	P	06	58.50	-0.2
	0.5s	3.70nm			4.5mb	

S.D. = 0.7 on 30 of 30 obs.

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* FEB 01, 1991 02h 14m 55.47± 2.59s
36.166 S ±18.1km 72.694 W ±10.8km
DEPTH = 55.7 ± 16.9 km
4.9mb (9 obs.) 4.7Msz (1 obs.)
NEAR COAST OF CENTRAL CHILE (135)
Felt (III) in the Concepcion area.

LNV	2.44	26	iPc	15	33.00	-0.6
			iS	16	15.00	
LCCH	2.84	19	iPd	15	39.00	-0.3
			iS	16	26.50	
TACH	2.89	30	eP	15	40.00	-0.1
			iS	16	28.00	
PCH	3.11	36	eP	15	43.50	0.2
			iS	16	33.50	
SAN	3.18	32	ePd	15	44.60	0.4
			iS	16	35.00	
IHA	3.25	16	iPc	15	44.70	-0.5
			iS	16	39.00	
PEL	3.44	29	iPd	15	48.50	0.6
ROCH	3.48	24	iPc	15	48.20	-0.4
			i	16	43.60	
			i	16	50.00	
JACH	3.89	27	iPd	15	54.00	-0.2
			i	16	44.50	
MDZ	4.56	45	eP	16	47.10	43.5X
			iS	17	24.30	
RTCV	5.51	40	eP	16	17.90	0.9
RTCB	5.68	36	ePd	16	20.00	0.6
RTLL	5.97	37	iPc	16	23.00	-0.4
RTRS	6.57	25	iPc	16	31.60	-0.1
ARE	19.65	3	eP	19	23.00	0.1
LPB	19.98	13	P	19	26.20	-0.2
	1.1s	106.33nm			5.1mb	
ZOBO	20.23	13	P	19	30.00	0.8
	1.0s	52.00nm			4.8mb	
SIV	22.60	30	P	19	52.00	-0.5
PPD	23.33	59	eP	19	58.70	-0.7
			e	20	04.00	
NNA	24.36	350	eP	20	09.00	-0.6
	0.9s	15.13nm			4.5mb	
BMA	28.13	69	eP	20	47.10	2.8
BAO	30.04	54	ePd	21	01.20	-0.4
PDCR	38.28	61	eP	22	10.20	-2.0
SOB1	39.43	55	eP	22	26.40	4.5X
RSCP	72.40	349	P	26	16.00	-1.4
FVM	75.58	346	P	26	34.20	-1.6
	1.0s	30.00nm			5.2mb	
LIC	75.97	71	P	26	39.52	1.1
TIC	76.24	71	P	26	40.82	0.8
KIC	76.28	71	P	26	41.16	1.0
ALQ	77.43	332	ePc	26	46.00	-0.4
	1.1s	12.66nm			4.8mb	
Z	18s	0.34um			4.7Msz	
PLM	80.54	324	eP	27	04.00	0.7
PEC	81.13	324	P	27	07.20	1.0
GLD	81.27	335	P	27	07.80	0.8
	0.8s	28.24nm			5.3mb	
GOL	81.28	335	P	27	07.70	0.6
	0.8s	2.68nm			4.2mb	
PV09	81.57	332	P	27	09.20	0.5
MWC	81.83	323	eP	27	14.00	4.0X
SBB	82.09	324	eP	27	11.00	-0.2
GSC	82.11	325	eP	27	12.00	0.7
CLC	82.90	325	eP	27	16.00	0.6
ISA	83.19	324	eP	27	18.00	1.1
SLR	83.41	117	iPc	27	16.00	-2.5
TNP	84.58	326	P	27	24.70	0.7
	1.1s	12.99nm			4.9mb	
RSSD	84.83	338	P	27	22.50	-2.6
BW06	85.46	334	P	27	28.00	-0.3
	0.8s	3.93nm			4.6mb	
ORV	87.74	324	P	27	39.80	0.6
GBA	145.04	122	PKP	34	28.00	-0.5
HYB	148.44	119	ePKP	34	37.00	2.9X

S.D. = 1.0 on 43 of 47 obs.

? FEB 01, 1991 02h 19m 51.18± 5.19s
36.188 S ±58.3km 73.154 W ±33.2km
DEPTH = 10.0km (geophysicist)
NEAR COAST OF CENTRAL CHILE (135)

LNV	2.65	33	iPd	20	34.00	-0.6
			iS	21	15.10	
LCCH	3.00	26	eP	20	39.00	-0.7
			iS	21	23.50	
TACH	3.12	36	iP	20	41.00	-0.3
			iS	21	28.00	
			i	21	35.50	
PCH	3.36	41	eP	20	45.70	0.9
			iS	21	34.00	
PEL	3.66	35	eP	20	50.20	1.2
			iS	21	41.50	
ROCH	3.66	29	iPd	20	49.00	-0.3
JACH	4.09	32	eP	20	55.00	-0.2
			i	21	54.00	
CNCB	19.84	15	P	24	25.00	-0.8
LPB	20.09	14	P	24	30.00	1.8
ZOBO	20.34	14	P	24	39.00	8.0X
SIV	22.81	31	P	24	54.40	-1.0
WRA	118.41	210	Pdiff	35	25.00	24.9X
	0.8s	1.90nm				

S.D. = 1.1 on 10 of 12 obs.

FEB 01, 1991 02h 36m 19.17± 0.51s
40.280 N ± 7.4km 27.318 E ± 4.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.2 (ATH), 3.0 (ISK).

EDC	0.42	81	iPg	36	27.20	-0.6
			iSg	36	33.80	
BNT	0.47	80	iPg	36	28.30	-0.4
KCT	0.80	92	ePg	36	34.30	-0.3
			iSg	36	46.00	
EZN	0.89	240	iPg	36	36.20	0.0
DST	1.21	123	iPn	36	42.20	0.4
PRK	1.31	218	ePb	36	43.20	-0.2
ISK	1.54	59	ePn	36	47.20	0.5
YLV	1.59	79	ePn	36	47.90	0.3
RDO	1.61	303	ePn	36	47.50	-0.1
			Sn	37	10.00	
HRT	1.87	72	ePn	36	51.80	0.3

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

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* FEB 01, 1991 03h 27m 52.62± 1.68s
23.909 N ±12.7km 122.847 E ±13.9km
DEPTH = 10.0km (geophysicist)
3.7mb (1 obs.)
TAIWAN REGION (243)

TWC	1.15	308	ePc	28	14.10	0.0
TWD	1.16	279	iPd	28	13.20	-1.0
TWF1	1.53	249	iPc	28	19.60	-0.4
TWZ	1.65	316	ePd	28	23.10	1.3
			eS	28	41.80	
ANP	1.75	317	eP	28	22.70	-0.6
TWK	2.26	254	iPc	28	31.70	1.1
SSE	7.31	349	eP	29	48.50	6.5X
			eLg	32	02.00	
WRA	45.00	165	P	36	24.00	13.8X
	2.0s	1.00nm				
YKA	82.63	23	eP	40	16.80	-0.3
	0.8s	0.50nm			3.7mb	

S.D. = 1.1 on 7 of 9 obs.

% FEB 01, 1991 04h 56m 48.70± 0.75s
39.802 N ± 5.9km 28.961 E ± 7.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

DST	0.32	233	iPg	56	54.50	-0.9
			iSg	56	59.80	
YLV	0.83	22	iPg	57	04.50	-0.2
			eSg	57	15.50	
BNT	0.97	305	ePg	57	07.80	0.6
EDC	1.00	303	ePg	57	08.00	0.3
HRT	1.15	28	ePn	57	10.00	-0.3
ISK	1.26	3	ePn	57	12.00	-0.2
KHL	1.54	163	ePn	57	17.00	0.7

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

FEB 01, 1991 04h 56m 52.65± 0.44s
44.807 N ± 4.9km 11.493 E ± 5.3km
DEPTH = 27.9 ± 6.7 km
NORTHERN ITALY (545)
MD 3.2 (ROM), 3.1 (TRI). ML 3.2 (LDG).

MME	0.84	223	P	57	10.60	1.9
			eSg	57	24.50	
SFI	0.92	164	P	57	08.30	-1.3
			eSg	57	22.10	
BDI	0.98	221	P	57	13.40	2.8X
			eSg	57	28.90	
FIR	1.04	189	ePg	57	10.00	-1.4
			iSg	57	25.00	
SAL	1.05	320	P	57	19.20	7.7X
			eSg	57	35.00	
CRE	1.22	164	P	57	15.00	0.9
			eSg	57	30.00	

01d 04h

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CTI      1.25    5 P      57 18.20   3.8X
                   eSn    57 37.00
PII      1.29  213 P      57 18.00   3.1X
                   eSg    57 35.60
BOB      1.46  269 P      57 23.30   5.9X
                   eSn    57 43.00
MDI      1.59  308 P      57 26.50   7.3X
                   eSn    57 48.60
ARV      1.67  141 P      57 22.20   1.7
                   eSg    57 40.20
TRI      1.84   60 ePn    57 20.20  -2.6
                   iPg    57 24.00
                   iSn    57 50.20
ASS      1.93  154 P      57 26.20   2.0
                   eSn    57 47.20
FVI      2.00   26 P      57 28.60   3.4X
                   eSn    57 54.10
VOY      2.09   53 ePn    57 24.60  -1.9
                   eSn    57 50.70
VAI      2.19  300 P      57 33.50   5.6X
CEY      2.27   65 e(Pn)  57 32.00   2.9X
                   eSn    58 03.00
CKI      2.33  262 P      57 33.50   3.7X
SQTA     2.42  355 iPnc   57 33.90   2.6
       0.4s    33.00nm
                   i      57 37.90
                   iSn    58 07.80
                   i      58 13.40
LJU      2.47   59 ePn    57 30.20  -1.7
                   e      57 32.80
                   eSn    58 00.00
                   e      58 08.80
WATA     2.53    1 i(Pn)  57 35.20   2.3
                   i      58 06.60
MNS      2.57  160 P      57 33.50   0.1
KBA      2.61   29 iPnd   57 34.20   0.1
       0.5s    21.40nm
                   i      57 41.80
                   i      58 06.80
                   iSn    58 09.20
                   i      58 23.00
ORO      2.61  289 P      57 39.60   5.6X
VBY      2.75   74 eP     57 38.30   2.5
                   e(Sn)  58 12.70
PGF      2.89  220 Pn     57 37.00  -0.9
                   Sn     58 12.20
SBF      3.06  253 Pn     57 39.70  -0.6
                   Sn     58 17.90
BHG      3.07   18 eP     57 49.80   9.4X
AZI      3.15  153 P      57 41.00  -0.5
PTJ      3.33   69 eP     57 53.00   8.8X
LPG      3.43  283 Pn     57 45.60  -0.1
LPL      3.44  284 Pn     57 45.80  -0.1
FRF      3.70  252 Pn     57 49.20  -0.2
                   Sn     58 33.20
LMR      3.88  249 Pn     57 51.30  -0.6
                   Sn     58 36.00
LRG      3.94  252 Pn     57 52.30  -0.3
BSF      4.44  315 Pn     58 00.60   0.6
                   Sn     58 52.50
KHC      4.55   18 ePn    58 00.00  -1.5
                   e      58 18.50
                   eSg    59 21.90
CDF      4.63  323 Pn     58 03.10   0.5
HAU      4.78  314 Pn     58 05.00   0.3
                   Sn     58 59.40
SMF      5.66  292 Pn     58 17.00  -0.1
                   Sn     59 20.00
LBF      5.68  295 Pn     58 17.20  -0.2
                   Sn     59 20.20
LOR      5.86  298 Pn     58 19.80  -0.1
                   Sn     59 24.60
SSF      6.01  295 Pn     58 21.50  -0.5
AVF      6.03  292 Pn     58 22.10  -0.1
BGF      6.31  289 Pn     58 25.70  -0.5
     S.D. = 1.4   on  32 of  45 obs.
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*  FEB  01, 1991  05h 19m 01.37± 0.83s
   53.337 N ±19.7km  169.962 E ± 8.5km
   DEPTH =  33.0km  (normol)
   4.6mb (  4 obs.)
 KOMANDORSKY ISLANDS REGION        (  4)

SMY      2.57 1    P      19 42.80   1.2
ADK      8.26      P      20 59.50  -2.2
IMA     21.93      P      23 54.00   0.6
FBA     24.06      P      24 15.40   1.4

TOA     24.56   52 eP     24 21.20   2.2
INK     30.02   38 eP     25 07.00  -1.8
CN2     30.51  270 Pc     25 12.80  -0.5
YKA     38.85   46 eP     26 24.10  -0.5
        0.7s     1.10nm          3.7mb
LZH     48.25  277 eP     27 42.00   1.0
        1.0s    18.00nm          5.1mb
                   pP     27 55.00  48kmX
GTA     48.41  283 P      27 42.40   0.2
        1.0s    10.00nm          4.8mb
WMQ     52.37  295 P      28 11.80  -0.4
                   pP     28 18.50  22kmX
FRB     54.73   28 eP     28 26.00  -3.2X
NUR     63.17  342 eP     29 32.00   4.3X
CHG     63.81  267 eP     29 33.00   0.4
NB2     64.72  349 P      29 36.30  -1.7
        0.7s     2.50nm          4.4mb
HFS     65.29  347 eP     29 58.10  16.5X
        0.3s     0.50nm
KHC     75.97  344 eP     31 01.00  14.7X
WRA     79.21  214 P      31 15.00  10.6X
        0.9s     2.10nm
     S.D. = 1.5   on  13 of  18 obs.
-------------------------------------------
&  FEB  01, 1991  05h 23m 16.60s
   37.558 N          118.860 W
   DEPTH =   5.0km
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      <BRK>. ML 3.0 (BRK).

BONR     0.59   48 iPc    23 27.40  -1.1
FRI      0.88  230 iPc    23 32.67  -1.3
                   iS     23 45.41
CMB      1.30  292 iPc    23 39.80  -1.3
                   iS     23 57.30
TNP      1.40   68 ePc    23 42.20  -0.8
PKEM     1.80  214 eP     23 49.00   0.5
LLA      1.91  241 iPc    23 50.32   0.1
PRI      2.02  226 iPc    23 52.35   0.5
ARN      2.14  265 eP     23 53.50   0.1
SAO      2.21  250 eP     23 54.77   0.3
MHC      2.22  265 eP     23 55.50   0.7
PRS      2.35  239 eP     23 56.61   0.1
BCH      2.57  203 eP     23 59.20  -0.4
        12 obs. ossocioted
-------------------------------------------
&  FEB  01, 1991  05h 23m 24.10s
   37.537 N          118.878 W
   DEPTH =   5.0km
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      <BRK>. ML 3.2 (BRK).

FRI      0.86  231 iPc    23 40.00  -1.1
                   iS     23 50.96
CMB      1.29  293 iPc    23 47.30  -1.3
                   iS     24 04.80
PKEM     1.77  214 eP     23 56.50   0.9
LLA      1.89  242 iPc    23 57.07  -0.3
PRI      2.00  226 iPd    24 00.70   1.7
SAO      2.19  250 iPc    24 00.84  -0.9
MHC      2.21  266 e(P)   24 02.50   0.4
                   iS     24 32.00
PRS      2.33  240 ePc    24 04.10   0.4
        8 obs. ossociated
-------------------------------------------
?  FEB  01, 1991  05h 37m 03.63± 6.89s
   40.737 N ±28.4km   30.429 E ±49.1km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      MD 2.5 (ISK).

GPA      0.46  192 iPg    37 12.90   0.0
                   iSg    37 19.40
HRT      0.58  279 iPg    37 15.50   0.0
YLV      0.82  258 ePg    37 19.50  -0.1
                   eSg    37 30.50
ISK      1.09  288 ePg    37 24.00  -0.1
                   eSg    37 39.80
     S.D. = 0.1   on   4 of   4 obs.
-------------------------------------------
?  FEB  01, 1991  06h 14m 12.05± 3.54s
    5.762 S ±18.6km  151.687 E ±15.0km
   DEPTH =  58.6 ± 28.6 km
   4.7mb (  2 obs.)
 NEW BRITAIN REGION                (192)

PMG      5.77  231 eP     15 36.50  -0.7
        0.9s   235.29nm          5.5mb X
QIS     18.81  217 iPc    18 29.70  -0.1
RMQ     20.80  187 iPc    18 51.00   0.1
BRS     21.54  177 iPd    18 59.00   0.7
DZM     21.60  140 iPc    18 59.20   0.2
KNA     24.58  244 eP     19 29.00   0.9
ASPA    24.70  222 iPc    19 30.00   0.8
     Z  23s      0.10um          3.3MszX
                   i      23 54.60
CMS     26.17  191 eP     19 43.00   0.1
WARB    31.37  227 eP     20 30.00   0.4
FORR    33.37  219 iPc    20 45.80  -1.1
        0.3s    15.00nm          5.3mb
YKA     96.79   28 eP     27 38.40   1.1
        0.8s     0.40nm          4.0mb
PPD    144.36  142 ePKP   33 41.80  -2.3
     S.D. = 1.1   on  12 of  12 obs.
-------------------------------------------
?  FEB  01, 1991  07h 00m 59.52± 1.90s
   35.423 N ±28.3km   27.185 E ±13.5km
   DEPTH =  30.0 ± 10.7 km
 DODECANESE ISLANDS                (369)
      MD 4.0 (ATH).

KAP      0.13  356 iPgd   01 04.80  -0.3
ARG      1.10   44 ePb    01 20.50   1.6
NPS      1.30  263 ePb    01 22.00   0.3
                   eSb    01 40.50
YER      1.92   27 iPn    01 31.40   0.6
KSL      2.07   70 ePn    01 32.00  -0.9
SMG      2.30  353 ePb    01 43.50   7.4X
VAM      2.44  270 ePb    01 40.50   2.4X
KHL      3.45   32 ePn    01 50.50  -2.1
VLI      3.68  292 ePn    01 54.50  -1.2
ITM      4.59  294 ePn    02 09.00   0.2
     S.D. = 1.5   on   8 of  10 obs.
-------------------------------------------
*  FEB  01, 1991  07h 27m 24.49± 0.80s
   41.013 N ± 6.6km   22.808 E ± 6.8km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                        (383)
      ML 1.5 (SKO).

KNT      0.16   25 iPc    27 29.08   0.8
                   eS     27 32.04
GRG      0.31  260 ePd    27 31.04   0.0
                   eS     27 35.24
VAY      0.36  330 iPg    27 31.40  -0.4
                   iSg    27 36.40
THE      0.40  163 ePc    27 32.88   0.2
                   iS     27 38.52
SRS      0.60   80 ePc    27 36.00  -0.7
                   eS     27 45.16
     S.D. = 0.8   on   5 of   5 obs.
-------------------------------------------
%  FEB  01, 1991  07h 45m 48.78± 2.23s
   27.269 S ±21.3km  117.700 E ±14.9km
   DEPTH =  10.0km  (geophysicist)
 WESTERN AUSTRALIA                 (590)

MRWA     2.46  217 eP     46 29.10  -0.4
                   eS     46 57.00
BAL      3.44  194 eP     46 44.00   0.5
KLB      4.31  179 eP     46 56.00   0.1
                   eS     47 43.00
COOL     4.70  141 eP     47 01.00  -0.4
                   eS     47 51.00
WARB     8.07   84 eP     47 49.00   0.1
                   eS     48 25.00
     S.D. = 0.6   on   5 of   5 obs.
-------------------------------------------
?  FEB  01, 1991  07h 48m 19.27± 1.00s
   55.127 N ±20.8km  165.481 E ±22.5km
   DEPTH =  33.0km  (normol)
   4.3mb (  8 obs.)
 KOMANDORSKY ISLANDS REGION        (  4)

FBA     24.72   48 eP     53 38.70   0.3
        1.0s     1.80nm          3.6mb
INK     30.29   40 eP     54 29.00  -0.1
YKA     39.49   46 eP     55 47.60  -0.2
        0.6s     2.40nm          4.1mb
PNT     44.20   65 eP     56 27.00   0.5
        0.7s     5.00nm          4.4mb
NEW     46.15   65 eP     56 40.90  -1.2
        0.8s     1.88nm          4.1mb
TNP     52.96   75 iP     57 34.70   0.0
```

	0.7s	4.22nm		4.5mb		
BW06	53.77	65 eP	57	40.60	0.0	
	1.0s	8.25nm		4.7mb		
		pP	57	59.70	75kmX	
CLC	54.37	77 eP	57	45.00	0.1	
SBB	55.06	78 eP	57	50.00	0.0	
GSC	55.19	77 eP	57	51.00	0.1	
GOL	58.17	65 eP	58	12.70	0.4	
	1.0s	4.50nm		4.5mb		
WRA	79.35	210 P	00	23.00	0.0	
	0.6s	0.60nm		3.8mb		
	S.D. = 0.5	on 12 of 12 obs.				

? FEB 01, 1991 08h 08m 49.87± 4.71s
30.393 S ±36.2km 71.333 W ±25.0km
DEPTH = 10.0km (geophysicist)
NEAR COAST OF CENTRAL CHILE (135)

JACH	2.37	165 iPd	09	31.50	2.0	
		iS	10	10.00		
RTCB	2.43	117 iPc	09	30.50	0.1	
ROCH	2.59	174 eP	09	32.70	0.0	
		i	10	12.50		
RTLL	2.63	111 ePd	09	31.80	-1.4	
PEL	2.80	169 eP	09	36.00	0.5	
		iS	10	18.00		
RTCV	2.81	122 eP	09	36.10	0.4	
LCCH	3.08	184 iPd	09	38.50	-0.9	
		iS	10	21.50		
SAN	3.10	170 eP	09	40.00	0.2	
		i	10	27.00		
TACH	3.27	174 iPc	09	42.00	-0.2	
		iS	10	28.00		
PCH	3.29	168 eP	09	43.00	0.4	
		iS	10	32.00		
LNV	3.55	181 iPc	09	43.70	-2.5	
		iS	10	32.50		
AIA	35.15	175 eP	15	46.80	1.4	
	S.D. = 1.3	on 12 of 12 obs.				

FEB 01, 1991 08h 18m 40.29± 0.71s
43.308 N ± 5.8km 19.010 E ± 5.3km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.9 (TTG).

PLE	0.28	85 iPgd	18	45.71	-0.5	
		iSg	18	51.18		
NKY	0.50	181 iPgc	18	50.42	0.1	
		iSg	19	00.70		
BRY	0.53	220 iPgd	18	49.65	-1.4	
		iSg	18	59.80		
IVA	0.78	124 iPgc	18	55.52	-0.1	
		iSg	19	09.28		
TTG	0.90	168 iPgd	18	57.20	-0.3	
		iSg	19	13.88		
HCY	0.94	204 iPgd	18	58.08	-0.1	
		iSg	19	14.67		
PVY	1.00	135 iPgd	18	59.70	0.3	
		iSg	19	16.27		
BDV	1.03	188 iPgd	19	00.22	0.4	
		iSg	19	17.62		
ULC	1.36	172 iPgc	19	06.28	1.1	
		iSg	19	28.88		
BEO	1.84	34 ePn	19	12.00	-0.1	
		eSg	19	37.00		
HVAR	1.88	267 iPn	19	13.40	0.7	
		iSn	19	36.80		
OHR	2.57	148 ePn	19	29.50	6.9X	
V8Y	3.47	311 eP	19	41.40	6.0X	
	S.D. = 0.7	on 11 of 13 obs.				

* FEB 01, 1991 08h 25m 05.36± 1.36s
32.183 S ± 8.3km 71.998 W ±15.6km
DEPTH = 66.1 ± 13.7 km
NEAR COAST OF CENTRAL CHILE (135)
Felt (III) ot Nogoles.

IHA	0.89	160 eP	25	22.50	0.0	
		iS	25	35.50		
ROCH	1.15	134 iPc	25	24.60	-1.5	
		iS	26	39.00		
JACH	1.29	113 iP	25	25.50	-2.3	
		iS	25	40.50		
LCCH	1.34	164 iPd	25	28.60	0.2	
		iS	25	48.60		
PEL	1.46	131 iPc	25	29.50	-0.7	
SAN	1.69	139 iP	25	33.50	0.2	
		iS	25	54.50		
TACH	1.72	149 iPc	25	34.50	0.9	
LNV	1.83	165 iPd	25	35.00	-0.2	
		iS	26	01.00		
PCH	1.90	139 eP	25	36.50	0.3	
MDZ	2.75	106 eP	26	02.90	14.8X	
		iS	26	26.20		
		i	26	41.10		
RTCB	2.81	77 iPc	25	49.80	0.9	
RTRS	2.96	48 ePd	25	52.10	1.2	
RTLL	3.12	75 iPd	25	53.90	0.6	
CFA	3.25	81 ePd	25	55.90	0.8	
RFA	3.92	132 iPd	26	05.40	0.9	
ARE	15.66	2 eP	28	50.00	6.3X	
CNCB	15.73	14 eP	28	44.00	-0.9	
		i	28	53.00		
LPB	15.98	14 P	28	53.00	5.1X	
		eLR	34	36.00		
ZOBO	16.23	13 P	28	51.80	0.6	
	Z 17s	0.42um				
		LR	34	08.00		
SIV	18.93	34 P	29	23.00	-0.9	
PPD	20.97	66 eP	29	43.10	-2.1	
		e	29	51.40		
BAO	27.34	59 ePd	30	45.10	-1.2	
KIC	74.48	72 P	36	41.10	2.3	
WRA	122.36	210 PKP	44	07.00	12.1X	
	0.6s	1.20nm				
	S.D. = 1.3	on 20 of 24 obs.				

? FEB 01, 1991 08h 41m 09.54± 0.82s
4.448 N ±20.2km 31.477 W ±16.4km
DEPTH = 10.0km (geophysicist)
4.8mb (5 obs.) 4.7Msz (1 obs.)
CENTRAL MID-ATLANTIC RIDGE (406)

ZOBO	41.68	240 P	49	01.00	0.1	
	Z 24s	0.43um		4.2MszX		
		LR	01	52.00		
LPB	41.78	239 P	49	02.00	0.5	
	Z 20s	1.06um		4.7Msz		
		LR	03	30.00		
BCAO	49.85	88 iPd	50	05.00	-0.5	
	0.6s	11.00nm		5.0mb		
		id	50	11.00		
NB2	64.92	21 P	51	52.60	1.3	
	1.2s	9.30nm		4.8mb		
FFC	75.18	326 iPc	52	54.10	0.2	
	0.8s	12.00nm		5.0mb		
BW06	78.24	313 eP	53	11.10	-0.5	
	1.0s	3.75nm		4.4mb		
YKA	82.90	332 eP	53	34.50	-1.1	
	0.6s	0.60nm		3.9mb		
GBA	107.23	74 PKP	00	01.00	22.3X	
	0.2s	0.70nm				
	S.D. = 0.9	on 7 of 8 obs.				

? FEB 01, 1991 09h 06m 02.18± 4.91s
32.186 S ±12.8km 71.769 W ±43.0km
DEPTH = 33.0km (normol)
NEAR COAST OF CENTRAL CHILE (135)

RTCB	2.62	75 iPd	06	43.30	0.1	
		eS	07	18.50		
RTCV	2.76	84 e(P)	06	46.00	0.9	
RTRS	2.82	45 ePd	06	46.00	0.1	
RTLL	2.94	74 ePc	06	47.00	-0.6	
CFA	3.06	80 ePc	06	49.00	-0.4	
RFA	3.78	134 e(P)	06	59.50	-0.1	
		(S)	07	56.40		
	S.D. = 0.7	on 6 of 6 obs.				

& FEB 01, 1991 09h 15m 49.00s
33.567 N 116.900 W
DEPTH = 6.0km (geophysicist)
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 2.5 (PAS).

PLM	0.22	171 iPd	15	53.50	0.0	
PEC	0.39	326 iPc	15	56.20	-0.7	
GLA	1.81	106 e(P)	16	23.00	2.0	
	3 obs.	ossocioted				

? FEB 01, 1991 10h 10m 22.90± 7.80s
32.176 S ±50.2km 71.872 W ±34.5km
DEPTH = 10.0km (geophysicist)

NEAR COAST OF CENTRAL CHILE (135)

ROCH	1.08	138 iP	10	43.00	-0.3	
JACH	1.19	115 iPc	10	44.50	-0.7	
		iS	10	59.50		
LCCH	1.32	169 iP	10	47.50	0.2	
PEL	1.39	134 iPc	10	48.70	0.3	
		iS	11	06.00		
SAN	1.63	142 eP	10	52.00	0.2	
		iS	11	13.50		
TACH	1.67	152 iPc	10	53.00	0.7	
LNV	1.82	168 iP	10	53.20	-1.2	
		iS	11	19.00		
RFA	3.85	133 ePc	11	24.20	0.7	
		S	12	18.80		
	S.D. = 0.8	on 8 of 8 obs.				

FEB 01, 1991 11h 32m 55.29± 0.57s
22.458 S ± 8.8km 179.288 W ± 4.7km
DEPTH = 546.8 ± 7.4 km
4.9mb (20 obs.)
SOUTH OF FIJI ISLANDS (171)

SVA	4.81	334 ePc	34	24.80	0.8	
		eS	35	51.50		
VUN	4.91	334 eP	34	24.80	0.0	
AFI	11.10	41 iPd	35	21.00	-4.3X	
		eS	37	18.00		
DZM	13.22	269 iPd	35	47.60	0.8	
WEL	19.43	194 P	36	47.00	-0.1	
		S	38	58.00		
TBI	27.47	98 iP	38	00.00	0.5	
	0.8s	25.00nm		4.9mb		
AFR	28.13	85 iP	38	04.80	-0.5	
	0.8s	15.00nm		4.7mb		
PAE	28.28	86 iP	38	06.00	-0.6	
	0.8s	15.00nm		4.7mb		
PPT	28.31	86 iP	38	06.20	-0.7	
	0.8s	25.00nm		4.9mb		
PPN	28.45	86 iP	38	07.30	-0.8	
	0.8s	10.00nm		4.5mb		
TVO	28.56	86 iP	38	09.40	0.3	
	0.8s	10.00nm		4.5mb		
RMQ	29.32	256 iPc	38	16.10	0.5	
	0.3s	18.00nm		5.2mb		
CNB	30.16	238 iPd	38	24.20	1.5	
PMO	30.59	81 iP	38	26.00	-0.5	
	0.8s	30.00nm		5.0mb		
VAH	30.76	82 iP	38	27.30	-0.6	
	0.8s	25.00nm		4.9mb		
TPT	30.85	82 iP	38	28.20	-0.5	
	0.8s	45.00nm		5.1mb		
RUV	31.01	82 iP	38	29.50	-0.5	
	0.8s	35.00nm		5.0mb		
CMS	32.25	246 iPd	38	42.00	1.6	
TOO	33.79	235 iPd	38	54.90	1.6	
	0.5s	37.00nm		5.3mb		
PMG	34.68	287 eP	38	59.50	-1.4	
ASPA	42.94	259 iPd	40	07.30	-0.5	
		iPcP	41	45.60		
		iS	45	51.00		
WRA	43.18	264 P	40	08.00	-1.7	
	0.3s	21.40nm		5.2mb		
FORR	47.40	248 iPc	40	41.20	-0.8	
MTN	48.02	273 eP	40	45.30	-1.6	
WARB	49.12	254 iPd	40	54.00	-1.1	
MBL	56.19	259 iPd	41	44.10	-1.6	
	0.5s	31.00nm		4.9mb		
NANU	59.75	256 iPd	42	09.10	-0.6	
	0.4s	22.00nm		4.8mb		
MAT	71.09	325 iPd	43	18.50	-1.5	
PRS	80.05	44 eP	44	10.30	1.0	
MHC	80.49	43 eP	44	13.00	1.3	
FRI	81.52	44 eP	44	17.00	0.3	
CMB	81.71	43 eP	44	18.80	1.0	
WDC	81.94	40 eP	44	19.90	1.1	
MIN	82.35	41 eP	44	21.70	0.6	
BJI	86.45	316 eP	44	41.00	0.1	
PMR	87.19	14 eP	44	43.70	-0.3	
PNT	88.94	34 eP	44	53.00	0.6	
ALQ	89.55	52 ePc	44	56.00	0.2	
	1.0s	5.00nm		4.4mb		
CHG	89.79	290 ePd	44	58.10	1.2	
	0.9s	23.11nm		5.1mb		
IMA	90.37	10 eP	44	58.40	-0.4	
	0.9s	5.00nm		4.5mb		
FBA	90.41	13 eP	44	58.30	-0.5	

01d 11h

	1.0s	16.60nm			5.0mb	
LZH	93.01	308	iPd	45	12.50	0.9
	1.5s	23.00nm			5.1mb	
			pP	45	39.00	99kmX
KEV	130.15	348	ePKP	50	47.00	-16.7X
LSZ	133.84	218	iPKPd	51	14.00	1.5
NB2	140.76	352	PKP	51	16.00	-7.9X
	0.5s	2.90nm				
HFS	141.26	350	ePKP	51	17.30	-7.4X
	0.4s	10.70nm				
LWI	143.20	232	iPKPd	51	28.80	-0.9
EKA	147.04	4	PKPd	51	37.00	2.5X
	0.6s	6.90nm				
ADI	147.81	297	iPKPd	51	40.10	3.5X
JVI	147.89	295	iPKPd	51	40.70	3.9X
MBH	148.55	291	iPKPd	51	42.20	4.3X
KRA	148.58	336	iPKPd	51	40.90	3.8X
MLR	149.16	324	ePKP	51	47.00	8.6X
SPC	149.16	335	ePKP	51	42.00	3.7X
KSP	149.17	341	ePKP	51	37.00	-1.0
	0.6s	47.00nm				
			id	51	42.60	
			i	51	49.50	
			e	53	54.00	
WIT	149.35	353	ePKP	51	44.00	5.8X
CLL	149.66	345	iPKP	51	43.70	5.0X
	1.0s	52.00nm				
CLL	149.66	345	iPKP	51	50.90	12.2X
	1.1s	29.00nm				
BRG	149.81	343	iPKPd	51	44.10	5.1X
	0.8s	44.00nm				
WTS	150.14	352	ePKP	51	45.00	5.6X
	1.0s	67.00nm				
PRU	150.45	342	PKP	51	45.60	5.6X
PRU	150.45	342	PKP	51	53.80	13.8X
MOX	150.60	346	iPKP	51	46.00	5.8X
	1.0s	22.00nm				
ENN	151.45	353	ePKP	51	48.00	6.6X
	0.7s	13.00nm				
KHC	151.49	342	ePKP	51	48.50	6.9X
DOU	152.25	355	PKPc	51	49.70	7.1X
BCAO	155.12	227	ePKPd	51	48.90	1.3
	0.3s	10.00nm				
			ic	52	17.00	
LIC	162.94	160	PKP	51	56.20	0.0
KIC	163.15	161	PKP	51	56.30	-0.2
TIC	163.33	160	PKP	51	56.50	-0.2
	S.D. = 1.0	on	48 of	70	obs.	

? FEB 01, 1991 11h 33m 30.21± 4.37s
40.667 N ±25.1km 30.285 E ±33.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

GPA	0.38	177	iPg	33	38.00	0.0
			iSg	33	44.30	
HRT	0.49	288	iPn	33	40.30	0.1
YLV	0.70	262	iPg	33	44.10	0.0
			iSg	33	55.60	
ISK	1.01	294	iPn	33	49.30	0.0
	S.D. = 0.1	on	4 of	4	obs.	

& FEB 01, 1991 11h 36m 35.57s
62.263 N 147.326 W
DEPTH = 55.0km
3.0mb (1 obs.)
CENTRAL ALASKA (1)
<AEIC>.

TOA	0.56	106	iPc	36	48.00	-0.1
SDG	0.87	72	iP	36	50.94	-1.0
GHO	0.90	238	iP	36	51.38	-1.0
			eS	37	04.20	
TZL	0.92	103	iP	36	52.16	-0.3
KN*	1.01	213	iP	36	53.24	-0.5
			eS	37	06.77	
KLU	1.02	139	eP	36	52.97	-1.0
			eS	37	07.32	
PLRM	1.09	233	eP	36	53.88	-0.9
			S	37	07.52	
PMR	1.09	233	iPc	36	54.40	-0.4
PAX	1.11	50	iP	36	54.36	-0.9
			eS	37	09.34	
VLZ	1.23	157	eP	36	55.21	-1.5
			eS	37	10.77	
VZW	1.26	163	iP	36	55.88	-1.4
			eS	37	12.19	
HUR	1.29	305	eP	36	56.61	-0.9
			eS	37	13.71	
RND	1.34	329	eP	36	57.73	-0.7
			eS	37	16.36	
PWA	1.35	244	iP	36	58.49	0.0
			iS	37	15.98	
THY	1.36	31	eP	36	58.11	-0.6
CUT	1.38	277	iP	36	58.30	-0.5
GLI	1.39	175	eP	36	58.46	-0.6
			eS	37	17.91	
PMS	1.47	227	iP	37	00.47	0.3
MCK	1.65	334	iP	37	02.40	-0.2
DDM	1.67	23	eP	37	03.70	0.8
			eS	37	24.35	
SUA	1.81	245	eP	37	04.97	0.0
TRF	1.81	313	eP	37	04.74	-0.2
GLB	1.86	115	iP	37	05.15	-0.4
			eS	37	28.62	
CVA	1.88	156	iP	37	05.46	-0.4
HIN	1.91	168	eP	37	05.73	-0.6
KNIM	1.93	186	eP	37	05.51	-1.0
			eS	37	28.37	
SKT	2.00	264	iP	37	07.38	-0.1
			iS	37	34.12	
DOT	2.04	46	eP	37	07.81	-0.3
SGAM	2.04	149	eP	37	07.15	-0.9
BWN	2.15	334	eP	37	08.64	-0.9
HDA	2.16	4	iP	37	09.76	0.0
WRH	2.24	352	iP	37	10.30	-0.6
SLKM	2.25	220	eP	37	11.47	0.5
TMW	2.26	60	eP	37	10.55	-0.6
RAGM	2.28	145	eP	37	10.80	-0.6
MTU	2.29	184	eP	37	11.54	0.0
SEW	2.40	206	eP	37	13.46	0.4
CCB	2.40	355	iP	37	12.36	-0.8
NKA	2.42	233	eP	37	14.97	1.6
CGLM	2.42	249	eP	37	13.69	0.1
HMT	2.43	141	eP	37	12.63	-1.0
NCG	2.45	252	eP	37	13.27	-0.7
NEA	2.45	342	eP	37	12.49	-1.4
SPU	2.50	246	eP	37	14.40	-0.2
RDS	2.60	352	iP	37	15.18	-0.8
BGL	2.61	250	eP	37	15.96	-0.2
CKL	2.61	248	eP	37	15.80	-0.5
TGL	2.63	123	eP	37	15.48	-1.1
FBA	2.66	356	ePd	37	16.60	-0.2
BALM	2.68	115	eP	37	15.94	-1.2
GLM	2.74	359	iP	37	17.13	-0.8
MDM	2.74	352	iP	37	17.09	-0.9
WAX	2.82	128	eP	37	17.93	-1.3
NNL	2.94	223	eP	37	21.22	0.3
RDT	2.97	237	eP	37	20.88	-0.5
BRLK	3.05	216	eP	37	21.40	-1.0
REF	3.14	238	eP	37	23.81	-0.1
CTGM	3.14	112	eP	37	22.93	-1.0
RDN	3.15	239	eP	37	23.44	-0.5
RSO	3.18	238	eP	37	24.13	-0.3
RS2	3.18	238	eP	37	24.31	-0.1
NCT	3.19	240	eP	37	24.66	0.2
CNPM	3.35	217	eP	37	25.70	-0.9
TTA	4.07	283	ePc	37	35.40	-1.4
SVW	4.12	257	ePc	37	35.70	-1.8
IMA	4.72	327	eP	37	45.10	-1.0
INK	8.36	38	P	38	34.00	-2.6
YKA	15.09	75	eP	40	08.40	1.9
	0.6s	0.60nm			3.0mb	
	68 obs. associated					

& FEB 01, 1991 12h 02m 44.30s
37.558 N 118.862 W
DEPTH = 6.0km
CALIFORNIA-NEVADA BORDER REGION (40)
<BRK>. ML 3.3 (BRK).

BONR	0.60	48	iP	02	55.10	-1.2
FRI	0.88	230	iPc	03	00.44	-1.1
			iS	03	10.20	
CMB	1.30	292	iPd	03	07.60	-1.1
			iS	03	24.50	
TNP	1.40	68	iPc	03	10.00	-0.6
PKEM	1.80	214	eP	03	17.00	0.9
LLA	1.91	241	iPc	03	18.05	0.3
			eS	03	43.29	
PRI	2.02	226	iPc	03	19.74	0.3
			eS	03	47.80	
ARN	2.14	265	eP	03	21.20	0.2
SAO	2.21	250	iPc	03	22.45	0.4
MHC	2.22	265	iPd	03	23.20	0.8
			eS	03	52.30	
PRS	2.35	239	eP	03	24.51	0.4
BCH	2.57	203	eP	03	27.00	-0.2
BRK	2.71	278	e(P)	03	39.30	10.1
ABL	2.72	186	eP	03	30.20	0.7
ORV	2.87	315	iPc	03	33.05	1.6
			eS	04	08.56	
	15 obs. associated					

FEB 01, 1991 12h 07m 49.61± 0.28s
19.781 S ± 9.5km 173.171 W ± 4.6km
DEPTH = 23.0km (3 depth phases)
5.4mb (37 obs.) 5.0Msz (13 obs.)
TONGA ISLANDS (173)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 39C
Centroid Locotion:
Origin Time 12:07:52.2 0.7
Lat 19.72S 0.09 Lon 172.67W 0.07
Dep 15.0 FIX Half-durotion 1.7
Moment Tensor; Scole 10**16 Nm
Mrr= 6.38 0.42 Mtt= 2.24 0.72
Mff=-8.62 0.66 Mrt= 4.86 1.27
Mrf= 7.82 1.54 Mtf=-2.78 0.41
Principol Axes:

T	Vol= 11.14	Plg=61	Azm=323
N	2.15	15	205
P	-13.29	24	108

Best Double Couple:Mo=1.2*10**17
NP1:Strike=170 Dip=24 Slip= 52
NP2: 30 71 106

AFI	5.99	13	eP	09	09.00	-10.2X
			eS	10	06.00	
SVA	8.09	280	eP	09	51.20	2.5
VUN	8.11	281	eP	09	50.20	1.2
MBU	8.19	289	eP	09	51.90	1.8
NDF	9.11	281	eP	10	07.90	5.1X
RAR	12.64	99	P	10	45.00	-5.8X
PVC	17.65	274	iP	12	11.50	15.7X
BKM	17.73	274	iP	11	58.70	2.0
DZM	19.18	260	iPc	12	13.10	-1.5
TBI	22.33	103	iP	12	48.60	1.3
	1.3s	400.00nm			5.7mb	
PAE	22.44	89	iP	12	48.80	0.4
	1.1s	65.00nm			5.0mb	
PPT	22.46	88	iP	12	49.00	0.4
	1.1s	90.00nm			5.2mb	
PPN	22.60	88	iP	12	50.30	0.3
	1.1s	35.00nm			4.8mb	
TVO	22.73	89	iP	12	52.00	0.6
	1.1s	120.00nm			5.3mb	
PMO	24.57	83	iP	13	08.50	-0.7
	1.1s	35.00nm			4.9mb	
VAH	24.76	84	iP	13	10.20	-0.8
	1.1s	20.00nm			4.6mb	
TPT	24.83	83	iP	13	10.90	-0.8
	1.1s	50.00nm			5.0mb	
RUV	25.00	84	iP	13	12.30	-1.0
	1.1s	55.00nm			5.1mb	
BRS	32.04	250	iPc	14	16.80	-0.1
			e(S)	20	00.00	
COO	33.27	244	iPc	14	28.00	0.4
RMQ	35.55	252	eP	14	46.00	-1.2
RKT	35.64	102	iP	14	49.30	1.3
	1.2s	50.00nm			5.3mb	
CNB	36.40	237	eP	14	55.00	0.6
CTA	38.08	262	iPc	15	06.20	-2.4
	1.0s	110.00nm			5.6mb	
			iS	21	15.00	
CMS	38.55	244	eP	15	11.00	-1.4
PMG	39.66	279	eP	15	18.00	-3.8X
TOO	40.00	235	eP	15	25.00	0.6
	0.5s	34.00nm			5.3mb	
TAU	40.36	226	eP	15	30.00	2.8X
STK	42.19	244	P	15	56.20	13.8X
BFD	42.19	236	eP	15	47.00	4.6X
QIS	44.21	261	eP	15	57.00	-2.0
ADE	44.91	240	e(P)	16	05.50	0.9
ASPA	49.10	255	P	16	36.60	-0.9
WRA	49.19	260	P	16	35.00	-3.3X
	0.7s	38.40nm			5.5mb	
MTN	53.71	268	eP	17	10.00	-2.4
KNA	55.22	264	eP	17	22.00	-1.5
WARB	55.36	251	eP	17	22.00	-2.5

01d 12h

VNDA	59.06	186	iPd	17	57.00	7.1X		Z	20s	0.60um		5.0Msz	BMR	149.05	338	ePKPd	27	41.00	7.8X
MBL	62.34	256	eP	18	10.30	-2.7	TIA	86.20	311	eP	20	32.20	1.6	ENN	149.07	1	ePKP	27	36.50	3.4X
	0.3s	9.00nm			5.4mb		FBA	86.64	11	eP	20	30.00	-2.1		1.0s	39.00nm				
KLB	62.45	244	eP	18	13.00	-0.6		0.9s	66.10nm			5.9mb		CFR	149.12	330	ePKP	27	44.00	10.7X
NWAO	62.73	242	eP	18	14.00	-1.5	GLD	86.66	46	P	20	33.00	0.0				e	53	03.00	
Z	20s	1.10um			5.0Msz			1.3s	45.98nm			5.5mb		MEM	149.23	1	PKPc	27	40.20	6.9X
RKG	62.79	241	eP	18	17.00	1.2	IMA	86.85	8	eP	20	31.50	-1.8	PRU	149.24	350	ePKP	27	38.80	5.4X
BAL	63.48	245	eP	18	20.00	-0.4		0.9s	18.60nm			5.3mb			1.7s	78.20nm				
MUN	63.71	243	eP	18	22.00	0.0	IPM	87.59	276	ePd	20	40.60	2.8X				e	27	40.20	
DAV	65.91	288	eP	18	34.00	-2.3		0.9s	66.20nm			5.9mb					e	27	50.00	
NANU	65.96	253	eP	18	35.00	-1.5	BJI	88.63	314	eP	20	43.00	0.8	VRI	149.25	332	ePKPc	27	25.00	-8.5X
	0.4s	13.00nm			5.4mb			1.5s	43.00nm			5.6mb		LWI	149.27	227	iPKPd	27	41.90	7.1X
SPA	70.34	180	iPc	19	07.70	4.3X		Z	20s	0.36um		4.8Msz		TNS	149.60	358	ePKPc	27	40.50	6.5X
	1.0s	40.00nm			5.5mb					eSKS	31	10.00		DOU	149.70	3	PKP	27	38.00	4.0X
KAKJ	71.04	322	eP	19	07.80	0.0	SES	88.67	34	eP	20	43.00	0.8		1.0s	61.10nm				
ADK	71.42	358	eP	19	09.00	-0.7	SNG	88.86	278	eP	20	46.70	2.9X				e	27	49.00	
CHJJ	71.63	321	eP	19	10.30	-1.1	MEO	89.14	53	eP	20	45.30	0.5	SHBJ	149.80	301	PKPd	27	42.72	7.8X
IIDJ	71.90	320	eP	19	11.70	-1.4	RSSD	89.53	42	P	20	46.50	-0.2	MLR	149.88	333	ePKP	27	39.00	4.3X
OFUJ	72.20	325	eP	19	13.10	-1.6	TIY	90.23	310	eP	20	51.00	1.1	GRF	149.95	354	ePKP	27	39.60	5.1X
MAT	72.43	321	iPc	19	14.10	-2.0	Z	20s	0.80um			5.1Msz		Z	21s	0.40um			5.2Msz	
	1.0s	50.00nm			5.5mb		E	15s	0.40um								e	27	42.60	
Z	20s	0.71um			4.9Msz		GYA	90.28	298	P	20	52.40	2.0	ABH	149.96	359	ePKP	27	42.20	7.7X
		eS	28	31.00						SKS	31	24.00		PSZ	150.00	342	e(PKP)	27	41.00	6.3X
YAMJ	72.48	323	eP	19	16.80	0.4	XAN	91.35	306	eP	20	55.00	-0.1	BBTK	150.08	318	iPKPc	27	43.00	7.9X
MTMJ	72.70	320	eP	19	16.50	-1.3	E	11s	0.50um					KHC	150.22	351	ePKP	27	38.40	3.5X
SYP	73.98	43	eP	19	43.00	17.6X	HHC	92.15	313	eP	21	01.50	2.8X		1.4s	58.00nm				
PRS	74.23	41	eP	19	26.90	0.3				sS	32	10.00					e	27	43.30	
GCC	74.29	40	eP	19	27.50	0.5	NST	92.18	286	eP	21	02.00	2.9X	WET	150.30	352	iPKPc	27	42.20	7.2X
BAG	74.36	294	eP	19	27.20	-0.8	INK	92.45	14	eP	20	58.50	-0.8		1.6s	111.00nm				
SAO	74.46	41	eP	19	28.50	0.5	KMI	93.10	295	Pc	21	06.50	2.9X	CMP	150.45	333	ePKPc	27	36.00	0.6
BKS	74.70	40	eP	19	31.40	2.1		1.5s	40.00nm			5.6mb		TNR	150.45	335	ePKPd	27	44.00	8.6X
	0.9s	33.00nm			5.4mb		BTO	93.12	312	eP	21	06.00	2.8X	ZST	150.46	346	ePKP	27	36.70	1.5
MHC	74.71	40	eP	19	29.50	-0.1				esP	21	13.00					i	27	43.70	
PAS	74.93	45	eP	19	31.00	0.2				eSKS	31	38.00					i	27	57.60	
MWC	75.05	45	eP	19	31.00	-0.7	BDT	93.73	287	eP	21	07.00	0.8	FLN	150.49	10	ePKP	27	41.80	6.5X
PLM	75.34	46	P	19	30.50	-2.9	YKA	94.01	23	eP	21	05.00	-1.6		1.0s	108.00nm				
RVR	75.37	45	eP	19	34.00	0.7		1.0s	2.50nm			4.6mb		SRO	150.52	344	ePKP	27	42.80	7.5X
PEC	75.45	45	P	19	33.00	-0.8	CD2	94.26	301	eP	21	08.00	-0.6	VKA	150.57	347	iPKPc	27	43.20	7.8X
SBB	75.48	44	eP	19	33.00	-1.0	CHG	94.30	288	eP	21	11.00	2.1		2.0s	194.00nm				
ISA	75.65	43	eP	19	35.00	0.1		0.9s	8.61nm			5.2mb					i	28	01.60	
FRI	75.68	42	ePc	19	34.50	-0.4	LZH	95.98	306	iPd	21	17.50	1.0	BUD	150.64	343	e(PKP)	27	41.00	5.5X
CMB	75.92	40	ePc	19	36.00	-0.4		1.5s	31.00nm			5.5mb		LDF	150.71	9	ePKP	27	42.30	6.7X
WDC	76.29	37	ePc	19	36.20	-2.2	Z	20s	0.34um			4.8Msz			1.0s	80.00nm				
CLC	76.31	44	eP	19	38.00	-0.6	N	12s	0.34um					BHL	150.81	305	PKP	27	42.00	5.6X
GSC	76.52	44	eP	19	37.00	-2.9				pP	21	23.50	19km	MDSJ	151.07	300	PKPd	27	44.27	7.4X
GLA	76.56	47	eP	19	41.00	0.9				sP	21	28.80		LPF	151.11	11	ePKP	27	43.30	7.1X
TNP	77.91	42	P	19	45.50	-2.2	FVM	96.44	52	P	21	19.50	1.2		1.0s	100.00nm				
SSE	80.78	308	P	20	03.50	0.5	ZOBO	98.11	110	P	21	18.50	-8.6X	SHMJ	151.13	302	PKPd	27	49.32	12.5X
	1.1s	29.00nm			5.2mb		GTA	100.06	308	ePdiff	21	36.40	1.4	JARJ	151.14	301	PKPd	27	47.13	10.2X
Z	20s	0.50um			4.9Msz			0.8s	10.00nm			5.4mb		BURJ	151.25	301	PKPd	27	44.65	7.5X
		pP	20	12.00	27km		MBC	101.16	11	ePdiff	21	38.00	-0.8	GHZJ	151.30	298	PKPd	27	46.32	9.1X
		eS	30	12.00			GBA	112.50	277	PKPc	26	28.00	1.6	GPA	151.33	321	ePKP	27	45.00	8.1X
		eSKS	30	16.00				0.6s	1.00nm					SALJ	151.42	301	PKPd	27	46.40	9.1X
SVW	81.84	9	P	20	00.30	-7.7X	SOB1	124.89	117	ePKP	26	54.80	4.5X	CDF	151.44	359	ePKP	27	44.50	7.6X
MDJ	82.62	323	Pc	20	14.00	1.7	QUE	125.06	293	ePKP	26	50.90	0.5		1.0s	48.00nm				
	1.0s	80.00nm			5.8mb		NB2	138.67	357	PKP	27	15.20	0.1	MASJ	151.48	300	PKPd	27	45.95	8.5X
Z	20s	1.40um			5.3Msz			1.1s	9.60nm					UZD	151 57	343	ePKP	27	45.50	8.5X
		eS	30	30.00			TAB	141.27	307	ePKP	27	26.00	5.3X	MKRJ	151.60	300	PKPd	27	48.04	10.4X
NJ2	82.98	308	Pd	20	16.00	1.6	NAI	143.91	238	iPKPd	27	28.50	2.5	BHG	151.70	351	ePKP	27	42.30	5.1X
PMR	83.35	11	eP	20	16.30	0.6	ETA	145.62	14	ePKP	27	30.10	2.6X				i	27	46.00	
	1.5s	112.50nm			5.8mb		ECP	146.06	15	ePKP	27	29.30	1.1	LISJ	151.82	300	PKPd	27	48.81	11.1X
ALQ	83.45	49	eP	20	17.00	-0.1	WIT	147.03	0	ePKP	27	32.00	2.3	BSF	152.02	0	ePKP	27	45.50	7.7X
	1.2s	38.28nm			5.5mb		WTS	147.85	0	ePKP	27	35.00	3.9X		0.9s	26.20nm				
Z	18s	0.77um			5.1Msz			1.0s	61.00nm					CSS	152.14	308	e(PKP)	27	47.00	8.8X
		e	20	37.50	75kmX		IAS	147.85	333	ePKP	27	37.00	5.8X				e	27	47.50	
PNT	83.59	32	eP	20	18.00	0.8	KRA	148.04	344	ePKP	27	33.50	2.0	ALT	152.21	319	ePKP	27	47.50	9.2X
	1.1s	32.00nm			5.4mb			1.2s	75.00nm					GRC	152.39	6	PKP	27	46.74	8.6X
NEW	84.20	34	P	20	20.00	-0.4				e	27	36.80		SQTA	152.40	354	iPKPd	27	47.00	8.6X
	0.8s	12.50nm			5.2mb					e	27	51.70			1.2s	71.20nm				
DL2	84.39	315	eP	20	20.00	-1.4	KSP	148.11	349	ePKP	27	33.00	1.4				i	28	05.00	
	1.0s	30.00nm			5.5mb			1.2s	94.00nm								i	28	09.90	
Z	20s	0.40um			4.8Msz					id	27	37.90					i	28	34.40	
		eS	30	43.00						i	27	46.70		LOR	152.48	4	ePKP	27	46.80	8.5X
TOA	84.39	12	eP	20	22.70	1.6				e	34	00.00			1.0s	56.00nm				
CN2	84.57	320	Pd	20	22.60	0.3	CLL	148.16	353	ePKP	27	34.00	2.4	BEO	152.58	339	iPKP	27	48.00	9.5X
	6.0s	500.00nm			5.9mb	X		1.7s	160.00nm					MFF	152.64	10	ePKP	27	47.00	8.5X
Z	20s	1.00um			5.2Msz					i	27	48.90			1.0s	28.00nm				
		epP	20	30.00	23km		GAZ	148.35	310	ePKP	27	36.90	4.5X	SSF	152.65	5	ePKP	27	47.20	8.7X
		eS	30	47.00			BRG	148.47	351	iPKPd	27	34.70	2.6X	LBF	152.77	4	ePKP	27	47.40	8.6X
SNY	84.65	318	Pc	20	22.00	-0.7		1.5s	90.00nm						1.0s	40.00nm				
	1.4s	100.00nm			5.9mb					i	27	55.30		FVI	152.82	351	PKP	27	48.50	9.8X
Z	20s	0.60um			5.0Msz					i	28	17.20		PTJ	152.89	346	ePKP	27	41.10	2.1
		SKS	30	44.00			KAS	148.58	319	ePKP	27	39.50	6.8X	AVF	152.91	5	ePKP	27	47.40	8.5X
LRM	85.32	38	eP	20	26.20	-0.1	SPC	148.75	343	ePKP	27	35.40	2.5		1.0s	30.00nm				
BW06	85.38	41	P	20	25.50	-1.2	BNS	148.88	360	iPKPd	27	39.10	6.3X	KHL	153.01	318	ePKP	27	48.00	8.6X
WHN	85.73	304	eP	20	29.50	1.2	MDX	148.97	354	iPKP	27	38.00	5.0X	LJU	153.05	348	e(PKP)	27	48.00	8.9X
	1.2s	100.00nm			5.9mb			2.0s	147.00nm					SMF	153.09	5	ePKP	27	47.80	8.6X

01d 12h

```
        1.1s     20.75nm
BGF   153.09    6 ePKP   27 47.80    8.6X
        0.8s     36.95nm
VOY   153.18 349 ePKP   27 46.00    6.6X
LSF   153.24    8 ePKP   27 47.90    8.5X
        1.0s     52.00nm
TCF   153.29    7 ePKP   27 48.30    8.8X
        0.9s     16.40nm
CEY   153.36 348 e(PKP)27 49.80   10.2X
MAF   153.40    7 ePKP   27 48.70    9.1X
        0.9s     31.10nm
VBY   153.42 347 iPKPd  27 50.50   10.9X
CTI   153.50 352 PKP     27 51.00   11.1X
PLDF  153.75    5 PKP    27 49.67    9.5X
PYM   153.91    6 PKP    27 50.12    9.7X
VAI   153.94 357 PKP     27 45.00    4.7X
MDI   153.97 355 PKP     27 52.00   11.6X
RJF   154.17    9 ePKP   27 50.20    9.5X
LBL   154.45    6 PKP    27 50.87    9.9X
SSB   154.50    4 PKP    27 52.23   11.1X
SKO   154.65 334 ePKP    27 52.50   11.1X
                i        28 02.20
                i        28 55.50
VAY   154.69 331 ePKP    27 47.00    5.5X
BNI   154.80    0 PKP    27 56.00   14.3X
BOB   154.99 356 PKP     27 53.50   11.6X
FIR   155.79 352 ePKP    27 55.00   12.1X
BCAO  160.95 218 iPKPc   27 53.10    3.3X
        1.0s     15.00nm
                id       28 37.60
IFR   162.66    36 iPKPd 27 56.00    4.9X
      S.D. = 1.4  on 111 of 216 obs.
-------------------------------------
   FEB  01, 1991  12h 23m 07.78± 1.01s
   35.415 N ±12.7km   27.180 E ± 6.3km
   DEPTH =  29.8 ±  5.7 km
 DODECANESE ISLANDS                (369)
      MD 3.9 (ATH).

KAP     0.14 358 iPbd   23 13.50    0.1
ARG     1.11  44 ePb    23 28.80    1.5
NPS     1.29 264 ePn    23 30.50    0.6
YER     1.93  27 iPn    23 39.50    0.2
KSL     2.08  70 ePn    23 40.50   -0.8
APE     2.12 322 ePn    23 41.30   -0.6
CIN     2.30  18 eP     23 45.00    0.6
SMG     2.31 353 ePn    23 45.00    0.5
VAM     2.43 271 ePn    23 47.50    1.1
ELL     2.58  58 iPn    23 48.50    0.0
BCK     3.42  52 iP     23 59.50   -1.0
KHL     3.46  32 eP     24 00.80   -0.2
VLI     3.67 292 ePn    24 02.50   -1.4
ITM     4.59 294 ePn    24 16.50   -0.5
      S.D. = 0.9  on  14 of  14 obs.
-------------------------------------
   FEB  01, 1991  12h 33m 26.87± 0.33s
   26.573 S ± 7.1km  114.381 W ± 5.4km
   DEPTH =  10.0km  (geophysicist)
   5.3mb ( 23 obs.)  4.8Msz (  3 obs.)
 EASTER ISLAND REGION              (685)
      Ms 5.1 (BRK).
      CENTROID, MOMENT TENSOR      (HRV)
      Doto Used: GDSN
      L.P.B.: 16S, 29C
      Centroid Location:
      Origin Time        12:33:36.2 0.7
      Lot 26.43S 0.10 Lon 114.69W 0.07
      Dep  15.0 FIX Half-duration  2.0
      Moment Tensor;   Scale 10**16 Nm
        Mrr=-5.94 0.56  Mtt=-3.87 0.65
        Mff= 9.81 0.59  Mrt= 2.24 1.72
        Mrf=-4.07 2.36  Mtf=-8.26 0.73
       Principal Axes:
        T  Val= 14.73  Plg=13  Azm= 65
        N       -6.88     68      301
        P       -7.85     18      159
      Best Double Couple:Mo=1.1*10**17
       NP1:Strike=201 Dip=68 Slip=  -4
       NP2:       293     87     -158

RKT    19.00 276 eP     37 55.00    3.9X
       1.4s   110.00nm          4.9mb
VAH    32.95 283 eP     40 03.00   -0.9
       1.2s    35.00nm          5.2mb
TPT    33.05 284 eP     40 04.00   -0.7
       1.2s   100.00nm          5.6mb
TVO    33.37 278 eP     40 09.00    1.4
       1.2s    35.00nm          5.2mb
PPN    33.62 278 eP     40 10.00    0.3
       1.2s    25.00nm          5.0mb
PPT    33.73 278 eP     40 11.00    0.2
       1.2s    55.00nm          5.4mb
AFR    33.92 278 eP     40 13.00    0.6
       1.2s    70.00nm          5.5mb
NNA    38.13  75 eP     40 50.70    2.6
       1.1s    16.46nm          4.7mb
     Z 22s     0.93um           4.5Msz
                e        46 29.00
LPB    43.99  87 P      41 35.00   -1.8
                i        42 14.00
                LR       52 40.00
CNCB   43.99  87 P      41 38.20    1.2
                i        42 13.60
ZOBO   44.06  86 P      41 37.80    0.2
                i        42 18.00
                S        48 18.00
                LR       52 48.00
SIV    50.47  89 eP     42 18.00   -9.3X
SDV    55.18  56 eP     43 02.00   -0.5
TOV    56.39  56 eP     43 09.50   -1.6
PPD    57.16 100 e(P)   43 18.00    1.5
GLA    59.30 360 eP     43 31.00   -0.1
PLM    59.64 358 eP     43 34.00    0.3
PEC    60.19 357 P      43 36.90   -0.3
RVR    60.30 357 eP     43 38.00    0.1
PAS    60.49 356 eP     43 40.00    0.7
MWC    60.56 357 eP     43 40.00    0.0
SYP    61.00 355 eP     43 43.00    0.2
SBB    61.01 357 eP     43 43.00    0.1
GSC    61.58 358 eP     43 47.00    0.3
ALQ    61.64   7 ePd    43 47.00   -0.3
       1.2s    30.47nm          5.3mb
     Z 18s     0.69um           4.9Msz
ISA    62.02 356 eP     43 50.00    0.3
CLC    62.13 357 eP     43 50.00   -0.4
PRI    62.66 354 eP     43 54.50    0.5
MEO    62.83  15 iPd    43 54.00   -1.0
PRS    62.91 354 eP     43 56.00    0.5
LLA    63.15 354 eP     43 58.10    1.0
SAO    63.35 354 eP     43 58.80    0.4
FRI    63.42 355 ePd    43 58.50   -0.3
SPA    63.58 180 iPc    43 59.80   -0.1
       1.2s    21.13nm          5.2mb
MHC    63.94 354 ePd    44 03.30    0.9
TNP    64.37 358 P      44 05.70    0.4
       1.0s    30.00nm          5.4mb
CMB    64.51 355 iPd    44 06.30    0.3
BRK    64.53 353 eP     44 07.00    0.9
BKS    64.53 353 eP     44 26.00   19.9X
       0.9s    44.00nm
     Z 20s     1.30um           5.1Msz
     N 20s     1.10um
     E 20s     0.50um
                ePP      47 02.40
                eS       53 22.00
                eLQ      01 24.00
                eLR      04 10.80
ZSP    64.60 353 eP     44 07.70    1.2
ORV    66.12 354 eP     44 17.50    1.2
GLD    66.53   8 P      44 18.80   -0.4
       1.2s    32.32nm          5.4mb
WDC    67.24 353 iPd    44 23.30   -0.1
FVM    68.04  20 P      44 27.50   -1.0
BW06   69.15   4 P      44 34.10   -1.5
       1.2s    59.36nm          5.6mb
RSSD   70.98   8 P      44 45.60   -1.1
       1.2s    76.53nm          5.7mb
BLA    71.03  28 P      44 46.50   -0.4
       0.6s    11.36nm          5.2mb
DZM    71.20 254 iPc    44 48.00   -0.4
LRM    72.07   1 eP     44 53.00   -0.2
CLE    74 24   25 iP     45 06.00    0.3
NEW    74 53 358 P      45 07.50    0.2
       1 5s    247.81nm          6.0mb
PGC    75.32 354 eP     45 12.00    0.3
PNT    75.69 356 ePd    45 14.00    0.1
       1.1s    35.00nm          5.3mb
SES    76.68   2 eP     45 20.00    0.5
EDM    79.46   1 ePd    45 34.50   -0.2
       1.2s   168  0nm          5.9mb
RSNY   79.60  28 P      45 35.50   -0.1
       1.9s    34.71nm          5.3mb
FFC    81 06   7 ePd    45 46.10   -0.2
       1.3s    46.00            5.4mb
YKA    88.75 360 eP     46 19.70   -1.7
       0.9s     8.70nm          5.0mb
FBA    94.79 346 P      46 48.50   -0.8
       0.8s    13.10nm          5.4mb
INK    95.65 353 ePd    46 51.80   -1.4
WRA    98.91 243 P      47 14.00    4.9X
       1.1s     1.50nm          4.6mb
KHC   134.21  46 ePKP   52 46.00   -0.3
MLR   143.24  49 ePKP   53 03.00   -0.1
LOE   145.39 262 ePKP   53 06.20   -1.1
NST   146.13 258 ePKP   53 09.50    0.9
LZH   146.18 296 iPKPd  53 08.00   -0.4
       1.0s    20.00nm
                pP       17 34.00
CHG   148.37 263 ePKPd  53 14.50    2.3X
       1.1s    19.62nm
      S.D. = 0.8  on  62 of  67 obs.
-------------------------------------
?  FEB  01, 1991  13h 32m 22.96± 4.07s
   59.176 N ±35.0km   10.360 E ±24.5km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN NORWAY                   (535)
      MD 2.6 (BER).

NRA0    1.67  20 Pn     32 52.40    0.0
                Sg       33 16.90
ODD1    2.04 293 eP     32 57.73    0.0
                eS       33 25.89
KMY     2.63 273 eP     33 06.17    0.0
                eS       33 36.97
MOL     3.67 339 eP     33 20.97    0.0
      S.D. = 0.0  on   4 of   4 obs.
-------------------------------------
&  FEB  01, 1991  13h 36m 17.52s
   39.496 N          122.941 W
   DEPTH =   3.4km
 NORTHERN CALIFORNIA               ( 36)
      <GM>. MD 3.0 (GM).

LTCM    0.95  41 eP     36 35.70   -0.5
NWRM    1.04 178 eP     36 36.00   -1.7
ORV     1.12  86 eP     36 37.00   -2.1
FHC     1.53 329 eP     36 48.00    2.2
LBFM    2.02  23 eP     36 55.00    2.0
BONR    3.94 112 eP     37 27.50    7.0
      6 obs. ossociated
-------------------------------------
&  FEB  01, 1991  14h 01m 35.50s
   59.021 N          154.102 W
   DEPTH = 115.0km
   3.1mb (  1 obs.)
 SOUTHERN ALASKA                   (  2)
      <AEIC>.

MCNL    0.20 324 iP     01 50.90    0.7
                eS       02 02.80
CDD     0.25 111 iP     01 51.01    0.6
                eS       02 03.44
AUI     0.47  48 eP     01 52.18   -0.8
                iS       02 05.25
AUH     0.48  44 iP     01 52.77   -0.4
AUE     0.51  48 eP     01 52.62   -0.5
PDB     0.77 357 iP     01 54.04   -1.2
                eS       02 08.80
SYI     0.98 114 iP     01 56.18   -1.0
                eS       02 11.98
XLV     1.30  69 eP     01 59.18   -1.5
                eS       02 17.93
HOM     1.41  62 eP     02 00.92   -1.0
                eS       02 20.90
CNPM    1.56  70 iP     02 02.10   -1.6
RED     1.56  25 eP     02 02.29   -1.5
RS2     1.60  25 iP     02 03.20   -1.2
                eS       02 24.80
RSO     1.60  25 eP     02 03.17   -1.2
                eS       02 24.37
REF     1.63  25 eP     02 03.43   -1.4
                iS       02 25.74
RDN     1.64  24 iP     02 03.59   -1.3
                eS       02 25.38
NCT     1.66  20 iP     02 03.66   -1.3
                eS       02 25.17
NNL     1.76  53 iP     02 05.44   -0.7
RDT     1.78  28 eP     02 04.78   -1.7
BRLK    1.81  64 e      02 04.83   -1.9
                e        02 27.52
SVW     2.23 341 i      02 10.75   -1.4
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NKA	2.25	39	eP	02	12.15	-0.2
CKL	2.35	21	eP	02	12.15	-1.7
SPU	2.40	24	eP	02	12.65	-1.8
BGL	2.41	20	eP	02	13.17	-1.4
CRP	2.45	23	eP	02	13.04	-2.2
SLKM	2.47	51	eP	02	13.08	-2.2
CGLM	2.52	24	eP	02	16.53	0.5
NCG	2.58	21	eP	02	15.63	-1.2
SEW	2.61	63	eP	02	14.54	-2.5
SUA	2.97	33	eP	02	20.57	-1.5
PMS	3.18	44	eP	02	22.65	-2.2
SKT	3.23	22	eP	02	23.56	-1.9
PWA	3.37	37	eP	02	24.78	-2.5
MTU	3.43	71	iP	02	25.78	-2.3
KNIM	3.49	65	eP	02	25.63	-3.3
PLRM	3.57	42	eP	02	27.17	-2.8
PMR	3.57	42	eP	02	27.00	-3.0
KNK	3.70	47	eP	02	28.62	-3.2
GHO	3.77	41	iP	02	30.15	-2.7
GLI	3.99	59	eP	02	31.84	-3.8
TTA	4.03	347	eP	02	34.00	-2.4
CVA	4.49	67	eP	02	39.18	-3.3
SGAM	4.74	68	eP	02	42.51	-3.4
KLU	4.77	55	eP	02	43.00	-3.4
RAGM	4.97	70	eP	02	46.04	-3.0
HMT	5.16	71	eP	02	48.44	-3.2
WAX	5.87	71	eP	02	58.19	-3.3
YKA	19.38	63	eP	05	50.30	-4.1
	0.4s		0.40nm			3.1mb
	48 obs. assaciated					

FEB 01, 1991 15h 09m 08.96± 0.38s
18.089 S ± 9.0km 178.201 W ± 4.2km
DEPTH = 615.5 ± 5.7 km
5.0mb (26 obs.)
FIJI ISLANDS REGION (181)

MBU	3.14	290	iPd	10	31.10	0.5
VUN	3.17	271	iP	10	31.00	0.2
SVA	3.18	269	eP	10	31.40	0.6
AFI	7.44	57	P	11	03.00	-1.2
DZM	14.96	252	iPc	12	17.10	0.7
			iS	14	55.00	
AFR	27.06	93	iP	14	06.20	-0.1
	0.8s		35.00nm			5.0mb
PAE	27.23	94	iP	14	07.60	-0.3
	0.8s		25.00nm			4.9mb
PPT	27.25	93	iP	14	07.80	-0.2
	0.8s		40.00nm			5.1mb
TBI	27.36	106	iP	14	09.80	0.9
	1.0s		45.00nm			5.1mb
PPN	27.39	93	iP	14	08.80	-0.4
	0.8s		10.00nm			4.5mb
TVO	27.53	94	iP	14	10.30	-0.3
	0.8s		25.00nm			4.9mb
BRS	28.27	246	iPc	14	16.60	-0.2
PMO	29.19	89	iP	14	24.60	-0.2
	0.8s		20.00nm			4.8mb
VAH	29.41	89	iP	14	26.40	-0.2
	0.8s		15.00nm			4.7mb
TPT	29.46	89	iP	14	26.90	-0.1
	0.8s		25.00nm			4.9mb
RUV	29.65	89	iP	14	28.50	-0.1
	0.8s		35.00nm			5.0mb
COO	29.85	240	iPd	14	30.40	0.0
RMQ	31.63	249	eP	14	45.00	-0.3
CNB	33.47	233	iPc	15	01.60	0.8
	0.6s		97.00nm			5.6mb
CTA	33.61	261	iPd	15	01.80	-0.2
	0.8s		82.09nm			5.4mb
PMG	34.69	280	iPd	15	11.00	0.1
	0.9s		117.65nm			5.5mb
CMS	35.11	241	iPd	15	14.80	0.6
	0.7s		62.00nm			5.3mb
TOO	37.21	231	ePd	15	32.40	1.0
	0.6s		40.00nm			5.2mb
TAU	38.24	222	eP	15	40.00	0.4
BFD	39.29	233	iPd	15	50.80	2.6
	0.9s		29.00nm			4.8mb
QIS	39.82	259	iPd	15	51.60	-1.0
RKT	40.66	105	iP	15	59.80	0.5
	1.0s		25.00nm			4.7mb
ADE	41.71	237	iPd	16	07.50	0.0
WB2	44.78	260	iPd	16	30.50	-1.1
			iS	21	28.00	
WRA	44.79	260	P	16	30.00	-1.6
	0.5s		66.70nm			5.4mb
ASPA	44.94	254	iPd	16	32.10	-0.6
	0.9s		185.00nm			5.6mb
			iPcP	18	00.00	
			eS	22	25.50	
WARB	51.41	251	iPd	17	19.90	-1.0
MBL	58.13	256	iPd	18	06.20	-1.5
	0.4s		24.00nm			4.8mb
MEKA	58.63	249	eP	18	09.00	-2.0
KLB	58.92	244	eP	18	11.20	-1.6
	0.5s		21.00nm			4.6mb
MUN	60.22	243	eP	18	20.50	-0.9
NANU	61.86	254	iPd	18	31.70	-0.4
	0.4s		52.00nm			5.2mb
MAT	68.17	323	iPd	19	10.00	-1.0
	0.9s		10.92nm			4.4mb
NJ2	78.20	309	Pd	20	08.60	1.0
MDJ	78.45	325	eP	20	09.60	1.0
CN2	80.28	322	Pd	20	17.40	-0.8
WHN	80.87	306	Pc	20	22.70	1.2
BJI	84.05	315	eP	20	37.50	0.4
	1.4s		16.00nm			4.5mb
FBA	85.94	13	eP	20	45.30	-0.5
XAN	86.53	307	P	20	50.40	1.1
CHG	89.25	290	ePd	21	03.00	0.9
	0.9s		10.08nm			4.7mb
LZH	91.16	308	iPd	21	11.50	0.7
	1.0s		28.00nm			5.2mb
YKA	94.41	25	eP	21	24.00	-0.9
	0.6s		0.40nm			3.8mb X
NB2	136.58	353	PKP	27	15.40	-8.0X
	0.7s		1.10nm			
HFS	137.14	351	ePKP	27	14.00	-10.4X
	0.5s		3.70nm			
KRA	144.94	340	iPKPd	27	38.80	0.4
KSP	145.34	344	iPKPd	27	40.30	1.2
	0.7s		26.00nm			
CLL	145.68	348	iPKPd	27	41.20	1.6
	1.2s		40.00nm			
BRG	145.89	346	iPKP	27	42.10	2.2X
	0.8s		20.00nm			
WTS	145.94	354	ePKP	27	42.00	2.1X
	0.7s		16.00nm			
MLR	146.09	329	ePKPc	27	47.00	6.4X
PRU	146.57	345	PKP	27	44.00	2.9X
	0.6s		12.20nm			
MML	146.57	302	iPKPd	27	44.60	2.9X
LWI	146.61	236	iPKPd	27	45.90	3.4X
MKT	147.20	299	iPKPd	27	46.00	3.3X
ENN	147.23	355	ePKP	27	45.50	3.4X
	0.7s		11.00nm			
SRO	147.42	339	ePKP	27	45.40	2.9X
PRNI	147.48	298	iPKPd	27	47.00	3.8X
ZST	147.48	341	ePKP	27	46.50	3.9X
KHC	147.60	346	ePKP	27	47.50	4.7X
ABH	147.95	353	ePKP	27	47.41	4.1X
DOU	147.99	357	PKP	27	47.70	4.4X
FLN	149.35	3	ePKP	27	50.40	5.0X
	0.8s		13.45nm			
CDF	149.43	353	ePKP	27	51.00	5.3X
	0.8s		10.75nm			
LDF	149.53	3	ePKP	27	50.70	5.0X
GRR	149.70	4	ePKP	27	51.30	5.3X
HAU	149.93	354	ePKP	27	51.80	5.4X
	0.5s		4.35nm			
SQTA	149.93	347	iPKPd	27	52.10	5.6X
	0.6s		12.40nm			
			ic	27	52.40	
LPF	150.05	4	ePKP	27	52.20	5.7X
	0.9s		24.55nm			
BSF	150.05	353	ePKP	27	52.20	5.5X
	0.6s		6.30nm			
LOR	150.85	357	ePKP	27	54.20	6.4X
	0.5s		5.45nm			
SSF	151.07	358	ePKP	27	54.90	6.8X
	0.9s		14.75nm			
LBF	151.13	357	ePKP	27	54.70	6.5X
	0.7s		5.50nm			
MFF	151.52	3	ePKP	27	55.50	6.8X
BGF	151.60	358	ePKP	27	55.80	6.9X
	0.8s		8.75nm			
LSF	151.92	0	ePKP	27	56.00	6.7X
MAF	151.94	359	ePKP	27	56.40	7.0X
LPL	152.34	353	ePKP	27	58.30	8.1X
	0.8s		4.05nm			
LPG	152.36	352	ePKP	27	58.30	7.9X
	S.D. = 0.9 on 51 of 84 obs.					

FEB 01, 1991 15h 20m 21.77± 0.23s
44.731 N ± 2.0km 6.761 E ± 2.9km
DEPTH = 10.5 ± 2.5 km
FRANCE (538)
ML 3.0 (LDG), 2.8 (GEN). MD 2.2 (STR).

RRL	0.19	5	P	20	25.45	-0.7
			S	20	28.90	
FOUF	0.20	176	iPgd	20	25.36	-0.9
			e(Sg)	20	27.82	
BNI	0.33	349	P	20	29.80	1.2
			eSg	20	34.50	
PZZ	0.33	133	P	20	28.40	-0.3
			S	20	34.77	
DOI	0.41	123	P	20	32.00	1.7
			eSg	20	38.00	
RSP	0.55	40	P	20	32.64	-0.2
			S	20	41.23	
STV	0.63	140	P	20	33.71	-0.8
			S	20	43.24	
ENR	0.69	137	P	20	34.83	-0.6
			S	20	46.02	
LPG	0.77	359	Pg	20	36.20	-0.7
			Sg	20	46.40	
LSD	0.78	21	P	20	36.12	-0.9
			S	20	47.12	
LPL	0.79	359	Pg	20	36.50	-0.7
			Sg	20	47.30	
TOUF	0.80	154	Pg	20	37.04	-0.3
AUTN	0.88	147	Pg	20	38.53	-0.2
			Sg	20	52.49	
MVIF	0.88	161	Pg	20	38.26	-0.5
ROB	0.91	118	P	20	38.94	-0.2
			S	20	52.00	
AURF	0.94	154	Pg	20	39.42	-0.2
SAOF	0.94	142	Pg	20	39.51	-0.1
			Sg	20	53.42	
CALN	0.98	175	Pg	20	40.40	-0.1
SBF	0.99	151	Pg	20	40.64	0.0
CKI	1.13	105	P	20	44.90	2.1
IMI	1.15	135	P	20	43.39	0.1
			S	20	59.32	
FIN	1.16	116	P	20	43.68	0.3
			S	21	00.04	
FRF	1.17	184	Pn	20	43.60	0.0
			Pg	20	44.60	
			Sg	21	01.80	
ORO	1.24	44	P	20	46.80	1.9
			eSg	21	03.80	
ORX	1.25	43	P	20	44.33	-0.7
			S	21	01.04	
CDR	1.28	214	i(Pg)	20	45.90	0.5
			i(Sg)	20	57.80	
			i	20	58.30	
PCP	1.29	98	P	20	45.65	0.0
			S	21	03.20	
LRG	1.31	193	Pg	20	46.30	0.4
			Sg	21	05.40	
LMR	1.41	188	Pg	20	48.20	0.8
			Sg	21	06.40	
PGF	2.72	143	Pn	21	05.03	-1.3
SMF	2.80	314	Pn	21	07.70	0.3
			Sg	21	49.20	
BSF	3.10	0	Pn	21	11.00	-0.7
AVF	3.15	312	Pn	21	12.60	0.3
LOR	3.25	322	Pn	21	14.00	0.3
SSF	3.26	317	Pn	21	14.00	0.2
			Pg	21	23.00	
HAU	3.29	355	Pn	21	13.80	-0.5
BGF	3.30	305	Pn	21	14.40	0.0
			Pg	21	23.80	
MAF	3.31	298	Pn	21	15.00	0.4
CAF	3.35	275	Pn	21	15.00	-0.2
TCF	3.56	298	Pn	21	18.30	0.2
	S.D. = 0.8		on	40	of 40	obs.

% FEB 01, 1991 15h 29m 48.76± 1.46s
37.813 N ± 6.0km 30.602 E ±16.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

BCK	0.35	182	iPg	29	55.60	-0.4
KHL	0.99	301	iPn	30	06.80	-0.8
			eSg	30	21.80	
ELL	1.20	208	ePn	30	11.50	0.3
ALT	1.30	343	iPn	30	13.10	0.2

01d 15h

YER	1.97	251	ePn	30 23.00	0.5
DST	2.36	320	ePn	30 28.50	0.2
S.D. = 0.7			on	6 of 6 obs.	

FEB 01, 1991 16h 46m 12.44± 0.43s
49.114 N ± 3.4km 6.886 E ± 5.5km
DEPTH = 10.0km (geophysicist)
GERMANY (543)
MD 2.7 (STR).

GWF	0.50	105	Pg	46 22.07	-0.6
			Sg	46 29.77	
RUP	0.60	11	ePg	46 23.35	-1.2
CDF	0.75	160	Pg	46 26.72	-0.4
WLS	0.77	156	Pg	46 27.08	-0.4
ABH	0.88	29	ePg	46 28.98	-0.4
ECH	0.92	169	Pg	46 29.97	0.0
			Sg	46 43.46	
VITF	1.08	214	Pg	46 32.54	-0.2
MOF	1.27	173	Pg	46 36.91	0.8
			Sg	46 54.93	
BSF	1.28	183	Pg	46 36.87	0.5
FEL	1.45	148	ePg	46 39.18	0.4
TNS	1.51	42	ePnc	46 41.10	1.6
			eSn	46 59.20	
MEM	1.60	340	P	46 42.00	1.2
			S	47 02.70	
LOMF	1.76	181	Pn	46 42.75	-0.6
ENN	1.77	340	ePnc	46 45.50	2.3X
			eSn	47 07.00	
DOU	1.79	304	iPc	46 42.60	-0.9
			i	46 45.00	
			iS	47 04.30	
SNF	2.19	311	P	46 49.60	0.2
S.D. = 0.8			on	15 of 16 obs.	

? FEB 01, 1991 17h 14m 53.62± 0.69s
57.067 S ±26.7km 141.111 W ±11.8km
DEPTH = 10.0km (geophysicist)
5.0mb (4 obs.)
SOUTH PACIFIC CORDILLERA (691)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 27C
Centroid Locotion:
Origin Time 17:15: 6.4 0.3
Lat 56.78S 0.04 Lon 141.45W 0.04
Dep 15.0 FIX Half-duration 2.5
Moment Tensor; Scale 10**17 Nm
Mrr=-0.06 0.12 Mtt= 3.06 0.16
Mff=-2.99 0.09 Mrt= 0.00 0.00
Mrf= 0.00 0.00 Mtf= 2.65 0.13
Principal Axes:

T	Val= 4.05	Plg= 0	Azm=159
N	-0.06	90	180
P	-3.99	0	69

Best Double Couple:Mo=4.0*10**17
NP1:Strike=204 Dip=90 Slip=-180
NP2: 294 90 0

SPA	33.11	180	iPc	21 31.80	0.3
	1.0s	30.00nm		5.2mb	
CNB	50.34	264	iPd	23 55.00	2.6X
BRS	54.55	274	iP	24 23.00	-0.9
CMS	55.16	265	eP	24 30.00	1.7
CNCB	66.89	85	P	25 50.00	1.4
LPB	67.05	85	eP	25 56.00	6.5X
ZOBO	67.25	85	P	25 52.00	1.1
	1.1s	11.60nm		5.0mb	
		LR	34 52.00		
ASPA	67.78	261	iPc	25 53.60	0.0
	1.0s	10.70nm		5.0mb	
Z	23s	0.80um		4.9MszX	
WB2	70.55	263	eP	26 10.50	-0.1
WRA	70.56	263	P	26 10.00	-0.7
	0.9s	5.30nm		4.7mb	
SIV	71.32	91	P	26 14.00	-1.4
PDCR	86.00	107	(P)	27 34.00	-1.3
BCAO	125.09	155	ePKPd	34 02.50	6.8X
	0.4s	4.00nm			
OUE	146.77	228	ePKP	34 43.70	8.4X
S.D. = 1.2			on	10 of 14 obs.	

& FEB 01, 1991 17h 29m 08.16s
59.526 N 153.225 W
DEPTH = 102.1km
SOUTHERN ALASKA (2)

<AEIC>.

AUE	0.18	204	iP	29 22.00	0.8
AUH	0.20	215	iP	29 22.29	1.0
AUI	0.22	208	iP	29 22.18	0.9
PDB	0.56	299	iP	29 23.95	-0.9
			eS	29 36.33	
CDD	0.64	200	iP	29 24.60	-0.9
MCNL	0.66	239	iP	29 24.89	-0.8
			eS	29 37.72	
XLV	0.77	95	eP	29 26.02	-0.6
			eS	29 39.71	
HOM	0.82	80	eP	29 26.75	-0.3
			eS	29 40.93	
RS2	0.97	14	iP	29 28.02	-0.9
			iS	29 43.61	
RSO	0.97	14	iP	29 28.02	-0.9
			iS	29 43.61	
REF	1.00	15	eP	29 28.26	-1.0
CNPM	1.01	89	iP	29 28.25	-0.9
			eS	29 43.97	
SYI	1.01	155	iP	29 28.14	-1.0
RDN	1.02	13	iP	29 28.54	-0.8
			eS	29 44.42	
NCT	1.05	8	iP	29 28.81	-0.9
			eS	29 44.65	
NNL	1.10	61	eP	29 30.26	0.1
RDT	1.13	21	eP	29 29.17	-1.4
BRLK	1.21	78	iP	29 30.20	-1.3
			eS	29 48.07	
NKA	1.57	38	iP	29 36.43	0.6
CKL	1.73	14	iP	29 37.11	-0.9
			eS	29 58.93	
SPU	1.76	19	iP	29 37.19	-1.1
			eS	29 59.20	
BGL	1.79	13	eP	29 38.01	-0.7
SLKM	1.80	56	eP	29 37.81	-1.0
			eS	29 59.42	
NCG	1.96	15	eP	29 40.06	-0.8
SEW	1.99	71	eP	29 39.91	-1.3
			eS	30 03.18	
SUA	2.30	31	iP	29 44.85	-0.5
PMS	2.51	45	eP	29 46.76	-1.3
SKT	2.60	18	eP	29 47.90	-1.4
PWA	2.70	36	eP	29 49.48	-1.1
KNIM	2.88	71	eP	29 50.50	-2.6
PLRM	2.90	43	eP	29 51.05	-2.2
KNK	3.03	49	eP	29 52.76	-2.3
GHO	3.09	41	eP	29 54.24	-1.8
CUT	3.23	25	eP	29 55.90	-1.9
GLI	3.35	63	eP	29 56.26	-3.2
VZW	3.66	62	eP	29 59.75	-4.0
VLZ	3.79	62	eP	30 03.32	-2.1
KLU	4.11	58	eP	30 07.46	-2.6
TOA	4.31	50	iP	30 10.82	-1.9
39 obs. associated					

& FEB 01, 1991 17h 54m 14.08s
59.058 N 153.561 W
DEPTH = 12.8km
SOUTHERN ALASKA (2)
<AEIC>.

CDD	0.14	198	iP	54 17.29	-0.4
AUI	0.29	14	iP	54 20.05	-0.2
			eS	54 24.67	
AUH	0.31	11	iP	54 20.82	0.0
			eS	54 25.56	
AUP	0.31	13	eP	54 21.02	0.2
AUE	0.32	18	iP	54 20.97	0.2
MCNL	0.42	288	iP	54 22.52	-0.3
SYI	0.76	126	eP	54 27.40	-1.2
			eS	54 37.33	
PDB	0.80	336	iP	54 28.53	-0.8
			eS	54 39.17	
BGM	0.92	292	iP	54 30.96	-0.5
XLV	1.03	66	iP	54 32.06	-1.1
			eS	54 45.92	
HOM	1.15	58	eP	54 34.70	-0.6
CNPM	1.28	68	iP	54 36.09	-1.5
RED	1.42	16	eP	54 39.13	-0.5
			eS	54 57.47	
RS2	1.47	16	eP	54 40.06	-0.4
			eS	54 59.39	
RSO	1.47	16	eP	54 39.98	-0.4
			eS	54 59.98	
REF	1.50	16	eP	54 40.43	-0.4
			eS	54 59.59	
RDN	1.52	15	eP	54 40.71	-0.3
			eS	54 59.92	
NNL	1.52	48	eP	54 41.03	0.1
BRLK	1.54	61	eP	54 40.34	-1.0
			eS	55 01.85	
NCT	1.54	12	eP	54 40.13	-1.3
			eS	55 01.01	
RDT	1.63	20	eP	54 41.65	-1.0
NKA	2.06	34	eP	54 50.52	1.8
SLKM	2.23	48	eP	54 50.93	-0.4
CKL	2.23	15	eP	54 51.73	0.3
SPU	2.26	19	eP	54 51.85	0.1
BGL	2.29	14	eP	54 52.65	0.4
SVW	2.30	334	eP	54 52.10	-0.2
SEW	2.34	62	eP	54 53.65	0.9
NCG	2.46	16	eP	54 55.09	0.5
SUA	2.79	29	eP	55 00.14	0.8
PMS	2.97	41	eP	55 02.24	0.5
SKT	3.10	18	eP	55 04.39	0.8
PWA	3.18	34	eP	55 07.01	2.3
KNIM	3.22	64	eP	55 04.69	-0.7
GHO	3.56	38	eP	55 10.41	0.1
35 obs. associated					

* FEB 01, 1991 18h 34m 30.31± 1.74s
32.228 S ± 7.7km 71.714 W ±15.8km
DEPTH = 10.0km (geophysicist)
NEAR COAST OF CENTRAL CHILE (135)

ROCH	0.95	142	eP	35 00.70	12.1X
			iS	35 26.00	
			i	35 28.00	
JACH	1.05	116	iPd	34 49.40	-0.8
			iS	35 04.60	
SAN	1.51	144	eP	35 02.00	4.6X
			iS	35 19.50	
TACH	1.56	156	eP	34 58.00	-0.2
			iS	35 25.50	
PCH	1.72	144	eP	35 00.70	0.2
			iS	35 26.00	
			i	35 28.00	
LNV	1.74	172	iPc	35 00.50	-0.2
			i	35 25.50	
			iS	35 28.40	
RTCB	2.59	74	ePd	35 13.30	0.3
			eS	35 48.00	
RTCV	2.72	83	ePd	35 15.50	0.6
RTRS	2.82	44	e(P)	35 16.00	-0.2
RTLL	2.90	73	ePd	35 17.10	-0.4
			eS	35 52.40	
CFA	3.02	79	ePc	35 19.00	-0.1
			S	36 00.20	
RFA	3.71	134	ePd	35 29.80	0.8
S.D. = 0.5			on	10 of 12 obs.	

? FEB 01, 1991 19h 07m 06.25± 2.02s
2.965 N ±40.4km 126.468 E ±56.8km
DEPTH = 33.0km (normal)
4.9mb (5 obs.)
MOLUCCA PASSAGE (266)

WB2	24.05	162	iP	12 18.30	-1.2
ASPA	27.44	165	eP	12 52.60	1.3
	0.5s	5.20nm		4.4mb	
GUN	45.97	307	P	15 28.96	0.3
	0.5s	21.00nm		5.3mb	
PKI	46.20	306	P	15 30.28	-0.3
	0.5s	4.00nm		4.6mb	
KKN	46.40	306	P	15 31.88	-0.1
	0.5s	10.00nm		5.0mb	
DMN	46.46	306	P	15 32.76	0.3
GKN	47.00	306	P	15 36.56	-0.1
	0.6s	11.00nm		5.0mb	
HYB	49.13	290	eP	15 53.50	0.3
GBA	49.56	285	P	15 56.00	-0.5
S.D. = 0.8			on	9 of 9 obs.	

% FEB 01, 1991 19h 20m 14.61± 0.89s
15.001 N ± 8.4km 61.217 W ±17.9km
DEPTH = 30.3 ± 9.3 km
LEEWARD ISLANDS (92.
ML 2.6 (FDF).

FDF	0.27	166	iPd	20 21.40	-0.4
	0.1s	7.50nm			
			S	20 26.30	

CRM	0.38	130	iPd	20	23.23	0.0
			S	20	29.30	
BIM	0.50	164	iPd	20	25.39	0.3
			S	20	33.40	
MVM	0.54	145	iPd	20	25.86	0.1
BBL	0.58	334	ePd	20	25.28	-1.0
			S	20	32.30	
MGG	0.92	354	ePd	20	31.49	0.2
			S	20	42.50	
DOG	1.10	339	eP	20	34.48	0.5
PAG	1.12	336	eP	20	34.30	0.0
			S	20	50.70	
SFG	1.25	1	eP	20	36.00	0.0
DEG	1.31	7	eP	20	36.25	-0.8
SEG	1.42	349	eP	20	39.65	1.1
			S	20	57.80	

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

? FEB 01, 1991 19h 30m 22.08± 1.11s
16.056 N ±21.4km 87.770 W ±13.1km
DEPTH = 33.0km (normal)
4.8mb (4 obs.)
CARIBBEAN SEA (94)

TPX	4.48	256	iP	31	37.00	7.5X
			iS	32	37.00	
SCX	4.72	279	eP	31	32.50	-0.3
			iS	32	24.50	
MEO	21.02	334	eP	35	06.00	0.6
LRM	36.16	330	eP	37	25.60	2.1X
PNT	42.07	329	eP	38	14.00	1.6
YKA	50.07	344	eP	39	14.50	-1.1
	0.8s		3.20nm		4.4mb	
INK	59.70	342	eP	40	25.00	-0.4
MBC	62.43	352	eP	40	42.50	-1.3
	1.0s		8.00nm		4.8mb	
NB2	80.38	29	P	42	31.70	0.2
	1.2s		12.90nm		4.8mb	
HFS	81.82	30	eP	42	38.50	-0.5
	1.1s		10.80nm		4.8mb	
SOD	84.28	21	eP	42	52.00	0.5
WRA	139.84	258	PKP	49	49.00	-0.4
	1.4s		1.80nm			
GBA	147.10	27	PKP	50	03.00	1.1

S.D. = 1.0 on 11 of 13 obs.

& FEB 01, 1991 19h 46m 55.88s
59.795 N 152.933 W
DEPTH = 101.2km
SOUTHERN ALASKA (2)
<AEIC>.

AUE	0.49	207	eP	47	11.13	-0.8
			eS	47	22.65	
AUH	0.50	211	eP	47	11.58	-0.6
			eS	47	23.58	
AUI	0.53	209	eP	47	11.49	-0.7
			eS	47	23.17	
RED	0.63	7	iP	47	12.32	-0.8
			eS	47	24.90	
PDB	0.64	270	iP	47	12.33	-0.8
			iS	47	25.07	
HOM	0.67	101	iP	47	12.83	-0.5
			eS	47	26.09	
RSO	0.68	8	iP	47	12.97	-0.7
			eS	47	25.62	
RS2	0.68	7	iP	47	13.00	-0.7
			eS	47	25.72	
XLV	0.70	118	eP	47	12.83	-0.9
			eS	47	26.45	
REF	0.71	9	iP	47	13.22	-0.7
			eS	47	26.83	
RDN	0.73	7	iP	47	13.38	-0.7
			eS	47	26.78	
NCT	0.77	0	iP	47	13.65	-0.8
			iS	47	27.21	
RDT	0.82	18	iP	47	13.96	-1.0
NNL	0.86	73	iP	47	15.43	0.2
CNPM	0.90	107	iP	47	14.74	-0.9
			eS	47	29.92	
CDD	0.94	203	eP	47	14.92	-1.2
MCNL	0.94	230	eP	47	15.05	-1.0
			eS	47	29.77	
BRLK	1.04	91	iP	47	16.09	-1.0
			eS	47	32.01	
SYI	1.22	167	eP	47	18.12	-1.0
			eS	47	35.78	
BGM	1.24	252	eP	47	19.23	-0.2
NKA	1.27	41	iP	47	20.67	0.9
CKL	1.44	12	iP	47	21.11	-0.8
			iS	47	41.06	
SPU	1.46	17	eP	47	20.90	-1.2
BGL	1.50	10	iP	47	22.02	-0.6
SLKM	1.53	61	eP	47	21.64	-1.4
CGLM	1.59	16	eP	47	23.04	-0.7
NCG	1.66	13	eP	47	23.85	-0.9
			eS	47	46.06	
SEW	1.78	78	eP	47	24.75	-1.3
			eS	47	46.76	
SVW	1.87	316	iP	47	26.01	-1.4
SUA	1.99	32	iP	47	28.29	-0.7
			eS	47	52.56	
PMS	2.21	47	eP	47	30.54	-1.3
			eS	47	56.30	
SKT	2.30	17	iP	47	31.59	-1.4
			S	48	00.52	
PWA	2.39	38	eP	47	33.11	-1.1
			eS	48	01.62	
PLRM	2.60	44	eP	47	34.96	-2.0
			S	48	05.39	
KNIM	2.66	76	eP	47	35.27	-2.6
			eS	48	05.69	
MTU	2.67	84	eP	47	36.19	-1.7
KNK	2.74	52	eP	47	36.78	-2.1
			S	48	07.76	
GHO	2.79	43	eP	47	37.43	-2.3
			iS	48	09.28	
CUT	2.92	25	eP	47	39.71	-1.6
GLI	3.10	67	eP	47	40.66	-3.1
			S	48	15.32	
VZW	3.41	65	eP	47	45.59	-2.4
TTA	3.48	336	eP	47	46.96	-2.0
VLZ	3.53	65	eP	47	47.62	-2.0
HUR	3.57	25	eP	47	48.94	-1.2
KLU	3.85	61	eP	47	51.28	-2.8
TRF	3.88	18	eP	47	53.34	-1.3
RND	4.11	27	eP	47	55.71	-2.0
SDG	4.51	49	eP	48	01.79	-1.3
BWN	4.69	19	eP	48	03.63	-1.9
GLB	4.79	66	eP	48	03.77	-3.2
TGL	5.12	75	eP	48	09.57	-2.1
NEA	5.13	19	eP	48	08.86	-2.8
WRH	5.21	24	iP	48	10.03	-2.8
BALM	5.39	72	eP	48	12.80	-2.6
HDA	5.41	29	eP	48	12.74	-2.8
CCB	5.43	24	eP	48	12.66	-3.1
RDS	5.52	22	eP	48	14.00	-3.1
MDM	5.62	21	eP	48	15.57	-3.0
FBA	5.65	23	eP	48	15.94	-3.0
CTGM	5.87	73	eP	48	20.37	-1.7

60 obs. associated

& FEB 01, 1991 20h 18m 44.04s
59.766 N 151.657 W
DEPTH = 57.9km
KENAI PENINSULA, ALASKA (14)
<AEIC>.

HOM	0.11	176	iP	18	52.73	1.4
			iS	18	59.93	
XLV	0.31	186	eP	18	53.07	-1.1
			eS	19	00.84	
CNPM	0.32	138	iP	18	53.66	-0.6
			eS	19	01.48	
NNL	0.33	33	iP	18	55.02	0.7
BRLK	0.39	90	iP	18	54.43	-0.4
			eS	19	02.74	
RED	0.86	320	iP	18	59.63	-0.8
RSO	0.89	322	iP	19	00.28	-0.6
			eS	19	13.07	
RS2	0.89	322	iP	19	00.29	-0.6
			eS	19	13.00	
RDT	0.89	336	iP	19	00.06	-0.7
REF	0.89	325	iP	19	00.28	-0.7
			eS	19	12.84	
RDN	0.93	324	iP	19	00.62	-0.8
			eS	19	13.64	
AUE	0.96	246	iP	19	00.94	-0.7
			eS	19	14.01	
AUH	0.99	247	eP	19	01.51	-0.6
			eS	19	15.55	
AUI	1.00	245	eP	19	01.30	-0.8
			S	19	14.69	
NKA	1.00	12	eP	19	03.66	1.5
NCT	1.02	322	iP	19	01.90	-0.6
			iS	19	15.87	
SLKM	1.03	43	eP	19	02.18	-0.5
			eS	19	16.82	
SEW	1.16	72	eP	19	04.63	0.3
SYI	1.22	198	eP	19	04.33	-0.8
CDD	1.32	231	iP	19	05.38	-1.2
			eS	19	23.12	
SPU	1.43	352	iP	19	07.73	-0.4
			eS	19	26.00	
CKL	1.47	347	eP	19	08.33	-0.4
			eS	19	27.07	
MCNL	1.49	248	eP	19	07.19	-1.7
BGL	1.55	347	eP	19	09.66	-0.1
CGLM	1.56	354	eP	19	10.20	0.3
NCG	1.66	352	eP	19	11.31	-0.1
SUA	1.76	14	eP	19	13.15	0.4
PMS	1.81	34	eP	19	13.14	-0.2
LTI	1.94	80	eP	19	13.44	-1.6
MTU	2.03	82	eP	19	15.86	-0.6
KNIM	2.05	72	iP	19	14.69	-2.0
PWA	2.08	24	eP	19	17.73	0.6
PLRM	2.21	33	eP	19	18.21	-0.8
SKT	2.22	2	eP	19	19.72	0.6
KNK	2.29	42	eP	19	19.11	-0.9
GHO	2.42	32	eP	19	21.36	-0.6
GLI	2.53	62	iP	19	20.98	-2.5
CUT	2.73	14	eP	19	27.60	1.3
VZW	2.84	61	eP	19	25.74	-2.3
SCM	2.97	44	eP	19	28.92	-0.9
VLZ	2.97	60	eP	19	27.53	-2.2
KLU	3.32	56	iP	19	32.91	-1.8

42 obs. associated

& FEB 01, 1991 20h 19m 15.35s
46.813 N 120.558 W
DEPTH = 6.6km
WASHINGTON (29)
<SEA>. CL 3.4 (SEA).

EBG	0.10	356	Pd	19	18.08	0.4
NAC	0.20	247	Pd	19	20.77	1.2
YAKW	0.29	176	Pd	19	22.07	0.7
MXC	0.30	142	P	19	21.93	0.5
TBM	0.36	356	Pd	19	23.22	0.6
			S	19	28.78	
TWW	0.39	327	P	19	23.90	0.7
			S	19	30.29	
VTG	0.42	69	Pc	19	24.05	0.3
BVW	0.46	90	Pc	19	25.03	0.3
BRVW	0.51	130	Pc	19	25.97	0.4
MDW	0.58	110	Pc	19	27.13	0.1
WAH2	0.69	94	Pc	19	28.91	-0.2
WPW	0.69	261	P	19	28.83	-0.4
GLK	0.76	251	Pd	19	30.59	-0.1
FMW	0.77	279	P	19	30.27	-0.6
LOCW	0.78	97	P	19	30.76	-0.1
RC1	0.78	80	P	19	30.52	-0.4
GBL	0.79	106	Pc	19	30.84	-0.1
RSW	0.79	122	Pc	19	30.85	-0.2
CRF	0.80	89	Pc	19	30.97	-0.3
ETW	0.81	11	Pd	19	30.46	-1.0
EPH	0.85	50	P	19	31.50	-0.6
PRW	0.85	135	P	19	31.61	-0.5
MJ2	0.86	107	P	19	32.14	-0.1
LON	0.86	266	P	19	31.71	-0.6
GL2	0.87	192	P	19	32.28	-0.2
REMR	0.88	271	P	19	32.61	-0.1
OT2	0.91	95	P	19	32.92	-0.2
GSM	0.93	295	P	19	32.92	-0.6
WIW	0.95	113	P	19	33.58	-0.2
ASR	0.97	228	P	19	35.04	0.8
WTV	0.98	25	Pd	19	34.27	0.0
RVC	0.98	278	P	19	33.36	-0.9
WRD	0.98	80	ePc	19	33.96	-0.4
CBSW	1.05	19	P	19	35.36	-0.2
RMW	1.07	308	P	19	35.49	-0.4
PATW	1.08	149	P	19	36.17	0.1
ET3	1.14	101	P	19	36.64	-0.4
GULW	1.14	219	P	19	37.38	0.2
KOSW	1.18	253	P	19	37.53	-0.2
SAW	1.19	41	Pc	19	37.32	-0.5
LMW	1.20	264	P	19	39.21	1.1
CDFW	1.24	236	Pd	19	39.10	0.3
ESD	1.26	241	P	19	40.71	1.5
NLW	1.27	7	P	19	38.92	-0.5
JLK	1.29	239	P	19	39.81	0.2

01d 20h

DHW2	1.29	24	P	19	39.17	-0.4
HTW	1.29	321	P	19	39.07	-0.5
VGB	1.31	187	P	19	39.81	-0.1
ERK	1.33	248	P	19	40.78	0.5
FL2	1.38	244	P	19	41.49	0.3
OD2	1.39	65	P	19	40.17	-1.0
WG3	1.41	123	P	19	40.61	-1.0
JBO	1.44	159	P	19	41.32	-0.7
APW	1.45	264	P	19	42.46	0.4
VTHM	1.63	180	P	19	44.31	-0.4
RPW	1.76	339	P	19	47.28	0.7
CROR	1.85	189	P	19	47.78	-0.2
BMW	1.87	261	P	19	49.17	1.0
VBEM	1.89	203	P	19	49.00	0.4
HDW	1.90	297	P	19	49.16	0.6
DPW	1.92	56	P	19	47.62	-1.2

61 obs. associated

FEB 01, 1991 20h 40m 31.54± 0.76s
41.135 N ±12.5km 24.556 E ± 4.8km
DEPTH = 10.0km (geophysicist)
GREECE-BULGARIA BORDER REGION (363)
MD 2.8 (ATH).

SRS	0.73	269	iPd	40	44.70	-1.2
			eS	40	55.38	
RDO	0.74	89	eP	40	45.50	-0.6
			eS	40	55.50	
PLG	1.14	228	eP	40	53.00	0.2
			eS	41	10.00	
ALN	1.15	101	ePc	40	53.66	0.6
			eS	41	10.22	
KNT	1.25	272	iPc	40	54.86	0.0
			eS	41	12.14	
THE	1.31	248	ePd	40	56.34	0.6
			eS	41	13.34	
PAIG	1.38	209	ePc	40	56.26	-0.5
			eS	41	17.22	
VAY	1.51	278	ePn	40	59.40	0.8

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

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* FEB 01, 1991 20h 46m 20.86± 1.27s
32.266 S ± 7.5km 71.787 W ±13.4km
DEPTH = 43.5 ± 20.6 km
NEAR COAST OF CENTRAL CHILE (135)

IHA	0.77	171	iPd	46	35.00	-0.4
			iS	46	48.10	
ROCH	0.96	137	iPd	46	37.50	-0.8
			iS	46	51.80	
JACH	1.09	113	iPd	46	39.00	-1.0
			iS	46	54.30	
LCCH	1.22	171	iPd	46	42.00	0.3
			iS	47	00.00	
PEL	1.28	134	iPc	46	42.50	-0.1
SAN	1.52	142	iP	46	46.50	0.5
			iS	47	06.60	
TACH	1.56	153	iP	46	47.20	0.7
			iS	47	09.50	
LNV	1.71	169	iPd	46	48.00	-0.7
			i	46	50.00	
			iS	47	14.00	
PCH	1.72	142	iPd	46	49.60	0.6
			iS	47	14.40	
RTCB	2.66	74	ePd	47	02.80	0.5
RTCV	2.79	83	eP	47	05.00	0.9
RTRS	2.89	44	ePc	47	05.10	-0.3
RTLL	2.97	73	ePc	47	06.80	0.0
ANT	8.61	8	eP	48	33.50	7.7X
CNCB	15.77	14	P	50	04.00	1.9
LPB	16.02	13	eP	50	05.00	-0.1
ZOBO	16.27	13	P	50	04.00	-4.5X
SIV	18.90	34	P	50	38.00	-2.6
PPD	20.84	66	e(P)	51	02.00	0.7
WRA	122.37	209	PKP	05	20.00	6.7X
	0.8s		0.70nm			

S.D. = 1.1 on 17 of 20 obs.

% FEB 01, 1991 20h 53m 23.97± 0.70s
40.468 N ± 6.7km 29.115 E ± 7.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

YLV	0.22	63	iPg	53	28.20	-0.6
HRT	0.55	50	iPg	53	35.70	0.6
			iSg	53	44.70	
ISK	0.60	356	iPg	53	35.70	-0.4
			iSg	53	44.20	
BNT	0.92	263	ePn	53	42.00	0.5
DST	0.94	204	iPn	53	41.30	-0.6
ALT	1.61	151	ePn	53	53.00	0.5

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

& FEB 01, 1991 21h 04m 18.45s
60.705 N 151.139 W
DEPTH = 47.5km
KENAI PENINSULA, ALASKA (14)
<AEIC>.

NKA	0.06	308	iP	04	27.73	3.5
SLKM	0.49	113	iP	04	29.10	-0.5
			eS	04	38.45	
RDT	0.64	259	iP	04	30.74	-0.7
SPU	0.65	317	iP	04	31.06	-0.6
			eS	04	41.61	
NNL	0.67	187	eP	04	32.34	0.5
CGLM	0.74	325	iP	04	32.35	-0.5
CRP	0.75	319	eP	04	32.67	-0.4
			eS	04	43.65	
CKL	0.77	311	iP	04	32.45	-0.8
SUA	0.79	14	iP	04	32.71	-0.8
			eS	04	45.48	
REF	0.80	255	iP	04	33.03	-0.7
			eS	04	44.79	
RDN	0.82	257	eP	04	32.98	-1.0
			eS	04	44.94	
BGL	0.83	313	iP	04	33.45	-0.6
			eS	04	45.88	
RSO	0.83	254	iP	04	33.51	-0.7
			iS	04	45.46	
RS2	0.83	254	iP	04	33.52	-0.7
			eS	04	45.60	
RED	0.86	251	eP	04	33.51	-0.9
			eS	04	45.77	
NCG	0.86	325	iP	04	33.87	-0.6
			eS	04	46.43	
NCT	0.89	262	eP	04	34.04	-0.9
			eS	04	46.81	
PMS	0.94	54	eP	04	34.77	-0.8
			eS	04	47.45	
BRLK	0.95	172	iP	04	34.80	-0.9
			iS	04	48.78	
SEW	1.03	125	eP	04	35.92	-0.8
HOM	1.08	194	iP	04	37.23	-0.2
			eS	04	53.50	
PWA	1.13	32	iP	04	38.00	-0.1
			iS	04	53.08	
CNPM	1.18	182	eP	04	37.89	-1.0
			eS	04	54.03	
SKT	1.29	352	iP	04	39.82	-0.6
PLRM	1.32	47	eP	04	39.60	-1.2
			eS	04	56.48	
KNK	1.49	60	eP	04	41.83	-1.3
			eS	05	00.86	
GHO	1.51	44	eP	04	42.36	-1.3
CUT	1.76	13	eP	04	46.52	-0.4
MTU	1.88	111	eP	04	46.39	-2.3
GLI	1.99	83	eP	04	47.17	-3.1
CDD	2.18	216	eP	04	52.43	-0.6
KLU	2.65	70	eP	04	57.21	-2.6

32 obs. associated

? FEB 01, 1991 21h 18m 32.90± 0.75s
38.849 N ±14.5km 74.405 E ±17.6km
DEPTH = 33.0km (normal)
4.7mb (8 obs.)
TAJIK-XINJIANG BORDER REGION (719)

NDI	10.41	166	eP	21	04.00	1.1
	0.5s		11.27nm			5.4mb
			eS	22	50.00	
GKN	13.77	139	P	21	47.98	-0.3
	0.3s		19.00nm			5.4mb
KKN	14.28	137	P	21	54.18	-0.8
	0.5s		13.00nm			4.8mb
DMN	14.33	138	P	21	55.28	-0.4
	0.3s		10.00nm			4.8mb
GUN	14.51	135	P	21	58.76	0.7
	0.4s		10.00nm			4.6mb
PKI	14.52	137	P	21	59.04	0.8
	0.3s		6.00nm			4.7mb
HYB	21.66	169	eP	23	21.20	-1.4
			eS	26	50.00	
GBA	25.29	173	P	23	58.00	0.1
			S	28	44.00	
HFS	42.94	320	eP	26	30.20	0.3
	0.5s		5.60nm			4.5mb
NB2	44.18	321	P	26	40.00	0.0
	0.6s		1.30nm			3.9mb

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

? FEB 01, 1991 21h 52m 29.62± 2.01s
31.257 S ±35.5km 68.709 W ±34.8km
DEPTH = 90.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.22	110	iPc	52	43.00	-0.2
RTCB	0.24	199	ePd	52	43.50	0.2
			S	52	54.30	
CFA	0.53	131	ePc	52	45.10	0.2
RTCV	0.62	166	e(P)	52	45.50	-0.2

S.D. = 0.4 on 4 of 4 obs.

% FEB 01, 1991 22h 12m 19.37± 0.66s
43.207 N ± 5.0km 11.052 E ± 5.5km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

PII	0.64	323	P	12	32.20	0.0
			eSg	12	40.50	
CRE	0.78	57	P	12	34.70	0.1
			eSg	12	44.90	
MAO	0.79	175	Pc	12	34.80	0.0
			eSg	12	46.00	
PGD	0.83	36	P	12	35.50	0.0
			eSg	12	46.50	
BDI	0.92	339	P	12	36.60	-0.3
SFI	0.92	39	P	12	36.80	-0.1
			eSg	12	49.20	
MME	1.02	346	P	12	39.20	0.4
			eSg	12	52.40	
ASS	1.19	96	P	12	41.50	0.0
ARV	1.41	77	P	12	45.10	0.0

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

FEB 02, 1991 00h 15m 40.41± 0.29s
25.541 N ± 5.4km 91.293 E ± 4.4km
DEPTH = 33.0km (normal)
4.9mb (18 obs.) 3.9Msz (1 obs.)
INDIA-BANGLADESH BORDER REGION (315)
ML 4.5 (BJI). Felt at Gauhati, India.

LSA	4.14	35B	Pn	16	44.20	0.8
			Pg	16	50.40	
			Sg	17	51.20	
CHG	9.75	132	eP	18	00.50	-0.9
KMI	10.36	90	eP	18	19.50	9.4X
BDT	10.94	137	eP	18	15.80	-1.9
CD2	12.22	61	eP	18	35.00	-0.1
NST	12.83	138	eP	18	47.00	3.7X
NDI	12.92	287	eP	18	41.00	-3.4X
	0.5s		11.27nm			5.2mb
			eS	20	52.50	
GYA	13.85	B3	P	19	02.00	5.2X
HYB	14.34	238	ePd	18	59.40	-3.8X
	0.8s		19.20nm			4.7mb
			i	19	07.50	
			i	19	18.00	
			eS	21	30.50	
			e	21	40.00	
HYB	14.34	238	iP	19	07.50	4.3X
LZH	15.04	43	eP	19	10.50	-1.9
	1.5s		28.00nm			4.3mb
			pP	19	17.00	
GTA	15.57	25	iPd	19	23.80	4.6X
	1.0s		20.00nm			4.3mb
			pP	19	32.00	
XAN	17.47	57	P	19	41.50	-1.7
			pP	19	49.50	
POO	17.60	250	eP	19	39.00	-5.9X
GBA	17.63	230	Pc	19	44.20	-1.0
	0.6s		3.70nm			3.7mb X
OIZ	18.34	107	eP	19	54.60	0.6
WMQ	18.47	352	P	19	55.50	0.0
			pP	20	04.50	
			sS	23	33.00	
KOD	20.09	223	eP	20	16.00	1.5
WHN	20.94	71	Pd	20	23.40	0.6
			pP	20	30.00	24kmX

```
BTO     21.65   41 eP     20 30.00   -0.1
TIY     21.65   51 iPd    20 29.60   -0.5
        0.8s   100.00nm          5.3mb
     Z  20s      0.50um          3.9Msz
     N  16s      0.60um
QUE     22.00  288 eP     20 34.20    0.5
HHC     22.74   43 eP     20 41.40    0.5
TIA     24.52   58 eP     20 59.20    1.1
NJ2     24.97   69 Pc     21 04.50    2.1
BJI     25.32   49 eP     21 07.00    1.4
        1.3s   14.00nm          4.4mb
SSE     26.84   71 eP     21 26.50    6.7X
CN2     33.17   48 eP     22 16.90    1.0
PRNI    49.54  289 eP     24 31.00    0.8
VRI     54.70  309 ePd    25 08.50   -0.2
MLR     55.26  309 eP     25 17.50    4.6X
NUR     56.64  327 eP     25 08.00  -14.4X
SOD     56.98  335 iP     25 24.20   -0.5
KEV     57.42  338 iP     25 34.00    6.2X
WRA     61.60  133 P      25 57.00   -0.2
        0.3s     6.40nm          5.2mb
WB2     61.60  133 iPc    25 56.90   -0.4
HFS     62.07  326 eP     25 58.80   -1.1
        0.4s     1  70nm          5.5mb
BRG     62.80  316 P      26 04.20   -0.7
NB2     63.23  328 P      26 06.40   -1.3
        0.6s     3.50nm          4.7mb
ASPA    63.99  136 iPc    26 13.80    0.7
        0.5s    11.90nm          5.2mb
                  i        26 20.90
CDF     67.51  314 eP     26 34.40   -1.1
HAU     68.21  314 eP     26 38.50   -1.3
LPG     68.58  311 eP     26 41.50   -0.9
        0.6s     5.85nm          4.8mb
LPL     68.59  311 eP     26 41.60   -0.8
        0.6s     6.30nm          4.9mb
SSF     70.32  313 eP     26 51.90   -0.8
        0.9s    13.10nm          5.0mb
AVF     70.50  313 eP     26 53.00   -0.8
TCF     71.40  313 eP     26 59.00   -0.3
        0.9s     7.35nm          4.7mb
EKA     71.83  323 P      27 03.00    1.4
        0.9s     7.70nm          4.7mb
BCAO    72.55  267 iPc    27 07.00    0.4
        0.2s    20.00nm          5.8mb
                  ic       27 14.10
MBC     76.68    7 eP     27 30.00    0.7
SLR     79.36  235 iPc    27 45.00    0.0
INK     80.81   15 eP     27 52.00    0.2
YKA     89.86   12 eP     28 36.40   -0.6
        0.8s     1.90nm          4.4mb
KIC     92.71  278 P      28 52.00    1.1
        0.6s     4.00nm          5.0mb
TIC     92.83  279 P      28 52.40    0.9
LIC     93.02  278 P      28 53.70    1.3
PPD    145.68  268 ePKP    35 18.90    1.2
                  e        35 27.00
     S.D. = 1.0   on  45 of  57 obs.
-------------------------------------
*  FEB  02, 1991  01h 18m 28.98± 1.55s
   41.065 N ± 7.6km   22.402 E ±13.3km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                        (383)

GRG     0.11  180 iPc    18 32.06    0.2
                  eS       18 33.86
VAY     0.29   26 iPg    18 34.80   -0.2
KNT     0.39   75 ePd    18 37.18    0.3
                  eS       18 41.70
THE     0.61  135 ePc    18 40.82   -0.4
                  eS       18 48.70
SRS     0.90   86 ePc    18 46.34    0.1
                  iS       18 57.86
     S.D. = 0.4   on   5 of   5 obs.
-------------------------------------
?  FEB  02, 1991  01h 33m 18.96± 1.09s
   38.506 N ± 7.9km   21.731 E ±14.9km
   DEPTH =  10.0km  (geophysicist)
 GREECE                            (364)
     MD 2.9 (ATH).

EVR     0.41    8 ePb    33 26.50   -1.0
                  eSb      33 34.50
VLS     0.96  250 ePb    33 37.00   -0.2
ITM     1.33  173 ePb    33 43.50    0.0
KZN     1.80    1 ePn    33 51.50    1.2
     S.D. = 1.5   on   4 of   4 obs.
-------------------------------------
*  FEB  02, 1991  01h 48m 53.76± 1.92s
   44.703 N ± 8.5km   11.308 E ±39.1km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                    (545)
     ML 2.9 (VIE).

SFI     0.87  153 P      49 10.60    0.1
                  eSg      49 24.00
CRE     1.17  156 P      49 15.60   -0.1
CTI     1.37   10 P      49 18.10   -0.8
                  eSg      49 37.10
FVI     2.15   28 P      49 30.50    0.3
SOTA    2.52  358 iPgc    49 36.00    0.5
                  i        49 38.50
                  iSg      50 12.60
     S.D. = 0.7   on   5 of   5 obs.
-------------------------------------
&  FEB  02, 1991  02h 59m 16.80s
   36.045 N          121.507 W
   DEPTH =   5.0km
 CENTRAL CALIFORNIA                ( 39)
     <BRK>. ML 2.6 (BRK).

PRS     0.31   21 iPd    59 22.78   -0.2
                  iS       59 27.55
PRI     0.69   82 eP     59 30.60    0.0
                  eS       59 40.90
SAO     0.72    4 iPd    59 29.74   -1.5
LLA     0.73   38 iPd    59 30.80   -0.6
                  eS       59 40.50
PHAM    0.92  103 eP     59 33.70   -1.2
GCC     1.06  338 eP     59 35.80   -1.4
MHC     1.30  355 iPc    59 39.80   -1.6
                  eS       59 59.10
ARN     1.30  359 eP     59 39.50   -1.9
BCH     1.44  126 eP     59 40.90   -2.8
PCC     1.61  334 eP     59 44.00   -2.0
FRI     1.73   56 eP     59 45.80   -1.9
                  eS       00 08.90
BRK     1.92  342 e(P)   59 50.80    0.3
CMB     2.18   24 eP     59 52.20   -2.1
                  eS       00 18.80
       13 obs. associated
-------------------------------------
*  FEB  02, 1991  03h 51m 42.90± 3.04s
   10.824 N ±14.9km   62.377 W ±27.8km
   DEPTH =  33.0km  (normal)
 NEAR COAST OF VENEZUELA           ( 97)
     MD 3.5 (TRN).

TCE     0.63  102 iP     51 56.01    0.7
TRN     0.97  100 eP     52 00.21    0.0
                  eS       52 11.55
TPP     1.04  119 eP     52 01.15    0.0
TBH     1.33  105 eP     52 04.95   -0.4
GRW     1.50   28 eP     52 09.03    1.1
BOT     1.66   78 eP     52 09.60   -0.5
SVB     2.67   24 eP     52 24.39   -0.2
SVV     2.73   24 eP     52 25.15   -0.2
SLB     3.26   23 eP     52 32.70   -0.2
BIM     3.89   19 eP     52 42.01    0.2
MVM     3.98   21 iPc    52 43.01   -0.2
FDF     4.07   17 eP     52 44.22   -0.2
        0.1s     0.65nm
                  S        53 27.90
BBL     4.75   11 eP     52 58.50    4.4X
DEG     5.60   13 eP     53 06.00   -0.2
     S.D. = 0.5   on  13 of  14 obs.
-------------------------------------
*  FEB  02, 1991  04h 00m 22.70± 0.77s
   22.981 S ± 7.5km   68.235 W ±12.9km
   DEPTH = 133.5 ± 13.6 km
   4.2mb (  2 obs.)
 NORTHERN CHILE                    (123)

ANT     2.13  250 iPc    01 00.20    1.3
                  iS       01 26.70
SLA     3.05  125 iPd    01 13.00    2.1
CNCB    6.14    2 P      01 53.80    0.9
LPB     6.42    1 P      01 54.00   -2.5
        0.9s    53.78nm          4.9mb X
ZOBO    6.68    1 P      02 00.00   -0.2
RTRS    7.24  188 ePc    02 06.10   -1.1
RTLL    8.32  181 iPc    02 21.00   -0.8
CFA     8.59  180 e(P)   02 24.50   -1.0
SIV     9.69   45 Pc     02 35.20   -5.0X
PPD    15.67   90 eP     03 57.10   -0.3
                  e        04 00.60
                  e        04 03.20
BAO    20.44   73 ePd    04 45.00   -6.6X
LIC    68.21   73 P      11 11.00   -0.1
KIC    68.53   73 P      11 12.90   -0.2
        0.6s     8.00nm          4.7mb
YKA    92.78  340 eP     13 22.40    1.9
        0.5s     0.20nm          3.6mb
     S.D. = 1.6   on  12 of  14 obs.
-------------------------------------
*  FEB  02, 1991  04h 09m 55.76± 0.90s
   36.954 N ±11.0km   29.476 E ± 6.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
     MD 3.2 (ISK).

ELL     0.40  120 iPg    10 04.00   -0.1
                  iSg      10 10.00
YER     0.97  281 ePn    10 14.00   -0.3
BCK     1.02   60 iPn    10 15.40    0.2
CIN     1.28  301 eP     10 20.00    0.5
KHL     1.37    2 ePn    10 20.50   -0.4
     S.D. = 0.5   on   5 of   5 obs.
-------------------------------------
?  FEB  02, 1991  05h 34m 48.93± 3.88s
   35.184 N ±33.1km   22.281 E ±23.6km
   DEPTH =  10.0km  (geophysicist)
 MEDITERRANEAN SEA                 (400)
     MD 3.6 (ATH).

VAM     1.59   81 ePn    35 17.00   -0.1
VLI     1.62   19 ePn    35 18.20    0.6
ITM     2.01  352 ePb    35 28.00    4.7X
NPS     2.73   87 ePn    35 34.00    0.4
APE     3.23   53 ePn    35 40.00   -0.8
VLS     3.28  336 ePn    35 41.00   -0.4
EVR     3.74  354 ePn    35 50.00    1.9
KZN     5.13  356 ePn    36 06.00   -1.7
     S.D. = 1.4   on   7 of   8 obs.
-------------------------------------
?  FEB  02, 1991  05h 35m 51.63± 0.96s
   40.916 N ±10.2km   22.633 E ± 7.5km
   DEPTH =  10.0km  (geophysicist)
 GREECE                            (364)

GRG     0.18  283 iPc    35 54.86   -0.8
                  eS       35 57.90
KNT     0.32   39 ePc    35 58.22    0.0
                  eS       36 03.18
THE     0.38  138 iPc    35 59.30   -0.1
OHR     1.40  279 ePn    36 18.20    0.9
     S.D. = 1.3   on   4 of   4 obs.
-------------------------------------
?  FEB  02, 1991  06h 03m 22.50± 5.93s
   32.244 S ±20.5km   67.442 W ±96.4km
   DEPTH = 127.5 ± 33.2 km
 MENDOZA PROVINCE, ARGENTINA       (139)

CFA     0.93  313 iPc    03 45.00    0.1
                  S        04 01.70
RTCV    1.01  292 ePd    03 45.60    0.0
RTLL    1.26  316 iP     03 48.00   -0.2
RFA     2.66  198 ePd    04 05.30    0.0
                  S        04 35.40
RTRS    2.70  320 ePd    04 05.70    0.1
     S.D. = 0.3   on   5 of   5 obs.
-------------------------------------
%  FEB  02, 1991  06h 08m 39.24± 0.96s
   45.994 N ± 6.4km     0.271 E ± 9.2km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                            (538)
     ML 2.2 (LDG).

MFF     0.67  335 Pg     08 52.30   -0.3
                  Sg       09 01.40
LSF     0.91   73 Pg     08 56.00   -0.7
                  Sg       09 06.30
LFF     1.10  162 Pg     09 00.00    0.0
                  Sg       09 14.00
RJF     1.11  128 Pg     08 58.90   -1.2
                  Sg       09 13.20
TCF     1.38   77 Pg     09 04.00   -0.5
                  Sg       09 20.90
LPO     1.46  153 Pg     09 06.10    0.4
                  Sg       09 24.90
MAF     1.61   81 Pg     09 08.20    0.4
```

02d 06h

			Sg	09	27.80	
CAF	1.65	130	Pg	09	08.80	0.4
			Sg	09	29.40	
BGF	1.87	72	Pg	09	13.00	1.4
			Sg	09	35.70	
LPF	2.23	337	Pg	09	21.40	4.7X
			Sg	09	49.80	
SSF	2.48	63	Pg	09	24.50	4.3X
			Sg	09	54.80	
LOR	2.78	61	Pg	09	28.40	3.7X
			Sg	10	02.60	

S.D. = 0.9 on 9 of 12 obs.

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* FEB 02, 1991 06h 21m 35.67± 0.38s
14.877 S ± 7.9km 167.171 E ±17.3km
DEPTH = 33.0km (normal)
4.6mb (2 obs.)
VANUATU ISLANDS (186)

BKM	2.96	160	iPd	22	21.60	0.2
PVC	3.05	159	iP	22	23.50	0.8
DZM	7.19	185	iPc	23	20.00	-1.3
			iS	24	32.70	
ASPA	32.53	249	iPd	28	06.20	0.2
	0.5s		15.30nm			5.2mb
MCO	64.13	304	eP	31	51.00	-18.4X
YKA	97.72	27	eP	35	06.40	-1.7
	0.6s		0.30nm			4.0mb
FLN	144.72	346	ePKP	41	09.30	-1.4
LDF	144.79	345	ePKP	41	10.10	-0.7
LOR	144.84	340	ePKP	41	10.10	-0.9
	0.8s		4.70nm			
LBF	145.05	340	ePKP	41	11.30	-0.1
	0.5s		3.30nm			
SSF	145.14	340	ePKP	41	11.30	-0.2
	0.6s		4.50nm			
GRR	145.15	346	ePKP	41	11.10	-0.3
	0.5s		5.10nm			
LPL	145.29	336	ePKP	41	13.30	1.2
	0.7s		4.40nm			
LPG	145.30	336	ePKP	41	12.90	0.7
	0.7s		3.30nm			
SMF	145.39	340	ePKP	41	12.70	0.8
	0.7s		4.40nm			
AVF	145.43	340	ePKP	41	12.70	0.8
LPF	145.53	346	ePKP	41	12.00	-0.1
BGF	145.80	341	ePKP	41	12.80	0.2
	0.5s		3.65nm			
TCF	146.24	341	ePKP	41	14.10	0.7
MFF	146.64	344	ePKP	41	15.10	1.1

S.D. = 0.9 on 19 of 20 obs.

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* FEB 02, 1991 06h 24m 05.85± 0.79s
34.794 N ± 9.7km 104.838 E ±11.3km
DEPTH = 10.0km (geophysicist)
3.5mb (1 obs.)
GANSU PROVINCE, CHINA (322)
ML 3.5 (BJI).

LZH	1.52	328	iPnc	24	34.00	0.7
			Pg	24	36.80	
			Sn	24	58.00	
			Sg	25	01.00	
XAN	3.46	101	Pn	25	01.00	0.1
			Pg	25	09.00	
			Sn	25	43.00	
			Sg	25	56.00	
CD2	3.98	194	Pn	25	08.30	0.1
			Pg	25	21.00	
			Sg	26	12.30	
GTA	6.11	320	Pn	25	38.00	-0.5
			Pg	25	59.40	
			Sn	26	49.00	
			Sg	27	21.80	
TIY	6.79	62	ePg	26	12.30	24.2X
YKA	78.00	18	eP	36	05.10	-0.4
	0.7s		0.30nm			3.5mb

S.D. = 0.7 on 5 of 6 obs.

FEB 02, 1991 06h 54m 40.46± 0.42s
37.275 N ± 7.2km 42.566 E ± 4.9km
DEPTH = 10.0km (geophysicist)
4.7mb (8 obs.)
TURKEY (366)

TAB	3.09	74	eP	55	32.00	1.7
GAZ	4.27	270	ePn	55	43.90	-3.1X
KER	4.70	127	eP	55	53.00	-0.3
RUWJ	5.69	214	P	56	08.80	1.6
BHL	6.56	241	P	56	18.00	-1.4
			S	58	16.00	
SHMJ	7.19	233	Pd	56	29.90	1.7
GLH	7.27	233	eP	56	29.00	-0.3
ADI	7.32	237	eP	56	31.00	0.9
BURJ	7.49	230	Pd	56	32.90	0.4
BURJ	7.49	230	Pd	56	33.10	0.6
MDSJ	7.67	225	Pc	56	34.20	-0.8
CSS	7.82	256	e(P)	56	37.00	0.0
KFNJ	7.84	228	Pd	56	36.80	-0.4
ZNT	7.98	233	eP	56	40.00	0.8
			eS	58	54.00	
BBTK	8.10	291	eP	56	52.50	11.5X
			iS	57	13.00	
PRNI	9.35	225	eP	56	57.50	-0.7
MBH	9.85	223	eP	57	03.00	-2.3
KSP	23.09	314	eP	59	42.00	-5.1X
SOTA	25.10	303	iPc	00	06.20	-0.5
	0.6s		6.00nm			4.5mb
			id	00	06.40	
			e	00	38.00	
			i	00	44.00	
CLL	25.18	313	iPd	00	07.90	0.6
HFS	29.34	330	eP	00	45.10	-0.1
	0.4s		0.90nm			3.9mb
GKN	36.37	92	P	01	45.80	-1.0
	0.9s		33.00nm			5.2mb
DMN	36.91	93	P	01	51.80	0.3
	0.8s		19.00nm			4.9mb
KKN	36.97	92	P	01	51.80	-0.2
	0.8s		12.00nm			4.7mb
PKI	37.17	92	P	01	53.80	0.0
	0.6s		10.00nm			4.8mb
GUN	37.40	92	P	01	54.80	-0.9
	0.8s		28.00nm			5.1mb
BCAO	39.40	220	ePc	02	13.00	0.8
	0.6s		6.00nm			4.4mb
YKA	78.89	349	eP	06	44.50	-0.5
	0.9s		0.60nm			3.6mb X

S.D. = 1.0 on 25 of 28 obs.

? FEB 02, 1991 07h 24m 33.52± 5.74s
6.402 S ±46.0km 129.690 E ±26.5km
DEPTH = 189.7 ± 35.6 km
BANDA SEA (280)

MTN	6.56	168	eP	26	08.70	0.0
	0.3s		465.00nm			6.3mb X
KNA	9.33	185	iPd	26	45.30	0.1
	0.3s		88.00nm			5.6mb X
			eS	28	28.00	
WB2	14.20	162	eP	27	43.50	-4.1X
			i	27	48.70	
			iS	30	17.00	
MBL	17.50	212	eP	28	27.00	-0.4
PMG	17.55	101	eP	28	28.00	0.1
ASPA	17.64	167	iPd	28	28.30	-0.6
	0.4s		28.60nm			5.0mb
			eS	31	39.00	
WARB	19.89	188	iPd	28	53.00	0.8

S.D. = 0.8 on 6 of 7 obs.

FEB 02, 1991 09h 09m 02.32± 0.47s
37.114 N ± 7.2km 42.603 E ± 5.9km
DEPTH = 33.0km (normal)
4.8mb (10 obs.)
TURKEY (366)

TAB	3.11	71	eP	09	51.00	0.7
GAZ	4.31	272	iPn	10	05.10	-2.1
KER	4.58	126	eP	10	12.00	0.7
BHL	6.51	243	P	10	39.00	0.6
			S	12	34.00	
ATZ	7.39	237	iPd	10	51.60	1.0
CSS	7.81	257	eP	11	01.00	4.4X
ZNT	7.91	234	eP	10	58.50	0.6
			eS	13	22.00	
JVI	7.91	231	iPd	10	58.10	0.2
BBTK	8.19	292	ePg	10	56.00	-5.9X
			i	11	20.00	
			i	11	42.00	
MKT	8.72	227	eP	11	10.00	0.9
			eS	13	42.00	
PRNI	9.25	225	eP	11	17.00	0.5
QASM	11.02	176	ePc	11	38.70	-2.1
RYD	12.82	163	ePc	12	03.20	-1.8
SPC	20.20	314	eP	13	36.30	-0.8
ZST	21.68	309	eP	13	53.70	1.7
KHC	24.19	309	eP	14	17.50	0.8
SOTA	25.21	304	eP	14	24.00	-2.6
	0.6s		9.20nm			4.5mb
			i	14	30.40	
			i	14	50.40	
MOX	25.89	311	eP	14	38.00	5.3X
NUR	26.05	340	iP	14	36.00	1.9
	0.7s		12.00nm			4.6mb
KAF	27.00	343	eP	14	45.00	2.3X
HFS	29.50	331	eP	15	02.70	-2.6
	1.1s		11.60nm			4.5mb
EKA	35.73	315	P	16	01.00	1.4
	1.8s		28.80nm			4.9mb
GKN	36.33	92	P	16	05.00	-0.2
	0.6s		55.00nm			5.6mb
DMN	36.87	92	P	16	11.06	1.2
	0.7s		47.00nm			5.5mb
KKN	36.94	92	P	16	10.18	-0.2
	0.7s		29.00nm			5.2mb
PKI	37.13	92	P	16	12.08	-0.1
	0.6s		21.00nm			5.1mb
GUN	37.36	91	P	16	14.10	0.0
BCAO	39.30	220	iPd	16	31.50	1.5
	0.4s		5.00nm			4.6mb
YKA	79.05	349	eP	21	02.90	-1.4
	0.9s		1.20nm			3.9mb

S.D. = 1.4 on 25 of 29 obs.

FEB 02, 1991 09h 34m 19.98± 0.39s
44.481 N ± 7.5km 80.569 E ± 6.4km
DEPTH = 33.0km (normal)
4.6mb (7 obs.)
KAZAKH-XINJIANG BORDER REGION (331)
ML 4.1 (BJI).

WMQ	5.17	95	ePn	35	36.80	-0.4
			Sg	36	59.80	
GTA	15.18	103	eP	37	53.20	-0.5
GKN	16.76	167	P	38	14.20	0.2
GUN	17.08	164	P	38	18.80	0.7
PKI	17.32	165	P	38	21.80	0.7
BTO	21.99	90	P	39	12.20	-0.6
HHC	23.01	88	P	39	24.00	1.1
XAN	24.19	106	P	39	34.00	-0.4
TIY	24.84	95	eP	39	40.60	0.0
N	10s		0.20um			
HFS	41.82	316	eP	42	08.00	0.2
	0.6s		4.40nm			4.4mb
NB2	42.88	318	P	42	16.60	0.1
	0.8s		6.40nm			4.4mb
CLL	44.35	304	iPc	42	30.60	2.1
	0.8s		14.00nm			4.8mb
MBC	58.88	5	eP	44	17.50	0.2
	0.5s		4.00nm			4.8mb
BCAO	67.15	253	iPc	45	10.80	-2.0
	0.4s		8.00nm			5.2mb
YKA	72.68	7	eP	45	45.20	-0.6
	0.8s		0.90nm			3.8mb
FFC	81.15	1	eP	46	34.00	0.9
	0.6s		5.00nm			4.7mb
KIC	82.24	271	P	46	38.80	-0.7
TIC	82.24	272	P	46	38.80	-0.7
LIC	82.54	271	P	46	40.60	-0.4

S.D. = 0.9 on 19 of 19 obs.

? FEB 02, 1991 09h 43m 46.64± 5.31s
12.250 S ±48.1km 118.020 E ±27.1km
DEPTH = 33.0km (normal)
4.2mb (1 obs.)
SOUTH OF SUMBAWA ISLAND (291)

MBL	9.03	169	iPd	45	57.30	-0.5
			eS	47	34.00	
NANU	10.53	193	eP	46	17.00	-1.3
	0.2s		10.00nm			5.7mb X
			eS	48	09.00	
KNA	10.99	110	eP	46	26.00	1.2
MEKA	14.30	178	iPc	47	09.10	0.3
			eS	49	31.00	
WARB	16.06	151	iPc	47	32.30	0.5
			eS	50	27.00	
MRWA	16.99	186	eP	47	42.00	-1.4
			eS	50	41.00	
WB2	17.45	118	eP	47	47.00	-2.3

		eS	50 57.50			
BAL	18.31	184 eP	48 00.00	0.2		
		eS	51 12.00			
COOL	18.77	172 eP	48 06.70	1.2		
		eS	51 22.00			
ASPA	18.88	129 eP	48 06.80	-0.1		
	1.1s	19.50nm		4.2mb		
		eS	51 33.80			
KLB	19.25	181 eP	48 13.00	1.7		
		eS	51 33.00			
MUN	19.71	185 eP	48 20.00	3.7X		
		eS	51 45.00			
NWAO	20.59	182 eP	48 26.00	0.4		
		eS	52 05.00			
	S.D. = 1.3	on	12 of 13 obs.			

FEB 02, 1991 10h 09m 53.60± 0.59s
35.288 N ± 5.0km 22.164 E ± 3.1km
DEPTH = 54.6 ± 5.9 km
4.4mb (12 obs.)
MEDITERRANEAN SEA (400)
MD 4.8 (HLW).

VLI	1.56	23 ePn	10 22.80	3.4X		
VAM	1.67	85 iPnc	10 22.00	1.1		
ITM	1.90	354 ePn	10 28.00	3.9X		
NPS	2.82	90 ePn	10 38.50	1.3		
ATH	2.96	25 ePn	10 42.00	2.9X		
VLS	3.15	337 ePn	10 42.00	0.1		
APE	3.25	56 ePn	10 44.00	0.6		
EVR	3.63	356 ePn	10 52.00	3.2X		
AGG	3.73	2 eP	10 52.50	2.4		
		eS	11 40.00			
NEO	4.10	12 ePn	10 56.00	0.8		
KAP	4.10	85 ePn	10 55.00	-0.3		
SMG	4.47	56 ePn	11 01.00	0.6		
IGT	4.48	342 iPc	11 00.14	-0.4		
		eS	11 53.00			
PAIG	4.79	14 iPd	11 05.24	0.4		
KEK	4.80	338 ePn	11 05.50	0.4		
LIT	4.81	3 iPc	11 05.48	0.2		
		eS	12 03.20			
ARG	4.94	77 ePn	11 06.50	-0.6		
KZN	5.02	357 iPnc	11 09.00	0.7		
PLG	5.18	11 ePn	11 10.50	0.0		
YER	5.28	68 ePn	11 12.00	0.1		
THE	5.37	7 ePd	11 12.68	-0.4		
FNA	5.52	354 eP	11 14.50	-0.8		
		eS	12 20.00			
SOI	5.64	301 P	11 17.00	0.1		
		eSn	12 18.50			
GRG	5.66	2 iPd	11 16.80	-0.4		
		iS	12 22.20			
KNT	5.89	5 iPc	11 20.00	-0.4		
		iS	12 28.36			
SRS	5.93	11 iPc	11 20.89	0.0		
VAY	6.03	3 iP	11 22.00	-0.4		
	1.0s	129.00nm		5.3mb		
		i	11 29.20			
LCI	6.04	328 P	11 22.00	-0.4		
		eSn	12 26.20			
KSL	6.09	80 ePn	11 21.50	-1.7		
ATN	6.10	300 P	11 21.70	-1.6		
		eSn	12 29.50			
TDS	6.36	315 P	11 26.60	-0.4		
		eSn	12 35.50			
MMB	6.41	11 ePc	11 27.00	-0.7		
RDO	6.42	23 ePn	11 27.00	-0.8		
ELL	6.44	75 iP	11 27.50	-0.8		
MNO	6.56	296 P	11 29.70	-0.3		
		eSn	12 41.00			
KKB	6.61	6 eP	11 31.00	0.6		
KHL	6.64	61 eP	11 32.30	1.4		
RZN	6.70	17 iP	11 31.00	-0.8		
SKO	6.70	355 iP	11 30.50	-1.2		
BRT	6.81	326 P	11 33.00	-0.3		
		eSn	12 45.00			
KDZ	6.85	21 iPc	11 33.00	-0.7		
PLD	7.09	15 eP	11 38.00	0.9		
BCK	7.13	70 eP	11 25.50	-12.4X		
DIM	7.25	20 eP	11 40.00	0.7		
MCT	7.26	291 P	11 40.50	0.8		
VTS	7.34	6 iP	11 41.00	0.2		
BDV	7.45	341 ePg	11 38.50	-3.7X		
		eSg	12 00.50			
TTG	7.48	343 ePn	11 39.60	-3.0X		
		eSn	12 02.30			
PVY	7.49	348 ePn	11 41.50	-1.4		
		eSn	12 05.50			
SGO	7.55	316 P	11 43.00	-0.5		
BRY	8.11	341 ePn	11 48.50	-2.8X		
		eSn	12 15.00			
PLE	8.31	346 ePn	11 51.50	-2.7X		
		eSn	12 22.00			
HVAR	9.04	332 ePn	11 59.90	-4.2X		
		iSn	13 34.70			
HLW	9.45	122 ePn	12 04.00	-5.7X		
		eSn	13 44.50			
BBTK	9.56	58 iPc	12 10.00	-1.4		
MLR	10.59	15 eP	12 44.50	19.1X		
VRI	11.12	17 ePc	12 35.50	3.0X		
VBY	11.48	335 e(P)	12 37.50	0.3		
		eS	14 37.40			
JVI	11.49	103 eP	12 31.00	-6.6X		
PTJ	11.60	338 eP	12 32.30	-6.6X		
DSI	11.65	105 eP	12 33.00	-6.6X		
MKT	11.72	108 eP	12 34.00	-6.5X		
MBH	12.06	114 eP	12 40.00	-5.1X		
VOY	12.43	332 eP	12 50.20	0.2		
		eS	15 00.10			
ZST	13.44	345 eP	13 12.40	9.2X		
SPC	13.96	355 eP	13 17.80	7.5X		
SQTA	14.47	329 e(P)	13 19.00	2.1		
	0.7s	4.60nm		4.0mb		
		e	13 24.00			
		i	13 27.20			
		i	13 42.20			
KHC	15.21	338 eP	13 31.50	5.1X		
		e	13 34.90			
PRU	15.71	342 eP	13 37.00	4.3X		
KSP	16.12	346 eP	13 41.50	3.6X		
BRG	16.68	342 eP	13 50.00	5.1X		
	1.0s	20.00nm		4.2mb		
		i	13 57.20			
MOX	17.15	337 eP	14 03.00	12.2X		
CLL	17.32	340 e(P)	13 59.00	6.1X		
DOU	19.57	325 P	14 16.90	-2.7X		
	0.6s	10.00nm		4.3mb		
BSD	20.45	348 iPc	14 29.80	1.1		
	0.7s	24.00nm		4.6mb		
NUR	25.29	3 iP	15 15.90	-0.2		
	0.8s	20.50nm		4.7mb		
HFS	25.46	350 eP	15 17.80	0.0		
	0.7s	7.20nm		4.3mb		
EKA	26.56	327 Pd	15 32.10	4.2X		
	0.8s	4.10nm		4.1mb		
NB2	26.71	348 P	15 29.10	-0.2		
	0.7s	2.70nm		3.9mb		
KAF	26.97	4 iP	15 32.30	0.6		
BCAO	30.88	187 ePc	16 08.00	0.9		
	0.6s	4.00nm		4.3mb		
SOD	32.23	3 iP	16 19.20	0.8		
KEV	34.63	3 eP	16 24.00	-15.1X		
GKN	52.92	79 P	19 06.42	-0.3		
	0.7s	34.00nm		5.5mb X		
DMN	53.46	80 P	19 10.80	0.0		
KKN	53.53	79 P	19 10.94	-0.3		
PKI	53.72	80 P	19 12.36	-0.4		
	0.8s	23.00nm		5.3mb		
GUN	53.96	79 P	19 14.34	-0.2		
GBA	54.02	99 Pd	19 13.80	-0.8		
	0.7s	4.90nm		4.6mb		
	S.D. = 0.8	on	60 of 89 obs.			

? FEB 02, 1991 11h 19m 15.71± 4.69s
14.854 N ±30.9km 61.120 W ±15.7km
DEPTH = 10.0km (geophysicist)
WINDWARD ISLANDS (95)
ML 2.0 (FDF).

FDF	0.12	194 iPd	19 18.73	-0.1		
	0.1s	1.35nm				
		S	19 23.60			
CRM	0.22	117 eP	19 20.56	0.1		
		S	19 26.60			
BIM	0.34	172 eP	19 22.85	0.1		
MVM	0.37	144 iPd	19 23.17	-0.1		
		S	19 31.50			
	S.D. = 0.2	on	4 of 4 obs.			

* FEB 02, 1991 11h 35m 45.72± 0.76s
20.679 N ±14.6km 94.666 E ±12.3km
DEPTH = 112.7 ± 17.1 km
4.4mb (1 obs.)

BURMA				(296)		
CHG	4.44	114 eP	36 51.90	-0.2		
BDT	5.34	129 eP	37 03.60	-0.8		
	0.8s	111.60nm		5.1mb X		
KHT	6.95	147 eP	37 25.70	-0.9		
LOE	7.43	115 eP	37 33.00	-0.1		
NNT	9.39	148 eP	38 02.00	2.3		
GUN	10.77	314 P	38 18.08	-0.3		
	0.3s	62.00nm		5.9mb X		
PKI	10.88	311 P	38 19.92	0.1		
	0.2s	24.00nm		5.6mb X		
KKN	11.11	311 P	38 22.32	-0.4		
	0.2s	30.00nm		5.7mb X		
DMN	11.12	310 P	38 23.16	0.2		
	0.3s	37.00nm		5.6mb X		
GKN	11.69	311 P	38 30.48	0.2		
	0.3s	142.00nm		6.1mb X		
HYB	15.58	261 eP	39 37.00	16.6X		
		eS	42 07.50			
GBA	17.90	250 P	39 57.00	8.0X		
		S	42 45.00			
SSE	25.96	61 P	41 10.20	0.8		
WRA	56.02	134 P	45 14.00	-1.1		
	0.5s	2.00nm		4.4mb		
	S.D. = 1.1	on	12 of 14 obs.			

* FEB 02, 1991 11h 40m 53.30± 1.38s
6.720 N ±17.1km 73.056 W ±11.4km
DEPTH = 165.0 ± 15.1 km
4.2mb (2 obs.)
NORTHERN COLOMBIA (99)

UAV	2.67	45 iPnd	41 39.20	1.3		
		eSn	42 10.60			
SDV	3.22	48 iPnd	41 45.70	0.9		
		iSn	42 23.50			
TOV	4.44	46 iPnd	42 00.80	0.4		
		iSn	42 49.20			
MORO	6.24	48 iP	42 22.40	-1.9		
UPA	6.80	290 eP	42 31.10	-0.6		
	0.6s	13.33nm		4.5mb		
		S	43 37.70			
OLLA	7.00	62 iP	42 33.30	-1.2		
SIV	25.49	152 P	46 08.40	0.2		
SCH	48.22	5 eP	49 20.00	1.1		
YKA	63.38	340 eP	51 06.60	-0.3		
	0.4s	0.90nm		4.0mb		
GKN	139.31	31 Pdiff	57 00.00	-16.2X		
WRA	150.34	241 PKP	00 28.00	6.2X		
	0.4s	4.00nm				
	S.D. = 1.4	on	9 of 11 obs.			

FEB 02, 1991 12h 39m 27.05± 0.36s
1.676 N ± 5.0km 126.459 E ± 8.3km
DEPTH = 36.3km (3 depth phases)
5.3mb (20 obs.) 4.6Msz (7 obs.)
MOLUCCA PASSAGE (266)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 24C
Centroid Location:
Origin Time 12:39:30.7 1.0
Lat 1.56N 0.15 Lon 126.08E 0.11
Dep 20.0 5.7 Half-durotion 1.5
Moment Tensor; Scale 10**16 Nm
Mrr=-4.73 0.42 Mtt=-1.04 0.52
Mff= 5.77 0.51 Mrt= 0.01 1.10
Mrf= 0.82 1.40 Mtf= 1.06 0.50
Principol Axes:
T Val= 5.99 Plg= 4 Azm=279
N -1.19 2 189
P -4.80 85 76
Best Double Couple:Mo=5.4*10**16
NP1:Strike= 11 Dip=41 Slip= -87
NP2: 187 49 -92

MNI	1.63	262 ePd	39 56.70	2.7		
AAI	5.60	162 eP	40 50.60	0.4		
TSM	8.75	287 eP	41 38.00	3.8X		
MKS	9.78	226 e(P)	41 51.70	3.3X		
QCP	13.93	338 eP	42 50.00	5.7X		
JAY	14.84	106 e(P)	43 04.20	8.0X		
BAG	15.74	339 eP	43 08.00	-0.1		
WB2	22.84	161 eP	44 25.00	-3.3X		
		eS	48 36.00			
MBL	23.60	196 eP	44 34.50	-1.2		

02d 12h

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QIZ    23.71 318 eP    44 35.40  -1.4
     N  16s     1.80um
IPM    25.56 277 ePd   44 54.50   0.0
QIS    25.58 150 eP    44 53.00  -1.6
ASPA   26.21 164 iPc   44 59.40  -1.1
       0.5s    33.30nm        5.2mb
                eS     49 36.10
WARB   27.70 180 eP    45 14.00   0.0
NNT    28.61 294 eP    45 23.30   0.9
LOE    28.90 304 eP    45 23.00  -2.0
MEKA   29.15 195 eP    45 26.00  -1.1
SSE    29.68 351 eP    45 15.20 -16.6X
                sP     45 33.00
KHT    30.44 297 eP    45 38.50  -0.3
WHN    30.92 339 eP    45 43.50   0.7
NJ2    31.05 347 Pc    45 41.00  -2.9
BDT    31.11 301 eP    45 43.80  -0.8
GYA    31.13 324 P     45 44.60  -0.2
CHG    31.89 304 ePc   45 51.20  -0.3
       1.0s    13.75nm        4.8mb
FORR   32.38 177 iPc   45 55.10  -0.4
KMI    32.67 318 Pd    45 59.00   0.6
       1.5s    60.00nm        5.3mb
     Z 25s     1.30um         4.5MszX
                pP     46 08.00  31km
KLB    34.10 193 eP    46 10.00  -0.5
MUN    34.85 195 eP    46 18.50   1.5
TIA    35.43 347 eP    46 20.80  -1.1
XAN    36.13 335 P     46 26.70  -1.2
CD2    36.15 326 iPc   46 27.50  -0.6
       1.2s    60.00nm        5.4mb
     Z 20s     0.60um         4.4Msz
                S      52 05.00
MAT    36.36  16 (P)   46 29.00  -0.7
       1.6s    86.67nm        5.4mb
     Z 20s     0.71um         4.4Msz
                eS     52 25.00
DL2    37.32 354 P     46 39.00   1.4
       1.5s   100.00nm        5.5mb
TIY    38.11 342 eP    46 43.70  -0.8
     Z 22s     1.00um         4.6Msz
ADE    38.22 164 eP    46 45.50   0.1
BJI    39.31 348 eP    46 54.00  -0.4
       1.3s    28.00nm        4.9mb
     Z 24s     0.64um         4.4MszX
SNY    40.06 357 iPd   47 00.00  -0.5
       1.2s    30.00nm        4.9mb
     Z 26s     0.90um         4.5MszX
     N 25s     0.70um
     E 24s     0.60um
                pP     47 11.00  39km
                S      53 06.00
LZH    40.14 331 iPd   47 01.50   0.0
       1.5s   100.00nm        5.4mb
     Z 21s     1.28um         4.7Msz
     N 10s     0.43um
                pP     47 12.50  39km
HHC    41.26 343 eP    47 11.00   0.4
     Z 32s     1.60um         4.7MszX
BFD    41.44 160 eP    47 15.00   3.1X
CN2    41.95 359 Pc    47 18.00   2.0
     Z 20s     0.90um         4.6Msz
                epP    47 24.00  20kmX
MDJ    42.85   3 eP    47 24.00   0.6
LSA    43.61 313 Pc    47 30.20  -0.2
GTA    44.72 330 Pc    47 39.00   0.2
       1.6s    30.00nm        4.9mb
     Z 27s     1.00um         4.6MszX
     E 10s     0.30um
                sP     47 51.80
                PP     49 24.80
GUN    46.73 308 P     47 55.24   0.0
       1.2s   144.00nm        5.8mb
PKI    46.96 307 P     47 56.52  -0.4
       1.4s    70.00nm        5.5mb
KKN    47.16 307 P     47 58.16  -0.2
       1.4s   119.00nm        5.7mb
DMN    47.21 307 P     47 58.92   0.0
GKN    47.76 307 P     48 02.70  -0.4
       1.2s    93.00nm        5.7mb
KOD    49.40 282 eP    48 16.10   0.0
HYB    49.58 291 ePc   48 16.10  -1.0
       1.2s    64.30nm        5.5mb
GBA    49.90 286 P     48 18.80  -0.7
NDI    54.04 305 iPd   48 44.20  -6.2X
POO    54.19 292 eP    48 50.50  -1.2
WMQ    54.25 326 P     48 51.20  -0.7
       1.0s    20.00nm        5.1mb
     Z 20s     0.60um         4.7Msz
                sP     49 07.60
QUE    63.02 303 eP    49 52.40  -0.9
SVW    82.70  29 ePc   51 51.90   3.6X
BRW    84.19  18 ePc   51 59.40   3.8X
IMA    84.36  24 ePc   51 59.70   2.9X
       1.9s    61.30nm        5.4mb
PMR    85.87  29 eP    52 08.10   4.0X
MML    89.99 302 iPd   52 25.70   1.1
JVI    90.07 302 iPd   52 27.30   2.3
RMN    90.74 300 iPd   52 30.40   2.2
SOD    92.25 338 eP    52 38.00   3.7X
KAF    93.28 332 eP    52 40.00   0.9
NUR    94.36 331 eP    52 46.00   2.0
SLL    99.75 332 eP    53 08.80   0.2
       1.0s    11.70nm        5.4mb
NB2   100.49 333 Pdiff 53 14.00   2.1
       1.0s     3.30nm        4.8mb
YKA   101.47  24 ePdiff53 17.80   1.6
       1.2s     1.30nm        4.4mb
ZOBO  159.59 136 PKP   59 26.00   1.3
     Z 20s     0.16um         4.9Msz
                eLR    56 26.00
     S.D. = 1.2  on  57 of  70 obs.
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*  FEB  02, 1991  13h 10m 20.28± 0.46s
   47.799 N ±11.0km  146.128 E ± 8.0km
   DEPTH = 400.0km  (geophysicist)
   4.6mb ( 23 obs.)
 NORTHWEST OF KURIL ISLANDS       (220)

MDJ    11.89 261 Pd    13 02.50   1.1
                S      15 10.50
                SS     15 39.00
MAT    12.68 210 eP    13 12.00   1.9
       0.7s    13.70nm        4.5mb
                (S)    15 29.00
CN2    14.96 262 iPd   13 34.30   0.0
       1.0s   300.00nm        5.7mb X
SNY    17.05 258 iPd   13 57.00   1.2
       0.6s   100.00nm        5.3mb
DL2    19.84 252 P     14 25.00   1.7
       1.3s   300.00nm        5.6mb
BJI    22.82 261 eP    14 52.00   0.5
       1.0s    53.00nm        4.9mb
TIA    24.32 252 eP    15 05.60   0.4
HHC    25.53 267 iPc   15 17.00   0.8
       1.2s   100.00nm        5.1mb
TIY    26.53 260 Pc    15 26.20   1.1
BTO    26.69 268 eP    15 26.00  -0.6
WHN    29.78 246 Pc    15 54.00   0.4
XAN    30.97 257 P     16 03.60  -0.4
LZH    33.16 265 iPd   16 23.80   1.0
       1.4s    77.00nm        4.8mb
GTA    34.13 273 iPd   16 31.40   0.5
       1.1s    20.00nm        4.4mb
                ScP    21 56.20
BRW    35.20  28 ePc   16 40.70   1.4
IMA    35.81  37 ePc   16 46.10   1.5
       0.7s    15.70nm        4.5mb
CD2    36.33 258 P     16 49.30   0.0
       0.8s    10.00nm        4.2mb
GYA    37.45 250 iPd   16 59.00   0.4
                S      22 15.20
FBA    38.32  39 ePc   17 06.90   1.7
       0.8s    14.30nm        4.4mb
WMQ    40.09 287 iPd   17 20.50   0.5
       1.0s    35.00nm        4.6mb
KMI    40.89 252 eP    17 26.00  -0.9
LSA    45.52 267 iP    18 04.60   0.7
GUN    50.21 269 P     18 38.90  -0.7
       0.5s    19.00nm        4.7mb
KKN    50.69 270 P     18 42.44  -0.6
       0.6s    23.00nm        4.7mb
PKI    50.75 269 P     18 42.86  -0.7
       0.7s    14.00nm        4.4mb
DMN    50.93 270 P     18 44.54  -0.2
GKN    50.99 270 P     18 44.60  -0.5
       0.7s    53.00nm        5.0mb
YKA    52.86  35 eP    18 49.80  -8.4X
       0.6s     3.60nm        3.9mb
NDI    55.54 276 iPd   19 17.00  -0.7
HYB    62.27 266 eP    20 01.00  -2.4
FFC    62.89  37 iPc   20 06.70  -0.2
       0.5s     8.00nm        4.6mb
NB2    65.58 338 P     20 22.30  -1.7
       0.6s     1.60nm        3.9mb
HFS    65.69 336 eP    20 22.50  -2.2
       0.8s     5.30nm        4.3mb
GBA    65.74 263 P     20 24.00  -1.6
TNP    66.92  58 iP    20 33.90   0.9
WB2    68.25 192 eP    20 39.30  -1.6
WRA    68.26 192 P     20 39.00  -1.9
       0.6s     8.60nm        4.6mb
RSSD   69.66  46 iP    20 50.00   0.5
       1.0s    16.27nm        4.6mb
ASPA   71.98 192 iPc   21 03.00   0.0
       1.0s    12.90nm        4.5mb
TUL    80.00  47 ePd   21 47.00  -0.3
       0.8s     8.40nm        4.5mb
PDCR  144.57   9 (PKP) 29 10.00  -1.3
     S.D. = 1.2  on  40 of  41 obs.
-------------------------------------
   FEB  02, 1991  15h 00m 15.57± 0.97s
   39.638 N ± 7.5km  142.159 E ± 8.7km
   DEPTH =  61.9 ±  7.7 km
   4.8mb (  8 obs.)
 NEAR EAST COAST OF HONSHU, JAPAN(228)

OFUJ    0.67 214 P      00 29.00  -0.7
                eS     00 38.50
AOMJ    1.65 305 eP     00 42.80   0.1
YAMJ    2.21 229 P      00 50.60   0.1
HOOJ    2.87  17 eP     00 59.10  -0.7
                eS     01 32.60
MAT     4.39 226 (P)    01 22.00   0.8
       0.9s    63.87nm
                (S)    02 18.00
MDJ    10.57 302 eP     02 47.00   0.2
CN2    13.16 294 eP     03 22.00   0.8
     Z 15s     1.00um
                epP    03 25.00
SSE    19.08 250 P      04 36.50   0.7
BJI    19.94 280 eP     04 39.00  -5.9X
TIA    20.02 268 eP     04 43.50  -2.4
NJ2    20.32 255 Pc     04 50.00   1.1
                pP     05 05.00  71kmX
TIY    23.24 275 eP     05 20.20   2.1
     Z 18s     0.50um         4.0Msz
LZH    30.30 276 eP     06 24.00   0.8
       1.5s    20.00nm        4.6mb
     Z 20s     0.34um         4.0Msz
                pP     06 37.00  51kmX
GYA    32.31 257 P      06 40.20  -0.7
GTA    32.44 283 eP     06 43.00   1.1
       1.0s    10.00nm        4.6mb
                pP     06 52.60  33kmX
WMQ    40.25 294 Pd     07 48.00   0.2
LSA    42.61 273 P      08 07.40  -0.4
GUN    47.53 274 P      08 46.64  -0.3
       0.9s    52.00nm        5.5mb
KKN    48.05 274 P      08 50.38  -0.5
       0.6s    17.00nm        5.2mb
PKI    48.06 274 P      08 50.26  -0.8
DMN    48.27 274 P      08 51.22  -1.4
GKN    48.44 275 P      08 53.12  -0.7
       0.8s    24.00nm        5.3mb
INK    51.81  28 eP     09 20.00   1.2
WRA    59.72 189 P      10 15.00  -1.0
       0.7s     3.10nm        4.5mb
QUE    60.75 286 eP     10 23.50   0.1
YKA    61.27  31 eP     10 43.70  17.5X
       0.8s     0.50nm
GBA    62.02 265 P      10 31.60  -0.3
SOD    62.80 337 eP     10 57.00  20.7X
HFS    71.96 336 eP     11 32.50  -1.4
       0.7s     2.50nm        4.3mb
NB2    72.02 337 P      11 33.50  -0.8
       0.8s     4.00nm        4.4mb
FRB    74.11  14 eP     11 46.00  -0.3
ZOBO  144.82  57 (PKP)  19 50.00   1.9
CNCB  145.31  58 PKP    19 50.00   1.1
SIV   148.92  47 PKP    19 59.00   5.0X
     S.D. = 1.1  on  30 of  34 obs.
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&  FEB  02, 1991  15h 23m 46.68s
   59.391 N          153.047 W
   DEPTH =  80.2km
   2.7mb (  1 obs.)
 SOUTHERN ALASKA                 (  2)
      <AEIC>.

AUE     0.17 259 iP     23 57.93   1.0
```

AUI	0.20	254	iP	23	58.03	0.9
			eS	24	06.87	
AUH	0.20	263	iP	23	58.22	1.0
			eS	24	08.46	
CDD	0.56	214	iP	24	00.41	-0.8
			eS	24	11.58	
XLV	0.68	84	iP	24	01.63	-0.7
			eS	24	13.45	
MCNL	0.69	253	iP	24	01.68	-0.8
			eS	24	13.31	
PDB	0.71	305	eP	24	01.78	-0.8
			eS	24	13.63	
HOM	0.76	69	iP	24	02.83	-0.4
			eS	24	15.26	
SYI	0.85	156	iP	24	03.53	-0.7
			eS	24	16.63	
CNPM	0.93	81	eP	24	04.35	-0.9
			eS	24	19.30	
RED	1.04	8	eP	24	05.71	-0.9
			eS	24	20.20	
RS2	1.09	8	eP	24	06.45	-0.8
			eS	24	21.93	
RSO	1.08	8	eP	24	06.45	-0.8
			eS	24	21.52	
NNL	1.10	53	eP	24	07.21	0.0
REF	1.12	9	iP	24	06.76	-0.9
			eS	24	22.10	
RDN	1.14	7	iP	24	07.12	-0.7
			iS	24	22.82	
BRLK	1.16	70	eP	24	06.77	-1.3
			eS	24	23.15	
NCT	1.18	3	iP	24	07.49	-0.8
			eS	24	23.94	
NKA	1.63	33	eP	24	14.88	0.8
SLKM	1.81	51	eP	24	15.52	-1.1
CKL	1.85	11	iP	24	16.21	-0.9
			eS	24	39.01	
SPU	1.86	15	eP	24	16.32	-1.0
			eS	24	38.90	
BGL	1.91	10	eP	24	16.70	-1.3
SEW	1.96	67	eP	24	16.64	-1.9
NCG	2.07	12	eP	24	19.29	-0.9
SVW	2.15	324	iP	24	20.09	-1.1
			eS	24	40.61	
SUA	2.37	28	eP	24	23.72	-0.6
PMS	2.54	42	eP	24	25.29	-1.3
SKT	2.70	15	eP	24	27.34	-1.5
PWA	2.76	33	eP	24	28.90	-0.6
KNIM	2.85	68	eP	24	27.79	-3.0
PLRM	2.94	40	eP	24	30.18	-1.8
KNK	3.05	46	eP	24	30.92	-2.7
GHO	3.14	39	eP	24	33.10	-1.8
CUT	3.31	23	eP	24	36.06	-1.2
GLI	3.33	61	iP	24	33.90	-3.6
VZW	3.65	60	eP	24	38.99	-2.9
YKA	18.73	64	eP	27	58.10	-3.2
	0.4s		0.20nm			2.7mb
	38 obs. associated					

? FEB 02, 1991 15h 38m 06.39± 2.93s
36.172 N ±23.5km 21.628 E ±24.0km
DEPTH = 33.0km (normal)
SOUTHERN GREECE (368)
ML 3.4 (ATH).

ITM	1.03	13	ePn	38	23.50	-1.1
VLI	1.19	62	ePn	38	27.20	0.5
VLS	2.17	338	ePn	38	41.00	0.1
VAM	2.23	109	ePn	38	41.50	-0.2
ATH	2.45	42	ePb	38	53.00	8.1X
EVR	2.74	3	ePn	38	51.00	1.9
KZN	4.13	2	ePn	39	07.50	-1.3
S.D. = 1.5		on	6 of	7	obs.	

? FEB 02, 1991 15h 46m 10.42± 5.81s
31.200 S ±48.4km 69.272 W ±66.4km
DEPTH = 100.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTCB	0.50	125	ePd	46	26.60	0.1
			eS	46	38.90	
RTLL	0.70	101	iPc	46	28.00	-0.1
RTCV	0.91	137	ePd	46	30.10	-0.1
CFA	0.97	115	ePd	46	31.00	0.1
			eS	46	46.80	
S.D. = 0.2		on	4 of	4	obs.	

& FEB 02, 1991 15h 57m 34.93s
48.629 N 119.906 W
DEPTH = 0.0km
WASHINGTON (29)
<SEA>. CL 2.7 (SEA).

NLW	0.62	208	Pd	57	46.38	-1.0
DHW2	0.65	172	Pd	57	46.97	-0.9
CBSW	0.83	186	Pd	57	49.99	-1.5
WTV	0.93	182	P	57	51.85	-1.7
SAW	0.99	160	P	57	53.03	-1.6
ETW	1.06	196	P	57	54.40	-1.6
RPW	1.08	261	P	57	54.79	-1.5
EPH	1.29	171	Pd	57	58.01	-1.8
MBW	1.33	277	P	57	59.10	-1.5
DPW	1.37	123	P	57	59.49	-1.7
JCW	1.42	253	P	58	00.91	-1.0
OD2	1.48	147	P	58	02.17	-0.7
TBM	1.53	198	P	58	02.90	-0.8
TWW	1.63	204	P	58	05.33	0.3
VTG	1.67	182	P	58	05.78	0.2
RC1	1.72	169	Pc	58	06.48	0.2
WRD	1.74	163	P	58	06.79	0.2
EBG	1.78	195	P	58	06.14	-1.1
BVW	1.82	179	P	58	08.42	0.6
CRF	1.84	169	P	58	07.90	-0.1
WAH2	1.89	173	P	58	09.69	1.0
LOCW	1.94	170	P	58	10.32	0.9
OT2	1.96	166	P	58	11.14	1.3
NAC	2.00	198	P	58	09.52	-0.8
MDW	2.02	177	P	58	12.24	1.6
MXC	2.07	187	P	58	10.49	-0.9
FMW	2.07	216	P	58	10.08	-1.5
ET3	2.16	162	P	58	14.18	1.6
RVC	2.19	220	P	58	12.05	-1.1
RSW	2.25	174	P	58	17.13	3.1
30 obs. associated						

FEB 02, 1991 16h 14m 00.60± 0.44s
1.604 N ± 7.4km 126.527 E ± 8.9km
DEPTH = 38.2km (2 depth phases)
5.1mb (14 obs.) 4.2Msz (2 obs.)
MOLUCCA PASSAGE (266)

MNI	1.69	265	ePc	14	30.50	2.3
			eS	15	00.60	
DAV	5.53	350	eP	15	33.00	10.3X
MKS	9.78	226	e(P)	16	27.00	5.1X
WB2	22.75	161	eP	19	00.00	-0.8
OIS	25.48	150	eP	19	27.00	-0.1
ASPA	26.12	164	iPd	19	32.60	-0.5
	1.0s		15.80nm			4.6mb
			iS	24	11.30	
SSE	29.76	351	eP	20	15.00	9.1X
KHT	30.53	297	eP	20	11.50	-1.4
WHN	31.01	339	eP	20	16.00	-0.9
CHG	31.99	304	eP	20	26.50	0.8
KMI	32.76	317	Pc	20	33.00	0.4
	1.5s		40.00nm			5.1mb
			pP	20	43.00	35km
XAN	36.23	335	P	21	01.00	-1.0
CD2	36.25	326	P	21	01.70	-0.6
	1.5s		23.00nm			4.9mb
MAT	36.41	16	(P)	21	03.00	-0.5
	1.4s		34.88nm			5.1mb
DL2	37.39	354	eP	21	13.50	1.8
	1.0s		100.00nm			5.7mb
TIY	38.20	342	eP	21	17.60	-1.0
BJI	39.40	347	eP	21	28.50	0.0
	1.0s		9.00nm			4.5mb
SNY	40.13	357	eP	21	36.00	1.5
	1.0s		10.00nm			4.5mb
Z	18s		0.30um			4.2Msz
			S	27	44.00	
LZH	40.24	331	iPc	21	36.00	0.3
	1.8s		80.00nm			5.2mb
Z	20s		0.44um			4.3Msz
			pP	21	47.50	41km
			sP	21	54.00	
HHC	41.35	343	eP	21	46.00	1.4
LSA	43.71	313	Pc	22	04.00	-0.5
GTA	44.82	330	Pc	22	12.70	-0.2
	0.8s		10.00nm			4.7mb
			pP	22	18.60	20kmX
DZM	45.51	123	iPc	22	20.00	1.4
GUN	46.83	308	P	22	38.74	9.4X
	1.3s		130.00nm			5.7mb

PKI	47.05	307	P	22	30.32	-0.8
	1.2s		34.00nm			5.2mb
KKN	47.25	307	P	22	31.78	-0.7
	1.3s		54.00nm			5.4mb
DMN	47.31	307	P	22	32.80	-0.2
	1.2s		57.00nm			5.5mb
GKN	47.86	307	P	22	36.28	-0.9
	1.2s		64.00nm			5.5mb
KOD	49.49	282	eP	22	50.40	0.3
HYB	49.67	292	eP	22	51.70	0.6
GBA	49.99	286	P	22	53.00	-0.5
WMO	54.35	326	iPd	23	27.00	1.1
			sP	23	41.00	
QUE	63.12	303	eP	24	26.10	-1.2
BRW	84.24	18	eP	26	32.40	3.2X
IMA	84.40	24	eP	26	33.50	3.2X
S.D. = 1.0		on	29 of	35	obs.	

? FEB 02, 1991 16h 20m 05.92± 2.86s
35.143 N ±33.4km 26.240 E ± 8.7km
DEPTH = 10.0km (geophysicist)
CRETE (370)
MD 3.7 (ATH).

NPS	0.53	283	ePg	20	16.00	-0.6
			eSg	20	25.50	
KAP	0.87	62	ePg	20	22.50	-0.1
VAM	1.69	280	ePb	20	38.50	2.9X
APE	2.01	344	ePb	20	40.00	-0.2
VLI	3.11	301	ePn	20	56.80	0.9
S.D. = 1.1		on	4 of	5	obs.	

• FEB 02, 1991 16h 58m 31.39± 1.16s
24.891 N ±14.1km 124.331 E ±17.2km
DEPTH = 10.0km (geophysicist)
4.1mb (4 obs.)
SOUTHWESTERN RYUKYU ISLANDS (246)

SSE	6.78	336	eP	00	11.00	-2.3
Z	12s		0.50um			
N	10s		0.20um			
E	10s		0.50um			
XAN	16.21	308	eP	02	20.50	-0.3
TIY	16.31	324	eP	02	25.00	2.9X
CN2	18.89	3	Pc	02	55.80	1.7
Z	12s		0.30um			
N	12s		0.30um			
E	12s		0.20um			
			epP	03	03.50	
CD2	19.14	293	P	02	57.60	0.3
	1.0s		10.00nm			4.0mb
HHC	19.15	329	eP	02	58.80	1.3
BTO	19.71	326	eP	03	04.50	0.4
LZH	20.84	307	iPc	03	16.00	0.1
	2.0s		43.00nm			4.5mb
Z	15s		0.34um			3.8MszX
WRA	45.62	167	P	06	54.00	0.2
	0.9s		3.10nm			4.3mb
YKA	81.19	24	eP	10	47.10	-1.3
	0.7s		0.80nm			3.9mb
S.D. = 1.4		on	9 of	10	obs.	

? FEB 02, 1991 17h 39m 00.10± 0.96s
37.614 N ± 7.7km 14.862 E ± 9.5km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO	0.34	337	P	39	06.50	-0.8
			eSg	39	12.60	
MEU	0.52	174	P	39	10.30	-0.3
			eSg	39	20.50	
GIB	0.76	300	P	39	15.70	0.7
			eSg	39	27.50	
SOI	1.05	64	P	39	20.20	0.3
			eSg	39	33.20	
S.D. = 1.1		on	4 of	4	obs.	

• FEB 02, 1991 17h 47m 38.48± 1.11s
31.499 S ± 7.0km 71.996 W ±11.9km
DEPTH = 29.3 ± 6.9 km
5.1mb (4 obs.)
NEAR COAST OF CENTRAL CHILE (135)

IHA	1.55	169	iPc	48	04.40	0.0
			iS	48	06.40	
JACH	1.68	135	iPd	48	06.00	-0.3
			i	48	23.00	

02d 17h

PEL	1.98	146	iPc	48	10.60	-0.1
LCCH	2.00	170	iPc	48	10.10	-0.9
			iS	48	44.00	
SAN	2.25	150	iPc	48	14.60	0.1
			iS	48	42.50	
PCH	2.46	150	iPc	48	17.20	-0.3
			iS	48	50.00	
LNV	2.50	169	iPc	48	16.80	-1.2
			iS	48	46.40	
RTCB	2.73	91	iPc	48	24.00	2.6
RTCV	2.97	98	eP	48	27.80	3.1X
MDZ	3.00	118	iP	48	33.40	8.2X
			iS	49	05.40	
RTLL	3.02	88	iPd	48	27.10	1.6
CFA	3.21	93	eP	48	31.00	2.9X
			S	49	08.90	
RFA	4.41	139	iPc	48	45.00	-0.2
SLA	8.85	42	e(P)	49	46.00	-1.6
ARE	14.98	2	eP	51	18.00	7.8X
CNCB	15.07	15	P	51	13.80	2.1
LPB	15.32	14	P	51	20.00	5.3X
ZOBO	15.57	14	Pc	51	19.00	0.9
Z	20s		0.47um			
			LR	56	20.00	
SIV	18.37	35	P	51	50.00	-2.8
PPD	20.71	68	eP	52	16.20	-2.8
BAO	26.99	60	ePd	53	12.80	-7.1X
JFO	27.35	76	(P)	53	20.00	-3.1X
PDCR	35.65	65	(P)	54	30.00	-6.0X
SOB1	36.41	59	(P)	54	43.00	0.5
SPA	58.67	180	iPc	57	35.90	0.5
	1.1s		17.86nm		5.1mb	
LIC	73.96	72	Pc	59	12.48	-0.8
	0.7s		12.00nm		5.0mb	
TIC	74.21	72	P	59	13.90	-0.8
	0.9s		13.50nm		5.0mb	
KIC	74.27	72	Pc	59	14.44	-0.6
	0.7s		17.50nm		5.2mb	
YKA	99.70	341	eP	01	20.60	0.5
	0.6s		0.30nm		4.0mb X	
WRA	122.95	210	PKP	06	34.00	0.1
	0.5s		1.00nm			
KOD	144.68	120	ePKP	07	14.50	-0.5
OUE	144.87	81	ePKP	07	14.20	-0.6
POO	146.61	105	ePKP	07	19.00	1.2
GBA	146.79	115	PKPc	07	18.70	0.7
	1.0s		27.70nm			
HYB	149.86	111	ePKP	07	28.00	5.1X
	0.8s		19.23nm			
IPM	152.43	165	ePKPd	07	34.00	7.2X
S.D. = 1.4 on 26 of 36 obs.						

% FEB 02, 1991 17h 50m 42.31± 1.11s
37.918 N ±15.8km 14.933 E ± 9.9km
DEPTH = 33.0km (normol)
SICILY (398)

MNO	0.19	274	P	50	47.50	-1.6
			eSg	50	53.10	
GIB	0.72	276	P	50	56.50	0.4
			eSg	51	10.10	
MEU	0.82	180	P	50	56.80	-0.7
SOI	0.90	80	P	50	59.00	0.4
FAI	1.19	238	P	51	04.00	1.4
S.D. = 1.6 on 5 of 5 obs.						

? FEB 02, 1991 18h 40m 57.37± 3.53s
62.427 N ±26.9km 5.370 E ±21.5km
DEPTH = 10.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 2.9 (BER).

FRO	0.71	199	iPc	41	11.89	0.5
			eS	41	23.37	
FOO	0.85	191	iP	41	14.16	0.5
			eS	41	27.76	
MOL	1.02	81	eP	41	17.07	0.4
			eS	41	32.57	
HYA	1.32	163	eP	41	22.84	1.1
			eS	41	43.57	
SUE	1.41	192	eP	41	23.11	0.2
			eS	41	43.90	
ASK	1.95	183	eP	41	31.29	0.5
			eS	41	56.53	
ODD1	2.60	166	eP	41	39.90	-0.2
			eS	42	12.70	
KMY	3.23	181	eP	41	46.57	-2.4
			eS	42	27.24	
NRA0	3.40	117	Pn	41	49.70	-1.8
			Sg	42	44.60	
HFS	4.63	116	eP	42	10.20	1.3
	0.4s		0.50nm			
S.D. = 1.4 on 10 of 10 obs.						

FEB 02, 1991 19h 22m 44.78± 1.47s
1.500 N ± 7.9km 126.470 E ±10.4km
DEPTH = 69.4 ± 13.8 km
5.0mb (6 obs.)
MOLUCCA PASSAGE (266)

MNI	1.63	268	eP	23	11.30	-0.6
			eS	23	37.00	
TSM	8.81	288	ePc	24	53.50	1.6
KNA	17.29	173	eP	26	42.00	-1.2
WB2	22.67	160	eP	27	40.80	-0.5
			eS	31	53.00	
OIS	25.42	150	eP	28	09.00	1.3
ASPA	26.04	164	iPd	28	13.60	0.2
	0.9s		24.50nm		4.7mb	
WARB	27.52	180	eP	28	30.50	3.6X
CHG	32.00	304	eP	29	08.00	1.2
KMI	32.80	318	eP	29	14.00	0.0
XAN	36.30	335	P	29	43.00	-0.6
CD2	36.31	326	eP	29	43.00	-0.7
MAT	36.52	16	eP	29	45.00	-0.4
TIY	38.28	342	eP	29	58.40	-1.8
BRS	38.29	141	iPd	30	01.00	0.6
BJI	39.49	348	eP	30	10.00	-0.1
SNY	40.23	357	eP	30	17.90	1.7
LZH	40.30	331	iPd	30	16.50	-0.6
	1.5s		37.00nm		5.0mb	
Z	20s		0.29um		4.1Msz	
			pP	30	26.50	34kmX
LSA	43.74	313	Pc	30	45.80	0.1
GTA	44.88	330	eP	30	54.20	-0.1
	1.0s		10.00nm		4.6mb	
GUN	46.85	308	P	31	09.20	-1.2
	1.0s		46.00nm		5.4mb	
PKI	47.07	307	P	31	12.00	-0.1
KKN	47.27	307	P	31	13.40	-0.1
DMN	47.33	307	P	31	14.20	0.2
	1.0s		25.00nm		5.1mb	
GKN	47.87	307	P	31	18.20	0.0
	1.0s		32.00nm		5.2mb	
KOD	49.45	282	eP	31	30.70	0.0
HYB	49.66	292	eP	31	31.50	-0.4
GBA	49.96	286	P	31	34.00	-0.1
WMQ	54.40	326	Pc	32	08.60	1.5
OUE	63.12	303	eP	33	07.90	-0.1
YKA	101.62	25	ePdiff	36	42.50	12.0X
	0.9s		0.40nm			
S.D. = 0.9 on 28 of 30 obs.						

? FEB 02, 1991 21h 09m 20.65± 7.45s
40.038 N ±10.9km 19.461 E ±68.7km
DEPTH = 5.0km (geophysicist)
ALBANIA (391)
MD 2.9 (ATH).

KEK	0.42	141	ePg	09	29.00	0.0
			eSg	09	34.00	
OHR	1.48	43	ePn	09	48.00	0.0
KZN	1.79	81	ePb	09	52.50	0.0
EVR	2.13	121	ePn	09	57.50	0.0
S.D. = 0.0 on 4 of 4 obs.						

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* FEB 02, 1991 21h 15m 49.25± 0.97s
24.566 S ±11.4km 179.758 E ± 8.3km
DEPTH = 500.7 ± 10.2 km
4.9mb (5 obs.)
SOUTH OF FIJI ISLANDS (171)

SVA	6.53	349	eP	17	32.10	0.4
			eS	18	56.10	
VUN	6.64	349	eP	17	31.50	-1.3
DZM	12.48	279	iPd	18	36.40	2.3
WEL	17.19	193	P	19	22.00	0.7
			S	22	18.00	
AFR	29.23	82	iP	21	11.20	-0.2
	0.8s		30.00nm		4.9mb	
TVO	29.63	83	iP	21	14.60	-0.3
	0.8s		35.00nm		4.9mb	
PMG	34.51	290	eP	21	55.00	-1.2
ASPA	41.72	261	iPc	22	54.90	-0.2
	0.7s		9.40nm		4.4mb	
			iPcP	27	42.50	
			eS	28	30.10	
WB2	42.13	267	iPc	22	57.90	-0.5
			iScP	27	44.80	
			eS	28	36.00	
WARB	47.74	256	iPd	23	41.00	-0.8
NANU	58.42	258	eP	24	58.00	-0.4
SYP	81.97	46	eP	27	18.00	0.7
PRS	82.17	44	eP	27	18.50	0.4
GCC	82.21	43	eP	27	18.80	0.6
SAO	82.39	44	eP	27	19.60	0.4
PRI	82.50	45	eP	27	20.70	0.8
BRK	82.57	43	eP	27	20.50	0.5
BKS	82.59	43	eP	27	22.00	1.9
	0.7s		44.00nm		5.1mb	
LLA	82.62	44	eP	27	20.20	-0.1
MHC	82.62	43	eP	27	21.00	0.5
MWC	83.07	48	eP	27	22.00	-0.9
BAR	83.13	50	eP	27	23.00	0.0
PLM	83.38	49	eP	27	24.00	-0.5
RVR	83.40	48	eP	27	23.00	-1.3
SBB	83.50	47	eP	27	24.00	-0.9
FRI	83.63	45	ePc	27	25.20	-0.1
ISA	83.64	46	eP	27	26.00	0.5
CMB	83.83	43	iPc	27	26.20	-0.2
ORV	84.08	42	eP	27	27.40	-0.2
WDC	84.11	40	iPc	27	27.40	-0.3
CLC	84.31	47	eP	27	29.00	0.2
TPC	84.37	49	eP	27	29.00	-0.2
GSC	84.54	47	eP	27	30.00	0.0
GLA	84.62	50	eP	27	31.00	0.6
PNT	91.16	35	eP	28	00.00	-0.7
	0.8s		11.00nm		4.9mb	
QUE	120.83	292	ePKP	33	45.00	-0.9
FRB	121.33	29	ePKP	33	43.00	-2.5
PDCR	127.09	130	(PKP)	33	56.00	-2.1
SOB1	128.05	125	ePKP	34	01.10	1.1
NUR	140.17	341	ePKP	34	14.00	-7.3X
NB2	142.70	351	PKP	34	20.90	-4.9X
	0.9s		13.60nm			
HFS	143.15	348	ePKP	34	21.70	-4.8X
	0.5s		35.60nm			
GLH	147.58	293	ePKP	34	38.00	3.3X
EDR	147.63	2	ePKP	34	35.80	1.8
	0.6s		28.00nm			
JVI	147.91	291	ePKP	34	39.00	3.7X
EDU	147.99	3	ePKPc	34	36.90	2.3
	0.6s		30.00nm			
ELO	148.03	4	ePKPc	34	37.10	2.4
EBH	148.26	3	ePKP	34	37.60	2.6X
	0.7s		46.00nm			
EAB	148.27	4	ePKP	34	37.70	2.7X
	0.7s		37.00nm			
EDI	148.60	3	ePKP	34	38.30	2.8X
RMN	148.60	289	ePKP	34	40.00	3.5X
ESY	148.63	3	ePKPc	34	38.40	2.8X
EBL	148.76	3	ePKP	34	39.10	3.3X
EKA	149.19	3	PKP	34	40.00	3.5X
	1.2s		39.20nm			
KRA	150.11	333	iPKPc	34	42.40	4.4X
SPC	150.65	332	iPKP	34	43.70	4.6X
KSP	150.82	338	ePKP	34	39.00	-0.1
	0.7s		57.00nm			
			ic	34	44.60	
			e	36	46.00	
WIT	151.31	351	ePKP	34	46.00	6.3X
CLL	151.42	343	iPKP	34	45.50	5.6X
	1.1s		63.00nm			
CLL	151.42	343	iPKP	34	56.00	16.1X
			pPKP	36	46.00	
BRG	151.54	341	ePKP	34	39.30	-0.8
			i	34	45.80	
			i	34	52.80	
			i	34	56.60	
			ipPKP	36	47.80	
WTS	152.09	351	iPKPc	34	47.30	6.5X
	0.8s		31.00nm			
			e	34	59.00	
PRU	152.13	339	PKPc	34	47.00	6.0X
	0.8s		13.80nm			
			e	35	11.20	
MOX	152.39	344	ePKP	34	48.50	7.1X
			e	35	05.00	
SRO	152.53	332	ePKP	34	47.50	5.9X
ZST	152.72	334	ePKP	34	48.90	7.0X
BCAO	153.03	225	iPKPd	34	42.90	-0.5

0.2s 20.00nm
ic 34 50.80
id 35 04.90
KHC 153.19 340 ePKP 34 42.90 0.3
e 35 04.90
ENN 153.41 351 ePKP 34 50.00 7.3X
0.7s 13.00nm
e 35 04.50
LIC 161.19 165 PKP 34 52.74 -0.4
KIC 161.39 166 PKP 34 53.00 -0.3
TIC 161.60 165 PKP 34 53.32 -0.2
S.D. = 1.0 on 49 of 72 obs.

? FEB 02, 1991 21h 17m 26.43± 3.16s
39.502 N ±11.9km 142.749 E ±28.5km
DEPTH = 58.4 ± 18.3 km
4.1mb (2 obs.)
NEAR EAST COAST OF HONSHU, JAPAN(228)

OFUJ 0.94 244 P 17 43.20 -0.5
eS 17 52.80
AOMJ 2.11 301 eP 18 00.20 0.3
YAMJ 2.50 239 eP 18 05.20 -0.2
MAT 4.65 232 iPc 18 36.30 0.6
0.7s 26.03nm
(S) 19 29.00
GUN 47.99 274 P 26 02.80 1.0
KKN 48.51 274 P 26 05.20 -0.5
GKN 48.91 275 P 26 08.00 -0.6
WRA 59.65 189 P 27 27.00 0.2
0.7s 2.30nm 4.4mb
NB2 72.32 338 P 28 47.20 -0.1
0.9s 1.10nm 3.8mb
S.D. = 0.7 on 9 of 9 obs.

& FEB 02, 1991 22h 52m 44.90s
60.729 N 150.941 W
DEPTH = 46.9km
KENAI PENINSULA, ALASKA (14)
<AEIC>.

NKA 0.15 276 iP 52 54.20 3.3
SLKM 0.42 122 iP 52 54.73 -0.4
eS 53 03.24
SPU 0.71 310 iP 52 58.20 -0.6
iS 53 08.89
NNL 0.71 195 iP 52 59.21 0.4
SUA 0.74 7 iP 52 58.84 -0.5
eS 53 11.24
CRP 0.80 313 eP 52 59.98 -0.2
eS 53 12.04
CKL 0.83 305 eP 52 59.70 -0.8
iS 53 11.63
PMS 0.85 52 eP 53 00.24 -0.5
eS 53 12.47
BGL 0.89 308 eP 53 00.57 -0.7
eS 53 13.97
NCG 0.90 319 eP 53 01.10 -0.4
eS 53 14.16
REF 0.90 255 iP 53 00.72 -0.8
S 53 13.27
RDN 0.92 257 iP 53 00.72 -1.1
iS 53 13.46
RSO 0.93 254 iP 53 01.25 -0.8
iS 53 14.17
RS2 0.94 254 iP 53 01.26 -0.8
eS 53 13.54
RED 0.96 252 iP 53 01.36 -0.9
eS 53 14.81
BRLK 0.97 178 eP 53 01.71 -0.6
eS 53 14.62
SEW 0.97 130 eP 53 01.68 -0.6
eS 53 14.79
NCT 0.99 261 iP 53 01.83 -0.9
S 53 15.39
PWA 1.06 29 eP 53 03.64 0.1
CNPM 1.22 187 iP 53 05.02 -0.8
eS 53 20.51
PLRM 1.23 45 eP 53 05.60 -0.4
eS 53 20.86
SKT 1.29 348 eP 53 06.47 -0.3
eS 53 23.17
XLV 1.34 197 eP 53 07.20 -0.3
KNK 1.39 59 eP 53 07.87 -0.4
eS 53 26.05
GHO 1.43 42 eP 53 08.40 -0.5
eS 53 27.01
KNIM 1.63 102 eP 53 09.38 -2.2
CUT 1.71 11 eP 53 12.88 0.1
SYI 2.25 200 eP 53 19.82 -0.5
CDD 2.26 218 iP 53 20.19 -0.4
VLZ 2.29 78 eP 53 19.39 -1.5
MCNL 2.31 229 eP 53 20.34 -0.8
KLU 2.56 70 iP 53 22.84 -2.0
TOA 2.68 57 eP 53 28.59 2.0
33 obs. ossociated

% FEB 03, 1991 00h 30m 14.64± 3.39s
10.872 N ±15.0km 62.199 W ±32.8km
DEPTH = 33.0km (normal)
NEAR COAST OF VENEZUELA (97)
MD 3.5 (TRN).

TCE 0.47 112 eP 30 25.52 0.7
TRN 0.81 106 eP 30 30.40 0.8
eS 30 42.67
TPP 0.92 127 eP 30 31.73 0.5
eS 30 47.89
TBH 1.18 109 eP 30 35.28 0.4
eS 30 53.58
BOT 1.48 78 eP 30 39.76 0.5
SVB 2.56 21 eP 30 55.61 0.9
eS 31 34.42
SVV 2.61 21 eP 30 57.02 1.5
eS 31 35.62
SLB 3.15 21 eP 31 02.49 -0.6
eS 31 45.41
S.D. = 0.7 on 8 of 8 obs.

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* FEB 03, 1991 00h 37m 58.46± 0.84s
37.094 N ± 8.8km 29.538 E ± 6.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.2 (ATH).

ELL 0.46 139 iPg 38 07.50 -0.3
eSg 38 14.50
BCK 0.91 66 iPn 38 16.30 0.3
YER 1.00 273 ePn 38 18.40 0.9
KHL 1.23 359 ePn 38 21.30 0.0
CIN 1.26 294 eP 38 21.00 -0.9
S.D. = 0.9 on 5 of 5 obs.

& FEB 03, 1991 01h 41m 22.14s
61.037 N 150.138 W
DEPTH = 30.9km
SOUTHERN ALASKA (2)
<AEIC>. ML 3.0 (PMR).

PMS 0.35 53 iP 41 30.38 0.0
SUA 0.52 326 iP 41 32.54 -0.5
eS 41 41.32
SLKM 0.53 184 iP 41 32.33 -0.9
eS 41 40.55
NKA 0.61 242 eP 41 35.31 0.9
PWA 0.63 11 iP 41 33.80 -0.8
eS 41 43.30
PLRM 0.74 41 iP 41 34.96 -1.3
eS 41 45.78
PMR 0.74 41 iPd 41 35.50 -0.8
KNK 0.90 64 iP 41 37.49 -1.1
eS 41 49.65
GHO 0.94 38 iP 41 38.16 -1.1
eS 41 50.96
SPU 0.94 280 iP 41 38.30 -1.0
eS 41 51.41
CGLM 0.95 288 eP 41 38.89 -0.5
SEW 1.00 160 eP 41 38.63 -1.3
eS 41 51.86
CRP 1.01 284 eP 41 39.75 -0.5
NCG 1.04 292 iP 41 40.13 -0.7
eS 41 54.10
CKL 1.08 279 iP 41 40.51 -0.8
BGL 1.12 283 iP 41 41.18 -0.6
eS 41 56.72
NNL 1.15 210 eP 41 42.15 0.0
SKT 1.16 325 iP 41 41.83 -0.5
eS 41 57.75
BRLK 1.33 197 iP 41 43.84 -0.9
eS 42 00.45
KNIM 1.37 119 eP 41 42.83 -2.5
REF 1.37 248 iP 41 44.67 -0.9
CUT 1.37 357 eP 41 44.83 -0.5
eS 42 02.77
RDN 1.39 249 eP 41 44.57 -1.2
eS 42 02.35
RSO 1.41 247 eP 41 45.12 -0.9
eS 42 03.40
RS2 1.41 247 eP 41 45.17 -0.9
RED 1.44 246 iP 41 45.40 -0.9
NCT 1.45 252 iP 41 45.70 -0.9
GLI 1.49 95 iP 41 45.03 -2.1
HOM 1.57 209 eP 41 47.90 -0.3
CNPM 1.61 200 iP 41 47.88 -1.0
MTU 1.62 129 eP 41 48.77 -0.1
VZW 1.74 88 eP 41 49.13 -1.6
XLV 1.77 207 eP 41 50.17 -1.3
VLZ 1.85 85 eP 41 50.69 -1.6
HIN 1.90 108 eP 41 50.27 -2.7
HUR 1.96 7 eP 41 54.09 0.2
KLU 2.09 76 iP 41 53.88 -1.9
TOA 2.18 59 iPc 41 56.90 -0.1
CVA 2.21 101 eP 41 54.42 -2.9
AUH 2.35 226 eP 41 58.48 -1.0
AUI 2.37 225 eP 41 59.58 -0.1
PDB 2.37 240 eP 41 58.63 -1.1
TRF 2.42 358 eP 42 01.13 0.5
RND 2.45 14 eP 42 00.84 -0.1
TZL 2.47 64 eP 42 00.37 -0.8
SGAM 2.48 100 eP 41 58.05 -3.2
MID 2.49 129 eP 42 04.90 3.5
SDG 2.65 54 eP 42 02.72 -0.9
SVW 2.67 274 ePc 42 03.00 -0.9
SYI 2.69 206 eP 42 02.60 -1.5
CDD 2.75 221 eP 42 03.97 -1.1
MCK 2.76 11 eP 42 05.67 0.4
RAGM 2.76 101 eP 42 01.89 -3.4
MCNL 2.81 230 eP 42 04.00 -1.8
PAX 2.94 47 eP 42 06.75 -1.0
HMT 2.98 101 eP 42 04.63 -3.7
GLB 3.09 80 eP 42 07.40 -2.5
TTA 3.36 307 ePc 42 12.60 -1.2
WRH 3.57 14 eP 42 15.36 -1.4
WAX 3.63 96 eP 42 13.70 -3.9
BALM 3.79 87 eP 42 17.05 -2.9
FBA 4.02 14 eP 42 22.30 -0.8
MDM 4.03 12 eP 42 22.28 -1.0
IMA 5.29 344 eP 42 40.30 -0.9
YKA 16.75 69 eP 45 10.70 -4.9
0.5s 0.10nm 2.2mb
65 obs. associated

? FEB 03, 1991 02h 00m 16.49± 2.67s
16.326 N ±25.8km 60.979 W ±24.5km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)
ML 1.8 (FDF).

DEG 0.08 260 eP 00 22.29 0.0
S 00 24.70
SFG 0.22 251 eP 00 23.20 -0.1
SEG 0.51 279 eP 00 27.25 0.0
S 00 34.10
DOG 0.68 245 eP 00 29.50 -0.2
PAG 0.74 246 eP 00 30.70 0.2
S 00 40.20
S.D. = 0.2 on 5 of 5 obs.

FEB 03, 1991 02h 11m 28.23± 1.39s
9.099 S ± 5.9km 125.443 E ± 8.9km
DEPTH = 72.3 ± 15.2 km
5.0mb (8 obs.)
TIMOR (289)

MKS 7.07 303 ePc 13 11.70 0.5
KNA 7.36 154 iPd 13 15.40 0.1
0.7s 122.00nm 5.7mb X
eS 14 39.00
MBL 13.15 204 eP 14 29.00 -4.5X
0.4s 15.00nm 5.0mb X
WB2 13.80 142 iPc 14 40.10 -1.9
eS 17 08.00
NANU 16.42 214 eP 15 17.00 1.4
JAY 16.52 68 ePc 15 24.00 7.0X
ASPA 16.59 152 iPc 15 17.50 -0.3
0.6s 31.70nm 4.7mb
eS 18 15.90
WARB 17.03 176 eP 15 21.70 -1.5
0.5s 21.00nm 4.6mb
QIS 17.79 131 ePd 15 34.60 1.9
MEKA 18.61 200 eP 15 41.00 -1.6

03d 02h

MRWA	21.89	203	eP	16	17.00	0.3
BAL	22.90	200	eP	16	27.00	0.4
KLB	23.49	197	eP	16	33.30	0.9
MUN	24.33	199	eP	16	41.00	0.5
NWAO	24.90	197	eP	16	47.00	1.1
BFD	31.95	154	eP	17	57.00	7.6X
BDT	36.99	315	eP	18	33.00	0.4
CHG	38.11	317	eP	18	43.00	0.9
GYA	39.77	333	P	18	57.20	1.2
CD2	44.89	333	eP	19	37.70	0.2
XAN	45.68	341	P	19	43.00	-0.7
TIY	48.13	346	eP	20	02.50	-0.5
LZH	49.33	337	iPc	20	12.50	0.1
	1.5s		31.00nm			5.1mb
			pP	20	20.50	27kmX
			sP	20	27.50	
BJI	49.64	351	eP	20	14.00	-0.4
CN2	52.65	0	eP	20	37.60	0.5
GBA	52.72	295	P	20	38.00	-0.1
GUN	53.09	315	P	20	39.88	-1.2
	0.7s		29.00nm			5.4mb
PKI	53.21	315	P	20	40.78	-1.1
	0.4s		9.00nm			5.1mb
KKN	53.43	315	P	20	42.64	-0.8
	0.8s		18.00nm			5.2mb
DMN	53.44	314	P	20	42.54	-1.0
MDJ	53.59	4	eP	20	45.00	1.0
GTA	53.81	335	eP	20	46.40	0.5
	1.2s		10.00nm			4.7mb
GKN	54.01	314	P	20	46.18	-1.4
	0.6s		19.00nm			5.3mb
WMO	62.82	330	P	21	49.80	1.2
QUE	68.39	307	eP	22	24.00	-0.8
YKA	111.60	26	ePKP	30	01.20	5.6X
	0.5s		0.40nm			
PPD	148.90	186	ePKP	31	12.70	6.7X
NNA	149.51	133	ePKP	31	14.00	6.9X
	1.0s		11.00nm			
CNCB	151.04	153	ePKP	31	18.00	8.0X
			i	31	22.60	
LPB	151.22	152	PKP	31	18.00	7.9X
ZOBO	151.44	152	PKP	31	18.00	7.4X
	1.0s		10.00nm			
SIV	154.25	165	(PKP)	31	28.00	14.1X

S.D. = 1.0 on 32 of 42 obs.

FEB 03, 1991 03h 20m 18.66± 0.39s
44.740 N ± 2.8km 6.800 E ± 5.8km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.3 (GEN), 2.0 (LDG).

RRL	0.18	356	P	20	22.25	-0.6
			S	20	25.73	
FOUF	0.21	184	ePgd	20	22.16	-1.1
			i	20	22.26	
			e(Sg)	20	24.19	
PZZ	0.32	137	P	20	25.73	0.4
			S	20	31.61	
BNI	0.32	344	P	20	27.50	2.0
			eSg	20	31.50	
RSP	0.52	38	P	20	29.73	0.4
			S	20	37.42	
STV	0.62	143	P	20	31.06	-0.2
			S	20	41.01	
ENR	0.68	139	P	20	32.11	-0.1
			S	20	42.38	
LPG	0.76	357	Pg	20	33.20	-0.5
			Sg	20	44.10	
LSD	0.76	19	P	20	32.84	-0.9
			S	20	43.57	
LPL	0.78	356	Pg	20	33.70	-0.3
			Sg	20	44.80	
SBF	0.99	152	Pg	20	37.40	-0.1
			Sg	20	55.20	
FRF	1.18	185	Pg	20	41.20	0.4
			Sg	20	59.80	
CDR	1.30	215	eP	20	42.30	-0.4
			e	20	42.80	
			e	20	43.10	
			e	20	59.10	
LRG	1.32	194	Pg	20	43.40	0.3
			Sg	21	03.80	
LMR	1.42	189	Pg	20	45.50	1.0
			Sg	21	06.30	
BGF	3.32	305	Pn	21	11.10	-0.5
			Pg	21	20.60	

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

& FEB 03, 1991 03h 58m 25.90s
40.335 N 124.610 W
DEPTH = 21.0km
NEAR COAST OF NORTHERN CALIF. (35)
<BRK>. ML 3.6 (BRK).

FHC	0.67	45	iPc	58	38.03	-0.7
WDC	1.60	81	ePc	58	51.23	-2.0
LTCM	1.91	93	eP	58	55.50	-2.1
MIN	2.30	89	ePc	59	01.03	-2.4
LBFM	2.30	63	eP	59	02.00	-1.5
NWRM	2.30	144	eP	59	00.80	-2.5
ORV	2.51	107	ePc	59	04.43	-1.9
			eS	59	32.80	
BRK	3.06	143	eP	59	11.20	-2.9
BKS	3.07	142	eP	59	11.30	-3.0
PCC	3.32	148	eP	59	14.70	-3.1
MHC	3.78	141	eP	59	21.60	-2.9
ARN	3.83	140	eP	59	22.50	-2.5
GCC	3.88	147	eP	59	22.30	-3.4
CMB	4.01	124	eP	59	26.80	-0.7
KVN	5.18	102	eP	59	42.00	-2.4

15 obs. associated

FEB 03, 1991 04h 26m 37.08± 0.49s
11.829 N ±10.0km 87.208 W ± 9.3km
DEPTH = 33.0km (normal)
4.4mb (10 obs.)
NEAR COAST OF NICARAGUA (74)

DVD	5.77	125	ePd	28	05.10	2.4
			i	28	12.80	
UPA	8.06	110	eP	28	34.50	-0.3
OXX	10.59	301	(P)	29	10.00	0.1
IISM	12.11	307	eP	29	30.00	-0.3
IIT	12.87	305	(P)	29	41.00	0.3
PPM	13.15	305	(P)	29	45.00	0.4
III	13.50	300	(P)	29	49.50	0.4
RSCP	23.71	3	P	31	49.00	2.0
MEO	25.08	337	iPc	32	01.20	1.0
TUL	25.20	343	iPd	32	01.00	-0.3
	0.8s		55.88nm			5.2mb
			i	32	03.40	
			i	32	09.70	
FVM	26.20	354	P	32	08.40	-2.2
CBN	27.70	17	eP	32	27.00	2.8
ALO	28.90	326	eP	32	35.00	-0.4
	0.9s		3.57nm			4.1mb
GOL	32.08	333	P	33	03.00	-0.6
	0.7s		2.43nm			4.2mb
PV09	32.97	327	P	33	11.00	-0.4
ZOBO	33.70	146	P	33	18.00	-0.2
LPB	33.93	146	P	33	18.00	-2.0
CNCB	34.22	146	P	33	23.00	0.3
PLM	34.55	313	P	33	26.50	1.5
PEC	35.05	314	P	33	30.00	0.9
RSSD	35.29	339	P	33	31.60	0.4
	0.9s		6.51nm			4.6mb
BW06	36.44	332	P	33	39.50	-1.4
	0.8s		2.98nm			4.2mb
TNP	37.43	320	P	33	49.80	0.5
	0.7s		1.89nm			4.1mb
SIV	37.85	136	Pc	33	52.60	-0.2
LRM	40.11	332	eP	34	11.80	0.2
NEW	44.06	331	P	34	44.50	0.9
	0.7s		8.00nm			4.6mb
FFC	44.35	348	eP	34	46.00	0.2
	1.6s		37.00nm			5.0mb
SCH	45.80	16	eP	34	57.00	-0.4
PNT	45.98	331	eP	34	59.00	0.1
	0.7s		6.00nm			4.6mb
BAQ	47.45	124	ePd	35	06.00	-5.1X
PPD	48.71	134	eP	35	16.40	-4.2X
FRB	53.49	10	eP	35	54.00	-2.2
YKA	54.27	345	eP	36	00.00	-2.0
	1.3s		3.40nm			4.2mb
MBC	66.66	352	eP	37	25.00	-1.3
XAN	131.87	342	PKP	46	01.60	12.4X
CD2	136.22	346	PKP	46	03.10	5.5X
	1.1s		12.00nm			
GBA	150.50	32	PKP	46	28.40	6.1X
KOD	153.31	35	ePKP	46	36.00	9.2X

S.D. = 1.3 on 32 of 38 obs.

FEB 03, 1991 04h 39m 12.18± 1.61s
2.267 N ± 7.6km 126.504 E ±12.4km
DEPTH = 98.0 ± 14.5 km
4.8mb (12 obs.)
MOLUCCA PASSAGE (266)

MNI	1.85	244	eP	39	43.50	0.2
			eS	40	15.00	
TSM	8.64	283	ePc	41	20.50	4.3X
WB2	23.38	161	iPd	44	12.60	-0.4
QIS	26.07	151	iPd	44	37.90	-0.5
ASPA	26.76	165	eP	44	44.20	-0.6
	0.4s		9.00nm			4.7mb
WARB	28.28	180	iPd	44	59.50	1.1
	0.3s		4.00nm			4.5mb
MEKA	29.73	194	eP	45	12.00	0.6
BDT	30.85	301	eP	45	21.00	-0.3
CHG	31.60	303	ePd	45	28.00	0.0
	0.8s		15.49nm			4.8mb
			e	46	24.70	
FORR	32.97	177	eP	45	39.00	-0.6
TIY	37.57	342	eP	46	17.40	-1.4
BJI	38.75	347	eP	46	29.00	0.5
	1.0s		14.00nm			4.8mb
SNY	39.47	357	eP	46	33.90	-0.5
LZH	39.65	331	iPc	46	37.00	0.8
	1.5s		23.00nm			4.8mb
GUN	46.41	307	P	47	31.94	0.6
	0.7s		45.00nm			5.4mb
PKI	46.64	307	P	47	32.74	-0.4
	0.8s		10.00nm			4.7mb
KKN	46.84	307	P	47	34.54	0.0
	0.8s		21.00nm			5.0mb
DMN	46.90	307	P	47	35.24	0.2
	0.8s		28.00nm			5.1mb
GKN	47.44	307	P	47	39.20	0.0
	0.9s		28.00nm			5.1mb
GBA	49.78	286	Pc	47	56.20	-0.9
	0.7s		5.40nm			4.7mb
YKA	100.91	24	ePdiff	52	52.90	1.5
	0.4s		0.10nm			3.8mb

S.D. = 0.8 on 20 of 21 obs.

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* FEB 03, 1991 04h 49m 57.64± 1.56s
21.643 S ±13.4km 66.343 W ±15.1km
DEPTH = 33.0km (normal)
SOUTHERN BOLIVIA (125)

ANT	4.28	241	iPd	51	02.20	0.0
CNCB	5.05	342	iPc	51	14.80	1.2
			S	52	11.00	
LPB	5.35	342	Pc	51	16.90	-0.8
	1.0s		80.00nm			5.2mb
ZOBO	5.60	342	iPc	51	21.00	-0.4
			S	52	22.00	
SIV	7.52	42	P	51	47.80	0.0

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

FEB 03, 1991 06h 00m 27.76± 0.83s
29.566 S ± 4.9km 71.638 W ±10.5km
DEPTH = 46.9 ± 9.9 km
4.6mb (8 obs.)
NEAR COAST OF CENTRAL CHILE (135)

RTCB	3.11	129	ePd	01	17.10	1.5
JACH	3.23	164	iPd	01	18.50	1.2
			i	01	56.60	
RTLL	3.25	124	ePc	01	13.20	-4.4X
ROCH	3.44	171	iPc	01	20.30	-0.1
			i	02	09.20	
IHA	3.45	180	eP	01	19.50	-0.8
			iS	02	13.50	
RTCV	3.52	131	e(P)	01	23.00	1.7
CFA	3.57	126	ePc	01	22.90	0.8
			S	02	04.90	
PEL	3.66	167	eP	01	23.60	0.2
			i	01	26.00	
			iS	02	07.00	
LCCH	3.90	179	iPc	01	25.50	-1.2
			i	02	22.00	
SAN	3.96	168	eP	01	28.00	0.3
			i	02	18.00	
MDZ	4.08	145	eP	01	47.30	18.0X
			iS	02	22.10	
			i	02	38.90	
TACH	4.12	172	iPc	01	29.30	-0.5
			iS	02	17.00	
PCH	4.15	167	iPd	01	30.70	0.3

			iS	02	20.00	
LNV	4.38	178	iPc	01	31.60	-1.9
			iS	02	22.00	
			iS	02	36.50	
RFA	5.84	153	ePd	01	53.20	-1.0
SLA	7.29	50	e(P)	02	13.50	-1.0
ARE	13.04	1	eP	03	33.00	0.0
CNCB	13.13	16	P	03	35.00	0.6
LPB	13.37	15	eP	03	39.00	1.5
ZOBO	13.62	14	P	03	41.00	0.1
Z	20s	0.42um				
			S	07	17.00	
			LR	08	10.00	
SIV	16.64	38	eP	04	17.00	-2.3
			i	04	20.20	
NNA	18.15	343	eP	04	39.00	0.9
	0.9s	7.56nm			3.8mb	
PPD	19.76	72	eP	04	47.00	-9.8X
			e	04	54.80	
BAO	25.79	63	eP	05	48.50	-7.8X
PDCR	34.59	68	(P)	07	12.00	-2.4
RSCP	66.13	348	P	11	09.50	-2.8
TUL	68.98	339	iPc	11	29.20	-1.0
	0.8s	16.60nm			5.0mb	
FVM	69.46	344	P	11	32.30	-0.8
	0.8s	32.58nm			5.3mb	
ALQ	72.08	330	eP	11	49.30	0.1
	1.1s	5.38nm			4.4mb	
GOL	75.72	334	P	12	10.70	0.4
	0.7s	3.40nm			4.4mb	
PV09	76.23	331	P	12	13.90	0.6
PEC	76.39	322	P	12	15.30	1.3
RSSD	79.09	337	P	12	29.20	0.3
TNP	79.65	325	P	12	33.20	1.2
	0.8s	4.85nm			4.5mb	
BW06	79.99	333	P	12	34.00	0.3
	1.2s	7.99nm			4.5mb	
BCAO	92.31	86	ePd	13	35.30	0.6
	0.3s	5.00nm			5.4mb	
WRA	124.77	210	PKP	19	24.00	-0.5
	0.5s	0.90nm				
KOD	145.34	117	ePKP	20	03.80	0.7
GBA	147.29	112	PKP	20	07.50	1.7
HYB	150.20	107	ePKP	20	15.80	5.4X
S.D. = 1.2		on	35 of	40	obs.	

FEB 03, 1991 06h 26m 00.07± 0.63s
15.210 N ± 2.9km 60.701 W ± 6.6km
DEPTH = 27.3 ± 4.3 km
LEEWARD ISLANDS (92)
ML 3.3 (FDF). MD 3.6 (TRN).

CRM	0.50	205	iPc	26	10.25	-0.1
DBCT	0.63	276	eP	26	12.70	0.1
			eS	26	20.11	
FDF	0.64	223	iPc	26	12.34	-0.4
	0.1s	3.20nm				
			S	26	20.70	
DSVT	0.65	272	eP	26	12.57	-0.2
			eS	26	19.95	
DPMT	0.66	274	eP	26	13.31	0.3
			eS	26	20.72	
MVM	0.68	196	iPc	26	13.15	-0.1
MDN	0.68	279	eP	26	13.42	0.1
			eS	26	20.88	
BIM	0.78	207	iPc	26	14.49	-0.5
			S	26	24.70	
BBL	0.81	293	iPc	26	15.35	-0.2
			S	26	24.80	
SFG	1.14	335	eP	26	20.00	-0.3
DEG	1.15	343	ePc	26	20.06	-0.4
			S	26	34.50	
DOG	1.20	313	ePc	26	21.27	0.1
			S	26	35.90	
SLW	1.20	191	eP	26	20.97	-0.2
			eS	26	37.64	
PAG	1.25	311	eP	26	21.84	0.0
			S	26	36.80	
SLB	1.41	193	eP	26	24.36	0.1
			eS	26	42.62	
SEG	1.42	327	ePc	26	24.63	0.5
			S	26	42.60	
SVV	1.95	195	eP	26	32.38	0.5
			eS	26	56.31	
SVB	2.00	196	eP	26	33.14	0.5
			eS	26	57.73	
S.D. = 0.3		on	18 of	18	obs.	

FEB 03, 1991 06h 31m 48.10± 0.54s
41.648 N ± 8.0km 81.106 E ± 8.7km
DEPTH = 10.0km (geophysicist)
4.6mb (8 obs.)
SOUTHERN XINJIANG, CHINA (321)
ML 4.1 (BJI).

WMO	5.32	64	ePn	33	09.60	0.1
NDI	13.32	195	eP	35	05.00	5.3X
GKN	13.92	167	P	35	06.20	-1.6
GUN	14.25	163	P	35	10.80	-1.6
GTA	14.41	93	eP	35	13.80	-0.3
	1.0s	10.00nm			4.4mb	
XAN	23.17	100	P	36	55.00	-0.7
HYB	24.25	186	eP	37	07 50	1.3
TIY	24.36	89	Pd	37	07.60	0.4
GYA	25.91	118	P	37	23.60	1.5
CHG	27.38	141	eP	37	37.20	1.7
HFS	44.17	318	eP	39	58.60	0.3
	0.7s	6.60nm			4.6mb	
NB2	45.27	320	P	40	07.60	0.4
	0.5s	4.10nm			4.6mb	
MBC	61.66	5	ePd	42	07.40	-0.4
	0.6s	5.00nm			4.9mb	
BCAO	66.73	254	ePd	42	41.90	0.2
	0.3s	5.00nm			5.2mb	
YKA	75.44	7	eP	43	31.80	-1.6
	0.6s	0.80nm			4.0mb	
WRA	78.61	130	P	43	56.00	4.4X
	0.8s	3.40nm			4.5mb	
WB2	78.62	130	eP	43	52.00	0.3
ASPA	81.30	132	eP	44	06.20	0.2
	0.8s	5.50nm			4.7mb	
S.D. = 1.1		on	16 of	18	obs.	

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* FEB 03, 1991 06h 40m 41.70± 0.90s
22.538 S ± 9.7km 68.734 W ±13.1km
DEPTH = 120.4 ± 14.4 km
3.9mb (1 obs.)
NORTHERN CHILE (123)

ANT	1.94	233	iPd	41	14.80	0.0
			iS	41	38.20	
CNCB	5.74	7	P	42	06.00	-0.5
LPB	6.00	6	P	42	10.00	0.1
ZOBO	6.26	5	P	42	14.00	0.4
SIV	9.73	49	P	42	54.40	-5.6X
PPD	16.14	92	eP	44	22.90	0.0
			e	44	25.40	
YKA	92.21	341	eP	53	38.40	0.0
	0.7s	0.50nm			3.9mb	
S.D. = 0.4		on	6 of	7	obs.	

? FEB 03, 1991 07h 52m 10.0B± 2.15s
16.518 N ±23.1km 81.851 E ±23.7km
DEPTH = 10.0km (geophysicist)
INDIA (314)

GBA	5.15	236	P	53	29.00	-0.1
			S	54	32.00	
POO	7.89	286	eP	54	08.00	0.3
DMN	11.44	15	P	54	56.40	-0.4
PKI	11.48	16	P	54	58.20	0.7
KKN	11.66	15	P	54	59.80	0.1
GKN	11.72	12	P	54	58.60	-1.9
GUN	11.93	17	P	55	05.00	1.4
S.D. = 1.3		on	7 of	7	obs.	

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* FEB 03, 1991 08h 01m 20.64± 0.66s
40.201 N ±10.3km 51.571 E ±11.2km
DEPTH = 33.0km (normol)
4.6mb (10 obs.)
CASPIAN SEA (338)

TAB	4.60	244	eP	02	36.00	6.2X
SRO	24.96	299	eP	06	57.70	15.5X
ZST	25.80	300	eP	06	51.60	1.4
			e	07	05.80	
NUR	26.28	330	iP	06	54.40	-0.1
	0.7s	13.30nm			4.7mb	
KAF	26.73	334	eP	07	00.40	1.8
SOD	30.50	341	eP	07	32.00	-0.5
HFS	30.77	323	eP	07	34.10	-0.8
	0.4s	7.30nm			4.8mb	
NB2	32.25	324	P	07	47.10	-0.8
	0.6s	2.70nm			4.3mb	
KEV	32.31	344	eP	07	37.00	-11.2X
CDF	32.36	300	eP	07	48.40	-0.7
HAU	33.00	299	eP	07	54.10	-0.5
	0.8s	8.05nm			4.7mb	
LBF	34.69	297	eP	08	09.00	-0.2
	0.9s	7.35nm			4.6mb	
LOR	34.74	298	eP	08	09.20	-0.4
	0.9s	6.55nm			4.6mb	
SMF	34.82	297	eP	08	10.70	0.4
GBA	34.88	132	P	08	11.00	0.0
SSF	35.00	298	eP	08	11.80	0.0
AVF	35.14	297	eP	08	12.30	-0.7
	0.9s	7.35nm			4.6mb	
MAF	35.75	296	eP	08	18.10	-0.1
TCF	35.99	296	eP	08	20.20	0.0
LSF	36.46	296	eP	08	23.70	-0.5
	0.9s	6.55nm			4.5mb	
LFF	37.23	294	eP	08	30.90	0.3
EKA	38.71	312	P	08	44.00	1.1
	0.5s	3.20nm			4.4mb	
BCAO	46.40	229	ePd	09	59.00	13.1X
	0.2s	6.00nm				
KIC	60.46	252	P	11	29.70	0.1
LIC	60.76	252	P	11	32.00	0.3
	0.6s	4.50nm			4.8mb	
FRB	66.11	335	eP	12	06.00	-0.2
YKA	77.05	353	eP	13	16.50	5.0X
	0.6s	0.30nm			3.5mb	X
S.D. = 0.7		on	22 of	27	obs.	

? FEB 03, 1991 08h 16m 30.44± 1.97s
16.034 N ±16.8km 61.354 W ±10.2km
DEPTH = 10.0km (geophysicist)
LEEWARD ISLANDS (92)
ML 1.1 (FDF).

DOG	0.25	269	eP	16	36.00	0.2
			S	16	39.20	
PAG	0.31	269	eP	16	36.80	-0.2
			S	16	40.50	
SEG	0.39	338	eP	16	38.50	0.0
			S	16	43.50	
DEG	0.40	46	eP	16	38.57	0.0
			S	16	44.10	
S.D. = 0.2		on	4 of	4	obs.	

? FEB 03, 1991 08h 46m 17.86± 2.34s
2.928 S ±26.5km 138.443 E ±18.2km
DEPTH = 33.0km (normol)
4.2mb (1 obs.)
WEST IRIAN (201)

PMG	10.79	127	eP	48	52.00	-1.2
MTN	12.23	216	eP	49	11.50	-1.2
			eS	51	31.00	
WB2	17.38	193	eP	50	19.50	-0.1
			eS	53	30.00	
QIS	17.56	176	eP	50	24.00	2.1
ASPA	21.08	192	iPc	51	01.50	-0.4
	0.6s	6.30nm			4.2mb	
			eS	54	58.80	
ZOBO	147.55	127	PKP	06	00.00	0.7
S.D. = 1.6		on	6 of	6	obs.	

FEB 03, 1991 09h 20m 59.98± 0.25s
26.694 N ± 5.4km 44.487 W ± 3.8km
DEPTH = 10.0km (geophysicist)
5.0mb (39 obs.) 4.6Msz (3 obs.)
NORTH ATLANTIC RIDGE (403)

MIM	26.99	320	P	26	50.00	6.3X
RSNY	29.99	314	P	27	13.20	2.3
BLA	32.07	298	eP	27	30.10	0.8
	1.2s	46.88nm			5.3mb	
SOB1	35.86	174	eP	28	03.50	1.5
PDCR	39.34	172	(P)	28	30.00	-1.2
EPF	39.73	54	eP	28	34.70	0.3
LPF	39.90	46	eP	28	35.70	0.1
	1.1s	34.20nm			4.9mb	
MFF	40.11	48	eP	28	37.70	0.3
	1.4s	52.30nm			5.0mb	
GRR	40.12	46	eP	28	37.40	0.0
FRB	40.23	344	eP	28	38.00	0.0
LFF	40.35	51	eP	28	39.40	0.0
	1.2s	44.65nm			5.0mb	
FLN	40.47	45	eP	28	40.10	-0.1
LPO	40.62	52	eP	28	41.70	0.1

03d 09h

LDF	40.65	45 eP	28 41.70	0.0	
	1.2s	26.80nm		4.8mb	
RJF	40.96	51 eP	28 44.20	-0.2	
LSF	41.16	49 eP	28 45.80	-0.2	
	1.4s	50.10nm		5.1mb	
CAF	41.28	51 eP	28 46.90	-0.1	
	1.1s	14.65nm		4.6mb	
EKA	41.36	35 P	28 49.00	1.5	
	1.5s	26.90nm		4.8mb	
TCF	41.63	49 eP	28 49.90	0.0	
	1.0s	12.00nm		4.6mb	
TIC	42.49	111 P	28 56.46	-0.8	
AVF	42.50	49 eP	28 57.00	0.0	
	1.3s	25.25nm		4.8mb	
SSF	42.66	49 eP	28 58.20	-0.1	
	1.0s	20.00nm		4.8mb	
LIC	42.71	111 P	28 59.10	0.1	
Z	20s	0.65um		4.5Msz	
SMF	42.81	49 eP	28 59.50	0.0	
	1.1s	32.95nm		5.0mb	
KIC	42.87	111 P	29 00.50	0.1	
	1.3s	33.50nm		4.9mb	
LOR	42.94	48 eP	29 00.20	-0.4	
	1.5s	31.35nm		4.8mb	
LBF	42.96	49 eP	29 00.40	-0.4	
	1.1s	15.85nm		4.7mb	
TUL	44.36	295 ePd	29 10.70	-1.6	
	1.2s	32.80nm		5.1mb	
Z	20s	0.65um		4.5Msz	
		LR	41 39.50		
BNI	44.53	52 P	29 17.50	3.8X	
LPL	44.63	51 eP	29 15.20	0.6	
	1.0s	8.00nm		4.6mb	
LPG	44.64	51 eP	29 15.40	0.7	
HAU	44.72	48 eP	29 14.40	-0.7	
BSF	44.99	48 eP	29 16.60	-0.7	
SIV	45.39	203 P	29 19.40	-1.2	
CDF	45.40	47 eP	29 20.10	-0.5	
	1.1s	22.00nm		5.0mb	
ABH	45.83	45 eP	29 24.42	0.6	
VAI	46.08	51 Pd	29 28.30	2.5	
SQTA	47.89	49 iPd	29 40.60	0.4	
	1.2s	34.30nm		5.3mb	
		i	29 46.50		
		i	30 02.00		
CTI	48.10	51 P	29 43.90	2.0	
GRF	48.16	46 iPd	29 41.80	-0.4	
	1.2s	19.00nm		5.1mb	
		e	29 48.30		
ZOBO	48.49	211 P	29 44.70	-1.0	
	1.1s	20.30nm		5.1mb	
		S	37 00.00		
		LR	44 20.00		
MOX	48.53	45 ePc	29 45.50	0.5	
HOF	48.65	45 iPc	29 46.30	0.3	
LPB	48.71	211 P	29 45.00	-2.2	
	1.1s	50.63nm		5.5mb	
CNCB	48.90	210 eP	29 35.00	-13.8X	
		i	29 48.00		
FVI	48.92	50 P	29 49.90	1.9	
WET	49.17	47 iPc	29 50.00	0.0	
	1.2s	24.00nm		5.1mb	
CLL	49.49	44 iPc	29 52.30	0.0	
KHC	49.63	47 P	29 53.30	-0.2	
	1.2s	15.00nm		4.9mb	
VOY	49.66	51 eP	29 54.00	0.1	
FFC	49.99	320 eP	29 55.50	-0.7	
	1.1s	52.00nm		5.4mb	
CEY	50.03	52 eP	29 56.50	-0.1	
BRG	50.03	45 iP	29 56.20	-0.3	
	1.5s	26.00nm		5.0mb	
LJU	50.11	51 e(P)	29 57.00	-0.2	
PRU	50.32	46 eP	29 58.00	-0.8	
		e	30 05.40		
		e	30 42.70		
NB2	50.53	31 P	30 00.10	-0.1	
	0.9s	9.90nm		4.8mb	
VBY	50.60	52 e(P)c	30 01.40	0.4	
PTJ	51.10	51 eP	30 04.00	-0.8	
HFS	51.47	33 eP	30 06.20	-1.1	
	0.9s	14.20nm		4.9mb	
KSP	51.51	45 eP	30 07.60	-0.2	
		e	30 13.50		
GOL	51.68	301 P	30 11.00	5	
ZST	51.91	48 eP	30 09.90	-0	
SRO	52.72	49 eP	30 15.40	-1.5	
UZD	52.91	50 e(P)	30 19.00	0.6	
ALQ	53.12	295 eP	30 20.70	0.4	
	1.3s	14.42nm		4.8mb	
Z	18s	0.86um		4.8Msz	
BUD	53.20	49 e(P)	30 20.00	-0.5	
KRA	53.81	46 ePc	30 25.20	0.4	
		e	30 31.50		
SPC	54.00	47 eP	30 26.00	-0.6	
BW06	54.55	305 P	30 30.00	-0.8	
BZS	55.07	52 eP	30 38.50	4.3X	
SKO	55.26	56 eP	30 20.00	-15.7X	
LRM	56.35	309 eP	30 44.70	0.9	
EDM	56.56	318 eP	30 44.00	-1.0	
NUR	56.91	33 eP	30 46.00	-1.3	
YKA	57.52	329 eP	30 48.70	-2.8	
	1.1s	10.50nm		4.8mb	
KAF	57.81	32 iP	30 52.60	-0.9	
	0.9s	18.10nm		5.1mb	
SOD	58.40	25 eP	30 56.00	-1.6	
KEV	58.82	23 eP	30 58.00	-2.5	
NEW	59.28	312 P	31 03.50	-0.6	
	1.0s	30.00nm		5.4mb	
MBC	60.68	345 eP	31 13.00	-0.2	
	1.2s	19.00nm		5.1mb	
PNT	60.78	314 eP	31 16.00	1.7	
TPC	61.04	296 eP	31 17.00	0.7	
GSC	61.36	297 eP	31 18.00	-0.5	
PEC	61.99	296 P	31 23.50	0.7	
RVR	62.14	296 eP	31 25.00	1.3	
SBB	62.32	297 eP	31 26.00	1.0	
ISA	62.59	298 eP	31 27.00	0.2	
BCAO	63.96	99 iPd	31 35.70	-0.4	
	0.7s	33.00nm		5.6mb	
		id	31 42.50		
INK	65.14	336 eP	31 41.30	-1.6	
FBA	71.56	334 eP	32 23.10	0.2	
	0.8s	11.00nm		5.0mb	
BRW	71.72	342 eP	32 24.40	0.7	
TOA	72.00	331 P	32 27.10	1.5	
	1.0s	35.00nm		5.4mb	
KLU	72.12	330 P	32 26.10	-0.3	
IMA	73.26	336 eP	32 33.40	0.3	
	0.9s	10.30nm		4.9mb	
PMR	73.49	331 eP	32 34.40	0.2	
	0.8s	14.40nm		5.1mb	
TTA	75.69	334 eP	32 46.50	-0.6	
LWI	76.13	100 iPd	32 51.40	0.9	
SVW	76.47	332 eP	32 51.40	-0.1	
KMZ	79.06	111 iP	33 08.00	1.4	
LSZ	81.95	111 P	33 23.50	1.7	
PTZ	84.08	109 iPc	33 33.50	0.7	
	0.5s	4.20nm		4.9mb	
SLR	87.36	120 iPd	33 49.50	0.6	
BLF	87.55	124 eP	33 41.00	-8.7X	
DZM	151.49	273 iPKPc	40 56.90	6.9X	
	S.D. = 1.0	on 97 of 104 obs.			

? FEB 03, 1991 09h 55m 00.78± 0.96s
16.792 S ±53.6km 178.344 W ±36.3km
DEPTH = 33.0km (normal)
5.0mb (3 obs.)
FIJI ISLANDS REGION (181)

CMS	35.64	239 iPd	01 59.00	1.2	
	0.5s	13.00nm		5.1mb	
TOO	37.93	230 eP	02 18.00	1.0	
WB2	44.89	258 eP	03 14.00	-0.4	
WRA	44.90	258 P	03 17.00	2.5	
	0.4s	1.30nm		4.2mb	
ASPA	45.16	253 iPd	03 16.40	-0.1	
	0.6s	33.20nm		5.4mb	
FORR	50.52	244 iPc	03 55.50	-2.5	
WARB	51.72	250 eP	04 05.30	-2.0	
FLN	148.07	3 ePKP	14 40.50	-0.7	
CDF	148.13	353 ePKP	14 40.70	-0.8	
LDF	148.25	2 ePKP	14 40.70	-0.8	
GRR	148.42	3 PKP	14 41.40	-0.4	
HAU	148.63	354 ePKP	14 41.80	-0.4	
LPF	148.77	3 ePKP	14 42.30	-0.1	
LOR	149.55	357 ePKP	14 44.10	0.4	
	0.3s	1.50nm			
SSF	149.78	357 ePKP	14 44.70	0.7	
	0.4s	2.30nm			
LBF	149.83	357 ePKP	14 44.60	0.5	
MCF	150.24	3 ePKP	14 45.60	0.9	
BGF	150.30	358 ePKP	14 45.80	1.0	
	0.5s	2.20nm			
	S.D. = 1.3	on 18 of 18 obs.			

? FEB 03, 1991 10h 05m 19.14± 1.89s
32.884 S ± 8.8km 68.945 W ±52.0km
DEPTH = 14.8 ± 7.3 km
MENDOZA PROVINCE, ARGENTINA (139)

RTCV	1.08	19 iPc	05 38.80	-0.2	
RTCB	1.40	5 ePc	05 44.10	-0.1	
		eS	06 02.80		
CFA	1.41	25 ePc	05 44.30	0.1	
		S	06 02.40		
RTLL	1.60	15 iPc	05 47.20	0.2	
		eS	06 07.20		
RFA	1.92	168 ePc	05 51.70	0.0	
		S	06 22.70		
	S.D. = 0.3	on 5 of 5 obs.			

% FEB 03, 1991 10h 41m 35.95± 1.24s
45.691 N ±15.3km 27.078 E ±11.1km
DEPTH = 33.0km (normal)
ROMANIA (358)

VRI	0.30	306 iPd	41 44.50	0.7	
CVO	0.65	282 ePd	41 48.50	-0.2	
ISR	0.67	214 eP	41 50.00	1.0	
MLR	0.82	256 ePd	41 50.00	-1.2	
		e	07 22.00		
CLI	0.87	9 iPc	41 59.00	7.2X	
CFR	0.91	123 iPc	41 52.00	-0.3	
		e	07 14.00		
	S.D. = 1.2	on 5 of 6 obs.			

FEB 03, 1991 10h 47m 31.21± 0.50s
18.911 S ±13.9km 173.052 W ± 5.4km
DEPTH = 36.6km (6 depth phases)
5.2mb (13 obs.) 4.9Msz (6 obs.)
TONGA ISLANDS (173)

AFI	5.12	14 eP	48 45.00	-2.7	
		eS	50 00.00		
MBU	8.06	283 eP	49 29.00	0.0	
SVA	8.09	274 ePc	49 28.30	-1.0	
VUN	8.10	275 eP	49 28.60	-0.9	
NDF	9.09	276 eP	49 45.00	1.9	
RAR	12.69	103 P	50 21.00	-11.0X	
PVC	17.73	271 iPc	51 35.00	-2.1	
DZM	19.46	257 iPc	51 52.00	-6.1X	
TBI	22.43	105 iP	52 26.10	-2.2	
	1.4s	270.00nm		5.5mb	
TVO	22.62	91 eP	52 30.00	-0.2	
	1.0s	45.00nm		4.9mb	
CMS	39.04	243 eP	54 49.00	-7.4X	
TOO	40.59	234 eP	55 03.00	-6.2X	
ASPA	49.43	255 iPc	56 13.00	-6.9X	
	1.5s	53.80nm		5.4mb	
Z	20s	1.50um		5.0Msz	
WB2	49.44	260 eP	56 13.00	-7.1X	
MAT	71.83	320 eP	58 53.00	0.7	
	1.3s	21.15nm		5.0mb	
		eS	08 26.00		
PRS	73.50	41 ePKP	59 14.10	11.9X	
PRI	73.83	42 ePKP	59 15.30	11.1X	
MHC	73.98	40 ePKP	59 15.00	10.0X	
PLM	74.66	46 eP	59 09.00	-0.2	
PEC	74.76	46 P	59 10.00	0.4	
SBB	74.79	45 eP	59 09.00	-0.7	
ISA	74.94	43 eP	59 10.00	-0.6	
FRI	74.96	42 ePKP	59 11.20	0.6	
CMB	75.19	41 ePKP	59 12.30	0.4	
WDC	75.54	37 ePKP	59 14.30	0.5	
CLC	75.60	44 eP	59 14.00	-0.4	
TPC	75.64	46 eP	59 15.00	0.4	
GSC	75.82	45 eP	59 15.00	-0.7	
GLA	75.89	47 eP	59 16.00	0.0	
TNP	77.19	42 P	59 22.90	-0.5	
	0.8s	5.88nm		4.7mb	
		pP	59 34.60	39km	
RSO	80.78	10 P	59 43.90	1.5	
SLKM	81.27	11 P	59 46.60	1.9	
MDJ	82.00	323 eP	59 46.00	-2.8	
TTA	82.67	8 eP	59 52.90	0.9	
PNT	82.79	32 eP	59 53.00	0.1	
ALQ	82.80	49 eP	59 53.50	0.0	
	2.0s	51.47nm		5.3mb	
Z	18s	0.45um		4.9Msz	
CN2	83.98	320 eP	59 59.00	0.0	
Z	20s	0.90um		5.1Msz	

```
                epP   00 09.00   32km
                eS    10 28.00
SNY    84.08 318 Pd   00 00.00    0.5
RND    84.20  11 P    00 00.00    0.2
LRM    84.57  38 eP   00 07.90    5.7X
BW06   84.66  41 P    00 01.50   -1.3
       1.2s      9.59nm          4.8mb
                pP    00 13.20   38km
WHN    85.33 304 eP   00 06.50    0.5
                pP    00 17.00   33km
TIA    85.72 310 eP   00 08.40    0.5
FBA    85.77  11 eP   00 07.60    0.1
       0.7s     14.70nm          5.3mb
                e     00 19.30   38km
GOL    85.85  46 P    00 09.00    0.2
       1.7s     27.09nm          5.2mb
GLD    85.97  46 P    00 11.60    2.3
       1.5s     43.75nm          5.5mb
IMA    85.97   8 ePc  00 09.20    0.5
       2.1s     65.70nm          5.5mb
                e     00 21.50   41km
IPM    87.62 276 ePc  00 16.30   -1.3
BJI    88.11 314 eP   00 19.00   -0.4
MEO    88.53  52 e(P) 00 20.30   -1.3
RSSD   88.81  42 P    00 22.80   -0.2
       1.2s      9.48nm          5.0mb
SNG    88.85 278 eP   00 23.60    0.1
TIY    89.76 310 eP   00 26.80   -0.6
     Z  22s      0.50um          4.9Msz
                S     11 15.00
XAN    90.94 306 P    00 32.50   -0.4
INK    91.58  14 eP   00 36.50    1.5
HHC    91.64 313 eP   00 36.00    0.0
BTO    92.63 312 eP   00 41.80    1.2
CHG    94.13 288 eP   00 50.50    2.7X
LZH    95.56 306 eP   00 46.50   -7.8X
       2.2s     53.00nm          5.6mb
     Z  20s      0.39um          4.9Msz
                pP    00 54.00   23kmX
                i     01 18.00
ZOBO   98.31 110 P    01 03.00   -4.6X
     Z  20s      0.52um          5.0Msz
                LR    33 22.00
NAI   144.46 239 ePKP 06 58.00   -8.6X
WIT   146.16   0 ePKP 07 11.00    3.0X
WTS   146.98   0 ePKP 07 14.00    4.7X
       1.0s     16.00nm
KRA   147.23 344 ePKP 07 13.80    4.0X
                e     07 22.80
KSP   147.28 349 ePKP 07 11.00    1.1
                ic    07 14.20
                i     07 30.50
CLL   147.32 353 ePKP 07 13.00    3.1X
       1.6s     42.00nm
BRG   147.63 352 iPKP 07 13.20    2.8X
       1.4s     36.00nm
                i     07 23.40
SPC   147.95 343 ePKP 07 13.60    2.4X
BNS   148.02 360 iPKPc 07 15.30   4.3X
MOX   148.12 354 ePKP 07 14.00    2.8X
       2.1s     83.00nm
ENN   148.20   1 ePKP 07 16.00    4.7X
       1.0s     20.00nm
MEM   148.36   1 PKP  07 17.70    6.2X
SNF   148.40   3 PKP  07 25.60   14.0X
PRU   148.40 351 ePKP 07 14.50    2.8X
                e     07 17.00
                e     07 25.60
DOU   148.83   3 PKP  07 16.30    4.0X
ABH   149.10 359 ePKP 07 17.01    4.2X
GRF   149.10 355 iPKPc 07 16.70   3.9X
                e     07 27.20
KHC   149.38 351 PKP  07 19.40    6.1X
WET   149.46 352 ePKP 07 19.40    6.0X
FLN   149.62  10 ePKP 07 16.80    3.2X
       0.9s     19.65nm
ZST   149.64 347 ePKP 07 14.70    1.1
SRO   149.72 345 ePKP 07 18.70    5.0X
                e     08 51.80
CMP   149.72 334 ePKPc 07 26.00   12.1X
VKA   149.75 348 e(PKP)07 15.00   1.2
                i     07 20.90
                e     07 35.00
LDF   149.84   9 ePKP 07 17.60    3.7X
       1.0s     22.00nm
GRR   149.92  10 ePKP 07 17.80    3.8X
       1.0s     18.00nm
LWI   149.94 228 ePKPd 07 18.40   3.0X
LPF   150.23  11 ePKP  07 18.60   4.1X
       1.1s     24.40nm
CDF   150.57 360 ePKP  07 19.60   4.4X
BZS   150.72 339 ePKP  07 24.50   9.2X
HAU   150.98   1 ePKP  07 20.50   4.8X
BSF   151.15   0 ePKP  07 20.70   4.6X
SQTA  151.55 354 ePKP  07 21.00   4.3X
       1.7s     33.80nm
                e     07 31.50
                i     07 46.80
                e     08 22.00
LOR   151.60   4 ePKP  07 22.00   5.3X
       1.2s     17.85nm
MFF   151.77  10 ePKP  07 22.20   5.3X
SSF   151.78   5 ePKP  07 22.60   5.7X
       1.2s     29.75nm
BEO   151.81 339 ePKP  07 23.50   6.5X
LBF   151.89   4 ePKP  07 22.70   5.6X
       0.8s      6.70nm
AVF   152.04   5 ePKP  07 22.60   5.3X
       1.1s     14.65nm
PTJ   152.07 346 ePKP  07 14.40  -3.1X
ZAG   152.14 346 ePKP  07 25.60   8.2X
BGF   152.22   6 ePKP  07 23.20   5.6X
       1.0s     13.00nm
SMF   152.22   5 ePKP  07 23.10   5.5X
       0.9s      4.94nm
LJU   152.22 349 e(PKP)07 26.00   8.4X
VOY   152.35 350 e(PKP)07 25.50   7.6X
LSF   152.37   8 ePKP  07 23.10   5.3X
       0.9s     10.65nm
TCF   152.42   7 ePKP  07 23.50   5.6X
MAF   152.52   7 ePKP  07 24.10   6.1X
       0.9s      9.00nm
VBY   152.60 347 e(PKP)07 27.80   9.7X
TRI   152.69 350 ePKP  07 21.40   3.2X
        S.D. = 1.1  on  50 of 110 obs.
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*  FEB  03, 1991  12h 32m 16.82± 1.18s
   29.599 S ± 6.7km   71.727 W ±12.6km
   DEPTH =  50.5 ± 16.8 km
   4.3mb (  2 obs.)
 NEAR COAST OF CENTRAL CHILE      (135)

RTCB    3.15 127 ePd   33 06.10    0.8
JACH    3.22 163 iPd   33 07.40    1.1
                iS     33 46.50
RTLL    3.30 122 iPd   33 07.50    0.2
IHA     3.42 179 eP    33 08.00   -0.9
                i(S)   34 01.90
ROCH    3.42 170 iPc   33 09.20    0.0
                iS     33 50.00
                i      33 59.00
RTCV    3.55 130 ePd   33 12.10    1.2
CFA     3.61 125 eP    33 10.20   -1.5
                S      33 54.00
PEL     3.64 166 iPc   33 12.60    0.4
                i      33 15.00
                iS     33 57.00
LCCH    3.87 178 iPd   33 15.00   -0.2
                iS     33 59.10
                i      34 15.00
SAN     3.95 167 eP    33 17.00    0.6
                i      34 12.00
MDZ     4.10 144 eP    33 31.00   12.4X
                iS     34 27.90
TACH    4.10 171 iPc   33 18.50    0.0
                iS     34 06.00
                i      34 12.00
PCH     4.14 166 iP    33 19.60    0.4
                iS     34 09.50
LNV     4.35 177 iPd   33 21.00   -1.0
                iS     34 12.00
                i      34 30.00
RFA     5.85 153 ePc   33 42.30   -0.9
SLA     7.37  50 e(P)  34 03.00   -1.6
ARE    13.08   1 eP    35 36.00   13.6X
CNCB   13.19  16 P     35 26.00    2.0
LPB    13.43  15 eP    35 33.00    6.0X
ZOBO   13.67  15 P     35 30.00   -0.5
     Z  20s      0.26um
                LR     48 08.00
SIV    16.72  38 P     36 05.40   -3.7X
BAO    25.88  63 ePd   37 39.00   -6.8X
TUL    68.98 339 eP    43 18.20   -0.6
       0.8s      8.00nm          4.7mb
                e     43 28.10
YKA    97.98 341 eP    45 52.90    4.9X
       0.6s      0.20nm          3.8mb
GBA   147.35 113 PKP   51 55.00    0.5
HYB   150.26 107 ePKP  52 04.50    5.4X
      S.D. = 1.1  on  19 of  26 obs.
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&  FEB  03, 1991  13h 03m 52.30s
   37.823 N          121.248 W
   DEPTH =  12.0km
 CENTRAL CALIFORNIA                (39)
      <BRK>. ML 3.1 (BRK). Felt (III)
      at Dublin and Ripon. Also felt
      at Monteco.

ARN     0.52 206 iPc   04 02.40   -0.6
MHC     0.57 213 iPd   04 03.30   -0.6
CMB     0.71  73 iPd   04 05.80   -0.4
                iS     04 15.10
BKS     0.78 274 eP    04 07.40    0.0
BRK     0.80 274 eP    04 07.00   -0.7
ZSP     0.81 279 iPc   04 07.04   -0.7
PCC     0.96 251 iPd   04 09.22   -1.1
                iS     04 22.31
GCC     0.99 217 eP    04 10.20   -0.7
SAO     1.07 189 ePc   04 10.82   -1.4
LLA     1.23 168 eP    04 13.00   -2.0
NWRM    1.44 297 eP    04 15.80   -2.3
FRI     1.48 124 ePc   04 17.50   -1.2
                iS     04 36.60
ORV     1.74 354 iPd   04 20.50   -2.0
PKEM    1.98 152 eP    04 30.00    4.0
PHAM    2.10 161 eP    04 31.50    3.8
BONR    2.33  86 eP    04 32.00    0.6
LTCM    2.48 344 eP    04 31.00   -2.1
KVN     2.76  63 eP    04 36.80   -0.5
TNP     3.20  84 eP    04 43.30   -0.2
       19 obs. associated
-------------------------------------
*  FEB  03, 1991  13h 22m 10.68± 0.91s
   25.394 N ±14.4km   91.662 E ±10.3km
   DEPTH =  33.0km  (normal)
   3.8mb (  2 obs.)
 INDIA-BANGLADESH BORDER REGION   (315)

GUN     5.75 297 P     23 36.72    0.4
PKI     6.01 293 P     23 39.94    0.0
KKN     6.19 294 P     23 42.48    0.0
DMN     6.27 292 P     23 44.06    0.4
GKN     6.80 294 P     23 50.78   -0.1
HYB    14.55 240 eP    25 35.60   -0.6
WRA    61.25 133 P     32 26.00    0.8
       0.8s      1.20nm          4.1mb
YKA    89.94  12 eP    35 06.60   -1.0
       0.8s      0.30nm          3.6mb
      S.D. = 0.7  on   8 of   8 obs.
-------------------------------------
*  FEB  03, 1991  14h 46m 43.64± 0.63s
   5.362 N ±10.2km   32.487 E ±10.5km
   DEPTH =  10.0km  (geophysicist)
   4.6mb (  2 obs.)
 SUDAN                             (557)

NAI     7.88 147 iPc   48 43.50    2.3
LWI     8.40 206 i(P)c 48 47.40   -1.2
BCAO   13.93 267 iPd   50 03.00   -0.5
       0.7s     24.00nm          5.1mb X
                iS     52 32.90
                Lg     53 52.50
OHR    37.10 345 eP    53 58.10    2.0
KHC    46.47 343 P     55 14.50    1.8
HYB    46.59  71 eP    55 14.50    0.5
GRB1   47.29 342 e(P)  55 18.40   -0.7
       0.9s     11.00nm          4.9mb
                e     55 21.30
GKN    54.30  59 P     56 11.98   -0.9
DMN    54.60  60 P     56 14.50   -0.7
KKN    54.80  60 P     56 15.86   -0.8
PKI    54.86  60 P     56 15.74   -1.5
GUN    55.34  60 P     56 20.18   -0.6
NB2    57.81 348 P     56 37.60    0.2
       0.8s      2.10nm          4.2mb
      S.D. = 1.4  on  13 of  13 obs.
-------------------------------------
?  FEB  03, 1991  15h 31m 28.66±11.33s
   39.390 N ±76.4km   28.039 E ±36.1km
   DEPTH =   5.0km  (geophysicist)
```

03d 15h

TURKEY (366)
MD 2.7 (ISK).

DST	0.50	64	iPg	31 38.10	-0.7
			iSg	31 44.10	
KCT	0.89	16	ePg	31 46.80	0.6
			iSg	31 59.30	
EDC	0.97	352	ePg	31 47.00	-0.5
BNT	0.97	355	ePn	31 47.30	-0.3
YLV	1.56	41	ePn	31 58.00	0.8

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

FEB 03, 1991 15h 44m 07.36± 0.36s
35.369 N ± 3.1km 6.257 W ± 4.5km
DEPTH = 90.0 ± 4.8 km
STRAIT OF GIBRALTAR (385)
MD 3.8 (MDD), 3.4 (RBA).

PLAT	0.85	28	iP	44 26.00	0.3
OJEN	0.94	39	iP	44 28.00	1.3
CNIL	1.01	9	iP	44 27.00	-0.5
EJIF	1.26	30	iPd	44 30.80	0.4
			eS	44 47.00	
ALJ	1.41	22	iP	44 31.50	-0.9
GIBL	1.48	10	iP	44 33.50	0.3
LIJA	1.67	24	iP	44 36.00	0.2
EPRU	1.80	27	eP	44 38.20	0.8
			eS	44 58.70	
MAL	2.02	47	iPnc	44 40.00	-0.3
			iSg	45 03.00	
IFR	2.07	153	iPn	44 40.50	-0.7
			i	44 47.50	
			iSn	45 04.00	
			i	45 11.00	
EVAL	2.25	350	iPd	44 43.00	-0.4
			eS	45 07.90	
AVE	2.28	205	iPnd	44 44.20	0.4
			i	44 51.00	
			iSn	45 11.00	
			i	45 16.50	
EHOR	2.58	18	iPd	44 47.60	-0.3
			eS	45 15.00	
EMEL	2.70	91	iPd	44 49.00	-0.6
			eS	45 21.60	
AFC	2.89	49	eP	44 53.00	0.7
			eS	45 24.40	
ECOG	2.89	48	eP	44 53.30	1.0
			eS	45 24.70	
EBAN	3.42	35	eP	44 59.10	-0.5
			eS	45 34.80	
ENIJ	3.64	63	eP	45 02.40	-0.2
			eS	45 42.30	
EVIA	4.43	42	iP	45 12.70	-1.0
			eS	45 58.00	
TIO	4.51	191	iPn	45 15.00	0.3
			iSn	46 03.20	
EPLA	4.69	2	iPd	45 17.00	-0.2
			eS	46 06.50	
TOL	4.83	21	ePn	45 06.00	-13.1X
			ePg	45 20.50	
			iSg	46 10.00	
GUD	5.52	17	iPd	45 28.30	-0.5
			eS	46 25.00	
A U	5.63	54	eP	45 30.50	0.2
			eS	46 30.60	
ECHE	5.95	43	eP	45 33.70	-0.9
			eS	46 37.00	
ETOR	6.37	30	iPd	45 39.80	-0.7
			eS	46 47.20	
EZAM	7.03	345	eP	45 49.40	-0.1
			eS	47 04.40	
ERUA	7.05	355	eP	45 49.20	-0.5
			eS	47 04.00	
STS	7.71	347	eP	45 58.60	-0.2
			eS	47 19.60	
ECRI	7.80	21	eP	46 00.30	0.3
			eS	47 22.00	
EPF	9.20	32	Pn	46 18.60	-0.6
			Sn	47 54.00	
LPO	10.91	29	Pn	46 42.20	0.1
			Sn	48 36.30	
LFF	10.95	27	Pn	46 42.60	-0.1
			Sn	48 36.60	
CAF	11.47	31	Pn	46 49.00	-0.6
			Sn	48 48.60	
RJF	11.55	28	Pn	46 50.60	-0.1
			Sn	48 50.20	
MFF	12.13	20	Pn	46 58.60	0.3
			Sn	49 05.30	
LSF	12.36	26	Pn	47 00.90	-0.4
TCF	12.64	28	Pn	47 04.50	-0.5
MAF	12.73	29	Pn	47 07.10	1.0
BGF	13.11	29	Pn	47 11.50	0.3
LPF	13.23	15	Pn	47 12.90	0.2
AVF	13.50	29	Pn	47 17.40	1.1
SMF	13.59	31	Pn	47 18.20	0.8
GRR	13.61	15	Pn	47 17.90	0.2
LDF	13.97	17	Pn	47 22.60	0.2
FLN	14.05	16	Pn	47 23.60	0.3

S.D. = 0.6 on 45 of 46 obs.

? FEB 03, 1991 15h 59m 58.73± 0.97s
37.786 N ± 9.2km 29.368 E ± 9.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

KHL	0.55	13	iPg	00 09.40	-0.6
			eSg	00 19.00	
BCK	1.02	108	ePn	00 18.00	-0.1
YER	1.08	233	ePn	00 19.10	0.0
ALT	1.40	24	ePn	00 25.00	0.7

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

? FEB 03, 1991 17h 19m 52.67± 3.49s
14.807 N ±24.9km 60.945 W ±12.9km
DEPTH = 10.0km (geophysicist)
WINDWARD ISLANDS (95)
ML 2.2 (FDF).

CRM	0.06	152	iPc	19 55.03	0.1
FDF	0.21	250	iPc	19 57.24	-0.1
	0.1s		0.75nm		
			S	20 05.60	
MVM	0.26	169	ePn	19 57.92	-0.2
			S	20 07.40	
BIM	0.31	203	ePn	19 59.34	0.2
			S	20 09.30	

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

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* FEB 03, 1991 18h 03m 20.66± 0.82s
39.256 N ± 7.2km 21.019 E ± 8.6km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 2.8 (ATH).

EVR	0.70	119	ePb	03 34.10	-0.5
KEK	1.05	296	ePb	03 40.40	0.0
VLS	1.13	197	ePg	03 42.20	0.4
KZN	1.20	29	ePn	03 44.00	0.9
OHR	1.86	355	ePn	03 52.10	-0.8

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

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* FEB 03, 1991 18h 38m 12.23± 0.71s
36.643 N ±11.2km 69.634 E ±10.4km
DEPTH = 33.0km (normal)
4.1mb (3 obs.)
HINDU KUSH REGION (718)

QUE	6.82	200	eP	39 52.30	-0.4
NDI	10.18	139	eP	40 41.00	1.8
GKN	15.32	120	P	41 46.46	-1.3
DMN	15.89	120	P	41 55.30	0.1
KKN	15.90	119	P	41 54.82	-0.5
PKI	16.12	120	P	41 57.26	-1.0
GUN	16.25	118	P	42 00.84	0.9
HYB	20.71	155	eP	42 58.50	6.1X
HFS	42.28	322	eP	46 03.90	0.0
	0.6s		3.90nm	4.3mb	
NB2	43.61	323	P	46 14.30	-0.4
	0.7s		1.80nm	4.0mb	
YKA	81.15	2	eP	50 26.10	0.8
	0.7s		1.40nm	4.1mb	

S.D. = 1.1 on 10 of 11 obs.

FEB 03, 1991 20h 13m 58.75± 0.81s
57.325 N ± 8.4km 156.758 W ± 7.2km
DEPTH = 112.3 ± 5.7 km
4.4mb (8 obs.)
ALASKA PENINSULA (12)

MCNL	2.26	33	eP	14 36.22	0.5
			eS	15 04.94	
CDD	2.31	44	iP	14 36.95	0.6
			eS	15 06.53	
SYI	2.66	59	iP	14 41.61	0.7
AUI	2.67	40	eP	14 42.27	1.1
AUH	2.69	39	eP	14 42.63	1.2
PDB	2.81	27	eP	14 44.42	1.4
SDN	2.88	228	ePc	14 42.10	-1.7
XLV	3.40	49	eP	14 51.41	0.4
			eS	15 32.02	
HOM	3.56	47	eP	14 54.51	1.4
			eS	15 35.51	
CNPM	3.65	50	eP	14 54.72	0.4
			eS	15 36.84	
RED	3.73	32	iP	14 56.57	1.1
			eS	15 40.24	
RS2	3.77	32	iP	14 57.30	1.2
RSO	3.77	32	iP	14 57.25	1.1
			eS	15 41.29	
NCT	3.80	30	eP	14 57.45	1.0
			eS	15 42.06	
REF	3.81	32	iP	14 57.63	1.0
RDN	3.81	31	eP	14 57.71	1.1
			eS	15 42.29	
SVW	3.84	8	iPc	14 57.70	0.8
BRLK	3.93	49	eP	14 58.21	0.1
NNL	3.94	44	eP	14 59.80	1.5
RDT	3.96	33	eP	14 59.66	1.1
NKA	4.46	37	eP	15 09.12	3.9Y
CKL	4.50	28	eP	15 06.95	1.1
BGL	4.54	28	eP	15 07.82	1.2
SPU	4.56	30	eP	15 07.31	0.6
SLKM	4.65	44	eP	15 08.40	0.4
NCG	4.72	28	eP	15 10.19	1.2
SEW	4.72	51	eP	15 09.30	0.5
SUA	5.16	34	eP	15 15.41	0.3
SKT	5.37	27	eP	15 18.54	0.7
PMS	5.39	40	eP	15 17.85	-0.3
MTU	5.45	57	eP	15 18.20	-0.7
PWA	5.58	36	eP	15 20.64	0.0
KNIM	5.58	53	eP	15 19.67	-1.0
TTA	5.64	3	iPd	15 22.30	0.8
PLRM	5.78	39	eP	15 23.37	0.0
PMR	5.78	39	eP	15 22.70	-0.7
KNK	5.90	43	eP	15 24.19	-0.9
GHO	5.98	38	eP	15 25.28	-1.0
CUT	6.05	30	eP	15 26.91	-0.2
GLI	6.12	50	eP	15 27.27	-0.9
VZW	6.44	50	eP	15 31.27	-1.3
VLZ	6.57	50	iP	15 33.81	-0.4
TRF	6.93	25	iP	15 39.31	0.0
KLU	6.93	48	eP	15 38.33	-0.9
TOA	7.18	44	eP	15 43.00	0.3
RND	7.25	29	eP	15 42.20	-1.4
MCK	7.49	28	eP	15 46.31	-0.5
SDG	7.67	43	eP	15 48.68	-0.6
BWN	7.74	24	eP	15 49.65	-0.5
GLB	7.79	53	iP	15 50.01	-0.9
TGL	7.96	59	eP	15 52.39	-0.9
PAX	7.98	40	eP	15 52.49	-1.0
NEA	8.17	24	eP	15 54.57	-1.5
BALM	8.28	57	eP	15 56.66	-1.0
WRH	8.31	27	eP	15 55.93	-2.0
CCB	8.53	27	eP	15 58.79	-2.1
HDA	8.55	30	eP	15 58.85	-2.4
RDS	8.60	25	eP	15 59.74	-2.1
MDM	8.69	25	eP	16 00.91	-2.2
CTGM	8.72	59	iP	16 03.16	-0.5
FBA	8.74	26	ePc	16 02.20	-1.6
IMA	8.89	8	ePd	16 07.40	1.4
GLM	8.91	27	eP	16 03.95	-2.2
INK	15.16	34	P	17 23.00	-4.7X
	0.4s		2.30nm	3.8mb	
YKA	21.45	58	eP	18 41.70	3.0
	0.5s		2.50nm	3.8mb	
PNT	23.34	94	eP	19 01.00	3.7X
FRB	40.54	43	eP	21 29.00	1.4
SOD	55.59	358	eP	23 48.00	23.9X
KAF	60.87	358	eP	23 59.80	-1.1
	0.5s		4.80nm	4.8mb	
NB2	61.60	7	P	24 04.60	-1.3
	0.8s		2.90nm	4.3mb	
NUR	62.50	359	eP	24 10.80	-0.9
HFS	62.64	5	eP	24 11.20	-1.5
	0.5s		4.80nm	4.7mb	
MFF	74.62	16	eP	25 27.50	0.8
SSF	74.69	14	eP	25 27.80	0.7
LBF	74.83	14	eP	25 28.50	0.6
AVF	74.94	14	eP	25 28.90	0.4
	0.5s		2.20nm	4.2mb	

BGF	75.10	14	eP	25	29.90	0.5
LSF	75.22	15	eP	25	30.50	0.4
	0.7s	4.95nm		4.4mb		
TCF	75.28	15	eP	25	30.90	0.4
RJF	76.14	16	eP	25	36.00	0.7
LFF	76.38	16	eP	25	37.70	1.0
	0.6s	8.10nm		4.7mb		
CAF	76.59	15	eP	25	38.70	0.8
LPO	76.70	16	eP	25	39.40	1.0
GUN	80.18	307	P	25	58.00	-0.1
KKN	80.55	308	P	26	00.00	0.1
GKN	80.64	308	P	26	00.20	-0.1
DMN	80.78	308	P	26	01.60	0.5

S.D. = 1.1 on 83 of 87 obs.

& FEB 03, 1991 20h 35m 04.33s
60.712 N 151.608 W
DEPTH = 65.4km
3.0mb (1 obs.)
KENAI PENINSULA, ALASKA (14)
<AEIC>.

NKA	0.18	80	iP	35	16.19	1.8
RDT	0.42	251	eP	35	15.54	-0.7
SPU	0.52	335	iP	35	16.54	-0.6
			eS	35	26.75	
REF	0.58	248	iP	35	17.43	-0.6
CKL	0.60	324	iP	35	17.45	-0.7
RDN	0.60	251	iP	35	17.35	-0.8
CRP	0.62	335	eP	35	17.96	-0.4
RSO	0.62	247	iP	35	17.80	-0.6
RS2	0.62	247	iP	35	17.83	-0.6
CGLM	0.63	342	eP	35	18.08	-0.3
			eS	35	29.14	
RED	0.65	243	iP	35	17.86	-0.7
NCT	0.67	258	iP	35	18.05	-0.8
			eS	35	28.87	
BGL	0.67	326	iP	35	18.29	-0.6
NNL	0.69	167	iP	35	19.36	0.4
SLKM	0.71	106	iP	35	18.75	-0.6
			eS	35	30.72	
NCG	0.74	339	iP	35	19.15	-0.6
			S	35	31.38	
SUA	0.86	29	iP	35	20.84	-0.4
			iS	35	33.83	
BRLK	1.02	159	iP	35	22.14	-1.0
HOM	1.06	181	iP	35	23.05	-0.5
PMS	1.13	61	iP	35	24.01	-0.6
CNPM	1.20	171	iP	35	24.57	-1.0
			eS	35	40.24	
SEW	1.23	119	eP	35	24.92	-1.0
PWA	1.26	41	eP	35	25.94	-0.3
XLV	1.26	183	eP	35	24.92	-1.4
			eS	35	42.38	
SKT	1.27	2	iP	35	25.57	-0.9
			eS	35	42.03	
PLRM	1.49	53	eP	35	28.10	-1.3
			eS	35	47.18	
PMR	1.49	53	ePc	35	28.60	-0.8
PDB	1.59	235	eP	35	28.83	-1.9
			iS	35	48.41	
AUH	1.64	215	eP	35	30.50	-1.0
AUI	1.66	214	iP	35	31.01	-0.7
			eS	35	48.90	
GHO	1.68	49	iP	35	30.81	-1.3
			eS	35	51.82	
KNK	1.69	64	iP	35	30.76	-1.4
			eS	35	51.50	
CUT	1.82	20	iP	35	32.88	-1.0
KNIM	1.95	99	iP	35	32.78	-3.0
SVW	2.00	283	iPc	35	34.30	-2.2
MCNL	2.06	223	eP	35	35.42	-1.9
CDD	2.06	211	iP	35	35.93	-1.4
MTU	2.10	109	iP	35	35.24	-2.6
SYI	2.15	191	eP	35	37.05	-1.4
GLI	2.22	84	iP	35	36.25	-3.3
			eS	36	02.82	
SCM	2.35	60	eP	35	39.66	-1.8
HUR	2.46	21	eP	35	42.26	-0.6
			eS	36	11.60	
VZW	2.50	80	eP	35	40.47	-3.0
VLZ	2.61	78	eP	35	42.23	-2.7
			eS	36	12.88	
TRF	2.82	12	eP	35	46.85	-1.2
KLU	2.87	72	iP	35	46.06	-2.7
TOA	2.96	60	eP	35	49.30	-0.7
RND	3.00	24	eP	35	48.75	-1.8
TTA	3.05	319	ePc	35	49.40	-1.9
TZL	3.26	63	eP	35	52.21	-1.9
MCK	3.28	21	eP	35	52.99	-1.4
SDG	3.42	55	eP	35	54.55	-1.9
BWN	3.61	15	eP	35	57.51	-1.5
PAX	3.69	49	eP	35	58.57	-1.6
GLB	3.86	76	eP	35	59.24	-3.3
NEA	4.05	16	eP	36	02.83	-2.4
WRH	4.11	22	eP	36	03.53	-2.5
HDA	4.29	28	eP	36	06.03	-2.5
CCB	4.32	22	eP	36	06.17	-2.8
MDM	4.54	18	eP	36	09.12	-3.0
BALM	4.54	82	eP	36	08.15	-4.1
FBA	4.55	21	eP	36	10.40	-1.9
GLM	4.71	22	eP	36	11.87	-2.6
CTGM	5.03	83	eP	36	16.50	-2.7
IMA	5.46	351	ePc	36	22.60	-2.5
INK	10.85	38	eP	37	35.50	-3.6
YKA	17.53	68	eP	39	01.70	-3.7
	0.5s	0.60nm		3.0mb		

67 obs. assaciated

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* FEB 03, 1991 22h 43m 34.28± 2.25s
45.960 N ±12.5km 26.862 E ±19.3km
DEPTH = 143.1 ± 20.7 km
RDMANIA (358)

VRI	0.13	227	iPc	43	53.00	-0.1
BRD	0.46	163	iPc	43	55.00	0.1
CVO	0.50	254	iPc	44	54.50	59.4X
MLR	0.80	234	iPd	43	57.00	-0.2
ISR	0.85	195	ePd	43	57.50	0.0
CFR	1.19	130	iP	43	59.00	-1.4
IAS	1.32	21	iP	44	02.00	0.2
TLB	1.60	148	iPd	44	06.50	1.8
ISK	5.15	161	ePn	44	50.00	-0.4
HRT	5.53	157	iPn	44	55.50	-0.1

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

% FEB 03, 1991 22h 46m 38.08± 0.82s
40.154 N ± 7.5km 28.264 E ± 5.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.9 (ISK).

KCT	0.12	37	iPg	46	40.00	-1.1
BNT	0.33	308	iPg	46	45.00	0.1
			iSg	46	51.70	
EDC	0.36	302	iPg	46	45.50	0.0
			iSg	46	51.50	
DST	0.62	153	iPg	46	50.60	0.1
			iSg	46	59.40	
YLV	0.94	64	iPg	46	56.20	0.1
ISK	1.09	33	iPg	46	59.50	0.9
			eSg	47	14.00	
HRT	1.26	58	ePn	47	01.50	0.0

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

% FEB 03, 1991 22h 47m 36.83± 1.14s
46.664 N ± 8.1km 1.960 E ± 8.6km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.0 (LDG).

TCF	0.41	155	Pg	47	45.70	0.4
			Sg	47	51.50	
LSF	0.51	216	Pg	47	47.00	-0.2
			Sg	47	53.80	
MAF	0.61	136	Pg	47	49.00	-0.1
			Sg	47	57.10	
BGF	0.62	100	Pg	47	49.10	-0.2
			Sg	47	57.30	
AVF	0.97	82	Pg	47	54.80	-0.4
			Sg	48	07.00	
SSF	1.13	69	Pg	47	58.00	0.0
			Sg	48	12.30	
LBF	1.42	76	Pg	48	02.90	0.2
			Sg	48	21.10	
LOR	1.43	64	Pg	48	03.30	0.4
			Sg	48	21.30	

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

& FEB 03, 1991 22h 59m 29.29s
62.265 N 148.723 W
DEPTH = 42.1km
CENTRAL ALASKA (1)
<AEIC>. ML 3.1 (PMR).

GHO	0.50	191	iP	59	39.64	-0.6
			eS	59	48.75	
PLRM	0.70	196	eP	59	41.67	-1.2
			eS	59	51.95	
PMR	0.70	196	ePc	59	42.20	-0.6
CUT	0.74	282	iP	59	42.82	-0.5
PWA	0.82	222	iP	59	44.15	-0.4
			eS	59	55.50	
HUR	0.83	330	iP	59	43.85	-0.8
			eS	59	55.62	
KNK	0.87	171	iP	59	44.42	-0.8
			eS	59	56.79	
PMS	1.10	202	iP	59	47.76	-0.7
			eS	00	01.42	
RND	1.15	357	iP	59	48.04	-1.2
			eS	00	02.51	
TOA	1.21	97	iPc	59	49.70	-0.3
SUA	1.25	231	eP	59	50.41	-0.3
			eS	00	08.26	
SKT	1.35	259	iP	59	51.35	-0.7
TRF	1.39	330	eP	59	51.67	-1.1
MCK	1.48	356	eP	59	53.04	-0.8
			eS	00	11.82	
SDG	1.50	79	eP	59	53.39	-0.8
			eS	00	12.60	
KLU	1.54	119	iP	59	53.36	-1.4
			iS	00	13.68	
TZL	1.56	97	iP	59	54.59	-0.5
			eS	00	14.13	
VZW	1.59	139	iP	59	53.87	-1.6
GLI	1.59	150	eP	59	54.28	-1.2
			eS	00	15.47	
VLZ	1.61	134	iP	59	53.80	-1.8
			eS	00	14.74	
PAX	1.66	63	iP	59	55.63	-0.9
			eS	00	16.58	
THY	1.79	48	eP	59	57.36	-0.9
CGLM	1.83	240	eP	59	56.28	-2.7
NCG	1.84	244	eP	59	58.43	-0.7
SLKM	1.91	203	eP	59	59.11	-0.8
CRP	1.91	240	eP	00	00.21	0.0
SPU	1.92	237	eP	59	59.68	-0.5
BWN	1.94	350	eP	59	59.77	-0.7
			eS	00	22.14	
NKA	1.95	219	eP	00	01.86	1.4
KNIM	1.98	166	eP	59	59.81	-1.2
			eS	00	24.15	
BGL	2.01	242	eP	00	01.21	-0.3
CKL	2.03	240	eP	00	01.13	-0.6
			eS	00	26.18	
HIN	2.16	149	eP	00	02.01	-1.5
SEW	2.20	190	eP	00	02.96	-1.1
WRH	2.23	7	eP	00	02.69	-1.9
CVA	2.24	139	eP	00	03.50	-1.1
HDA	2.29	20	eP	00	03.84	-1.6
			iS	00	32.86	
NEA	2.33	356	eP	00	04.59	-1.3
CCB	2.43	9	eP	00	05.24	-2.1
SGAM	2.45	135	eP	00	05.41	-2.2
RDT	2.45	228	eP	00	06.27	-1.5
GLB	2.47	107	eP	00	06.08	-1.9
DOT	2.54	55	eP	00	08.41	-0.6
NNL	2.56	210	eP	00	09.20	0.0
RDS	2.58	5	eP	00	07.49	-2.1
REF	2.62	229	eP	00	09.42	-0.8
RDN	2.62	230	eP	00	09.02	-1.2
NCT	2.65	232	eP	00	09.84	-0.7
RSO	2.65	229	eP	00	09.84	-0.9
RS2	2.65	229	eP	00	10.22	-0.5
FBA	2.68	9	ePd	00	09.20	-1.7
RED	2.69	228	eP	00	10.26	-0.9
RAGM	2.71	132	eP	00	09.28	-2.2
MDM	2.71	4	eP	00	09.39	-2.1
			eS	00	38.82	
BRLK	2.72	204	eP	00	10.24	-1.3
GLM	2.80	12	eP	00	11.40	-1.3
TMW	2.84	65	eP	00	12.48	-0.7
HMT	2.89	130	eP	00	11.58	-2.5
HOM	2.98	210	eP	00	14.72	-0.5
CNPM	3.01	205	eP	00	14.17	-1.5
XLV	3.18	209	eP	00	17.01	-1.0
TGL	3.20	116	eP	00	17.47	-1.0
BALM	3.28	109	eP	00	17.07	-2.5
WAX	3.36	120	eP	00	17.85	-2.9
TTA	3.44	284	eP	00	20.40	-1.4
SVW	3.49	254	eP	00	20.60	-1.9
AUH	3.72	221	eP	00	25.04	-0.7

03d 23h

CTGM	3.76	107	eP	00	24.18	-2.3
SYI	4.09	208	eP	00	29.29	-1.6
CDD	4.13	218	eP	00	29.70	-1.9
IMA	4.39	333	eP	00	33.50	-1.8

71 obs. associoted

? FEB 03, 1991 23h 11m 14.48± 3.64s
37.952 N ±17.0km 20.510 E ±38.6km
DEPTH = 10.0km (geophysicist)
IONIAN SEA (399)
MD 3.0 (ATH).

VLS	0.23	16	ePg	11	18.40	-1.1
			eSg	11	26.30	
ITM	1.36	124	ePb	11	39.20	-0.3
EVR	1.40	46	ePn	11	41.10	0.9
OHR	3.16	4	ePn	12	05.80	0.5

S.D. = 1.6 on 4 of 4 obs.

? FEB 03, 1991 23h 13m 46.38± 3.49s
33.429 S ±16.1km 72.822 W ±27.3km
DEPTH = 10.0km (geophysicist)
OFF COAST OF CENTRAL CHILE (134)

LCCH	1.05	93	iPd	14	05.00	-1.1
			iS	14	13.60	
IHA	1.07	68	iPc	14	07.20	0.7
			iS	14	18.00	
LNV	1.29	114	iPd	14	09.40	-0.8
			iS	14	21.50	
ROCH	1.59	74	iPd	14	15.00	0.2
			iS	14	32.00	
TACH	1.59	99	iPd	14	13.60	-1.0
			iS	14	29.90	
SAN	1.81	91	iPd	14	17.60	-0.2
			iS	14	35.50	
PEL	1.81	82	iPc	14	18.00	0.1
			iS	14	37.00	
PCH	1.94	96	iPc	14	19.30	-0.5
			iS	14	40.00	
JACH	2.01	69	iPc	14	21.70	0.8
			iS	14	42.70	
RFA	3.85	112	ePc	14	49.60	2.5
ZOBO	17.60	15	Pd	17	44.50	-9.5X
SIV	20.35	34	eP	18	25.00	-0.8

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

FEB 03, 1991 23h 15m 25.00± 0.55s
44.386 N ± 6.9km 9.709 E ± 5.2km
DEPTH = 15.8 ± 7.5 km
NORTHERN ITALY (545)

BOB	0.42	334	P	15	32.50	-1.2
			eSg	15	39.50	
BDI	0.72	117	P	15	39.80	1.1
			eSg	15	50.40	
MME	0.74	105	P	15	38.50	-0.7
			eSg	15	49.50	
PII	0.89	138	P	15	41.20	-0.3
			eSg	15	54.40	
CKI	1.02	273	P	15	45.20	1.3
			eSg	16	00.80	
MDI	1.39	0	P	15	51.10	1.4
			eSg	16	07.30	
SFI	1.61	106	P	15	52.50	-0.3
SBF	1.72	253	Pn	15	54.50	0.0
ORO	1.74	316	P	15	55.00	0.1
DOI	1.77	275	P	15	56.50	1.3
CRE	1.79	114	P	15	57.00	1.5
PGF	1.91	196	Pn	15	55.80	-1.5
FRF	2.36	251	Pn	16	02.70	-1.0
			Sn	16	31.40	
LPG	2.38	299	Pn	16	05.40	1.2
LPL	2.40	299	Pn	16	05.90	1.5
LMR	2.54	247	Pn	16	04.50	-1.8
			Sn	16	35.10	
LRG	2.59	250	Pn	16	08.00	1.0
HAU	4.31	328	Pn	16	30.40	-0.9
CDF	4.36	338	Pn	16	29.60	-2.6

S.D. = 1.4 on 19 of 19 obs.

FEB 03, 1991 23h 21m 22.07± 0.45s
41.125 N ± 4.1km 22.435 E ± 3.6km
DEPTH = 5.0km (geophysicist)
YUGOSLAVIA (383)
MD 2.9 (ATH). ML 2.4 (SKO).

GRG	0.17	189	iPc	21	25.84	0.2
			eS	21	28.52	
VAY	0.22	27	iPg	21	26.70	0.1
			i	21	29.20	
			iSg	21	30.00	
KNT	0.35	84	iPd	21	29.28	0.1
			eS	21	34.52	
THE	0.64	141	ePd	21	33.88	-0.9
			eS	21	42.04	
FNA	0.87	247	eP	21	38.60	-0.7
SRS	0.87	90	ePc	21	38.64	-0.7
			eS	21	50.68	
KZN	0.96	212	ePb	21	41.10	0.2
LIT	1.02	178	iPd	21	41.72	-0.2
			eS	21	56.24	
PLG	1.07	134	ePb	21	43.00	0.2
			eSb	21	59.00	
SKO	1.13	319	iPg	21	43.60	-0.1
			iSg	21	59.90	
			Lg	22	01.40	
OHR	1.24	270	ePn	21	45.10	-0.5
IGT	2.26	226	eP	22	02.00	1.3
ALN	2.74	94	eP	22	08.40	0.9

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

FEB 03, 1991 23h 24m 04.40± 1.08s
42.576 N ± 5.2km 85.537 E ± 4.3km
DEPTH = 41.3 ± 11.1 km
4.7mb (18 obs.) 4.3Msz (1 obs.)
NORTHERN XINJIANG, CHINA (332)

WMO	2.01	51	iPgd	24	38.50	1.9
			Sg	25	03.00	
KSH	7.87	250	Pn	26	00.00	0.7
			Sn	27	21.50	
GTA	11.24	102	iPc	26	42.40	-3.2X
	0.6s		20.00nm			5.4mb
	Z 16s		1.80um			
			pP	26	47.20	
			sP	26	50.40	
			PP	26	51.00	
			S	28	50.20	
LSA	13.62	159	P	27	19.20	1.6
GKN	14.56	183	P	27	29.34	-0.3
GUN	14.64	179	P	27	29.28	-1.5
KKN	14.75	181	P	27	31.98	-0.3
DMN	14.94	181	P	27	33.22	-1.4
PKI	14.97	180	P	27	34.66	-0.5
LZH	15.56	109	eP	27	40.50	-2.2
	2.2s		53.00nm			4.3mb
BTO	18.41	88	eP	28	16.00	-2.1
	N 12s		0.70um			
	E 12s		0.70um			
CD2	18.63	123	eP	28	21.80	0.9
	N 10s		0.70um			
OUE	19.36	236	eP	28	28.40	-1.2
			eS	36	05.20	
HHC	19.49	86	P	28	30.50	-0.4
	1.0s		50.00nm			4.7mb
	Z 14s		1.00um			
XAN	20.19	107	iPd	28	37.50	-0.7
	N 10s		0.40um			
	E 13s		0.60um			
			pP	28	46.50	34kmX
TIY	21.09	94	eP	28	47.00	-0.5
	0.8s		30.00nm			4.7mb
	Z 15s		0.70um			4.2MszX
			pP	28	55.00	29kmX
			S	32	40.00	
KMI	22.45	135	Pd	29	03.00	1.7
	2.0s		67.00nm			4.7mb
			sP	29	11.00	
BJI	23.09	86	eP	29	09.50	2.2
	Z 18s		0.80um			4.3Msz
GYA	23.60	126	P	29	13.80	1.4
HYB	25.78	195	eP	29	35.00	1.9
WHN	25.94	108	eP	29	34.50	-0.1
			pP	29	43.50	32kmX
			eS	34	03.00	
CHG	26.27	150	eP	29	38.70	1.0
SNY	28.04	78	eP	29	53.00	-0.6
CN2	28.93	74	eP	30	00.70	-0.9
	Z 15s		1.70um			4.8MszX
			epP	30	04.00	12kmX
			eS	34	50.00	
SSE	30.53	100	eP	30	24.50	8.5X
	Z 16s		0.90um			4.5MszX
	N 12s		0.30um			
	E 12s		0.30um			
OIZ	31.21	131	eP	30	22.20	0.2
			eS	35	26.00	
KAF	39.41	320	iP	31	31.90	0.4
	0.4s		2.50nm			4.4mb
SOD	39.72	329	iP	31	34.90	0.9
NUR	40.22	318	iP	31	38.50	0.3
SPC	44.66	302	eP	32	14.70	-0.1
HFS	45.67	318	eP	32	21.90	-0.5
	0.5s		4.00nm			4.6mb
VAY	45.87	291	eP	32	25.30	1.0
SRO	46.31	301	eP	32	26.50	-1.2
SKO	46.39	292	eP	32	29.50	1.1
KSP	46.59	305	eP	32	30.30	0.5
NB2	46.68	320	P	32	30.00	-0.5
	0.6s		5.50nm			4.7mb
ZST	46.95	302	eP	32	39.70	7.0X
			e	37	50.00	
PRU	47.92	305	P	32	41.00	0.6
BRG	47.99	306	eP	32	49.60	8.8X
CLL	48.40	307	iPc	32	44.30	0.3
MOX	49.45	306	eP	32	59.00	6.8X
GRB1	49.89	305	iPc	32	57.20	1.7
	0.8s		5.00nm			4.6mb
			e	33	03.60	
SOTA	51.01	302	eP	33	03.50	-0.7
	0.7s		6.70nm			4.7mb
			ic	33	04.60	
			i	33	10.50	
			i	33	20.00	
			i	33	30.30	
LPG	54.53	302	eP	33	30.60	-0.1
	0.7s		13.25nm			5.1mb
LPL	54.54	302	eP	33	30.50	-0.1
	0.9s		22.95nm			5.2mb
SMF	55.80	304	eP	33	38.40	-1.1
MAF	56.78	305	eP	33	45.80	-0.7
TCF	56.96	305	eP	33	47.00	-0.9
	0.8s		4.05nm			4.5mb
GRR	57.76	308	eP	33	52.00	-1.4
MBC	60.39	7	eP	34	10.50	-0.7
	1.0s		6.00nm			4.7mb
			pP	34	17.50	23kmX
BCAO	70.15	257	ePc	35	15.00	0.1
	0.7s		9.00nm			4.9mb
			id	35	24.00	
YKA	74.04	10	eP	35	36.20	-1.0
	0.5s		0.80nm			3.9mb
WRA	76.76	133	P	35	53.00	-0.2
	0.6s		11.60nm			5.1mb
WB2	76.76	133	iPd	35	53.50	0.2
ASPA	79.58	136	iPc	36	08.80	0.1
	0.7s		4.90nm			4.6mb
ZOBO	145.43	311	PKPc	43	40.30	-0.2
LPB	145.63	311	PKP	43	48.00	7.4X
CNCB	145.79	311	PKP	43	42.60	1.5

S.D. = 1.1 on 52 of 58 obs.

? FEB 03, 1991 23h 58m 59.98±11.47s
37.764 N ±94.3km 3.006 E ±19.3km
DEPTH = 10.0km (geophysicist)
WESTERN MEDITERRANEAN SEA (387)
ML 3.5 (LDG).

EPF	5.64	340	Pn	00	25.40	-0.5
			Sn	01	31.00	
LMR	6.17	25	Pn	00	32.60	-0.7
			Sn	01	45.80	
LRG	6.23	23	Pn	00	33.80	-0.3
			Sn	01	47.70	
FRF	6.42	24	Pn	00	36.00	-0.8
			Sn	01	51.40	
PGF	6.62	42	Pn	00	40.20	0.3
			Sn	01	54.20	
SBF	6.96	27	Pn	00	44.40	0.0
LPO	7.05	349	Pn	00	46.20	0.6
CAF	7.19	355	Pn	00	48.70	1.0
LFF	7.37	347	Pn	00	50.40	0.3
LPG	8.22	19	Pn	01	04.20	1.9
LPL	8.23	19	Pn	01	04.30	1.9
MAF	8.46	358	Pn	01	05.90	0.5
LSF	8.55	353	Pn		06.60	-0.1
AVF	9.02	2	Pn		11.60	-1.6
BSF	10.44	14	Pn	01	31.90	-0.9
HAU	10.52	12	Pn	01	32.30	-1.6

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

FEB 04, 1991 01h 08m 20.22± 0.38s
44.747 N ± 2.8km 6.777 E ± 4.6km
DEPTH = 10.9 ± 4.5 km
FRANCE (538)
ML 2.3 (LDG), 2.3 (GEN).

RRL	0.17	2	P	08	23.54	-0.8
			S	08	27.03	
FOUF	0.22	179	ePgd	08	23.55	-1.4
			e(Sg)	08	25.44	
BNI	0.31	347	P	08	27.90	1.0
			eSg	08	33.00	
PZZ	0.33	136	P	08	27.23	0.0
			S	08	32.98	
BHB	0.36	75	P	08	27.64	0.0
			S	27	33.80	
DOI	0.41	126	P	08	30.40	1.7
			eSg	08	36.60	
RSP	0.53	40	P	08	31.13	0.2
			S	08	38.92	
STV	0.64	142	P	08	32.57	-0.4
			S	08	42.10	
ENR	0.69	138	P	08	33.18	-0.8
			S	08	43.64	
LPG	0.75	359	Pg	08	34.20	-0.8
			Sg	08	46.00	
LSD	0.76	21	P	08	34.82	-0.3
			S	08	44.87	
LPL	0.77	358	Pg	08	34.40	-0.9
			Sg	08	46.20	
SBF	1.00	152	Pg	08	39.30	0.1
			Sg	08	54.40	
FRF	1.19	185	Pn	08	42.00	-0.3
			Pg	08	43.00	
			Sg	08	59.70	
CDR	1.29	214	e(Pg)d	08	44.10	0.0
			e	09	01.50	
LRG	1.33	193	Pg	08	44.60	0.0
			Sg	09	04.20	
LMR	1.43	188	Pg	08	46.50	0.5
			Sg	09	06.10	
SMF	2.80	314	Pn	09	06.70	0.9
			Pg	09	13.00	
BGF	3.30	305	Pn	09	12.80	0.0
			Pg	09	22.10	

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

• FEB 04, 1991 01h 37m 02.26± 0.95s
19.481 S ±26.9km 172.306 W ±11.6km
DEPTH = 33.0km (normal)
4.9mb (5 obs.)
TONGA ISLANDS REGION (174)

SVA	8.85	277	eP	39	11.20	0.2
VUN	8.87	278	eP	39	11.30	0.1
DZM	20.03	259	iPd	41	36.70	1.2
ASPA	49.96	255	iPc	45	55.70	0.2
	0.6s		8.80nm			5.0mb
WB2	50.03	260	iPc	45	55.20	-0.8
WRA	50.05	260	P	45	55.00	-1.1
	0.3s		6.00nm			5.1mb
PV09	82.61	45	eP	49	25.30	1.3
TOA	83.93	12	eP	49	30.30	0.4
BW06	84.62	41	eP	49	34.50	0.4
	1.0s		4.75nm			4.6mb
FBA	86.20	10	ePc	49	40.40	-0.7
	0.9s		20.30nm			5.4mb
IMA	86.44	8	eP	49	42.20	-0.3
YKA	93.41	23	eP	50	14.10	-0.9
	0.6s		0.50nm			4.1mb
FLN	150.05	11	ePKP	56	51.20	5.5X
	0.7s		8.80nm			
LDF	150.28	10	ePKP	56	51.90	5.8X
	0.9s		9.85nm			
GRR	150.34	12	ePKP	56	52.20	6.0X
	1.0s		16.00nm			
LPF	150.65	12	ePKP	56	52.90	6.3X
	1.1s		29.30nm			
CDF	151.14	1	ePKP	56	54.20	6.7X
HAU	151.53	2	ePKP	56	55.10	7.1X
BSF	151.71	1	ePKP	56	55.40	7.0X
LOR	152.11	6	ePKP	56	56.80	7.9X
	0.9s		5.75nm			
SSF	152.28	6	ePKP	56	57.40	8.3X
	0.9s		9.00nm			
LBF	152.40	5	ePKP	56	57.40	8.0X
	1.0s		6.00nm			
AVF	152.53	6	ePKP	56	57.30	7.8X
BGF	152.70	7	ePKP	56	57.80	8.1X
	0.7s		3.85nm			
SMF	152.72	6	ePKP	56	57.80	8.0X
	0.9s		4.90nm			
LSF	152.82	9	ePKP	56	57.80	7.9X
	0.7s		3.85nm			
TCF	152.89	8	ePKP	56	58.30	8.3X
MAF	153.00	8	ePKP	56	58.60	8.4X

S.D. = 0.9 on 12 of 28 obs.

& FEB 04, 1991 02h 07m 21.70s
35.767 N 120.317 W
DEPTH = 6.0km (geophysicist)
CENTRAL CALIFORNIA (39)
<PAS-P>. ML 2.6 (PAS).

PHAM	0.10	316	iPc	07	23.60	-0.3
PKEM	0.34	30	eP	07	29.20	0.6
BCH	0.61	162	iPd	07	33.20	-0.8
ABL	1.28	135	eP	07	44.00	-2.0
ARN	1.86	329	eP	07	57.00	2.6

5 obs. associated

FEB 04, 1991 03h 00m 48.34± 0.94s
19.120 N ± 3.9km 145.415 E ± 5.0km
DEPTH = 199.6 ± 9.4 km
5.0mb (32 obs.)
MARIANA ISLANDS (216)

PJG	5.53	186	eP	02	10.70	0.5
GUA	5.57	185	eP	02	11.30	0.5
	1.2s		1300.00nm			6.0mb
			eS	03	14.50	
IIDJ	17.60	339	iPd	04	41.80	-0.6
			eS	07	56.10	
KAKJ	17.64	346	P	04	38.80	-4.0X
			S	07	53.40	
CHJJ	17.79	343	P	04	42.70	-1.8
			eS	07	53.30	
TSRJ	18.36	335	eP	04	50.50	0.1
MAT	18.48	341	eP	04	50.00	-1.7
	1.5s		138.89nm			5.2mb
			eS	08	03.00	
MTMJ	18.64	341	P	04	52.10	-1.4
NIIJ	18.91	344	P	04	55.10	-1.0
			eS	08	20.60	
YAMJ	19.55	347	P	05	03.10	0.3
OFUJ	20.15	352	P	05	09.10	0.3
HOOJ	23.26	356	eP	05	40.00	1.0
MRRJ	23.52	352	eP	05	41.60	0.1
KUSJ	23.91	359	eP	05	44.70	-0.5
SSE	24.91	303	Pd	05	57.50	2.9
	1.1s		29.00nm			4.8mb
Z	20s		0.50um			4.0Msz
N	14s		0.40um			
E	14s		0.30um			
			sS	11	14.00	
ASAJ	25.03	355	eP	05	56.40	0.8
SNY	29.28	325	Pc	06	31.50	-2.4
	1.2s		20.00nm			4.7mb
BJI	32.65	316	eP	07	02.50	-0.8
	1.5s		62.00nm			5.0mb
			ScP	13	08.00	
MTN	34.74	205	eP	07	21.40	0.0
	0.3s		71.00nm			5.8mb
XAN	35.65	302	eP	07	31.20	2.2
HHC	36.12	314	P	07	33.00	0.1
GYA	36.36	289	P	07	37.00	1.8
BTO	37.07	313	eP	07	41.00	0.1
CD2	39.32	296	eP	08	00.00	0.3
DIS	39.84	189	iPc	08	03.30	-0.6
LZH	40.19	304	eP	08	08.00	1.1
	1.5s		48.00nm			4.8mb
Z	18s		1.50um			4.9Msz
N	10s		0.95um			
			pP	27	51.00	
			sP	27	53.80	
			PP	27	59.50	
			Lg	32	19.50	
WB2	40.31	196	iPc	08	12.40	4.6X
			eS	13	36.00	
WRA	40.31	196	P	08	07.00	-0.8
	0.9s		151.30nm			5.5mb
NST	43.26	273	ePc	08	34.50	2.6
CHG	43.85	278	eP	08	38.00	1.3
ASPA	43.98	195	iPc	08	37.30	-0.3
	1.1s		36.70nm			4.8mb
			iS	14	56.00	
GTA	44.08	307	eP	08	39.40	1.0
ADK	44.12	33	eP	08	39.10	0.8
	0.9s		91.00nm			5.3mb
DZM	45.81	152	iPc	08	51.40	-0.8
BRS	46.78	171	iP	08	56.00	-3.7X
MBL	47.22	213	iPc	09	03.20	0.1
WARB	48.58	203	iPc	09	14.20	0.6
	0.4s		16.00nm			4.8mb
LSA	50.14	293	eP	09	25.80	-0.2
NANU	50.69	217	eP	09	30.00	0.4
	0.3s		6.00nm			4.6mb
FORR	52.40	199	iPd	09	40.10	-2.1
	0.3s		22.00nm			5.3mb
WMO	53.83	311	P	09	53.00	0.1
			S	17	16.00	
GUN	54.84	291	P	10	01.02	0.3
PKI	55.29	291	P	10	03.76	-0.1
KKN	55.38	291	P	10	04.32	-0.1
DMN	55.55	291	P	10	05.58	-0.1
	1.1s		30.00nm			4.9mb
GKN	55.93	291	P	10	08.08	-0.2
	1.1s		88.00nm			5.4mb
BAL	56.63	210	eP	10	11.80	-1.0
	0.3s		17.00nm			5.3mb
KLB	56.98	208	eP	10	14.30	-0.9
MUN	58.01	209	eP	10	22.00	-0.4
NWAO	58.34	208	eP	10	22.00	-2.8
SVW	58.58	29	ePd	10	26.60	0.5
	0.6s		49.20nm			5.4mb
TTA	59.00	27	ePd	10	29.20	0.1
	0.9s		33.80nm			5.1mb
RSO	59.74	30	P	10	32.90	-1.4
SLKM	60.96	31	P	10	40.80	-1.6
IMA	61.00	24	ePd	10	42.80	0.1
	1.0s		30.00nm			5.0mb
PMR	61.72	30	ePd	10	46.50	-0.8
	1.1s		98.80nm			5.5mb
BRW	61.93	18	ePd	10	49.20	0.6
RND	62.25	28	P	10	49.60	-1.3
FBA	63.04	26	eP	10	55.60	-0.4
	0.8s		17.24nm			4.9mb
TOA	63.20	29	eP	10	57.60	0.5
BALM	64.86	31	P	11	07.80	-0.2
INK	69.09	23	eP	11	20.00	-14.2X
	1.0s		46.00nm			
			pP	11	33.00	45kmX
MBC	72.81	14	ePd	11	55.80	-0.5
	0.7s		11.00nm			4.7mb
YKA	77.74	28	eP	12	23.00	-1.3
	0.6s		15.00nm			4.9mb
PNT	78.90	42	eP	12	32.00	1.1
	1.1s		26.00nm			4.9mb
WDC	79.32	51	ePd	12	34.00	0.7
MIN	80.07	51	ePd	12	37.00	-0.5
BRK	80.29	53	eP	12	39.50	1.0
BKS	80.31	53	eP	12	39.50	0.9
	1.0s		39.00nm			5.1mb
ORV	80.38	52	eP	12	39.30	0.4
GCC	80.73	54	eP	12	42.00	1.2
NEW	80.78	42	P	12	40.40	-0.5
MHC	80.91	54	eP	12	42.50	0.6
EDM	81.41	37	ePd	12	44.00	-0.1
PRS	81.42	55	eP	12	45.30	0.9
KEV	81.45	342	iP	12	42.20	-1.7
CMB	81.66	53	ePd	12	46.30	0.6
LLA	81.66	54	eP	12	46.70	1.0
PRI	82.02	55	eP	12	49.00	1.3
FRI	82.49	54	eP	12	50.30	0.4
SOD	82.88	340	iP	12	50.30	-1.0
SES	83.77	39	ePd	12	56.20	0.0
ISA	83.86	55	eP	12	57.00	0.0
TNP	84.01	52	P	12	58.20	0.3
	0.8s		20.88nm			4.9mb
LRM	84.62	43	iPd	13	01.10	0.2
SBB	84.68	55	eP	13	01.00	-0.1
GSC	85.26	54	eP	13	04.00	-0.1
PEC	85.46	56	P	13	05.10	0.1
KAF	85.92	336	iP	13	05.90	-0.7
FFC	86.88	32	iPd	13	11.90	0.5
	0.9s		27.00nm			5.1mb
NUR	87.50	335	eP	13	10.00	-4.2X
GLA	87.58	56	eP	13	16.00	0.7
BW06	87.72	45	P	13	15.00	-1.0
PV09	89.76	49	P	13	25.90	0.1

04d 03h

RSSD	90.75	42	P	13 30.10	-0.1
	1.0s		9.49nm		4.8mb
GOL	91.89	47	P	13 36.20	0.7
	0.8s		7.14nm		4.8mb
HFS	91.89	338	eP	13 32.50	-2.3
	0.4s		1.00nm		4.2mb
GLD	91.97	47	P	13 37.00	1.2
	0.9s		31.58nm		5.3mb
ALQ	93.21	51	eP	13 42.00	0.4
	1.1s		12.03nm		4.9mb
FRB	93.28	14	eP	13 40.00	-1.1
ARE	144.80	92	iPKPc	20 05.00	0.9
	0.7s		17.12nm		
ZOBO	147.95	90	PKPc	20 13.00	3.5X
	0.9s		12.98nm		
LPB	148.02	91	PKP	20 12.00	2.5X
CNCB	148.18	91	ePKP	20 11.00	1.1
			i	20 15.00	
SIV	154.56	87	ePKP	20 27.00	8.5X
S.D. = 1.0 on 97 of 105 obs.					

? FEB 04, 1991 03h 24m 44.95± 5.08s
40.761 N ±24.9km 30.348 E ±34.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

GPA	0.47	184	iPg	24 54.40	-0.2
			iSg	24 59.60	
HRT	0.52	277	iPg	24 55.40	-0.1
			iSg	25 01.90	
YLV	0.77	256	iPg	24 59.80	-0.2
			iSg	25 11.30	
ISK	1.02	288	ePn	25 04.30	0.0
DST	1.75	229	ePn	25 16.00	0.4
S.D. = 0.3 on 5 of 5 obs.					

? FEB 04, 1991 03h 43m 19.41± 3.88s
15.135 N ± 6.7km 60.377 W ±41.8km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)
ML 2.9 (FDF).

CRM	0.64	234	iPd	43 31.91	-0.1
			S	43 41.90	
MVM	0.76	221	iPd	43 33.76	0.0
			S	43 45.40	
BIM	0.91	228	iPd	43 36.00	0.1
			S	43 49.50	
DEG	1.34	331	eP	43 41.78	-0.3
			S	43 58.40	
DOG	1.49	307	eP	43 44.32	0.1
PAG	1.54	305	eP	43 44.60	-0.3
			S	44 04.90	
SEG	1.66	319	eP	43 47.10	0.5
S.D. = 0.3 on 7 of 7 obs.					

FEB 04, 1991 04h 31m 41.68± 0.31s
34.421 N ± 4.2km 32.221 E ± 4.3km
DEPTH = 51.9 ± 9.9 km
3.7mb (1 obs.)
CYPRUS (372)
MD 4.2 (HLW). Felt (III) at Pophos and (II) at Stroumbi.

PPCY	0.47	12	iPgc	31 52.70	-0.1
			eSg	32 00.00	
CSS	1.06	59	ePd	32 00.50	0.0
			eSg	32 15.50	
FAM	1.58	68	ePd	32 09.20	1.6
KSL	2.74	309	eP	32 25.20	1.0
			eS	32 56.10	
BHL	2.89	99	Pn	32 24.50	-1.9
			Sn	32 54.50	
ELL	2.99	322	iPn	32 29.00	1.1
ATZ	3.00	121	iPc	32 27.70	-0.3
ZNT	3.21	132	eP	32 30.90	0.1
			eS	33 04.70	
BCK	3.31	337	iPn	32 34.90	2.6
MML	3.32	126	eP	32 32.70	0.2
SHMJ	3.41	119	Pc	32 33.30	-0.3
JVI	3.61	133	eP	32 36.60	0.0
BURJ	3.70	125	Pd	32 37.50	-0.4
ARG	3.80	299	eP	32 39.10	0.0
KFNJ	3.86	130	P	32 40.20	0.2
YER	4.19	311	iPn	32 44.80	0.1
MKT	4.25	144	eP	32 45.60	0.0
			eS	33 31.30	
KAP	4.29	287	eP	32 45.70	-0.4
MDSJ	4.38	128	P	32 47.50	0.1
KHL	4.46	332	iPn	32 48.40	-0.1
KOT	4.49	184	ePn	32 38.50	-10.3X
			eSn	33 24.00	
HLW	4.61	190	ePn	32 51.60	1.1
			eSn	33 39.00	
PRNI	4.69	149	eP	32 51.50	-0.2
GAZ	4.90	54	iPn	32 52.30	-2.3
ALT	4.93	340	ePn	32 55.90	0.8
MBH	5.16	153	eP	32 58.30	-0.1
SMG	5.46	309	eP	33 02.00	-0.4
NPS	5.50	281	eP	33 02.40	-0.7
HQL	5.67	154	ePc	33 06.70	1.2
			eS	43 48.00	
DST	5.92	332	iPn	33 09.00	0.0
BADA	6.34	157	ePc	33 14.70	-0.1
AYN	6.40	149	eP	33 16.30	0.6
VAM	6.66	281	eP	33 18.00	-1.4
BNT	6.84	331	iPn	33 21.80	0.0
EZN	7.16	321	eP	33 25.00	-1.3
VLI	7.90	290	eP	33 33.40	-3.2X
ITM	8.80	291	eP	33 47.00	-2.1
KHC	20.15	322	eP	36 13.50	-0.6
PRU	20.25	326	eP	36 16.50	1.4
YKA	79.80	345	eP	43 45.90	0.5
	0.5s		0.50nm		3.7mb
S.D. = 1.0 on 38 of 40 obs.					

? FEB 04, 1991 05h 11m 45.09± 3.52s
51.234 N ±27.5km 15.957 E ±18.8km
DEPTH = 10.0km (geophysicist)
POLAND (548)

KSP	0.45	151	iPd	11 53.80	-0.4
	0.6s		47.00nm		
			iS	12 02.80	
BRG	1.32	255	iPg	12 08.80	-0.7
			iSg	12 29.30	
PRU	1.54	216	Pg	12 14.50	1.9
			e	12 18.30	
			Sn	12 31.90	
			eSg	12 39.50	
CLL	1.86	273	ePg	12 18.00	0.8
			eSg	12 44.00	
KHC	2.60	217	ePn	12 27.40	-0.5
			Pg	12 34.00	
			Sn	13 03.00	
			Sg	13 13.20	
MOX	2.81	260	ePg	12 37.00	6.1X
			iSg	13 17.00	
WET	2.88	225	eP	12 32.00	0.1
ZST	3.13	166	e(P)	13 29.00	53.6X
			e	27 44.00	
GRF	3.40	245	ePn	12 38.00	-1.2
			ePg	12 50.80	
			eSg	13 36.60	
S.D. = 1.3 on 7 of 9 obs.					

FEB 04, 1991 06h 09m 48.28± 0.78s
36.050 N ± 8.9km 140.210 E ± 8.2km
DEPTH = 84.7 ± 4.9 km
3.8mb (3 obs.)
NEAR EAST COAST OF HONSHU, JAPAN (228)

KAKJ	0.16	349	iP	10 00.00	-0.6
			S	10 07.00	
CHJJ	0.98	270	iPd	10 07.10	-0.6
			S	10 19.80	
NIIJ	1.53	321	iPd	10 14.20	-0.4
MAT	1.69	287	iPd	10 16.50	-0.2
			eS	10 40.00	
IIDJ	1.95	254	iPd	10 21.60	1.3
			S	10 45.90	
MTMJ	2.01	286	iPd	10 21.50	0.4
YAMJ	2.12	356	P	10 22.90	0.4
			S	10 49.80	
OFUJ	3.24	21	P	10 37.90	0.1
			eS	11 16.30	
TSRJ	3.47	263	eP	10 41.40	0.3
GUN	46.29	276	P	18 08.30	0.7
PKI	46.81	276	P	18 10.18	-1.5
KKN	46.82	276	P	18 11.80	0.2
DMN	47.04	276	P	18 12.68	-0.7
GKN	47.25	277	P	18 15.24	0.3
	0.8s		24.00nm		5.1mb X

WRA	55.96	187	P	19 20.00	0.0
	1.2s		1.20nm		3.8mb
GBA	60.17	265	P	19 49.00	-0.6
YKA	65.14	30	eP	20 22.40	0.5
	0.6s		0.30nm		3.4mb
NB2	74.71	337	P	21 20.50	0.3
	0.6s		1.20nm		4.0mb
S.D. = 0.7 on 18 of 18 obs.					

? FEB 04, 1991 06h 15m 36.35± 6.57s
7.324 N ±93.5km 72.594 W ±39.2km
DEPTH = 210.6 ± 26.8 km
3.5mb (1 obs.)
NORTHERN COLOMBIA (99)

UAV	1.92	48	iPnc	16 15.10	-0.3
			iSn	16 47.20	
SDV	2.48	51	iPn	16 21.90	0.6
			eSn	16 59.40	
TOV	3.70	48	ePn	16 35.20	-0.2
			eSn	17 27.50	
CEOS	4.54	68	iP	16 45.90	-0.1
YKA	62.98	340	eP	25 42.50	0.0
	0.5s		0.40nm		3.5mb
S.D. = 0.7 on 5 of 5 obs.					

? FEB 04, 1991 06h 41m 57.64± 8.90s
36.542 N ±74.1km 13.978 E ±27.0km
DEPTH = 31.4 ± 12.8 km
MEDITERRANEAN SEA (400)

FAI	0.77	342	P	42 12.50	0.3
			eSn	42 33.00	
MEU	0.95	54	P	42 14.60	-0.2
			eSg	42 39.10	
GIB	1.44	2	P	42 21.00	-0.9
			eSn	42 50.00	
MNO	1.50	22	P	42 23.40	0.6
			eSn	42 52.70	
ATN	2.00	36	P	42 30.20	0.7
SOI	2.25	47	P	42 33.20	-0.1
			eSn	43 08.30	
S.D. = 0.8 on 6 of 6 obs					

& FEB 04, 1991 07h 05m 41.82s
62.002 N 149.936 W
DEPTH = 40.9km
CENTRAL ALASKA (1)
<AEIC>.

PWA	0.35	176	iP	05 50.75	0.0
			eS	05 57.86	
CUT	0.43	339	iP	05 51.06	-0.7
			eS	05 58.49	
GHO	0.53	115	iP	05 52.57	-0.6
			eS	06 01.68	
PLRM	0.56	137	iP	05 52.48	-0.9
			eS	06 02.05	
SUA	0.66	216	eP	05 54.46	-0.5
			iS	06 03.93	
SKT	0.75	269	iP	05 54.86	-1.2
			eS	06 05.59	
PMS	0.78	167	iP	05 55.67	-0.9
			eS	06 07.08	
KNK	0.92	129	eP	05 57.55	-0.9
			S	06 11.63	
HUR	0.99	8	iP	05 58.58	-0.9
			eS	06 11.87	
CGLM	1.21	236	eP	06 01.41	-1.2
NCG	1.22	241	eP	06 01.10	-1.6
			S	06 18.74	
SPU	1.31	232	eP	06 02.93	-1.0
			iS	06 21.65	
BGL	1.39	239	eP	06 04.02	-1.1
CKL	1.40	236	eP	06 04.21	-1.2
			iS	06 24.44	
NKA	1.41	207	eP	06 06.81	1.5
TRF	1.46	354	eP	06 05.10	-1.2
RND	1.50	19	eP	06 05.45	-1.2
			eS	06 24.51	
SLKM	1.51	185	eP	06 06.10	-0.7
			eS	06 24.89	
GLI	1.77	128	iP	06 09.37	-1.1
TOA	1.78	85	iP	06 10.57	-0.1
MCK	1.80	14	eP	06 10.29	-0.6
RDT	1.86	221	eP	06 11.11	-0.8
VZW	1.88	119	eP	06 11.17	-0.9

```
SEW      1.92  173 eP     06 13.15   0.6
VLZ      1 93  115 eP     06 11.29  -1.5
KNIM     1.97  146 iP     06 11.21  -2.2
KLU      1.98  103 iP     06 12.23  -1.3
REF      2.02  223 eP     06 14.15  -0.2
RDN      2.02  224 eP     06 13.86  -0.4
NCT      2.04  226 eP     06 14.64   0.1
RED      2.10  222 eP     06 15.31  -0.1
SDG      2.12   74 eP     06 15.34  -0.3
TZL      2.13   87 eP     06 15.12  -0.6
BWN      2.19    5 eP     06 15.53  -1.0
PAX      2.29   63 eP     06 17.83  -0.3
BRLK     2.29  192 eP     06 18.78   0.7
CNPM     2.57  195 eP     06 21.17  -0.7
WRH      2.62   18 eP     06 21.11  -1.4
HDA      2.77   28 eP     06 22.08  -2.6
CCB      2.82   19 eP     06 23.71  -1.8
RDS      2.95   15 eP     06 25.17  -2.1
GLB      2.97   98 eP     06 25.62  -2.0
MDM      3.07   14 eP     06 27.07  -1.9
        43 obs. associated
-------------------------------------
?  FEB  04, 1991  07h 46m 17.30± 2.00s
   15.397 S ±42.7km   70.023 W ±28.0km
   DEPTH = 230.9 ± 21.9 km
   3.3mb (  1 obs.)
 SOUTHERN PERU                  (117)

ZOBO     2.02  116 iPc    47 00.00   0.6
                 S       47 31.00
LPB      2.17  122 iPc    46 59.30  -1.4
                 S       47 33.00
CNCB     2.41  126 iPc    47 04.10   0.8
                 S       47 38.00
SIV      8.64   95 Pc     48 19.80   0.0
YKA     85.11  341 eP     58 28.00   0.0
        0.5s      0.30nm          3.3mb
WRA    137.49  215 PKP    05 16.00   0.0
        0.4s      1.60nm
GBA    148.46   89 PKPc   05 39.00   4.1X
        0.6s      1.80nm
      S.D. = 1.2  on   6 of   7 obs.
-------------------------------------
%  FEB  04, 1991  08h 21m 46.07± 3.32s
   39.072 N ±26.2km   27.607 E ± 9.1km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                         (366)
      MD 2.9 (ISK).

DST      0.95   56 iPg    22 04.20  -0.1
EZN      1.25  308 ePn    22 09.20   0.0
EDC      1.29    9 ePn    22 09.50  -0.4
BNT      1.30   11 iPn    22 10.50   0.3
KCT      1.31   26 ePn    22 10.50   0.2
      S.D. = 0.4  on   5 of   5 obs.
-------------------------------------
&  FEB  04, 1991  08h 57m 19.70s
   37.815 N          121.252 W
   DEPTH =  11.0km
 CENTRAL CALIFORNIA             ( 39)
      <BRK>. ML 2.8 (BRK). Felt at
      Manteca.

ARN      0.52  206 iPc    57 29.60  -0.6
MHC      0.56  213 iP     57 30.60  -0.6
                 iS      57 35.90
CMB      0.72   72 iPd    57 33.10  -0.7
                 iS      57 44.00
BKS      0.78  275 eP     57 34.40  -0.4
BRK      0.80  274 eP     57 34.40  -0.7
ZSP      0.81  280 iPc    57 34.76  -0.5
PCC      0.95  251 iPd    57 36.51  -1.2
                 iS      57 49.68
GCC      0.98  217 eP     57 37.50  -0.7
SAO      1.06  188 eP     57 38.24  -1.3
LLA      1.22  168 eP     57 41.47  -0.9
FRI      1.48  123 ePc    57 45.16  -1.0
ORV      1.75  354 iPd    57 48.30  -1.8
BONR     2.34   86 eP     57 59.40   0.4
KVN      2.77   63 eP     58 04.50  -0.4
        14 obs. associated
-------------------------------------
   FEB  04, 1991  10h 00m 53.27± 0.30s
   23.892 N ± 3.9km  121.659 E ± 4.6km
   DEPTH =  17.3km  (  3 depth phases)
   5.1mb ( 32 obs.)
 TAIWAN                         (244)

      ML 4.8 (BJI).

TWD      0.20  343 iPd    01 00.10   1.9
                 eS      01 03.10
TWF1     0.63  212 iPc    01 06.00   0.5
                 eS      01 15.50
TWC      0.73   14 ePd    01 09.90   2.7
TWO      0.84  297 iPd    01 09.30   0.2
                 eS      01 19.90
TWG      1.20  207 ePd    01 16.70   1.6
                 eS      01 32.90
TWZ      1.20  357 eP     01 16.90   1.7
                 eS      01 33.90
TWK      1.24  240 iPc    01 16.30   0.5
                 eS      01 31.60
ANP      1.29  354 iP     01 16.90   0.3
                 eS      01 32.00
QZH      2.99  291 iPn    01 40.00  -0.7
                 sP      01 50.00
                 iSn     02 15.00
SSE      7.19  357 Pd     02 38.00  -2.1
      Z  12s      5.90um
      N  10s      3.60um
                 sP      02 47.50
                 S       04 04.00
BAG      7.51  188 eP     02 46.20   1.4
GZH      7.67  266 Pc     02 45.00  -1.9
      Z  14s      5.10um
NJ2      8.50  344 Pd     02 56.10  -2.3
        1.0s    100.00nm          6.0mb
      Z  12s      4.60um          5.0Msz
                 pP      03 03.00
                 sP      03 06.00
                 S       04 29.80
WHN      9.28  317 P      03 06.00  -3.2X
      Z  12s      3.90um
      N  11s      5.70um
      E  11s      3.60um
                 pP      03 10.00
QIZ     12.02  249 eP     03 46.80   0.1
      N  14s      1.40um
      E  12s      1.00um
GYA     13.82  284 P      04 09.00  -1.8
      Z  12s      3.80um
DL2     14.97  360 eP     04 30.00   4.4X
      Z  12s      1.40um
      N  12s      1.60um
                 eS      07 18.00
XAN     15.04  315 P      04 26.00  -0.6
      E  11s      2.60um
                 S       07 09.00
TIY     15.88  332 iPc    04 41.00   3.5X
        1.1s    100.00nm          4.9mb
      Z  13s      4.10um          4.3Msz
      N  11s      4.50um
                 pP      04 47.00
                 sP      04 53.00
BJI     16.75  345 eP     04 50.50   2.0
        2.0s    130.00nm          4.7mb
      Z  12s      2.20um
      N  12s      1.90um
KMI     17.26  278 Pd     04 59.00   3.6X
        2.5s     90.00nm          4.5mb
      Z  13s      4.00um          3.9Msz
      E  10s      1.60um
CD2     17.35  298 eP     04 55.30  -1.0
        1.1s    100.00nm          4.9mb
      Z  12s     12.00um
      E  11s      5.20um
HHC     18.91  336 P      05 17.20   1.7
        1.2s    100.00nm          4.9mb
      Z  14s      2.60um
      N  11s      1.30um
      E  11s      0.70um
MAT     19.03   45 (P)    05 21.00   4.1X
                 eS      08 55.00
BTO     19.32  332 eP     05 20.50   0.0
      N  11s      4.50um
      E  11s      2.40um
                 ePP     05 39.00
LZH     19.60  312 iPc    05 24.20   0.3
        1.5s    140.00nm          5.0mb
      Z  15s      3.94um          4.9Msz
      E  10s      1.99um
                 pP      05 30.00  23km
CN2     20.10    8 eP     05 29.00   0.2
      Z  15s      4.40um          4.9MszX

      N  15s      1.70um
      E  15s      0.40um
                 pP      05 33.00  15km
                 eS      09 16.00
MDJ     21.67   15 eP     05 43.80  -1.1
CHG     21.74  261 ePc    05 46.30   0.5
        1.1s    118.35nm          5.2mb
NST     21.82  252 eP     05 48.00   1.4
BDT     22.20  257 eP     05 50.60   0.2
KHT     23.55  252 eP     06 06.20   2.6
GTA     24.10  315 iPd    06 10.00   1.0
        1.9s    210.00nm          5.4mb
      Z  14s      2.90um          4.9MszX
      E  11s      1.90um
                 PcP     09 50.20
                 sS      10 35.00
IPM     27.64  229 ePd    06 43.50   1.3
LSA     27.79  289 Pc     06 44.60   0.7
GUN     32.36  285 P      07 23.92  -0.6
        1.0s    119.00nm          5.8mb
PKI     32.79  284 P      07 27.42  -0.7
        1.1s     65.00nm          5.5mb
KKN     32.90  285 P      07 28.20  -0.8
        0.9s     96.00nm          5.7mb
DMN     33.05  284 P      07 29.64  -0.8
        1.0s     99.00nm          5.7mb
GKN     33.46  285 P      07 33.02  -0.8
        1.2s    172.00nm          5.9mb
WMQ     34.17  314 Pd     07 40.00   0.3
        2.5s    100.00nm          5.3mb
      Z  14s      1.70um          4.9MszX
                 PP      08 57.00
                 eS      13 09.00
                 sS      13 19.50
NDI     39.96  287 iPd    08 28.50  -0.1
HYB     40.73  269 eP     08 36.00   1.0
                 e       08 50.50  56kmX
GBA     42.95  264 P      08 54.20   1.0
KOD     44.19  260 eP     09 03.80   0.2
POO     44.73  273 iPd    09 07.50  -0.1
WB2     45.29  163 iPd    09 09.60  -2.4
QIS     47.51  157 eP     09 29.00  -0.5
ASPA    48.75  165 iPd    09 38.20  -0.9
        1.0s     10.80nm          4.8mb
QUE     48.75  290 eP     09 39.80   0.4
RMQ     56.52  151 eP     10 36.00  -1.0
TTA     65.54   30 eP     11 38.20   0.4
        0.9s     16.60nm          5.2mb
SVW     65.90   32 eP     11 41.40   1.4
IMA     66.27   26 eP     11 42.50   0.0
        1.3s     13.50nm          4.9mb
RSO     67.37   32 P      11 49.90   0.2
SLKM    68.60   32 P      11 55.80  -1.3
RND     68.70   29 P      11 57.00  -0.7
FBA     68.87   27 eP     11 58.80   0.2
        1.1s     72.50nm          5.7mb
PMR     68 92   31 eP     11 58.70  -0.2
        1.3s     51.50nm          5.5mb
TOA     70.18   30 ePc    12 07.90   1.2
INK     73.33   22 eP     12 24.00  -1.4
MBC     73.45   13 eP     12 26.00   0.0
        1.4s     13.00nm          4.8mb
VRI     76.52  314 eP     12 47.50   3.4X
MLR     77.17  314 eP     12 53.50   5.6X
HFS     78.03  331 eP     12 52.30   0.2
        0.4s      1.00nm          4.2mb
NB2     78.68  332 P      12 56.10   0.3
        0.8s      4.60nm          4.6mb
KSP     80.93  322 eP     13 06.00  -2.0
SKO     81.53  312 eP     13 12.00   0.7
                 i       13 16.50  14km
PRU     82.32  322 eP     13 21.00   5.8X
CLL     82.55  323 eP     13 16.00  -0.4
YKA     83.07   23 eP     13 18.00  -0.9
        0.9s      6.80nm          4.8mb
KHC     83.28  321 eP     13 20.00  -0.3
PNT     89.05   35 eP     13 50.00   1.3
LPG     89.13  320 eP     13 48.40  -1.1
LPL     89.13  320 eP     13 48.50  -0.9
LOR     89.76  323 eP     13 51.50  -0.6
        1.1s     12.20nm          5.1mb
LBF     89.86  323 eP     13 52.30  -0.3
        1.0s     10.00nm          5.0mb
SSF     90.08  323 eP     13 52.50  -1.0
SMF     90.14  322 eP     13 52.70  -1.1
        0.9s      9.85nm          5.1mb
AVF     90.32  323 eP     13 53.40  -1.2
```

04d 10h

	1.0s	7.00nm		4.9mb		
BGF	90.74	323 eP	13 55.40	-1.2		
	1.5s	33.95nm		5.4mb		
NEW	91.00	35 P	13 59.00	1.2		
	0.8s	11.67nm		5.3mb		
MAF	91.10	323 eP	13 57.40	-0.8		
SES	92.61	31 eP	14 06.00	0.8		
FFC	93.22	24 eP	14 07.50	-0.4		
	0.8s	9.00nm		5.2mb		
ORV	93.67	44 P	14 08.20	-2.0		
TNP	97.24	43 P	14 29.00	2.2		
	0.8s	2.94nm		4.9mb		
RFA	166.03	143 iPKPd	20 52.00	-6.5X		
ZOBO	168.09	52 ePKPc	21 01.00	-0.1		
	1.0s	2.50nm				
LPB	168.28	53 (PKP)	21 05.00	4.0X		
		e	22 12.00			
CNCB	168.54	54 PKP	21 03.00	1.7		
		i	22 11.00			
	S.D. = 1.2	on 81 of 91 obs.				

? FEB 04, 1991 10h 39m 04.01± 1.54s
27.020 N ±23.7km 128.906 E ±19.7km
DEPTH = 33.0km (normal)
4.8mb (4 obs.)
RYUKYU ISLANDS (238)

BJI	16.75	324 eP	42 58.50	0.9		
GUN	38.04	282 P	46 21.90	0.3		
PKI	38.51	281 P	46 24.74	-0.8		
	0.5s	13.00nm		5.0mb		
KKN	38.59	281 P	46 25.92	-0.1		
DMN	38.77	281 P	46 27.42	-0.2		
GKN	39.11	282 P	46 30.02	-0.3		
GBA	49.77	265 P	47 57.00	1.4		
HFS	78.40	332 eP	51 01.50	-1.1		
	0.3s	1.30nm		4.4mb		
NB2	78.87	334 P	51 03.80	-1.4		
	0.7s	3.80nm		4.5mb		
FFC	87.62	27 ePd	51 51.30	1.3		
	0.8s	9.00nm		5.1mb		
	S.D. = 1.1	on 10 of 10 obs.				

& FEB 04, 1991 10h 47m 04.94s
61.773 N 147.072 W
DEPTH = 2.7km
SOUTHERN ALASKA (2)
<AEIC>. ML 3.0 (PMR).

TOA	0.54	52 iPd	47 17.60	1.9		
SML	0.60	274 eP	47 17.25	0.3		
KLU	0.62	117 iP	47 17.80	0.5		
		iS	47 26.86			
VLZ	0.74	151 iP	47 18.95	-0.7		
		iS	47 30.16			
KNK	0.75	242 iP	47 19.90	-0.1		
VZW	0.76	161 iP	47 19.48	-0.6		
		eS	47 30.30			
TZL	0.83	70 iP	47 21.15	-0.3		
		S	47 33.09			
GHO	0.88	271 eP	47 21.05	-1.5		
GLI	0.90	181 iP	47 22.05	-0.8		
		eS	47 36.63			
PLRM	1.00	260 eP	47 22.82	-1.7		
PMR	1.00	260 ePd	47 23.60	-0.9		
SDG	1.04	43 iP	47 23.76	-1.6		
PMS	1.31	247 eP	47 28.45	-1.4		
		eS	47 45.73			
PWA	1.34	266 eP	47 28.53	-1.9		
		eS	47 47.61			
CVA	1.39	152 eP	47 29.52	-1.7		
		eS	47 50.58			
HIN	1.41	168 eP	47 30.08	-1.5		
PAX	1.42	31 eP	47 29.05	-2.7		
KNIM	1.47	193 eP	47 30.54	-1.8		
SGAM	1.56	144 eP	47 31.77	-2.0		
GLB	1.59	101 eP	47 31.57	-2.6		
CUT	1.63	294 eP	47 32.77	-1.9		
		eS	47 53.82			
HUR	1.70	316 eP	47 33.66	-2.0		
		eS	47 55.85			
SUA	1.78	262 eP	47 35.40	-1.6		
		eS	47 59.46			
MTU	1.81	189 eP	47 36.09	-1.3		
RAGM	1.81	139 eP	47 36.07	-1.3		
RND	1.83	334 eP	47 35.68	-2.0		
		eS	47 59.29			
SLKM	1.99	232 eP	47 38.15	-1.7		
HMT	1.99	135 eP	47 38.28	-1.6		
SEW	2.04	216 eP	47 39.15	-1.4		
SKT	2.12	278 eP	47 39.92	-1.9		
		eS	48 06.58			
MCK	2.15	337 eP	47 40.47	-1.7		
TRF	2.25	320 eP	47 41.40	-2.4		
NKA	2.26	245 eP	47 43.06	-0.8		
TGL	2.29	115 iP	47 41.97	-2.4		
BALM	2.39	106 eP	47 43.11	-2.7		
WAX	2.44	121 eP	47 43.77	-2.7		
NCG	2.46	264 eP	47 44.63	-2.1		
SPU	2.46	258 eP	47 44.35	-2.4		
CKL	2.59	259 eP	47 46.08	-2.5		
BGL	2.60	261 eP	47 46.50	-2.2		
BWN	2.64	337 eP	47 46.93	-2.3		
HDA	2.64	1 eP	47 47.76	-1.5		
NNL	2.70	232 eP	47 48.77	-1.3		
WRH	2.75	351 eP	47 48.46	-2.3		
BRLK	2.75	225 eP	47 48.30	-2.5		
RDT	2.85	247 eP	47 49.37	-2.9		
CTGM	2.88	104 eP	47 50.07	-2.7		
CC8	2.90	354 eP	47 50.38	-2.6		
NEA	2.96	343 eP	47 51.19	-2.5		
REF	3.02	247 eP	47 52.32	-2.4		
RDN	3.03	248 eP	47 52.30	-2.6		
CNPM	3.05	224 eP	47 52.06	-2.9		
RSO	3.05	247 eP	47 52.35	-2.9		
RS2	3.06	247 eP	47 53.91	-1.4		
NCT	3.09	249 eP	47 53.31	-2.3		
RDS	3.10	351 eP	47 53.52	-2.2		
FBA	3.16	354 eP	47 54.70	-1.8		
GLM	3.23	358 eP	47 54.99	-2.6		
MDM	3.24	351 eP	47 55.19	-2.5		
SVW	4.16	265 eP	48 07.20	-3.6		
TTA	4.33	289 eP	48 11.40	-1.8		
IMA	5.20	329 ePc	48 22.50	-3.2		
YKA	15.11	73 eP	50 58.50	17.7		
	0.8s	1.00nm				
	63 obs. ossocioted					

* FEB 04, 1991 13h 20m 21.80± 0.74s
26.877 N ±11.1km 44.665 W ±16.7km
DEPTH = 10.0km (geophysicist)
4.9mb (6 obs.)
NORTH ATLANTIC RIDGE (403)

RSCP	35.83	294 P	27 24.00	0.4		
SIV	45.49	202 eP	28 48.00	4.7X		
ZOBO	48.56	211 P	29 07.50	-0.6		
LPB	48.78	210 eP	29 10.00	0.5		
CNCB	48.97	210 P	29 11.00	-0.2		
FFC	49.75	320 eP	29 15.00	-1.2		
	0.9s	16.00nm		5.0mb		
ALO	52.90	295 eP	29 41.00	0.5		
BW06	54.31	305 P	29 51.00	0.2		
	0.8s	6.55nm		4.7mb		
YKA	57.28	329 eP	30 09.30	-2.4		
	1.3s	3.90nm		4.3mb		
NEW	59.04	312 P	30 25.00	0.8		
	1.0s	17.50nm		5.1mb		
MBC	60.46	345 eP	30 35.00	1.4		
BCAO	64.15	99 iPd	30 59.10	0.0		
	0.5s	6.00nm		5.0mb		
INK	64.91	336 eP	31 03.00	-0.2		
FBA	71.33	334 P	31 44.00	0.7		
	1.0s	11.00nm		4.9mb		
	S.D. = 1.1	on 13 of 14 obs.				

FEB 04, 1991 13h 43m 14.93± 1.03s
42.667 N ± 9.9km 23.590 E ± 5.4km
DEPTH = 10.0km (geophysicist)
BULGARIA (359)

VTS	0.29	255 iPgc	43 21.00	-0.1		
PGB	0.44	105 iPgc	43 24.00	0.1		
KKB	0.88	205 eP	43 31.00	-0.9		
PLD	1.00	124 eP	43 33.00	-0.8		
MMB	1.08	175 iPgd	43 35.00	-0.3		
RZN	1.29	139 iPd	43 39.00	0.1		
PVL	1.39	66 eP	43 40.00	-0.4		
VAY	1.54	210 ePn	43 43.60	1.1		
KDZ	1.70	126 eP	43 46.00	1.3		
	S.D. = 0.9	on 9 of 9 obs.				

% FEB 04, 1991 14h 59m 35.10± 0.86s
40.238 N ± 6.8km 23.458 E ± 9.3km
DEPTH = 10.0km (geophysicist)
GREECE (364)

PAIG	0.35	151 ePc	59 42.34	0.0		
		eS	59 48.10			
LIT	0.75	260 iPc	59 49.90	0.0		
SRS	0.88	7 ePd	59 52.38	0.3		
KNT	1.02	335 ePd	59 53.74	-0.6		
		iS	00 08.94			
GRG	1.08	312 ePd	59 55.74	0.3		
	S.D. = 0.5	on 5 of 5 obs.				

? FEB 04, 1991 15h 11m 26.30± 5.03s
31.275 S ±13.4km 68.811 W ±37.4km
DEPTH = 128.9 ± 48.0 km
SAN JUAN PROVINCE, ARGENTINA (137)

RTCB	0.21	177 iPd	11 44.00	-0.6		
RTLL	0.30	101 iPc	11 44.50	-0.3		
RTCV	0.63	158 iPd	11 47.00	0.6		
RTRS	1.24	333 iPc	11 52.00	0.3		
		eS	12 09.20			
JACH	2.06	227 iPd	12 02.00	0.4		
		iS	12 29.00			
PEL	2.45	220 iPc	12 06.50	0.1		
		iS	12 36.40			
ROCH	2.52	227 eP	12 07.50	0.0		
		iS	12 37.50			
PCH	2.75	211 eP	12 11.50	1.2		
		iS	12 45.00			
TACH	2.98	217 iP	12 13.00	-0.2		
		iS	12 49.00			
LNV	3.46	219 iPd	12 18.00	-1.5		
		i	13 01.50			
	S.D. = 0.9	on 10 of 10 obs.				

FEB 04, 1991 15h 22m 16.86± 0.45s
40.261 N ± 3.5km 29.584 E ± 4.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.8 (ISK).

YLV	0.35	332 ePg	22 23.70	-0.3		
GBZT	0.54	349 ePg	22 28.00	0.3		
		iSg	22 35.60			
GPA	0.56	87 iPg	22 28.00	-0.2		
		iSg	22 36.40			
HRT	0.56	7 iPg	22 28.10	-0.2		
ISK	0.90	334 ePg	22 34.50	0.5		
		iSg	22 47.00			
KCT	0.94	270 iPg	22 35.00	0.2		
DST	0.98	229 iPg	22 35.40	-0.2		
		iSg	22 49.00			
ALT	1.27	161 iPn	22 41.00	0.5		
BNT	1.28	275 iPn	22 40.50	0.0		
EDC	1.32	274 ePn	22 41.00	-0.2		
KHL	1.94	181 ePn	22 50.00	-0.2		
BBTK	2.47	99 ePg	23 11.50	13.5X		
	S.D. = 0.3	on 11 of 12 obs.				

FEB 04, 1991 16h 12m 00.85± 0.27s
15.756 N ± 5.6km 93.116 W ± 6.1km
DEPTH = 91.5km (4 depth phases)
4.9mb (12 obs.)
NEAR COAST OF CHIAPAS, MEXICO (69)

SCX	1.08	25 iP	12 27.20	5.4X		
		(S)	12 54.76			
TPX	1.18	136 iPc	12 26.00	2.9		
		iS	12 45.00			
OXX	3.70	291 iP	12 56.00	-1.2		
		iS	13 31.50			
LVVM	5.08	322 iP	13 12.00	-4.0X		
IISM	5.18	309 iP	13 15.25	-2.2		
IIT	5.93	304 eP	13 29.70	7		
PPM	6.21	303 iP	13 32.50	1		
ACX	6.57	281 (P)	13 31.00	- X		
III	6.61	294 iPc	13 36.00	-		
MEO	19.57	346 iPc	16 23.20	-0 .		
PWLA	19.67	12 P	16 24.00	-1.1		
OLY	19.72	4 P	16 25.00	-0.6		
PRM	20.66	26 P	16 36.00	0.7		
RSCP	20.88	17 P	16 40.00	2.4		
JSC	21.31	28 P	16 42.40	0.6		
LHS	21.68	28 P	16 47.00	1.5		
ELC	21.72	8 P	16 45.40	-0.4		
GLA	26.13	315 eP	17 29.00	0.8		

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GOL     26.15 338 P      17 28.70   0.1
        0.7s    14.56nm          4.6mb
                pP       17 49.50  94km
TPC     27.57 316 eP     17 41.00  -0.3
PLM     27.70 314 eP     17 43.00   0.4
MSU     28.20 327 P      17 47.60   0.5
GSC     28.78 317 eP     18 06.00  13.8X
SBB     29.11 315 eP     17 54.00  -1.2
DAU     29.20 331 P      17 56.50   0.3
CLC     29.60 317 eP     18 02.00   2.4
RSSD    29.76 344 P      18 01.20   0.2
        0.6s    12.83nm          4.8mb
BW06    30.39 336 P      18 06.00  -0.6
SYP     30.52 313 eP     18 09.00   1.3
BONR    31.34 320 P      18 17.00   1.9
                pP       18 35.00  76kmX
PRI     31.84 315 eP     18 20.90   1.6
KVN     31.90 322 P      18 20.00   0.1
CMB     32.71 318 eP     18 27.70   1.0
LRM     34.08 336 iPc    18 39.30   0.6
SES     37.47 341 ePc    19 07.20   0.2
        0.8s    46.00nm          5.5mb
NEW     37.95 334 P      19 10.00  -1.1
FFC     39.49 352 iPc    19 23.30  -0.5
        0.6s    16.00nm          5.1mb
PNT     39.83 333 iP     19 27.00   0.3
        0.7s    13.00nm          4.9mb
ZOBO    40.26 141 Pd     19 31.90   0.7
        1.0s    10.75nm          4.7mb
                eLR      32 20.00
LPB     40.48 141 P      19 30.00  -2.8X
EDM     40.63 341 iPc    19 33.50   0.2
CNCB    40.77 141 P      19 35.00  -0.3
SCH     43.98  22 eP     19 59.00  -1.5
SIV     44.67 133 iPc    20 06.20  -0.3
                i        20 28.80  95km
YKA     49.08 347 eP     20 39.50  -0.9
        0.4s    18.00nm          5.4mb
ROCH    52.86 157 eP     21 09.00  -0.7
PEL     53.14 156 iPd    21 11.00  -0.5
TACH    53.49 157 eP     21 13.80  -0.2
LNV     53.59 158 iPc    21 14.10  -0.5
PCH     53.63 157 eP     21 14.70  -0.4
BAO     54.39 123 ePc    21 20.50  -0.5
PPD     55.57 131 e(P)   21 27.00  -2.4
SOB1    57.35 112 eP     21 43.80   1.6
INK     58.46 344 iPc    21 48.10  -1.0
        0.7s    72.00nm          5.9mb
                pP       22 10.00  87km
KLU     58.93 334 P      21 52.00  -0.6
TOA     59.31 334 P      21 55.00  -0.2
PDCR    60.36 115 eP     22 01.10  -1.8
                i        22 02.60   5kmX
FBA     61.21 337 P      22 07.00  -1.1
MBC     62.05 353 iPc    22 12.90  -0.6
        0.5s    18.00nm          5.4mb
TTA     63.85 333 P      22 24.00  -1.7
        0.8s    12.07nm          4.9mb
                pP       22 47.00  90km
NB2     83.12  28 P      24 18.30   0.6
        0.8s     3.50nm          4.3mb
HFS     84.59  29 eP     24 25.20   0.2
        0.5s     1.40nm          4.2mb
KEV     85.14  18 eP     24 27.00  -0.6
LIC     86.50  85 P      24 34.10  -1.2
KIC     86.74  84 P      24 35.20  -1.3
NUR     89.28  26 eP     24 47.00  -0.8
KMZ    121.05  96 iPKP   30 56.00  10.6X
LSZ    123.61  98 iPKP   30 51.00   0.7
QUE    130.45  23 ePKP   31 04.30   1.1
WRA    134.75 257 PKP    31 10.00  -1.3
        0.6s     4.10nm
NDI    134.84  12 iPKPd  31 10.20  -1.1
GKN    136.45   3 PKP    31 15.40   0.8
        0.6s    24.00nm
GUN    136.58   1 PKP    31 15.34   0.3
        0.7s    13.00nm
KKN    136.69   2 PKP    31 15.38   0.3
        0.8s    16.00nm
DMN    136.86   2 PKP    31 16.40   0.9
PKI    136.91   2 PKP    31 15.96   0.3
        0.6s     6.00nm
CHG    143.65 340 ePKP   31 27.10  -0.4
BDT    145.10 339 iPKPc  31 28.80  -1.2
        0.6s    69.70nm
HYB    146.03  14 iPKPd  31 32.50   0.9
        0.8s    61.50nm
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                        e        31 55.00
KHT    147.52 339 ePKP   31 34.50   0.5
MUN    148.83 234 ePKP   31 37.50   1.8
BAL    148.98 236 ePKP   31 38.50   2.5
GBA    149.37  18 PKPc   31 36.50  -0.4
        0.4s     4.70nm
KOD    152.55  20 ePKP   31 50.50   8.4X
      S.D. = 1.1  on  77 of  84 obs.
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   FEB  04, 1991  16h 12m 23.34± 0.60s
   44.747 N ± 3.8km    6.603 E ±11.2km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                          (538)
      ML 2.6 (LDG).

FOUF     0.25 150 ePgc   12 27.95  -0.7
                 e(Sg)   12 29.29
BNI      0.31   9 P      12 30.50   0.7
                 eSg     12 36.50
LPG      0.76   8 Pg     12 38.00  -0.4
                 Sg      12 48.60
LPL      0.77   7 Pg     12 38.20  -0.4
                 Sg      12 49.00
SBF      1.07 146 Pg     12 44.20   0.7
                 Sg      12 59.50
FRF      1.19 178 Pg     12 45.40  -0.1
                 Sg      13 02.20
CDR      1.23 210 ePd    12 46.20   0.0
                 e       13 00.60
LMR      1.41 183 Pg     12 49.30   0.2
                 Sg      13 08.60
      S.D. = 0.6  on   8 of   8 obs.
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?  FEB  04, 1991  16h 15m 56.82± 1.82s
   43.689 N ±17.1km   12.699 E ±12.3km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                   (381)

ARV      0.26 137 Pc     16 02.20  -0.1
                 eSg     16 08.00
CRE      0.55 264 P      16 07.80  -0.1
                 eSg     16 16.50
ASS      0.62 183 P      16 09.50   0.2
                 eSg     16 15.50
SFI      0.66 291 P      16 10.00   0.1
                 eSg     16 20.00
      S.D. = 0.3  on   4 of   4 obs.
-------------------------------------
   FEB  04, 1991  16h 18m 12.90± 0.57s
   43.461 N ± 4.3km    5.477 E ± 4.5km
   DEPTH =   8.5 ±  3.9 km
 NEAR SOUTH COAST OF FRANCE      (379)
      MD 2.9 (STR).

GELF     0.09 205 Pg     18 14.93  -0.3
PUYF     0.18  66 Pg     18 17.03   0.2
TREF     0.18 337 Pg     18 16.73   0.0
BERF     0.21 133 Pg     18 18.00   0.5
CDR      0.30  44 ePg    18 17.70  -1.4
                 i(Sg)   18 22.40
PRAF     0.41 327 Pg     18 21.40   0.2
VILF     0.43  24 Pg     18 22.00   0.4
TAVF     0.45  69 Pg     18 22.22   0.2
CALN     1.07  74 Pg     18 33.64   0.4
                 Sg      18 49.08
MVIF     1.29  70 Pn     18 36.71  -0.4
TOUF     1.40  66 Pn     18 38.76   0.0
                 Sg      18 59.36
REVF     1.40  78 Pn     18 38.86   0.1
                 Sg      18 59.57
AURF     1.41  72 Pn     18 38.21  -0.7
                 Sg      18 59.20
FOUF     1.42  41 e(Pg)d 18 40.03   1.1
                 e(Sg)   18 58.01
S8F      1.48  74 Pn     18 39.36  -0.4
AUTN     1.51  69 Pn     18 40.57   0.1
SAOF     1.60  70 Pn     18 40.92  -0.5
DOI      1.65  50 P      18 46.00   3.7X
                 eSn     19 08.00
BNI      1.81  28 P      18 49.00   4.4X
                 eSn     19 14.00
      S.D. = 0.6  on  17 of  19 obs.
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&  FE8  04, 1991  16h 28m 39.51s
   60.130 N          152.768 W
   DEPTH = 105.3km
   3.3mb (  1 obs.)
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 SOUTHERN ALASKA                 (  2)
      <AEIC>.

RED      0.29 360 iP     28 54.26   0.9
                 eS      29 05.82
RSO      0.33   1 iP     28 54.66  -0.7
RS2      0.33   1 iP     28 54.70  -0.7
REF      0.36   5 iP     28 54.82  -0.7
RDN      0.39   0 iP     28 54.89  -0.6
                 eS      29 06.56
NCT      0.44 350 iP     28 55.09  -0.7
RDT      0.48  22 eP     28 55.33  -0.7
HOM      0.74 129 eP     28 57.71  -0.3
                 eS      29 11.56
NNL      0.74  96 iP     28 58.22   0.2
PDB      0.79 245 iP     28 57.61  -0.9
AUE      0.83 202 iP     28 57.92  -0.9
                 eS      29 12.56
AUH      0.84 204 iP     28 58.31  -0.8
XLV      0.86 142 eP     28 58.33  -0.8
                 eS      29 13.65
AUI      0.86 203 eP     28 58.23  -1.0
                 eS      29 12.60
NKA      0.98  50 iP     29 01.35   1.0
CNPM     0.98 127 iP     28 59.88  -0.6
                 eS      29 15.93
BRLK     1.02 110 eP     28 59.91  -0.9
                 S       29 16.16
CKL      1.09  11 iP     29 00.98  -0.8
SPU      1.11  18 iP     29 01.03  -0.9
                 eS      29 18.05
BGL      1.15   9 iP     29 01.90  -0.5
CRP      1.18  15 eP     29 02.32  -0.5
MCNL     1.24 221 iP     29 01.98  -1.3
                 eS      29 19.50
CDD      1.28 201 eP     29 02.41  -1.4
                 eS      29 21.35
NCG      1.31  13 iP     29 03.54  -0.7
SLKM     1.32  72 eP     29 03.17  -1.2
                 eS      29 21.75
SYI      1.54 173 iP     29 05.49  -1.4
                 eS      29 25.70
SEW      1.66  89 eP     29 07.14  -1.3
SUA      1.67  36 eP     29 07.90  -0.7
                 eS      29 29.94
SVW      1.72 306 iPd    29 08.00  -1.2
PMS      1.93  53 iP     29 10.95  -1.0
SKT      1.95  17 eP     29 10.97  -1.2
PWA      2.08  42 eP     29 13.44  -0.4
PLRM     2.31  49 eP     29 15.34  -1.4
PMR      2.31  49 eP     29 16.20  -0.6
KNK      2.48  57 eP     29 16.83  -2.3
                 eS      29 45.75
KNIM     2.52  83 iP     29 16.56  -3.1
MTU      2.57  91 eP     29 18.50  -1.8
CUT      2.58  27 eP     29 19.90  -0.6
GLI      2.91  73 eP     29 22.28  -2.6
VZW      3.20  70 eP     29 26.00  -2.9
TTA      3.21 332 iPd    29 27.30  -1.8
HUR      3.23  26 eP     29 28.17  -1.0
VLZ      3.33  70 eP     29 27.58  -2.9
TRF      3.53  18 eP     29 32.68  -0.9
KLU      3.62  65 iP     29 31.77  -2.9
TOA      3.76  55 eP     29 36.50  -0.1
RND      3.78  28 eP     29 35.09  -1.7
SDG      4.23  52 eP     29 42.27  -0.7
PAX      4.51  48 eP     29 44.67  -2.1
GLB      4.58  69 eP     29 44.28  -3.5
WRH      4.87  25 eP     29 49.36  -2.3
TGL      4.96  78 eP     29 49.99  -3.1
FBA      5.31  24 eP     29 56.10  -1.7
IMA      5.98 356 eP     30 05.20  -1.9
YKA     18.29  66 eP     32 43.50  -3.9
        0.6s    1.00nm          3.3mb
      55 obs. associated
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&  FE8  04, 1991  16h 38m 36.20s
   36.035 N          121.560 W
   DEPTH =  13.0km
   4.5mb (  5 obs.)
 CENTRAL CALIFORNIA              ( 39)
      <BRK>. ML 4.7 (BRK).
      Mo=9.0*10**15 Nm (BRK). Felt (V)
      at Big Sur; (IV) at Moss
      Landing; (III) at Cambria,
      Lockwood, Morina, Monterey,
      Seaside and Soledad. Also felt
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04d 16h

at Bradley, Carmel Valley, Santa Cruz and Salinas.

PRS	0.33	27	iPd	38 42.91	-0.4
PRI	0.73	81	iPd	38 50.47	0.1
SAO	0.73	7	iP	38 50.00	-0.3
			eS	39 00.45	
LLA	0.76	40	iPd	38 51.11	0.2
PHAM	0.96	102	iPc	38 54.10	-0.2
GCC	1.05	341	iPc	38 55.03	-0.7
PKEM	1.18	88	iPc	38 58.00	0.1
MHC	1.31	357	iPc	38 59.75	-0.4
			eS	39 16.85	
ARN	1.31	1	iPd	38 59.70	-0.5
BCH	1.47	125	iPc	39 01.00	-1.5
PCC	1.60	336	ePc	39 02.41	-1.8
BLP	1.75	147	eP	39 04.50	-1.9
FRI	1.77	57	ePc	39 05.95	-0.7
BKS	1.92	344	iPc	39 06.90	-1.9
			iS	39 32.60	
BRK	1.92	343	iPc	39 06.80	-2.0
ZSP	1.99	344	iPc	39 08.23	-1.6
CMB	2.21	25	iPc	39 12.80	-0.3
ABL	2.25	121	eP	39 12.30	-1.5
BONR	3.24	53	eP	39 28.00	0.0
ORV	3.51	1	eP	39 30.40	-1.2
TNP	4.03	58	eP	39 38.50	-0.6
KVN	4.08	41	eP	39 39.00	-0.7
PEC	4.20	119	eP	39 38.50	-2.8
WDC	4.60	351	eP	39 44.30	-2.7
MSU	7.88	69	eP	40 32.50	-0.9
LRM	11.95	32	eP	41 31.90	2.5
PNT	13.35	6	eP	41 50.00	2.2
	0.8s	13.00nm		5.0mb	
SES	16.25	25	eP	42 26.00	0.4
FFC	23.06	30	iPc	43 42.10	0.0
	0.8s	16.00nm		4.6mb	
YKA	26.84	7	eP	44 16.40	-1.4
	0.8s	0.90nm		3.5mb	
TTA	34.25	333	eP	45 24.00	0.4
	0.8s	6.90nm		4.6mb	
IMA	35.43	338	eP	45 34.00	0.2
	0.6s	1.85nm		4.1mb	
	32 obs. ossocioted				

FEB 04, 1991 16h 58m 45.57± 1.07s
13.407 N ± 3.7km 58.748 W ±10.4km
DEPTH = 10.0km (geophysicist)
3.6mb (1 obs.)
NORTH ATLANTIC OCEAN (402)
ML 4.2 (FDF). MD 4.0 (TRN).

SLW	2.21	286	eP	59 22.98	0.1
			eS	59 50.09	
SLB	2.27	281	eP	59 23.12	-0.6
			eS	59 50.37	
SOA	2.34	269	eP	59 24.88	0.3
			eS	59 53.79	
MVM	2.38	299	iPc	59 25.15	-0.1
			S	59 54.30	
SVV	2.40	268	eP	59 25.76	0.2
			eS	59 55.28	
SVB	2.44	267	eP	59 25.98	-0.1
			eS	59 55.51	
BIM	2.51	296	iPc	59 27.17	0.1
			S	59 58.00	
FDF	2.68	300	eP	59 29.01	-0.5
	0.1s	3.70nm			
			S	00 01.20	
MDN	3.19	307	eP	59 37.16	0.4
			eS	00 12.35	
BBL	3.38	309	eP	59 40.04	0.6
			S	00 20.00	
MGG	3.52	315	eP	59 41.73	0.3
DEG	3.65	323	eP	59 43.03	-0.4
			S	00 24.00	
TBH	3.69	218	eP	59 43.84	0.0
			eS	00 23.11	
TRN	3.78	224	eP	59 44.68	-0.4
			eS	00 23.58	
DOG	3.81	314	eP	59 45.72	0.1
PAG	3.85	313	eP	59 46.10	-0.1
			S	00 30.50	
TCE	3.99	228	eP	59 48.20	0.1
			eS	00 29.53	
TPP	4.05	221	eP	59 49.36	0.4
			eS	00 30.47	

YKA	62.76	334	eP	09 13.00	-0.1
	0.7s	0.30nm		3.6mb	
	S.D. = 0.3 on 19 of 19 obs.				

FEB 04, 1991 18h 15m 22.35± 0.57s
43.679 N ± 7.7km 10.109 E ± 4.3km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

PII	0.30	82	Pc	15 28.30	-0.4
			eSg	15 31.00	
BDI	0.52	42	Pc	15 31.90	-1.0
			eSg	15 37.70	
MME	0.67	39	P	15 34.90	-0.9
			eSg	15 44.20	
PGD	1.18	80	Pc	15 44.60	0.0
			eSg	16 00.40	
BOB	1.19	337	P	15 46.20	1.7
			eSg	16 02.50	
SFI	1.28	79	P	15 46.40	0.3
			eSg	16 02.10	
CRE	1.34	92	P	15 48.40	1.3
			eSg	16 03.90	
PGF	1.39	216	Pn	15 47.80	-0.1
			Sn	16 06.60	
SBF	1.95	276	Pn	15 55.60	-0.2
			Sn	16 19.10	
FRF	2.52	268	Pn	16 03.70	-0.2
LRG	2.73	267	Pn	16 06.60	-0.5
	S.D. = 0.9 on 11 of 11 obs.				

FEB 04, 1991 19h 37m 31.85± 0.42s
60.910 N ± 9.8km 43.141 W ± 6.9km
DEPTH = 10.0km (geophysicist)
4.8mb (16 obs.)
WESTERN GREENLAND (680)

SCH	13.93	255	P	40 51.00	-0.4
	0.5s	5.70nm		4.6mb	
EKA	21.57	87	P	42 24.00	0.9
	1.2s	36.60nm		4.7mb	
GAC	24.25	246	eP	42 50.50	1.0
MBC	28.96	331	eP	43 32.00	-0.8
	0.7s	7.00nm		4.6mb	
MOX	31.53	84	e(P)	43 58.00	2.1
CLL	31.78	82	eP	44 01.00	3.0X
	1.2s	10.00nm		4.6mb	
YKA	32.34	305	eP	43 59.20	-3.6X
	0.8s	2.40nm		4.2mb	
BRG	32.52	82	iP	44 06.80	2.4
	0.9s	18.00nm		5.0mb	
KSP	33.67	80	eP	44 14.00	-0.5
			id	44 17.30	
AVE	36.00	124	eP	44 31.00	-3.6X
INK	36.03	321	eP	44 33.00	-1.4
IFR	36.76	121	iPc	44 41.00	-0.2
TIO	38.15	125	iP	45 10.00	17.2X
BRW	40.30	333	eP	45 12.10	2.1
FBA	42.58	322	eP	45 29.20	0.4
	0.8s	82.76nm		5.5mb	
IMA	43.40	326	ePc	45 36.00	0.4
	1.2s	18.40nm		4.7mb	
PMR	45.43	320	eP	45 54.40	2.6
	1.0s	14.10nm		4.9mb	
TTA	46.46	324	eP	45 59.10	-1.0
SVW	47.79	323	eP	46 12.10	1.5
WMQ	68.24	36	iPd	48 35.50	-0.9
PDCR	73.26	176	(P)	49 04.00	-0.8
CN2	75.23	9	eP	49 16.60	0.7
GTA	75.55	29	Pd	49 16.80	-1.2
	1.0s	10.00nm		4.8mb	
			pP	49 19.80	10kmX
BTO	76.50	21	eP	49 22.00	-1.3
NDI	78.49	51	eP	49 33.50	-0.8
ZOBO	79.48	204	iP	49 40.00	-0.5
	1.4s	9.21nm		4.6mb	
LZH	79.65	27	iPd	49 39.80	-0.9
	1.5s	23.00nm		4.9mb	
			pP	49 48.50	28kmX
TIY	79.71	19	Pc	49 40.80	-0.1
GKN	81.79	45	P	49 51.52	-0.6
	1.0s	44.00nm		5.5mb	
KKN	82.21	44	P	49 54.10	-0.3
	0.9s	55.00nm		5.7mb	
GUN	82.30	44	P	49 55.06	0.0
	1.0s	72.00nm		5.8mb	
DMN	82.32	45	P	49 54.98	0.0

LSA	82.35	39	P	49 54.60	-0.8
PKI	82.45	44	P	49 55.70	-0.1
	0.9s	15.00nm		5.1mb	
CD2	84.60	28	P	50 05.60	-0.8
GYA	89.54	27	P	50 30.40	-0.2
WRA	139.04	4	PKP	57 01.00	0.9
	0.6s	0.80nm			
ASPA	142.72	4	ePKP	57 01.20	-5.4X
	0.7s	5.30nm			
BRS	144.80	335	iPKPd	57 08.90	-1.1
	S.D. = 1.1 on 34 of 39 obs.				

FEB 04, 1991 19h 53m 21.32± 0.33s
36.161 N ± 4.1km 31.164 E ± 4.0km
DEPTH = 10.0km (geophysicist)
4.1mb (2 obs.)
TURKEY (366)
MD 3.8 (HLW).

ELL	1.17	300	iPn	53 45.00	1.7
KSL	1.28	269	iPbc	53 46.10	1.1
BCK	1.38	341	iPn	53 45.70	-0.9
PPCY	1.60	143	eP	53 51.70	2.1
CSS	2.13	123	eP	53 55.30	-2.2
ARG	2.46	272	ePb	54 01.60	-0.5
YER	2.51	294	iPn	54 03.10	0.2
KHL	2.52	329	iPn	54 03.80	0.7
FAM	2.59	116	eP	54 06.20	2.3
CIN	2.85	301	iPc	54 08.00	0.3
ALT	3.01	344	iPn	54 10.60	0.6
KAP	3.30	261	ePn	54 13.80	-0.2
SMG	3.79	295	ePn	54 20.10	-1.0
BBTK	3.89	18	iPc	54 21.00	-1.5
			iS	55 05.50	
DST	3.98	331	ePn	54 23.60	-0.1
GPA	4.18	351	ePn	54 27.00	0.5
BHL	4.32	120	Pn	54 27.00	-1.6
			Sn	55 13.00	
ADI	4.55	131	eP	54 32.00	0.2
NPS	4.61	260	ePn	54 31.50	-1.1
YLV	4.62	343	ePn	54 32.00	-0.8
KCT	4.64	332	ePn	54 34.00	0.9
HRT	4.80	346	ePn	54 34.50	-0.9
BNT	4.90	330	iPn	54 37.00	0.2
PRK	4.95	310	ePn	54 41.00	3.5X
GAZ	4.97	76	iPn	54 38.00	0.3
ZNT	5.06	140	eP	54 39.00	0.0
			eS	55 30.00	
SHMJ	5.12	131	Pc	54 40.90	1.1
EZN	5.29	315	eP	54 42.70	0.4
BURJ	5.48	134	Pc	54 45.90	0.8
VAM	5.71	264	ePn	54 48.90	0.7
KOT	6.24	175	ePn	54 55.50	-0.1
			eSn	55 59.00	
HLW	6.29	179	ePn	54 55.00	-1.3
			ePb	55 07.00	
			ePg	55 22.00	
			eSn	56 01.50	
VLI	6.66	277	ePn	55 00.60	-1.0
MBH	7.10	153	eP	55 07.00	-0.8
GBA	47.06	106	P	01 59.00	3.9X
	0.2s	1.10nm		4.6mb	
YKA	77.90	345	eP	05 14.20	-6.2X
	0.5s	0.30nm		3.6mb	
	S.D. = 1.1 on 33 of 36 obs.				

FEB 04, 1991 20h 02m 13.29± 0.77s
37.058 N ± 7.4km 29.438 E ± 6.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.4 (ISK).

ELL	0.49	129	iPg	02 21.50	-1.7
			iSg	02 28.70	
YER	0.93	275	ePn	02 30.60	-0.4
KSL	0.94	173	ePn	02 33.50	2.2
			eSn	02 48.80	
BCK	1.00	66	iPn	02 32.70	0.4
CIN	1.21	297	eP	02 36.00	0.3
KHL	1.27	3	iPn	02 37.00	0.2
ARG	1.35	232	ePn	02 36.80	-1.3
KAP	2.37	231	ePn	02 53.20	0.4
	S.D. = 1.4 on 8 of 8 obs.				

% FEB 04, 1991 20h 26m 04 19± 1.88s
11.083 N ± 8.?km 61.923 W ±21.9km
DEPTH = 33.0km (normal)

WINDWARD ISLANDS (95)
MD 3.3 (TRN).

TCE	0.42	156	eP	26	14.03	0.4
			eS	26	24.52	
TRN	0.67	130	eP	26	17.76	0.6
			eS	26	30.19	
TPP	0.89	149	eP	26	19.39	-0.9
			eS	26	35.80	
TBH	1.03	125	eP	26	22.41	0.1
			eS	26	40.03	
BOT	1.19	86	eP	26	24.29	-0.2
SVV	2.33	17	eP	26	41.01	0.0
			eS	27	12.21	

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

FEB 04, 1991 20h 58m 36.87± 0.58s
38.723 N ± 5.3km 27.722 E ± 6.5km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 3.0 (ATH), 2.8 (ISK).

DST	1.13	38	iPg	58	58.10	0.1
SMG	1.23	215	ePb	58	59.10	-0.6
PRK	1.25	295	ePb	59	00.60	0.6
			eSb	59	17.60	
KHL	1.47	105	ePn	59	04.00	0.5
EZN	1.55	316	ePn	59	05.00	0.6
KCT	1.60	18	ePn	59	06.00	0.7
EDC	1.63	4	ePn	59	04.50	-1.1
BNT	1.64	5	ePn	59	05.00	-0.8
YER	1.65	164	ePn	59	06.00	0.0

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

FEB 04, 1991 22h 39m 45.43± 0.28s
16.518 N ± 4.8km 121.140 E ± 4.8km
DEPTH = 10.0km (geophysicist)
5.2mb (37 obs.) 4.7Msz (8 obs.)

LUZON, PHILIPPINE ISLANDS (249)

BAG	0.55	259	iPc+	39	54.00	-2.6
QCP	1.87	182	eP	39	56.00	-21.8X
ANP	8.63	2	e(P)	41	02.00	-51.4X
GZH	9.82	313	eP	42	05.40	-4.4X
	Z 20s	3.50um				
	N 12s	2.20um				
	E 12s	2.70um				
DAV	10.33	155	eP	42	24.00	7.3X
QIZ	11.05	285	eP	42	22.00	-4.6X
	N 13s	1.80um				
	E 17s	2.10um				
		S		44	23.00	
SSE	14.51	0	eP	43	13.10	0.3
	5.0s	800.00nm			5.6mb	X
	Z 20s	1.80um				
	N 15s	0.80um				
	E 15s	3.50um				
		pP		43	19.00	
WHN	15.28	337	eP	43	26.00	3.2X
	4.0s	1200.00nm			5.6mb	X
	Z 18s	1.80um			3.8Msz	X
	N 13s	1.30um				
	E 13s	1.70um				
		pP		43	31.50	
MNI	15.42	166	eP	43	33.00	8.3X
NJ2	15.60	353	Pd	43	29.00	2.0
	Z 18s	1.20um				
	N 12s	0.90um				
	E 12s	1.70um				
GYA	16.70	309	iPc	43	42.20	0.9
	1.6s	200.00nm			5.0mb	
	Z 18s	1.50um				
	N 12s	3.50um				
	E 12s	0.90um				
		pP		43	51.00	
LOE	18.59	276	eP	44	07.00	2.3
PCT	19.09	267	eP	44	13.00	2.2
KMI	19.20	300	Pc	44	14.00	1.6
	2.5s	230.00nm			5.0mb	
	N 12s	0.80um				
		pP		44	24.50	44kmX
TIA	19.94	350	Pc	44	21.10	0.7
	Z 17s	1.70um				
	N 11s	0.70um				
	E 11s	1.20um				
NST	20.20	271	eP	44	24.80	1.5
XAN	20.62	330	P	44	27.00	-0.6
	1.2s	100.00nm			5.0mb	
	N 13s	2.10um				
	E 14s	2.40um				
		pP		44	40.00	57kmX
		PP		44	52.00	
		S		48	16.00	
BDT	21.20	275	iPc	44	33.20	-0.3
	0.8s	45.70nm			4.9mb	
AAI	21.25	160	eP	44	38.00	3.8X
CHG	21.27	279	ePd	44	34.00	-0.4
	1.2s	50.00nm			4.8mb	
CD2	21.37	315	iPd	44	35.40	0.1
	1.1s	200.00nm			5.4mb	
	Z 20s	3.20um			4.7Msz	
	E 12s	2.50um				
		S		48	30.00	
KHT	21.78	269	eP	44	40.30	0.8
SNG	22.11	248	eP	44	43.80	1.1
DL2	22.31	1	P	44	44.50	-0.1
	1.4s	200.00nm			5.4mb	
	Z 12s	0.90um			4.4MszX	
	E 15s	2.40um				
		S		48	46.00	
TIY	22.47	342	iPd	44	48.80	2.5
	5.0s	900.00nm			5.5mb	X
	Z 18s	2.00um			4.6Msz	
	E 14s	1.70um				
KGM	22.70	232	eP	44	50.80	2.1
IPM	23.03	241	ePc	44	54.10	2.2
	1.2s	42.80nm			4.9mb	
GUA	23.15	94	e(P)	45	03.00	10.0X
BJI	23.83	351	eP	45	01.00	1.6
	2.0s	400.00nm			5.7mb	
	Z 18s	1.17um			4.4Msz	
		eS		49	16.00	
LZH	24.83	325	iPd	45	10.50	1.1
	2.0s	250.00nm			5.5mb	
	Z 20s	3.30um			4.8Msz	
	N 13s	2.58um				
		PcP		48	45.00	
MAT	25.04	34	eP	45	09.00	-2.2
		eS		49	44.00	
SNY	25.31	4	iPc	45	13.60	-0.1
	1.5s	200.00nm			5.6mb	
	Z 20s	1.00um			4.3Msz	
	E 13s	2.20um				
HHC	25.62	343	eP	45	18.00	1.2
	1.6s	200.00nm			5.6mb	
	N 12s	0.60um				
	E 13s	1.20um				
BTO	25.86	340	eP	45	19.00	0.0
	N 13s	0.80um				
	E 13s	1.20um				
CN2	27.44	7	Pd	45	32.80	-0.5
	1.0s	20.00nm			4.8mb	
	Z 16s	2.00um			4.8MszX	
	N 14s	1.20um				
	E 14s	0.90um				
		epP		45	40.00	25kmX
MDJ	28.90	13	Pd	45	46.70	0.1
	1.5s	90.00nm			5.3mb	
GTA	29.43	325	Pc	45	52.00	0.4
	1.2s	10.00nm			4.5mb	
	Z 18s	2.40um			4.9Msz	
	E 14s	1.90um				
		pP		45	58.00	21kmX
		sP		46	05.00	
		S		50	44.00	
		sS		50	59.00	
LSA	30.44	301	P	46	00.00	-1.1
	Z 21s	1.90um			4.7Msz	
KNA	32.93	166	eP	46	21.60	-0.7
GUN	34.44	295	P	46	34.70	-1.1
	0.9s	136.00nm			5.8mb	
PKI	34.78	295	P	46	37.10	-1.7
	1.2s	84.00nm			5.5mb	
KKN	34.93	295	P	46	38.46	-1.5
	1.0s	73.00nm			5.5mb	
DMN	35.05	295	P	46	39.46	-1.5
	1.1s	101.00nm			5.6mb	
GKN	35.53	295	P	46	43.32	-1.7
	0.9s	107.00nm			5.7mb	
WB2	38.49	160	iPc	47	09.90	0.2
WMO	39.26	321	P	47	17.00	1.0
	Z 20s	1.20um			4.7Msz	
		pP		47	25.00	27kmX
		eS		53	12.50	
		PcS		53	20.00	
		sS		53	26.00	
		ScS		57	24.50	
HYB	40.68	278	ePd	47	26.50	-1.5
QIS	41.06	153	iPc	47	31.00	0.1
ASPA	41.84	162	iPd	47	36.70	-0.6
	1.0s	39.80nm			5.1mb	
GBA	42.24	272	P	47	40.80	0.0
KOD	42.88	267	eP	47	46.40	0.0
POO	45.04	280	iPc	48	03.00	-0.5
QUE	51.15	296	eP	48	49.10	-2.0
		(S)		56	08.30	
CMS	53.29	154	eP	49	07.00	0.2
BRS	53.35	144	iP	49	07.00	-0.4
ADE	53.85	162	eP	49	10.70	-0.2
	1.2s	90.63nm			5.7mb	
CNB	58.09	153	iPc	49	41.90	0.5
TOO	58.48	157	iPd	49	44.70	0.6
DZM	58.65	129	iPd	49	46.70	1.1
BRW	71.95	20	ePc	51	12.20	1.6
TTA	72.19	28	ePc	51	13.50	1.2
	1.3s	28.20nm			5.2mb	
SVW	72.43	30	ePc	51	15.20	1.5
	0.7s	28.90nm			5.5mb	
IMA	73.09	25	ePc	51	18.60	1.0
	1.4s	35.40nm			5.3mb	
RSO	73.88	31	P	51	21.60	-0.7
SLKM	75.12	31	P	51	27.00	-2.3
RND	75.39	28	P	51	29.80	-1.1
PMR	75.50	30	ePc	51	31.10	-0.3
	0.9s	17.50nm			5.1mb	
FBA	75.64	26	ePc	51	32.40	0.2
	1.3s	363.21nm			6.3mb	X
KEV	76.06	339	eP	51	33.00	-1.5
SOD	76.62	337	eP	51	36.00	-1.7
TOA	76.81	29	ePc	51	40.60	1.7
PRNI	78.59	298	eP	51	49.00	-0.3
BALM	78.82	30	P	51	49.00	-1.1
RMN	78.87	299	eP	51	56.00	5.1X
NUR	78.94	330	eP	51	50.00	-0.5
	0.8s	13.20nm			5.0mb	
		i		51	54.80	
INK	80.33	21	ePc	51	57.20	-0.7
MBC	80.72	12	ePd	52	00.20	0.3
	1.0s	19.00nm			5.1mb	
VRI	81.34	315	ePc	52	08.00	4.3X
MLR	81.97	315	ePd	52	11.50	4.4X
HFS	84.22	331	eP	52	17.00	-1.2
	0.5s	5.50nm			5.0mb	
KRA	84.50	321	ePd	52	20.00	0.2
		e		52	28.00	
NB2	84.97	333	P	52	21.00	-1.0
	1.0s	26.70nm			5.4mb	
VAY	85.52	312	iP	52	24.30	-0.8
	1.2s	47.00nm			5.6mb	
SKO	86.12	313	iP	52	26.00	-2.1
SRO	86.26	319	iP	52	29.00	0.4
KSP	86.41	322	ePc	52	28.70	-0.6
OHR	86.85	312	eP	52	29.50	-2.3
ZST	86.89	319	e(P)	52	28.30	-3.4X
		e		52	31.30	
BRG	87.77	323	iP	52	36.40	0.5
	1.2s	15.00nm			5.2mb	
PRU	87.77	322	eP	52	36.60	0.7
CLL	88.13	323	e(P)	52	37.00	-0.6
KHC	88.69	321	eP	52	40.50	0.1
KBA	89.66	319	eP	52	45.00	-0.3
	1.2s	8.60nm			4.9mb	
YKA	90.03	23	eP	52	45.80	-0.6
	1.0s	3.30nm			4.5mb	
OGA	91.19	320	eP	52	52.00	-0.4
	1.0s	14.00nm			5.3mb	
LPG	94.46	320	eP	53	07.50	0.0
	0.9s	6.55nm			5.0mb	
LPL	94.46	320	eP	53	07.40	-0.1
	1.1s	7.35nm			5.0mb	
KIC	121.85	289	PKP	58	31.70	-10.7X
LIC	122.17	289	PKP	58	33.40	-9.6X
TOV	151.71	23	ePKP	59	44.50	8.3X
SDV	152.20	26	ePKP	59	39.00	1.9
LPB	171.14	91	ePKP	59	57.00	0.8
CNCB	171.25	93	ePKP	00	00.00	3.6X
SIV	177.81	76	PKP	59	58.00	0.4

S.D. = 1.2 on 87 of 104 obs.

& FEB 04, 1991 22h 57m 16.00s
36.827 N 121.563 W

04d 22h

DEPTH = 3.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.6 (BRK).

SAO	0.11	123	iPd	57 18.19	-0.1
GCC	0.40	300	eP	57 23.70	-0.3
MHC	0.52	353	iPd	57 26.70	0.3
			iS	57 34.40	
PRS	0.52	162	eP	57 25.58	-0.8
ARN	0.52	3	eP	57 26.50	0.1
LLA	0.54	113	iPc	57 26.60	-0.2
			iS	57 33.12	
PCC	0.94	316	eP	57 33.40	-1.1
PRI	1.00	133	eP	57 35.20	-0.4
			eS	57 52.30	
BKS	1.18	333	eP	57 36.80	-1.8
			eS	57 53.80	
FRI	1.50	83	eP	57 42.70	-1.1

10 obs. associated

FEB 04, 1991 23h 02m 33.33± 0.87s
34.895 N ± 8.7km 26.852 E ± 6.4km
DEPTH = 60.0 ± 14.3 km
3.9mb (1 obs.)
CRETE (370)
MD 3.9 (ATH).

KAP	0.71	22	iPbd	02 46.80	-0.9
NPS	1.08	290	iPnc	02 53.50	0.9
			eSn	03 08.30	
ARG	1.68	38	ePb	03 03.10	2.3X
VAM	2.23	284	ePb	03 15.10	6.5X
APE	2.42	334	ePn	03 10.50	-0.7
YER	2.52	27	iPn	03 13.00	0.4
KSL	2.54	60	ePn	03 14.50	1.6
SMG	2.81	360	ePn	03 16.50	-0.2
CIN	2.88	20	iPd	03 18.00	0.3
ELL	3.10	52	iPn	03 27.50	6.6X
VLI	3.66	301	ePn	03 28.90	0.1
BCK	3.96	49	iPn	03 34.30	1.3
KHL	4.04	31	iPn	03 33.70	-0.4
ITM	4.60	301	ePb	03 50.90	9.0X
DST	4.91	16	eP	03 45.20	-1.2
JVI	7.70	110	eP	04 24.00	-1.2
PRNI	8.23	121	eP	04 32.50	-0.1
YKA	78.12	343	eP	14 27.10	0.1
	0.4s		0.60nm		3.9mb

S.D. = 1.0 on 14 of 18 obs.

• FEB 04, 1991 23h 58m 44.72± 2.54s
36.562 N ±21.7km 3.214 E ±12.6km
DEPTH = 10.0km (geophysicist)
3.6mb (1 obs.)
ALGERIA (396)
mbLg 3.1 (MDD).

ESEL	3.21	356	iPd	59 35.80	-0.4
			eS	00 09.00	
ACU	3.48	305	eP	59 39.60	-0.4
			eS	00 16.20	
ENIJ	4.38	277	eP	59 52.80	0.0
			eS	00 40.00	
ECHE	4.48	314	eP	59 54.70	0.5
			eS	00 41.00	
EBR	4.76	334	(P)	00 50.00	51.9X
EVIA	4.99	296	eP	00 01.20	-0.3
			eS	00 54.20	
ETER	5.74	357	eP	00 11.30	-0.7
ETOR	5.92	317	eP	00 15.30	0.7
GUD	7.06	307	eP	00 30.80	0.0
CDR	7.37	15	ePc	00 35.50	0.6
			e	01 49.60	
IFR	7.48	248	eP	01 24.00	47.3X
			i	02 56.00	
NB2	25.02	9	P	04 10.00	0.0
	0.7s		0.90nm		3.6mb

S.D. = 0.5 on 10 of 12 obs.

? FEB 05, 1991 00h 51m 30.77± 3.23s
16.623 N ±33.0km 100.436 W ±16.8km
DEPTH = 33.0km (normal)
3.8mb (1 obs.)
NEAR COAST OF GUERRERO, MEXICO (58)

ACX	0.60	66	iP	51 43.00	0.1
			iS	51 49.00	
III	1.97	28	iPc	52 03.00	0.3
			iS	52 32.00	
PPM	2.98	35	eP	52 17.00	-0.3
IIT	3.13	40	eP	52 27.50	8.3X
			iS	53 15.50	
OXX	3.58	82	eP	52 57.50	31.9X
			iS	53 27.00	
IISM	3.74	51	eP	52 27.50	-0.1
			iS	53 31.00	
YKA	46.89	351	eP	59 59.50	0.0
	0.5s		0.50nm		3.8mb
BCAO	116.18	76	ePKPc	10 20.10	6.7X
	0.4s		10.00nm		
			id	11 12.90	
			id	11 26.70	

S.D. = 0.3 on 5 of 8 obs.

FEB 05, 1991 01h 45m 49.28± 0.52s
39.277 N ± 4.8km 29.303 E ± 4.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.3 (ISK).

DST	0.62	302	iPg	46 00.90	-0.8
			eSg	46 09.50	
ALT	0.67	109	iPg	46 02.00	-0.6
			iSg	46 11.00	
KHL	0.97	170	iPg	46 08.20	0.5
			iSg	46 21.70	
KCT	1.21	323	ePn	46 12.70	0.8
GPA	1.27	37	ePn	46 13.60	0.7
YLV	1.29	2	ePn	46 12.90	-0.3
GBZT	1.51	4	ePn	46 16.30	-0.1
BNT	1.52	316	iPn	46 16.70	0.2
EDC	1.54	314	iPn	46 17.00	0.2
HRT	1.57	10	iPn	46 17.20	0.0
ISK	1.80	354	iPn	46 20.20	-0.3
CIN	1.93	210	eP	46 26.00	3.6X
EZN	2.37	284	ePn	46 28.60	-0.1

S.D. = 0.5 on 12 of 13 obs.

FEB 05, 1991 02h 19m 44.79± 1.10s
39.872 N ± 8.2km 23.988 E ± 7.6km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
MD 2.9 (ATH).

PAIG	0.24	283	iPc	19 49.18	-0.8
			eS	19 52.06	
PLG	0.65	320	iPbc	19 56.10	-1.7
			eSb	20 04.20	
NEO	0.82	227	ePb	19 59.80	-0.8
THE	1.09	314	iPd	20 05.66	0.4
			eS	20 18.70	
LIT	1.17	282	eP	20 06.22	-0.5
			eS	20 21.30	
SRS	1.28	346	ePd	20 09.02	0.5
			eS	20 26.54	
KNT	1.53	328	ePc	20 12.90	0.7
			eS	20 33.26	
GRG	1.63	312	ePc	20 13.62	0.0
			eS	20 34.58	
MMB	1.73	354	iPc	20 15.00	-0.1
VAY	1.81	324	ePn	20 17.40	1.3
ALN	1.88	56	ePc	20 21.66	4.5X
RZN	1.90	17	iPd	20 18.00	0.3
KDZ	2.08	31	eP	20 20.00	-0.2
KKB	2.11	341	eP	20 20.00	-0.5
PLD	2.30	13	eP	20 24.00	0.8
VTS	2.78	348	eP	20 30.00	-0.3
IGT	2.84	264	ePc	20 33.14	2.1
PVL	3.49	16	eP	20 39.00	-1.2

S.D. = 1.0 on 17 of 18 obs.

FEB 05, 1991 03h 53m 25.37± 0.40s
24.343 S ± 8.2km 115.893 W ± 7.5km
DEPTH = 10.0km (geophysicist)
5.3mb (14 obs.) 5.1Msz (7 obs.)
EASTER ISLAND CORDILLERA (684)
Ma=6.0•10••17 Nm (PPT).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 22S, 51C
Centroid Location:
Origin Time 03:53:33.0 0.4
Lat 24.35S 0.06 Lon 116.14W 0.04
Dep 15.0 FIX Half-duration 2.2
Moment Tensor; Scale 10••17 Nm
Mrr=-0.97 0.06 Mtt=-1.14 0.07
Mff= 2.12 0.08 Mrt=-0.23 0.22
Mrf=-0.29 0.26 Mtf= 1.40 0.08
Principal Axes:

T	Val= 2.67	Plg= 6	Azm=111
N	-0.99	79	231
P	-1.68	9	20

Best Double Couple:Ma=2.2•10••17
NP1:Strike=155 Dip=80 Slip=-177
NP2: 65 87 -11

AFR	32.30	276	eP	59 56.00	-0.8
	1.2s		55.00nm		5.4mb
NNA	38.95	79	eP	00 53.30	-0.3
	1.1s		34.18nm		4.9mb
Z	20s		1.42um		4.8Msz
PEL	40.34	113	iPd	01 05.60	0.7
SAN	40.36	114	eP	01 05.50	0.4
ARE	42.21	88	eP	01 21.00	0.3
LPB	45.28	90	Pc	01 45.00	-0.8
	1.0s		68.00nm		5.5mb
Z	20s		3.55um		5.3Msz
			PP	03 30.00	
			S	08 32.00	
			e	11 50.00	
			LR	15 12.00	
CNCB	45.30	90	P	01 46.40	0.3
ZOBO	45.34	89	iPc	01 46.80	0.4
	0.8s		44.21nm		5.5mb
Z	22s		3.59um		5.3Msz
			iS	08 36.00	
			LR	15 20.00	
UPA	48.54	51	eP	02 12.00	1.1
Z	22s		1.22um		4.8Msz
SIV	51.85	92	Pc	02 35.30	-1.0
BAR	56.71	359	eP	03 19.00	7.5X
GLA	57.08	1	eP	03 15.00	0.8
PLM	57.38	359	eP	03 18.00	1.6
PEC	57.92	359	P	03 19.50	-0.5
RVR	58.03	359	eP	03 19.00	-1.7
TPC	58.12	360	eP	03 22.00	0.5
PAS	58.21	358	eP	03 26.00	4.0X
MWC	58.28	358	eP	03 23.00	0.3
SBB	58.73	358	eP	03 25.00	-0.7
GSC	59.32	359	eP	03 30.00	0.1
ISA	59.73	358	eP	03 33.00	0.4
PRI	60.32	356	eP	03 37.80	1.0
PRS	60.57	355	eP	03 44.20	5.9X
SAO	61.00	355	eP	03 41.80	0.6
MEO	61.05	16	iPc	03 40.70	-0.9
FRI	61.11	357	eP	03 42.30	0.4
MHC	61.59	355	eP	03 46.50	1.1
TNP	62.11	359	P	03 49.00	0.1
	1.0s		10.50nm		5.0mb
CMB	62.19	356	eP	03 49.80	0.5
TUL	62.87	18	iPd	03 51.90	-1.9
	0.8s		10.40nm		5.1mb
Z	20s		0.71um		4.8Msz
			LR	24 34.00	
BAO	63.87	96	e(P)	03 59.00	-2.0
GLD	64.53	9	P	04 05.00	0.1
	1.0s		32.00nm		5.5mb
RSCP	66.17	27	P	04 16.00	0.7
FVM	66.45	22	P	04 16.00	-1.3
	0.7s		15.65nm		5.3mb
BW06	67.04	5	P	04 19.80	-1.2
	1.1s		26.79nm		5.3mb
RSSD	68.99	9	P	04 31.90	-1.2
	1.0s		31.18nm		5.5mb
BLA	69.74	30	P	04 38.00	0.4
LRM	69.90	3	eP	04 38.90	0.3
NEW	72.28	359	P	04 52.30	-0.4
	1.0s		37.50nm		5.4mb
SOB1	72.65	92	eP	04 57.00	1.3
			e	04 59.70	
			e	05 04.60	
			e	05 11.30	
PDCR	73.01	96	eP	04 56.90	-0.8
			e	05 02.00	
PNT	73.40	357	eP	05 00.00	0.8
SES	74.53	3	eP	05 07.00	1.2
EDM	77.27	2	eP	05 21.00	-0.2
FFC	79.65	8	ePc	05 34.00	-0.2
	1.8s		82.00nm		5.4mb
YKA	86.54	1	eP	06 07.80	-1.5
	1.1s		20.70nm		5.2mb
TOA	89.50	346	eP	06 25.00	1.3

```
SVW     91.01 342 eP     06 29.60   -1.0
FBA     92.32 347 eP     06 36.20   -0.3
TTA     92.60 343 eP     06 41.40    3.4X
INK     93.29 354 eP     06 40.00   -0.8
WRA     98.70 244 P      07 06.00   -0.7
        0.8s      2.10nm          4.8mb
BCAO   131.92 107 iPKPc  12 43.10    1.6
        1.0s     15.00nm
KHC    133.62  44 ePKP   12 48.30    4.5X
BJI    133.88 303 PKP    12 45.00    0.6
PTJ    135.92  48 ePKP   12 54.00    5.7X
ZST    136.12  45 ePKP   12 51.50    3.0X
TIY    136.94 300 ePKP   12 54.00    3.5X
     Z  22s      1.30um          5.6Msz
     E  21s      1.60um
BTO    138.50 304 ePKP   12 58.30    4.9X
LZH    143.95 298 PKP    13 00.00   -3.2X
        1.2s     31.00nm
     Z  20s      1.55um          5.8Msz
     E  20s      1.28um
                  eSKS  20 14.00
CD2    144.40 290 ePKP   13 01.40   -2.5X
     Z  28s      1.20um          5.5MszX
KMI    144.98 280 PKPd   13 03.50   -1.8
        2.0s    190.00nm
KHT    146.22 260 ePKP   13 08.40    1.1
GTA    146.41 305 iPKPd  13 07.40    0.2
     Z  25s      2.30um          5.9MszX
     E  27s      3.10um
                  pPKP  13 10.80
CHG    147.20 267 ePKPd  13 10.00    1.2
        1.0s     17.25nm
BBTK   149.47  52 iPKPd  13 16.50    4.5X
WMQ    152.61 321 PKP    13 17.00    0.5
     Z  24s      1.30um          5.7MszX
     S.D. = 1.0  on  55 of  67 obs.
-------------------------------------------
&  FEB  05, 1991  04h 20m 17.26s
   62.118 N          147.523 W
   DEPTH =  41.5km
 CENTRAL ALASKA                    (  1)
      <AEIC>.

TOA     0.64  91 iP     20 29.38   -0.6
GHO     0.75 243 iP     20 30.60   -1.0
                eS      20 41.83
KNK     0.84 212 iP     20 32.17   -0.6
                eS      20 44.80
PLRM    0.93 236 iP     20 32.90   -1.1
                eS      20 45.84
KLU     0.99 129 iP     20 33.73   -1.2
                eS      20 47.48
TZL     0.99  93 iP     20 34.32   -0.6
SDG     1.01  65 iP     20 34.01   -1.2
                eS      20 47.91
VLZ     1.14 150 eP     20 35.48   -1.5
                eS      20 51.85
VZW     1.16 156 eP     20 36.05   -1.3
                eS      20 51.79
PWA     1.21 248 eP     20 37.50   -0.5
                eS      20 53.62
GLI     1.26 170 iP     20 38.09   -0.6
                eS      20 56.34
PAX     1.28  47 eP     20 37.83   -1.2
                iS      20 54.05
HUR     1.31 312 eP     20 38.25   -1.1
                eS      20 54.88
PMS     1.31 229 eP     20 39.52    0.1
                eS      20 56.95
CUT     1.32 284 iP     20 38.73   -0.7
                eS      20 55.90
RND     1.43 335 eP     20 40.04   -1.2
SUA     1.66 248 eP     20 44.24   -0.3
MCK     1.74 339 eP     20 44.88   -0.7
                eS      21 06.36
KNIM    1.78 183 eP     20 45.04   -1.0
CVA     1.79 151 eP     20 46.03   -0.2
HIN     1.80 164 eP     20 45.97   -0.4
TRF     1.85 318 eP     20 46.57   -0.6
GLB     1.89 109 eP     20 46.84   -0.9
                iS      21 10.47
SKT     1.89 268 eP     20 47.22   -0.5
                eS      21 12.61
SGAM    1.97 144 eP     20 47.84   -1.0
SLKM    2.07 220 eP     20 50.76    0.4
RAGM    2.22 140 eP     20 51.53   -0.9
SEW     2.23 206 eP     20 52.19   -0.3
BWN     2.24 338 eP     20 52.03   -0.7
NKA     2.26 234 eP     20 54.92    2.0
HDA     2.31   6 eP     20 53.07   -0.6
NCG     2.32 254 eP     20 53.46   -0.4
SPU     2.36 249 iP     20 54.07   -0.3
WRH     2.38 354 eP     20 53.46   -1.1
HMT     2.38 137 eP     20 52.98   -1.8
TMW     2.41  58 eP     20 55.45    0.4
CKL     2.48 250 eP     20 55.62   -0.5
CCB     2.54 357 eP     20 55.72   -1.2
NEA     2.57 345 eP     20 55.83   -1.4
TGL     2.64 119 eP     20 57.57   -0.8
BALM    2.70 111 eP     20 57.73   -1.6
RDS     2.73 354 eP     20 58.21   -1.5
FBA     2.80 358 eP     20 58.80   -1.7
WAX     2.81 125 eP     20 59.23   -1.6
RDT     2.82 239 eP     21 00.03   -0.9
MDM     2.87 354 eP     21 00.36   -1.3
BRLK    2.88 216 eP     21 00.84   -0.9
GLM     2.88   1 eP     21 00.28   -1.6
REF     2.99 239 eP     21 00.69   -2.8
RDN     3.00 240 eP     21 02.71   -0.8
CTGM    3.18 109 eP     21 05.00   -1.2
       51 obs. associated
-------------------------------------------
&  FEB  05, 1991  04h 22m 42.26s
   62.259 N          151.328 W
   DEPTH =  84.7km
 CENTRAL ALASKA                    (  1)
      <AEIC>.

SKT     0.30 199 iP     22 54.61   -0.7
                eS      23 03.98
CUT     0.52  73 iP     22 56.16   -0.6
SUA     0.84 161 eP     22 59.98   -0.2
                S       23 14.00
PWA     0.92 131 iP     23 00.62   -0.2
                eS      23 14.70
NCG     0.94 205 iP     23 00.43   -0.9
HUR     1.06  47 iP     23 01.61   -1.0
                eS      23 16.81
CRP     1.07 202 eP     23 01.91   -1.0
BGL     1.12 207 eP     23 02.90   -0.5
SPU     1.14 198 eP     23 02.58   -1.0
                S       23 18.78
CKL     1.17 205 iP     23 03.27   -0.8
GHO     1.23 112 eP     23 04.52   -0.3
                eS      23 22.59
PLRM    1.24 122 eP     23 04.13   -0.6
TRF     1.29  21 eP     23 04.37   -1.2
                eS      23 21.60
PMS     1.32 140 eP     23 05.41   -0.5
                iS      23 24.37
NKA     1.52 178 iP     23 10.05    1.6
KNK     1.61 121 eP     23 08.68   -0.9
                eS      23 30.81
RND     1.62  44 eP     23 08.46   -1.3
                eS      23 28.39
RDT     1.77 198 iP     23 10.77   -1.0
SLKM    1.84 163 eP     23 12.75    0.1
MCK     1.84  35 eP     23 11.80   -0.9
RDN     1.88 202 iP     23 12.52   -0.9
REF     1.90 201 iP     23 13.05   -0.6
RSO     1.93 201 eP     23 13.55   -0.5
BWN     2.10  23 iP     23 15.01   -1.1
SEW     2.35 156 eP     23 20.03    0.5
TOA     2.42  91 eP     23 21.77    1.1
GLI     2.45 122 eP     23 19.65   -1.4
NEA     2.54  23 eP     23 19.92   -2.2
KNIM    2.58 136 eP     23 19.72   -3.1
VLZ     2.64 113 eP     23 22.52   -0.9
WRH     2.66  32 eP     23 21.76   -2.0
KLU     2.67 104 iP     23 22.01   -2.1
SDG     2.71  82 eP     23 24.49    0.0
CNPM    2.74 179 eP     23 25.71    0.7
TZL     2.78  92 eP     23 24.80   -0.7
PAX     2.80  73 eP     23 25.80   -0.1
CCB     2.87  32 eP     23 24.55   -2.2
HDA     2.92  41 eP     23 25.45   -2.0
RDS     2.95  28 iP     23 25.85   -1.9
MDM     3.04  26 iP     23 27.15   -2.0
       40 obs. associated
-------------------------------------------
?  FEB  05, 1991  05h 05m 16.06± 0.98s
   37.029 N ± 9.6km    29.440 E ± 7.5km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      MD 3.3 (ISK).

ELL     0.47 127 iPg    05 25.50   -0.1
                iSg     05 33.50
YER     0.93 277 ePn    05 33.90    0.0
BCK     1.01  64 iPn    05 35.40    0.1
KHL     1.29   3 ePn    05 39.90   -0.2
     S.D. = 0.2  on   4 of   4 obs.
-------------------------------------------
?  FEB  05, 1991  05h 43m 00.92± 5.78s
   33.438 S ±10.3km   72.238 W ±42.8km
   DEPTH =  10.0km  (geophysicist)
 OFF COAST OF CENTRAL CHILE        (134)

LCCH    0.56  94 iPd    43 12.50    0.2
                iS      43 22.00
IHA     0.65  51 eP     43 14.00    0.1
                iS      43 24.00
LNV     0.86 127 iPd    43 17.60    0.1
                iS      43 30.00
TACH    1.11 102 eP     43 21.30   -0.4
                iS      43 37.40
ROCH    1.13  66 eP     43 22.10   -0.1
                iS      43 39.40
JACH    1.57  62 iPc    43 29.00    0.0
                iS      43 51.50
RFA     3.40 114 ePd    44 00.40    5.2X
     S.D. = 0.3  on   6 of   7 obs.
-------------------------------------------
%  FEB  05, 1991  09h 01m 05.67± 0.69s
   16.258 N ± 6.9km   61.379 W ± 5.2km
   DEPTH =  10.0km  (geophysicist)
 LEEWARD ISLANDS                   ( 92)
      ML 0.7 (FDF).

SFG     0.18  91 eP     01 10.06    0.4
                S       01 13.50
SEG     0.19 320 eP     01 09.82    0.0
                S       01 11.90
DEG     0.31  80 eP     01 11.82   -0.4
DOG     0.32 226 iPc    01 12.63    0.3
                S       01 17.30
PAG     0.37 232 eP     01 13.11   -0.1
BBL     0.74 187 eP     01 19.90   -0.2
                S       01 25.30
     S.D. = 0.4  on   6 of   6 obs.
-------------------------------------------
   FEB  05, 1991  09h 06m 09.16± 0.61s
   43.710 N ± 4.7km    7.799 E ± 4.2km
   DEPTH =  14.8 ±  3.7 km
 NEAR SOUTH COAST OF FRANCE        (379)
      ML 2.7 (LDG), 2.7 (GEN). MD 2.1
      (STR).

IMI     0.21  18 P      06 14.03   -0.2
                S       06 17.10
SBF     0.30 300 Pg     06 15.74   -0.1
REVF    0.31 276 Pg     06 16.37    0.4
SAOF    0.33 328 Pg     06 15.46   -0.7
                Sg      06 19.29
AURF    0.38 298 Pg     06 16.99   -0.2
                Sg      06 21.91
AUTN    0.39 317 Pg     06 16.73   -0.7
TOUF    0.50 308 Pg     06 18.81   -0.5
                Sg      06 24.79
MVIF    0.50 292 Pg     06 19.16   -0.1
                Sg      06 26.22
FIN     0.58  31 P      06 20.38   -0.1
                S       06 27.56
ENR     0.58 332 P      06 20.08   -0.6
                S       06 26.54
ROB     0.59   5 P      06 20.23   -0.4
                S       06 26.85
STV     0.63 327 P      06 20.90   -0.6
                S       06 28.07
CALN    0.66 274 Pg     06 22.32    0.3
                Sg      06 31.32
CKI     0.79  26 P      06 26.00    1.8
                eSg     06 35.60
FRF     0.85 260 Pg     06 25.60    0.5
                Sg      06 36.60
DOI     0.89 334 Pd     06 27.30    1.5
                eSg     06 37.70
PZZ     0.94 328 P      06 26.23   -0.5
                S       06 36.09
PCP     0.99  33 P      06 27.97    0.4
                S       06 39.16
```

05d 09h

LMR	1.01	249	Pg	06 27.90	0.1
			Sg	06 40.70	
			Sn	06 42.60	
LRG	1.08	257	Pg	06 29.30	0.4
			Sg	06 42.20	
			Sn	06 44.20	
FOUF	1.10	319	e(Pg)	d06 29.30	0.0
			i	06 29.44	
			e(Sg)	06 40.28	
BHB	1.20	341	P	06 29.31	-1.7
			S	06 41.63	
RRL	1.41	329	P	06 35.01	0.5
			S	06 51.32	
PGF	1.46	142	Pn	06 33.85	-1.1
CDR	1.47	269	e(Pn)	06 35.60	0.4
			e	06 52.50	
			e	06 54.30	
RSP	1.49	345	P	06 34.24	-1.3
			S	06 50.24	
LPG	1.94	338	Pg	06 43.40	1.3
LPL	1.96	338	Pg	06 43.60	1.2

S.D. = 0.9 on 28 of 28 obs.

? FEB 05, 1991 09h 17m 43.29± 4.28s
33.447 S ±11.6km 72.185 W ±30.8km
DEPTH = 10.0km (geophysicist)
OFF COAST OF CENTRAL CHILE (134)

LCCH	0.52	93	iPd	17 54.00	0.3
			iS	18 02.40	
IHA	0.62	47	eP	17 56.08	0.3
			e	18 05.80	
LNV	0.82	128	iPd	17 59.30	0.1
			iS	18 11.70	
SAN	1.27	91	iPd	18 06.50	-0.5
			iS	18 24.50	
JACH	1.54	61	iPc	18 10.60	-0.3
			iS	18 31.80	

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

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* FEB 05, 1991 12h 22m 19.78± 0.97s
41.591 N ±14.5km 22.171 E ±11.9km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.0 (SKO).

VAY	0.40	132	iPg	22 28.00	0.0
			iSg	22 33.40	
GRG	0.66	165	eP	22 33.10	0.2
			eS	22 35.40	
SKO	0.67	305	ePn	22 33.00	0.0
KNT	0.70	128	ePc	22 32.94	-0.6
SRS	1.17	113	ePd	22 42.10	0.5

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

& FEB 05, 1991 16h 09m 21.60s
36.585 N 121.068 W
DEPTH = 10.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 3.5 (BRK). Felt (III) at Salinas.

LLA	0.11	72	iPc	09 24.15	-0.3
PRS	0.35	224	eP	09 28.38	-0.5
SAO	0.35	301	iPc	09 28.41	-0.5
PRI	0.55	144	iPc	09 32.52	-0.2
			iS	09 39.13	
ARN	0.85	334	ePc	09 37.40	-0.6
GCC	0.87	301	eP	09 36.86	-1.4
			iS	09 49.50	
MHC	0.88	329	iPc	09 38.20	-0.5
PHAM	0.92	144	eP	09 39.00	-0.3
PKEM	0.93	124	eP	09 39.70	0.3
FRI	1.16	69	iPc	09 41.96	-1.4
			iS	09 56.15	
PCC	1.39	311	iPd	09 45.06	-2.0
CMB	1.55	20	iPd	09 48.40	-0.9
BKS	1.59	325	iPd	09 48.00	-1.8
			eS	10 08.40	
BRK	1.60	324	iPd	09 48.50	-1.5
BCH	1.61	150	ePd	09 48.90	-1.3
ZSP	1.66	325	iPd	09 49.20	-1.6
BLP	2.09	165	eP	09 55.40	-1.7
ABL	2.29	138	eP	09 58.60	-1.7
BONR	2.60	57	eP	10 05.00	0.4
ORV	2.99	354	eP	10 10.10	0.3
KVN	3.40	43	eP	10 15.50	-0.5
TNP	3.41	63	e(P)	10 16.00	-0.1

22 obs. associated

& FEB 05, 1991 17h 18m 39.07s
59.907 N 153.292 W
DEPTH = 123.2km
SOUTHERN ALASKA (2)
<AEIC>.

PDB	0.47	256	eP	18 56.56	-0.9
AUI	0.58	187	eP	18 57.43	-0.7
RS2	0.62	25	eP	18 58.00	-0.7
			eS	19 12.33	
RSO	0.62	26	eP	18 57.90	-0.8
			iS	19 12.33	
REF	0.65	27	eP	18 58.06	-0.8
			eS	19 13.05	
RDN	0.66	23	eP	18 58.21	-0.7
			iS	19 12.92	
NCT	0.68	15	eP	18 58.23	-0.8
			iS	19 13.24	
RDT	0.80	33	iP	18 59.01	-0.9
HOM	0.87	106	iP	18 59.97	-0.5
			eS	19 16.31	
MCNL	0.90	217	eP	18 59.67	-1.0
			eS	19 15.88	
CDD	1.00	191	iP	19 00.77	-0.9
			eS	19 16.64	
NNL	1.01	81	iP	19 01.80	0.0
CNPM	1.11	109	iP	19 01.77	-1.0
BRLK	1.22	96	iP	19 02.95	-1.1
			eS	19 21.21	
NKA	1.32	50	eP	19 05.86	0.9
CKL	1.38	20	iP	19 05.03	-0.8
			eS	19 25.38	
SYI	1.38	160	eP	19 04.88	-0.8
			eS	19 24.73	
SPU	1.42	25	eP	19 05.19	-1.0
			eS	19 25.61	
BGL	1.43	18	eP	19 05.84	-0.6
NCG	1.60	20	eP	19 07.70	-0.7
SLKM	1.65	67	eP	19 07.88	-1.0
			eS	19 28.92	
SEW	1.94	83	eP	19 11.13	-1.2
			S	19 34.58	
SUA	2.00	38	eP	19 12.35	-1.0
			eS	19 37.76	
SKT	2.25	22	eP	19 14.09	-2.3
PMS	2.28	52	eP	19 15.31	-1.4
PLRM	2.65	49	eP	19 18.31	-3.2
KNIM	2.82	79	iP	19 21.59	-2.1
KNK	2.82	56	eP	19 21.04	-2.7
MTU	2.84	86	eP	19 22.68	-1.3
VZW	3.53	68	eP	19 31.67	-1.6
KLU	3.96	63	eP	19 36.09	-2.9

31 obs. associated

& FEB 05, 1991 17h 28m 47.60s
36.672 N 121.340 W
DEPTH = 4.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.5 (BRK).

SAO	0.13	318	iPd	28 50.00	-0.2
LLA	0.32	100	iPc	28 54.09	0.0
			iS	28 58.78	
PRS	0.34	184	iPd	28 54.32	-0.1
GCC	0.64	304	eP	28 59.71	-0.6
			iS	29 09.90	
ARN	0.69	347	eP	29 01.30	-0.2
MHC	0.71	340	eP	29 01.70	-0.1
			iS	29 12.70	
PRI	0.76	134	iPd	29 02.15	-0.7
PHAM	1.13	137	eP	29 08.50	-0.8
PCC	1.17	315	eP	29 08.44	-1.6
FRI	1.35	76	eP	29 11.76	-1.3
			iS	29 29.47	
BKS	1.40	330	ePc	29 14.20	0.3
			eS	29 35.40	
ZSP	1.47	330	eP	29 14.10	-0.7
CMB	1.56	29	eP	29 14.80	-1.4
			iS	29 34.40	
BCH	1.80	145	eP	29 18.00	-1.8

14 obs. associated

& FEB 05, 1991 19h 13m 34.41s
62.649 N 151.575 W
DEPTH = 10.3km
CENTRAL ALASKA (1)
<AEIC>.

CUT	0.65	111	iP	13 47.07	-0.3
			iS	13 55.93	
SKT	0.67	178	iP	13 47.26	-0.5
			iS	13 56.12	
TRF	1.00	36	iP	13 53.21	-0.2
			eS	14 06.70	
SUA	1.25	161	eP	13 57.54	-0.2
			eS	14 15.15	
NCG	1.28	193	eP	13 57.58	-0.5
			S	14 15.33	
PWA	1.28	141	iP	13 57.93	-0.2
			eS	14 15.43	
CRP	1.41	191	eP	14 00.88	0.6
			eS	14 19.61	
BGL	1.44	196	eP	14 00.61	0.0
			S	14 19.84	
RND	1.46	57	eP	14 01.06	0.3
SPU	1.49	189	eP	14 01.08	-0.2
			S	14 20.59	
CKL	1.50	194	eP	14 01.78	0.3
GHO	1.52	124	iP	14 01.67	-0.1
			eS	14 21.62	
PLRM	1.56	132	P	14 02.04	-0.2
			S	14 22.17	
MCK	1.62	47	eP	14 04.30	1.3
			S	14 24.46	
PMS	1.70	145	eP	14 04.18	-0.1
			iS	14 26.51	
BWN	1.80	31	eP	14 08.56	2.9
NKA	1.92	175	iP	14 10.46	3.1
KNK	1.92	129	eP	14 08.28	0.8
			eS	14 32.75	
TTA	2.06	280	eP	14 09.50	0.0
NCT	2.19	198	eP	14 12.20	0.7
RDN	2.22	195	iP	14 12.64	0.8
REF	2.23	194	eP	14 12.87	0.7
SLKM	2.24	163	P	14 11.98	-0.2
RSO	2.27	195	eP	14 14.42	1.8
WRH	2.40	39	eP	14 14.40	0.0
SVW	2.46	233	P	14 18.91	3.7
TOA	2.58	100	eP	14 18.95	2.1
MDM	2.75	31	eP	14 19.35	0.0
GLI	2.77	128	iP	14 21.23	1.6
SDG	2.79	90	eP	14 21.30	1.3
PAX	2.82	81	eP	14 22.93	2.5
KLU	2.90	111	eP	14 22.35	0.8
BRLK	2.91	173	eP	14 23.96	2.3
TZL	2.93	99	eP	14 24.57	2.7
KNIM	2.95	140	eP	14 21.35	-0.8
CNPM	3.14	177	iP	14 26.31	1.5

36 obs. associated

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* FEB 05, 1991 19h 37m 23.69± 0.96s
15.165 S ±11.5km 166.485 E ±13.5km
DEPTH = 79.1 ± 11.8 km
4.2mb (2 obs.)
VANUATU ISLANDS (186)

BKM	3.01	146	iP	38 10.00	0.0
			iS	38 50.00	
PVC	3.10	146	iP	38 12.00	0.7
			iS	38 52.20	
DZM	6.87	180	iPc	39 03.00	-0.9
			iS	40 21.00	
HNR	8.56	311	eP	39 27.00	-0.1
			eS	41 01.00	
SVO	8.85	312	eP	39 31.00	0.0
			eS	41 06.00	
ASPA	31.81	250	iPc	43 43.70	0.6
	1.4s		8.10nm		4.3mb
	Z 20s		0.20um		3.8Msz
YKA	98.28	27	eP	50 52.50	-0.6
	0.5s		0.30nm		4.1mb
KHC	139.52	333	ePdiff	53 47.50	-9.8X
SOB1	143.63	130	ePKP	56 52.30	0.2
LOR	144.88	339	ePKP	56 57.20	4.0X
LBF	145.09	339	ePKP	56 57.50	3.9X
	0.6s		3.60nm		
SSF	145.18	339	ePKP	56 58.00	4.3X
	0.5s		3.30nm		
GRR	145.27	345	ePKP	56 57.60	3.8X
LPL	145.27	335	ePKP	56 59.00	4.8X
	0.5s		1.80nm		

LPG	145.28	335	ePKP	56 59.20	4.9X
	0.5s		2.90nm		
LPF	145.64	345	ePKP	56 58.90	4.5X
	0.5s		5.10nm		
BCAO	146.72	255	ePKPd	57 03.50	6.3X
	0.7s		6.00nm		
			id	57 15.20	

S.D. = 0.7 on 8 of 17 obs.

FEB 05, 1991 20h 28m 49.44± 1.24s
39.816 N ±11.1km 24.517 E ± 7.5km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
MD 2.8 (ATH)

PAIG	0.65	280	ePc	29 02.20	-0.3
			eS	29 11.84	
PLG	0.99	304	ePb	29 08.00	-0.3
NEO	1.12	243	ePb	29 10.20	-0.3
SRS	1.48	332	iPd	29 15.82	-0.3
			eS	29 33.12	
RDO	1.54	30	ePb	29 16.60	-0.3
LIT	1.58	281	ePd	29 17.56	-0.1
			eS	29 36.08	
ALN	1.59	47	ePd	29 18.68	1.0
KNT	1.83	318	ePd	29 21.12	0.0
MMB	1.87	342	ePc	29 21.00	-0.8
RZN	1.88	5	iP	29 22.00	0.0
KDZ	1.96	20	eP	29 22.00	-1.0
VAY	2.11	316	ePn	29 27.40	2.2
PLD	2.29	3	i(Pg)	29 36.00	8.2X

S.D. = 0.9 on 12 of 13 obs.

FEB 05, 1991 21h 12m 30.32± 0.42s
46.540 N ± 4.3km 9.749 E ± 3.7km
DEPTH = 5.0km (geophysicist)
SWITZERLAND (544)
ML 2.7 (LDG), 2.5 (KBA).

VDL	0.20	255	iPc	12 33.90	-0.6
OSS	0.31	61	iPc	12 34.60	-2.0
LLS	0.61	303	ePd	12 41.60	-1.0
MDI	0.76	182	P	12 44.50	-1.1
			eSg	12 53.80	
SAX	0.76	339	ePd	12 45.30	-0.5
OGA	0.94	69	iPgd	12 45.40	-3.4X
			iSg	12 57.00	
VAI	0.96	226	P	12 48.90	-0.1
			eSg	13 01.70	
ZLA	1.32	316	ePd	12 55.70	0.4
MMK	1.33	249	ePc	12 53.50	-2.0
CTI	1.41	110	P	12 55.60	-1.1
			eSg	13 13.90	
SLE	1.50	326	ePc	12 58.40	0.5
ORO	1.53	234	P	12 59.10	0.6
			eSg	13 17.70	
FEL	1.79	319	ePn	13 02.24	0.1
FUR	1.93	32	iPnd	13 04.10	0.0
EMS	2.01	257	ePc	13 07.40	2.0
FVI	2.09	87	P	13 07.90	1.5
			eSn	13 32.90	
LPG	2.33	245	Pn	13 12.20	1.9
			Sn	13 42.00	
LPL	2.34	245	Pn	13 12.40	2.2
			Sn	13 42.40	
BSF	2.40	304	Pn	13 11.20	0.3
			Pg	13 17.00	
CDF	2.51	319	Pn	13 12.30	-0.3
			Pg	13 19.40	
KBA	2.53	76	ePg	13 15.00	2.1
			iSg	13 47.40	
HAU	2.74	304	Pn	13 15.80	0.0
SBF	3.14	212	Pn	13 20.70	-0.7
KHC	3.66	43	ePg	13 39.00	10.2X
			Sg	14 25.10	
FRF	3.70	218	Pn	13 29.30	-0.1
LRG	3.91	219	Pn	13 32.10	-0.2
LBF	3.99	278	Pn	13 33.80	0.3
			Sn	14 20.90	
SMF	4.07	274	Pn	13 34.60	0.0
LOR	4.10	282	Pn	13 35.30	0.2
			Sn	14 22.80	
SSF	4.32	279	Pn	13 38.20	0.0
AVF	4.41	276	Pn	13 38.70	-0.7
BGF	4.76	273	Pn	13 44.20	-0.3
CAF	5.62	256	Pn	13 55.30	-1.3

S.D. = 1.1 on 31 of 33 obs.

? FEB 05, 1991 22h 14m 40.06± 1.79s
21.425 S ±53.2km 173.446 W ±26.6km
DEPTH = 32.3km (2 depth phases)
4.8mb (6 obs.)
TONGA ISLANDS (173)

DZM	18.69	264	iPc	19 00.20	2.1
LTZ	24.42	206	P	20 14.80	17.9X
TOO	38.86	236	eP	22 10.00	5.8X
ASPA	48.46	257	iPc	23 22.60	0.8
	0.7s		11.60nm	5.0mb	
			iPcP	24 50.40	
WB2	48.67	262	eP	23 21.00	-2.5
WRA	48.68	262	P	23 21.00	-2.5
	1.0s		5.90nm	4.6mb	
NANU	65.26	254	eP	25 24.00	2.9X
TNP	79.30	42	eP	26 44.10	-0.2
	1.1s		22.40nm	5.1mb	
			pP	26 55.20	36km
MDJ	83.77	323	eP	27 06.50	-0.7
PNT	85.11	32	eP	27 14.00	0.1
CN2	85.67	321	eP	27 16.00	-0.8
WHN	86.44	305	eP	27 22.50	1.6
FBA	88.29	11	eP	27 27.80	-1.3
	0.9s		3.20nm	4.6mb	
BJI	89.57	314	eP	27 35.00	-0.7
RSSD	90.91	42	eP	27 43.80	1.7
	0.9s		11.15nm	5.2mb	
			pP	27 53.00	29km
XAN	92.10	306	P	27 48.70	1.1
HHC	93.07	313	eP	27 52.90	0.9
CHG	94.57	288	eP	28 03.00	3.9X
YKA	95.61	24	eP	28 01.60	-1.4
	0.8s		0.60nm	4.1mb	
KRA	149.53	343	ePKP	34 24.40	1.6
			e	34 31.80	
KSP	149.66	348	ePKP	34 28.20	5.2X
CLL	149.75	352	e(PKP)	34 28.00	4.9X
BRG	150.04	351	ePKP	34 31.20	7.7X
MOX	150.57	353	e(PKP)	34 46.00	21.7X
PRU	150.80	349	ePKP	34 32.00	7.3X
			e	34 43.50	
			e	35 10.50	
DOU	151.35	3	PKP	34 33.20	7.7X
			e	34 46.20	
KHC	151.79	350	ePKP	34 34.00	7.7X
			e	34 46.10	

S.D. = 1.6 on 16 of 27 obs.

? FEB 05, 1991 23h 09m 25.23± 1.00s
37.073 N ± 9.7km 29.438 E ± 7.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.0 (ISK).

ELL	0.50	131	iPg	09 35.00	-0.3
			iSg	09 43.50	
YER	0.93	274	ePn	09 43.20	0.2
BCK	1.00	67	ePn	09 44.80	0.6
KHL	1.25	3	ePn	09 48.00	-0.5

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

FEB 05, 1991 23h 34m 30.65± 0.66s
17.720 N ± 4.5km 61.642 W ± 4.0km
DEPTH = 41.9 ± 6.9 km
5.1mb (42 obs.) 4.6Msz (7 obs.)
LEEWARD ISLANDS (92)
MD 5.1 (TRN). Felt (V) on
Antigua and (III) on Guadeloupe.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 24C
Centraid Lacation:
Origin Time 23:34:32.6 1.6
Lat 17.31N 0.19 Lan 61.46W 0.15
Dep 15.0 FIX Half-duration 1.5
Moment Tensor; Scale 10**16 Nm
Mrr= 4.68 0.56 Mtt= 1.05 0.60
Mff=-5.73 0.87 Mrt=-3.31 1.49
Mrf= 6.42 2.26 Mtf= 0.40 0.58
Principal Axes:

T	Val= 8.79	Plg=59	Azm=227
N	0.33	14	341
P	-9.12	27	78

Best Double Couple:Mo=8.9*10**16
NP1:Strike=198 Dip=22 Slip= 129
NP2: 337 73 76

BPA	0.70	197	iP	34 43.71	-0.5
			eS	34 55.05	
NEV	1.06	237	iP	34 49.97	0.7
SEG	1.32	174	iPd	34 53.26	0.4
DEG	1.51	158	iPd	34 55.52	-0.1
SFG	1.52	164	iPd	34 56.05	0.3
TAG	1.67	181	eP	34 58.54	0.5
DOG	1.68	179	iPd	34 58.50	0.4
			S	35 20.60	
PAG	1.68	181	eP	34 58.57	0.4
			S	35 20.70	
BTG	1.72	182	eP	34 59.50	0.9
BBL	2.19	176	iPd	35 05.68	0.3
MDN	2.40	174	eP	35 08.91	0.6
DBCT	2.45	173	eP	35 10.85	1.7
DPMT	2.46	174	eP	35 09.78	0.6
			eS	35 56.07	
DSVT	2.49	174	eP	35 13.16	3.6X
FDF	3.01	171	eP	35 16.51	-0.5
	0.2s		11.00nm		
			S	35 53.80	
CRM	3.03	167	eP	35 16.70	-0.7
MVM	3.23	167	eP	35 17.20	-2.9
BIM	3.23	170	eP	35 19.14	-1.1
SLB	3.92	171	iP	35 29.93	0.0
SOA	4.35	174	eP	35 36.35	0.3
SVV	4.40	175	eP	35 36.63	-0.1
			eS	36 33.20	
SVB	4.44	175	eP	35 37.26	-0.1
FCV	4.55	175	eP	35 38.32	-0.6
			eS	36 30.75	
GRW	5.53	180	eP	35 52.95	0.2
BOT	6.58	172	eP	36 03.58	-3.8X
TCE	6.98	181	iP	36 13.03	-0.1
			eS	37 33.34	
TRN	7.03	178	eP	36 15.58	1.8
			eS	37 36.69	
TBH	7.22	175	eP	36 20.43	4.1X
			eS	37 45.50	
TPP	7.36	179	eP	36 22.67	4.3X
LLAV	8.77	215	eP	36 36.20	-1.9
			eS	38 07.20	
OLLA	9.15	214	P	36 41.80	-1.5
TOV	11.17	226	eP	37 12.40	1.5
SDV	12.39	226	eP	37 28.50	1.0
UPA	19.44	246	iPc	38 54.20	-2.6
	1.0s		78.00nm	4.9mb	
DVD	22.25	248	eP	39 27.20	1.7
CBN	24.62	329	eP	39 49.00	0.6
BLA	25.50	323	eP	39 59.00	2.2
NNA	33.12	208	iPc	41 03.00	-2.1
	0.7s		58.22nm	5.6mb	
PT10	33.25	208	e(P)	41 05.00	-1.3
SIV	33.50	179	iPc	41 07.60	-0.9
SOB1	33.70	141	eP	41 14.50	4.2X
ZOBO	34.37	191	Pc	41 14.20	-2.4
	1.0s		12.50nm	4.8mb	
Z	25s		0.80um	4.4MszX	
			LR	50 40.00	
LPB	34.63	191	Pc	41 15.00	-3.6X
	1.0s		60.00nm	5.5mb	
Z	22s		1.48um	4.7Msz	
			LR	51 40.00	
CNCB	34.88	191	Pc	41 19.20	-1.7
ARE	35.32	196	eP	41 21.00	-3.4X
BAO	35.77	157	eP	41 28.70	0.7
MEO	36.98	305	iPd	41 37.30	-0.7
PDCR	37.39	142	eP	41 40.20	-1.3
PPD	40.78	165	ePc	42 11.00	1.3
			e	42 14.90	
VAO	42.94	160	e(P)	42 28.00	0.6
JFO	43.11	155	eP	42 31.30	2.5
GOL	43.63	309	eP	42 32.00	-1.1
	0.9s		7.20nm	4.4mb	
RSSD	44.21	316	eP	42 36.90	-0.8
	1.0s		10.85nm	4.6mb	
FRB	46.23	356	eP	42 54.00	0.8
BW06	47.54	312	iP	43 03.70	-0.5
	1.0s		16.75nm	5.0mb	
FFC	48.10	330	eP	43 07.00	-1.1
	0.7s		6.00nm	4.7mb	
LRM	50.40	315	eP	43 26.40	0.2
AVE	50.81	61	iP	43 30.00	0.8
TIO	50.82	64	eP	43 30.00	0.5
SES	50.99	321	ePc	43 29.80	-0.6

05d 23h

pP 43 37.00 24kmX
TNP 52.34 305 eP 43 41.10 0.1
1.0s 6.50nm 4.6mb
IFR 52.73 61 iPd 43 44.50 0.6
PNT 55.98 318 eP 44 15.00 7.8X
TIC 56.24 94 P 44 08.90 -0.7
LIC 56.36 94 P 44 09.68 -0.7
Z 22s 0.24um 4.2Msz
KIC 56.59 94 P 44 11.48 -0.6
LPF 57.43 44 eP 44 17.20 -0.3
1.1s 29.30nm 5.3mb
GRR 57.61 44 eP 44 18.60 -0.2
1.1s 29.30nm 5.3mb
YKA 57.69 334 eP 44 17.50 -1.6
0.8s 6.40nm 4.7mb
EPF 57.72 50 eP 44 20.20 0.4
1.3s 43.30nm 5.4mb
MFF 57.81 46 eP 44 20.40 0.2
0.9s 18.00nm 5.2mb
FLN 57.92 43 eP 44 20.80 -0.2
0.9s 18.00nm 5.2mb
Z 20s 0.57um 4.7Msz
LDF 58.13 43 eP 44 22.30 -0.1
1.1s 24.40nm 5.2mb
LFF 58.21 48 eP 44 23.20 0.2
1.2s 23.80nm 5.2mb
LPO 58.50 48 eP 44 25.00 -0.1
0.8s 20.15nm 5.3mb
RJF 58.80 47 eP 44 26.90 -0.3
0.9s 16.40nm 5.2mb
Z 21s 0.47um 4.6Msz
LSF 58.91 46 eP 44 27.60 -0.4
1.0s 23.00nm 5.3mb
CAF 59.15 48 eP 44 29.40 -0.2
1.0s 20.00nm 5.2mb
TCF 59.39 46 eP 44 31.00 -0.3
1.1s 18.30nm 5.1mb
BGF 59.85 46 eP 44 33.90 -0.5
1.1s 19.55nm 5.1mb
AVF 60.22 46 eP 44 36.60 -0.3
1.1s 26.85nm 5.3mb
SSF 60.35 46 eP 44 37.40 -0.4
1.3s 28.90nm 5.2mb
SMF 60.54 46 eP 44 38.80 -0.3
1.2s 35.70nm 5.4mb
LOR 60.61 45 eP 44 39.00 -0.6
1.2s 31.25nm 5.3mb
Z 21s 0.45um 4.6Msz
LBF 60.67 46 eP 44 39.20 -0.8
1.0s 15.00nm 5.1mb
SNF 61.24 42 Pc 44 44.50 0.7
DOU 61.39 42 Pc 44 44.40 -0.4
MEM 62.35 42 Pc 44 51.00 -0.2
HAU 62.35 45 eP 44 50.50 -0.8
Z 22s 0.43um 4.6Msz
LPL 62.48 47 eP 44 52.80 0.3
0.9s 9.85nm 4.9mb
LPG 62.49 48 eP 44 53.10 0.5
1.1s 12.20nm 4.9mb
CDF 63.00 44 eP 44 55.00 -0.7
1.2s 17.85nm 5.1mb
ABH 63.27 43 eP 44 57.35 0.0
MBC 65.45 347 ePc 45 11.50 0.5
1.0s 7.00nm 4.7mb
GRF 65.64 43 ePc 45 13.30 0.5
1.5s 35.00nm 5.2mb
Z 21s 0.30um 4.5Msz
NB2 66.36 31 P 45 17.50 0.4
1.0s 15.20nm 5.0mb
CLL 66.80 41 iP 45 19.90 -0.2
1.4s 21.00nm 5.0mb
INK 66.98 337 eP 45 19.50 -1.4
KHC 67.18 44 P 45 23.00 0.4
BRG 67.40 42 iP 45 23.60 -0.3
1.2s 22.00nm 5.1mb
PRU 67.79 43 P 45 27.00 0.6
KSP 68.88 42 eP 45 32.80 -0.3
KRA 71.26 42 eP 45 41.40 -6.2X
e 45 48.80
NUR 72.94 31 eP 45 57.50 0.2
KEV 73.06 21 eP 46 14.00 16.1X
KAF 73.56 29 iP 46 01.10 0.2
0.6s 8.60nm 4.9mb
MLR 75.92 46 eP 46 16.00 1.0
e 01 41.00
BCAO 79.32 89 iPc 46 35.90 1.7
0.7s 12.00nm 5.0mb

RUV 90.60 254 iP 47 32.10 1.8
0.8s 25.00nm 5.6mb
TPT 90.75 255 iP 47 32.90 1.9
0.8s 20.00nm 5.5mb
VAH 90.84 254 iP 47 33.20 1.8
0.8s 15.00nm 5.4mb
PMO 91.01 255 iP 47 34.00 1.8
0.8s 20.00nm 5.6mb
GKN 124.04 36 PKP 53 27.32 0.4
DMN 124.60 36 PKP 53 28.00 -0.1
GUN 124.80 35 PKP 53 29.08 0.5
PKI 124.80 36 PKP 53 28.64 0.0
TAU 144.88 218 ePKP 54 05.00 0.1
BRS 146.88 247 iPKP 54 13.00 4.2X
RMQ 150.58 247 ePKP 54 20.00 5.5X
WRA 164.71 259 PKP 54 40.00 8.3X
1.1s 2.00nm
S.D. = 1.0 on 107 of 120 obs.

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* FEB 05, 1991 23h 48m 51.57± 1.27s
17.978 N ±11.4km 61.520 W ±19.6km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)
ML 3.2 (FDF).

SEG 1.57 179 eP 49 17.17 -0.2
S 49 35.40
DEG 1.71 165 eP 49 20.81 1.2
S 49 42.00
DOG 1.94 183 eP 49 22.50 -0.3
PAG 1.94 185 eP 49 22.50 -0.5
S 49 44.00
BBL 2.44 179 eP 49 29.40 -0.6
CEOS 11.09 218 eP 51 31.60 0.5
MEM 62.08 42 iPc 59 11.20 -0.1
S.D. = 0.8 on 7 of 7 obs.

FEB 05, 1991 23h 49m 55.85± 0.68s
17.751 N ± 4.9km 61.685 W ± 4.3km
DEPTH = 43.0 ± 7.4 km
4.9mb (21 obs.) 4.7Msz (2 obs.)
LEEWARD ISLANDS (92)
MD 4.9 (TRN). Felt (IV) on
Antigua and (III) on Guadeloupe.

BPA 0.72 193 iP 50 08.84 -0.9
eS 50 22.05
NEV 1.04 234 iP 50 15.13 0.9
SEG 1.35 173 iPd 50 18.38 -0.2
DEG 1.55 157 iPd 50 20.62 -0.8
SFG 1.56 162 iPd 50 21.21 -0.3
S 50 40.70
TAG 1.70 179 eP 50 23.60 -0.1
DOG 1.71 178 iPd 50 23.66 -0.1
PAG 1.71 180 eP 50 23.62 -0.2
S 50 46.40
BBL 2.22 175 iPd 50 30.78 -0.3
MDN 2.44 174 eP 50 35.23 1.2
DPMT 2.50 173 eP 50 36.28 1.4
eS 51 13.55
DSVT 2.53 173 eP 50 39.50 4.2X
eS 51 16.97
FDF 3.04 170 ePd 50 42.50 -0.2
0.2s 7.40nm
S 51 18.90
CRM 3.07 166 eP 50 42.57 -0.5
MVM 3.27 166 eP 50 45.43 -0.5
BIM 3.27 170 eP 50 45.84 -0.1
SLW 3.78 169 eP 50 53.16 0.0
eS 51 41.90
SLB 3.95 171 eP 50 55.58 0.0
SOA 4.38 173 eP 51 01.94 0.2
SVV 4.43 174 eP 51 02.26 -0.1
eS 51 59.27
SVB 4.47 175 eP 51 02.53 -0.5
eS 52 00.99
FCV 4.59 175 iP 51 04.32 -0.3
eS 52 00.99
GRW 5.56 180 eP 51 16.07 -2.3
BOT 6.61 172 eP 51 33.33 0.3
TCE 7.01 181 eP 51 38.86 0.2
TRN 7.07 178 eP 51 40.40 1.0
eS 53 00.06
TBH 7.25 175 eP 51 44.84 2.8X
TPP 7.39 178 eP 51 45.40 1.4
OLLA 9.15 214 eP 52 08.00 -0.5
TOV 11.16 226 eP 52 37.80 1.8
SDV 12.38 226 eP 52 54.30 1.8
UPA 19.42 246 iPd 54 24.80 3.2X
0.9s 57.14nm 4.8mb
Z 20s 0.57um 4.3Msz
CBN 24.57 329 eP 55 13.00 0.0
BLA 25.45 323 eP 55 22.00 0.6
NNA 33.12 208 iPd 56 28.70 -1.6
0.6s 20.00nm 5.2mb
SIV 33.53 179 Pd 56 32.80 -1.0
SOB1 33.76 141 eP 56 38.50 2.7
ZOBO 34.40 191 Pc 56 59.80 17.9X
1.0s 5.00nm
Z 24s 0.83um 4.4MszX
LR 07 20.00
LPB 34.65 191 P 56 40.00 -3.9X
Z 20s 2.13um 4.9Msz
LR 07 40.00
CNCB 34.90 191 P 56 45.00 -1.2
TUL 35.16 308 e(P) 56 46.60 -1.1
SCH 37.20 355 eP 57 05.00 0.3
PDCR 37.44 142 eP 57 06.80 -0.2
PPD 40.82 165 eP 57 35.70 0.6
e 57 38.10
e 57 41.30
GOL 43.58 309 eP 57 57.90 0.1
1.0s 4.00nm 4.1mb
RSSD 44.15 316 eP 58 02.70 0.3
1.0s 9.76nm 4.5mb
FRB 46.19 356 eP 58 08.00 -10.0X
BW06 47.49 312 eP 58 27.20 -1.7
1.0s 10.50nm 4.8mb
FFC 48.05 330 iPd 58 32.30 -0.5
0.7s 8.00nm 4.9mb
AVE 50.83 61 iP 58 55.00 0.6
TIO 50.85 64 eP 58 55.00 0.3
SES 50.94 321 ePd 58 54.80 -0.3
TNP 52.29 305 eP 59 06.50 0.8
0.9s 3.91nm 4.4mb
IFR 52.75 61 iPd 59 09.50 0.3
TOL 54.12 53 eP 59 19.50 0.6
TIC 56.29 94 P 59 33.92 -1.1
LIC 56.40 94 P 59 34.74 -1.1
KIC 56.63 94 Pd 59 36.56 -0.9
YKA 57.64 334 eP 59 41.60 -2.3
0.6s 9.10nm 5.0mb
ENN 62.31 42 eP 00 16.50 0.5
1.2s 76.00nm 5.7mb
MEM 62.35 42 Pc 00 15.90 -0.4
WIT 62.99 39 eP 00 21.00 0.6
WTS 62.99 40 eP 00 20.50 0.0
0.9s 33.00nm 5.5mb
ABH 63.28 43 eP 00 23.20 0.7
TNS 63.88 42 ePKPd 00 26.60 0.1
MBC 65.41 347 ePd 00 36.00 0.1
1.0s 13.00nm 4.9mb
GRF 65.65 43 ePd 00 37.50 -0.4
1.4s 29.00nm 5.1mb
Z 21s 0.30um 4.5Msz
NB2 66.35 31 P 00 42.40 0.2
1.0s 18.80nm 5.1mb
CLL 66.81 41 iP 00 44.90 -0.3
INK 66.94 337 ePd 00 44.50 -1.2
1.1s 37.00nm 5.4mb
KBA 67.08 46 eP 00 48.50 1.2
1.1s 5.80nm 4.6mb
KHC 67.19 44 P 00 48.00 0.3
BRG 67.40 42 iP 00 49.00 0.0
1.2s 26.00nm 5.2mb
HFS 67.50 32 eP 00 48.90 -0.5
0.5s 2.90nm 4.6mb
Z 17s 0.37um 4.7MszX
LR 22 09.00
PRU 67.80 43 P 00 51.50 0.0
KSP 68.89 42 eP 00 58.00 -0.3
ZST 69.56 44 eP 01 02.00 -0.4
SRO 70.40 45 eP 01 07.00 -0.5
KRA 71.27 42 eP 01 12.70 0.0
FBA 72.44 333 ePd 01 19.60 0.2
NUR 72.93 31 eP 01 22.20 -0.2
SOD 73.13 24 iP 01 23.80 0.4
KAF 73.55 29 iP 01 26.00 0.1
0.6s 8.10nm 4.9mb
IMA 74.74 335 ePd 01 33.50 0.5
0.8s 7.30nm 4.7mb
SVW 76.52 330 ePd 01 43.30 0.3
0.8s 7.90nm 4.8mb
BCAO 79.36 89 iPd 02 00.10 0.6

0.5s 15.00nm 5.2mb

LWI	91.14	92	iPc	03	00.10	1.7
GKN	124.04	36	PKP	08	52.00	0.0
KKN	124.56	36	PKP	08	53.20	0.2
DMN	124.60	36	PKP	08	53.80	0.6
GUN	124.80	35	PKP	08	53.60	-0.1
PKI	124.80	36	PKP	08	53.60	-0.1

S.D. = 0.8 on 86 of 92 obs.

FEB 05, 1991 23h 57m 28.83± 1.67s
46.188 N ± 7.3km 1.985 W ±13.7km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 3.7 (LDG). MD 3.7 (STR).

MFF	1.34	71	Pn	57	55.60	2.1
			Pg	57	57.80	
			Sg	58	17.60	
LPF	1.95	19	Pn	58	02.90	0.6
			Pg	58	06.50	
			Sg	58	35.50	
LFF	2.29	122	Pn	58	07.30	0.2
			Pg	58	13.00	
			Sg	58	44.00	
GRR	2.33	19	Pn	58	07.80	0.0
			Pg	58	16.30	
			Sn	58	37.70	
			Sg	58	48.30	
LSF	2.44	87	Pn	58	10.00	0.6
			Pg	58	18.00	
			Sn	58	37.90	
			Sg	58	49.40	
RJF	2.61	109	Pn	58	12.00	0.3
			Pg	58	20.20	
			Sn	58	42.50	
			Sg	58	52.60	
LPO	2.69	123	Pn	58	13.10	0.1
			Pg	58	21.60	
			Sg	58	55.60	
LDF	2.72	27	Pn	58	13.50	0.2
			Pg	58	23.60	
			Sn	58	44.80	
			Sg	58	58.60	
FLN	2.77	21	Pn	58	13.90	-0.1
			Pg	58	24.10	
			Sg	58	59.70	
TCF	2.91	87	Pn	58	16.60	0.5
			Pg	58	26.50	
			Sn	58	50.90	
			Sg	59	04.50	
CAF	3.11	112	Pn	58	18.50	-0.4
			Pg	58	30.00	
			Sn	58	54.00	
			Sg	59	09.20	
MAF	3.16	88	Pn	58	19.60	0.0
			Sg	59	13.30	
BGF	3.36	82	Pn	58	22.80	0.3
			Pg	58	34.80	
			Sg	59	21.20	
PYM	3.51	95	Pn	58	24.46	-0.1
			Pg	58	37.71	
			Sg	59	24.61	
AGO	3.56	90	Pn	58	25.04	-0.2
			Pg	58	37.44	
EPF	3.57	151	Pn	58	21.00	-4.4X
			Pg	58	36.50	
GRC	3.65	70	Pn	58	26.67	0.1
AVF	3.74	79	Pn	58	27.60	-0.2
			Sg	59	29.80	
LBL	3.79	103	Pn	58	28.07	-0.4
			Sg	59	31.00	
SSF	3.88	75	Pn	58	29.60	-0.2
			Pg	58	44.30	
			Sn	59	13.80	
			Sg	59	37.00	
PLDF	3.91	91	Pn	58	30.04	-0.2
			Sg	59	37.00	
SMF	4.06	81	Pn	58	32.20	-0.1
			Pg	58	48.20	
			Sg	59	39.80	
LOR	4.16	73	Pn	58	33.30	-0.5
			Sn	59	21.40	
			Sg	59	44.20	
LBF	4.19	77	Pn	58	33.60	-0.6
			Pg	58	50.10	
			Sg	59	44.40	
DOU	5.89	46	iP	58	57.40	-0.7
HAU	5.97	69	Pn	58	56.90	-2.5

S.D. = 0.8 on 25 of 26 obs.

% FEB 05, 1991 23h 59m 07.36± 1.49s
40.724 N ±12.3km 29.895 E ±11.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

HRT	0.20	300	iPg	59	12.40	0.7
			iSg	59	15.40	
YLV	0.43	249	ePg	59	15.40	-0.7
GPA	0.54	144	ePg	59	18.00	-0.2
			eSg	59	25.50	
ISK	0.72	299	iPg	59	20.90	-0.6
DST	1.48	221	ePn	59	35.00	0.9

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

? FEB 06, 1991 00h 12m 53.67± 1.01s
37.008 N ±10.1km 29.399 E ± 7.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.9 (ISK).

ELL	0.48	122	iPg	13	03.50	0.0
			iSg	13	12.00	
YER	0.90	278	ePn	13	11.00	0.0
BCK	1.05	64	ePn	13	13.60	0.0
KHL	1.32	4	ePn	13	18.00	0.0

S.D. = 0.1 on 4 of 4 obs.

FEB 06, 1991 02h 44m 48.08± 0.67s
41.115 N ± 4.2km 22.367 E ± 6.2km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.1 (SKO).

GRG	0.16	171	iPc	44	51.62	-0.2
			eS	44	54.48	
VAY	0.26	36	iPg	44	53.40	-0.1
			iSg	44	57.50	
KNT	0.40	83	ePc	44	56.44	0.1
			eS	45	02.28	
THE	0.66	137	ePd	45	00.48	-0.8
			eS	45	10.12	
KKB	0.92	35	ePg	45	05.00	-0.7
			iS	45	16.00	
SRS	0.93	89	ePd	45	05.68	-0.1
			eS	45	18.96	
LIT	1.02	175	ePc	45	07.28	-0.1
			eS	45	23.32	
SKO	1.10	321	iPg	45	09.00	0.2
			iSg	45	24.50	
MMB	1.13	65	ePgd	45	10.00	0.7
			eSg	45	25.00	
PAIG	1.55	139	ePc	45	16.64	0.9
			iS	45	39.64	
VTS	1.60	23	iPg	45	21.00	4.3X
			iSg	45	41.00	
RZN	1.86	71	iPd	45	25.00	4.6X
			iSg	45	51.00	
PLD	2.01	60	iPd	45	29.00	6.6X
			Sg	45	56.00	
KDZ	2.36	76	eP	45	32.00	4.6X
			eS	46	03.00	

S.D. = 0.6 on 10 of 14 obs.

FEB 06, 1991 03h 10m 08.73± 0.49s
41.103 N ± 4.0km 22.354 E ± 4.2km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.1 (SKO).

GRG	0.15	166	ePd	10	12.48	0.2
			eS	10	14.12	
VAY	0.27	37	iPg	10	14.30	-0.1
			iSg	10	18.30	
KNT	0.41	82	ePd	10	17.12	-0.1
			eS	10	22.04	
THE	0.66	135	ePc	10	21.40	-0.5
			eS	10	30.80	
SRS	0.94	89	ePd	10	26.52	-0.1
			eS	10	40.60	
KKB	0.94	35	eP	10	27.00	0.4
			iS	10	38.00	
LIT	1.01	174	ePc	10	28.20	0.4
SKO	1.11	322	iPg	10	29.80	0.3
			iSg	10	45.30	
			Lg	10	48.40	
MMB	1.14	64	ePgd	10	30.00	-0.1
			eSg	10	47.00	
OHR	1.18	271	ePn	10	30.20	-0.5
VTS	1.62	23	iPg	10	42.00	4.5X
			iSg	11	01.00	
RZN	1.87	71	iP	10	45.00	3.8X
			iSg	11	13.00	

S.D. = 0.4 on 10 of 12 obs.

? FEB 06, 1991 03h 50m 02.66± 3.86s
39.203 N ±24.1km 23.615 E ±26.1km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

AGG	1.02	260	eP	50	21.90	0.0
			eS	50	36.80	
LIT	1.25	316	eP	50	25.80	-0.1
			eS	50	43.60	
SRS	1.91	359	eP	50	35.40	-0.2
			eS	50	58.30	
KNT	2.03	345	eP	50	37.60	0.3
			eS	51	02.30	
OHR	2.88	312	e(Pn)	51	04.00	14.5X

S.D. = 0.3 on 4 of 5 obs.

? FEB 06, 1991 05h 19m 41.93± 1.13s
17.897 N ±11.3km 61.634 W ±39.5km
DEPTH = 30.2 ± 6.6 km
4.0mb (1 obs.)
LEEWARD ISLANDS (92)
ML 3.9 (FDF).

SEG	1.49	175	ePc	20	06.76	-0.1
			S	20	24.50	
DEG	1.67	161	eP	20	09.14	-0.4
DOG	1.86	180	eP	20	12.12	-0.1
PAG	1.86	181	eP	20	12.15	-0.1
			S	20	33.40	
BBL	2.37	176	eP	20	19.26	-0.3
FDF	3.18	172	eP	20	31.40	0.3
	0.2s		0.55nm			
			S	21	07.70	
CRM	3.20	167	eP	20	31.40	0.1
MVM	3.40	168	eP	20	34.12	-0.1
BIM	3.40	171	eP	20	35.07	0.8
YKA	57.54	334	eP	29	30.70	0.0
	0.5s		0.80nm		4.0mb	

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

? FEB 06, 1991 05h 32m 55.50± 1.02s
16.284 N ±28.4km 61.959 W ±38.1km
DEPTH = 157.1 ± 18.6 km
3.4mb (1 obs.)
LEEWARD ISLANDS (92)

PAG	0.37	133	ePd	33	18.53	0.1
			S	33	33.00	
DOG	0.41	127	ePd	33	18.34	-0.2
SEG	0.45	75	ePd	33	18.55	-0.1
			S	33	33.70	
SFG	0.73	92	eP	33	19.42	0.2
DEG	0.86	88	ePd	33	20.05	-0.1
			S	33	36.50	
BBL	0.89	149	ePd	33	20.34	0.0
YKA	58.84	334	eP	42	39.50	0.0
	0.4s		0.20nm		3.4mb	

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

FEB 06, 1991 05h 34m 06.79± 0.78s
23.056 N ± 6.5km 120.993 E ± 7.2km
DEPTH = 10.0km (geophysicist)
TAIWAN (244)

TWG	0.25	163	iPd	34	12.00	0.0
			eS	34	16.20	
TWF1	0.41	43	iPc	34	13.90	-1.2
			eS	34	19.70	
TWK	0.51	294	iPc	34	16.40	-0.7
			eS	34	24.70	
TWM1	0.57	246	ePc	34	18.50	0.1
TWD	1.16	28	ePd	34	27.60	-0.8
TWQ	1.22	353	eP	34	29.60	0.1
			eS	34	46.90	
TWC	1.73	27	eP	34	38.00	0.9
ANP	2.18	13	eP	34	45.30	1.7

06d 05h

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SSE      8.01    1 eP     35 54.50 -11.5X
                  Lg     38 14.00
KOD     43.44 260 eP     42 27.90  15.7X
     S.D. = 1.1  on   8 of  10 obs.
-------------------------------------
*  FEB  06, 1991  05h 45m 36.88± 0.84s
   16.024 S ±15.7km  179.714 E ±23.9km
   DEPTH =  33.0km  (normal)
   4.0mb (  3 obs.)  4.6Msz (  1 obs.)
 FIJI ISLANDS                    (1B2)

MBU      1.34 225 iP     46 00.60   1.1
                  iS     46 24.70
OVA      1.88 208 eP     46 06.80  -0.5
                  eS     46 31.90
VUN      2.31 211 iP     46 13.60   0.2
                  eS     46 46.80
SVA      2.40 210 eP     46 14.80   0.1
                  eS     46 48.00
NDF      2.77 231 eP     46 19.00  -0.9
                  eS     47 03.00
BRS     27.40 241 iPd    51 22.00   0.4
WRA     43.24 258 P      53 42.00   4.9X
       1.6s     3.40nm          3.8mb
ASPA    43.61 252 iPd    53 38.40  -1.7
       0.7s    18.80nm          5.0mb
LZH     88.32 308 eP     58 28.00   1.1
       1.8s    45.00nm          5.5mb X
     Z 19s      0.24um          4.6Msz
                  i     58 47.00
YKA     93.39  25 eP     58 47.80  -1.8
       0.5s     0.10nm          3.5mb
PRU    144.05 344 ePKP   05 12.20   1.5
ZST    144.87 340 e(PKP) 05 09.20  -3.0X
                  e     05 27.00
KHC    145.09 344 ePKP   05 13.00   0.4
GRF    145.14 347 ePKP   05 12.00  -0.6
                  e     05 16.30
LWI    146.01 240 iPKPc  05 21.00   5.6X
SKO    148.10 329 ePKP   05 23.30   5.7X
OHR    149.06 328 ePKP   05 19.80   0.5
     S.D. = 1.1  on  13 of  17 obs.
-------------------------------------
*  FEB  06, 1991  07h 25m 50.91± 0.77s
   16.546 N ±14.8km   94.739 W ± 8.7km
   DEPTH =  91.0 ±  8.2 km
   4.0mb (  2 obs.)
 OAXACA, MEXICO                  ( 60)

OXX      1.97 286 iPc    26 23.50   0.0
                  iS     26 44.00
SCX      2.03  84 iP     26 25.50   1.5
                  iS     26 50.00
TPX      2.89 124 (P)    26 34.50  -1.3
                  (S)    26 51.00
IISM     3.49 314 iPc    26 44.00  -0.1
                  (S)    27 18.50
LVVM     3.57 333 iP     26 43.50  -1.6
                  iS     27 22.50
IIT      4.20 306 iP     26 54.50   0.4
                  iS     27 41.00
PPM      4.47 305 iP     26 58.50   0.3
IIA      4.54 305 (P)    27 03.70   5.1X
                  (S)    27 34.69
III      4.87 293 iPc    27 04.00   0.7
                  iS     27 57.50
ACX      4.92 274 (P)    27 42.00  38.2X
                  (S)    28 30.00
UNM      5.06 304 (P)    27 44.00  37.9X
MEO     18.49 350 eP     30 03.20   0.6
TUL     19.31 357 e(P)   30 17.40   6.0X
YKA     47.97 348 eP     34 21.50  -0.5
       0.7s     0.90nm          3.7mb
FRB     50.49  15 eP     34 40.00  -1.2
INK     57.27 344 eP     35 30.60  -0.3
                  pP     35 50.50  78kmX
NB2     83.17  28 P      38 09.20   1.2
       0.9s     3.10nm          4.2mb
GKN    135.71   1 Pdiff  42 09.60   2.8X
KKN    135.93 360 Pdiff  42 10.80   2.9X
DMN    136.11   0 Pdiff  42 08.80   0.1
PKI    136.15 360 Pdiff  42 09.20   0.2
     S.D. = 1.0  on  15 of  21 obs.
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*  FEB  06, 1991  07h 33m 06.14± 1.26s
   37.554 N ± 9.9km   23.450 E ±10.2km
   DEPTH = 134.5 ± 18.5 km

 SOUTHERN GREECE                 (368)

ATH      0.47  27 eP     33 25.20  -0.5
VLI      0.93 206 eP     33 28.50  -0.6
ITM      1.27 253 iPc    33 33.40   1.0
                  eS     33 52.50
APE      1.73 106 eP     33 37.70   0.1
NEO      1.76 354 eP     33 37.80  -0.1
EVR      1.88 317 eP     33 39.70   0.3
VAM      2.23 164 eP     33 44.50   0.9
NPS      2.88 142 eP     33 51.40  -0.5
SOI      5.88 277 P      34 30.00  -2.1
                  eSn    35 33.00
SGO      7.01 298 P      34 49.00   1.5
     S.D. = 1.3  on  10 of  10 obs.
-------------------------------------
*  FEB  06, 1991  07h 39m 33.35± 2.22s
   6.099 S ±27.5km  142.017 E ±11.8km
   DEPTH =  33.0km  (normal)
   4.3mb (  1 obs.)
 PAPUA NEW GUINEA                (202)

MNDI     1.63  92 iP     40 01.00   0.6
PMG      6.06 123 eP     41 02.00  -1.1
MTN     12.66 237 eP     42 33.50  -0.4
                  eS     44 52.00
QIS     14.56 189 eP     43 00.00   1.0
                  ePcP   45 41.00
                  eS     47 25.00
WB2     15.65 208 eP     43 13.00  -0.2
                  iS     45 58.90
                  e      47 52.00
ASPA    19.13 203 iPc    44 00.00   3.3X
       1.0s    19.50nm          4.3mb
                  eS     47 31.70
WARB    24.79 215 eP     44 57.50   3.7X
     S.D. = 1.2  on   5 of   7 obs.
-------------------------------------
   FEB  06, 1991  07h 58m 38.75± 0.18s
   52.349 N ± 4.2km  152.413 E ± 3.0km
   DEPTH = 495.0km  (  7 depth phases)
   5.0mb ( 84 obs.)
 NORTHWEST OF KURIL ISLANDS      (220)
      CENTROID, MOMENT TENSOR    (HRV)
      Data Used: GDSN
      L.P.B.: 16S, 24C
      Centroid Location:
      Origin Time        07:58:42.0 0.6
      Lat 52.13N 0.07 Lan 152.67E 0.07
      Dep 493.4 3.7 Half-duration  1.7
      Moment Tensor;   Scale 10**16 Nm
        Mrr=-9.63 0.61  Mtt= 3.24 1.09
        Mff= 6.38 0.87  Mrt=-7.85 1.09
        Mrf=-6.63 1.18  Mtf=-3.24 0.90
       Principal Axes:
        T  Val=  8.84  Plg=17  Azm= 82
        N        6.96       25      180
        P      -15.80       59      322
      Best Double Couple:Mo=1.2*10**17
       NP1:Strike=139 Dip=36 Slip=-137
       NP2:        12     66      -62

ASAJ    10.49 222 P      01 02.00  -0.3
                  S      03 00.60
SMY     13.20  80 ePd    01 30.50  -0.3
       1.3s  2574.40nm          6.6mb X
MDJ     16.94 252 eP     02 08.00  -0.5
                  iS     05 00.00
                  ScP    09 12.50
                  ScS    12 55.00
MAT     18.72 218 eP     02 26.00   0.2
                  eS     05 27.00
ADK     18.92  79 P      02 26.30  -1.3
       0.7s   106.98nm          5.6mb
CN2     19.85 255 Pc     02 35.80  -0.8
       1.0s    50.00nm          5.1mb
                  sP     04 46.00
                  eS     05 48.00
                  PcP    06 33.00
                  ScP    09 19.00
SNY     22.13 253 iPd    02 53.40  -4.3X
       0.8s    30.00nm          5.0mb
                  sP     05 14.00
                  iS     06 27.00
DL2     25.16 250 eP     03 25.00  -0.1
                  esP    05 44.00
                  eS     07 12.00

BJI     27.64 258 eP     03 46.50  -0.4
                  esP    06 08.00
TTA     28.76  48 ePd    03 58.00   1.5
       1.2s   124.10nm          5.3mb
SVW     29.08  52 P      04 00.00   0.6
       0.7s    63.95nm          5.3mb
TIA     29.60 251 eP     04 04.40   0.3
                  PP     05 31.60
IMA     29.72  42 ePc    04 04.80  -0.1
       1.2s   132.60nm          5.3mb
HHC     29.94 264 P      04 07.80   0.8
RSO     30.57  53 P      04 12.60   0.3
BTO     31.03 265 eP     04 16.50   0.1
SSE     31.15 239 P      04 17.80   0.5
       1.0s    15.00nm          4.5mb
TIY     31.37 258 Pc     04 19.50   0.3
NJ2     31.66 243 Pc     04 21.50  -0.1
       0.8s   100.00nm          5.4mb
                  S      08 56.00
                  ScP    09 54.50
SLKM    31.79  52 P      04 22.60   0.1
RND     31.95  47 P      04 23.90   0.0
PMR     32.11  50 P      04 24.70  -0.4
FBA     32.23  44 P      04 25.50  -0.6
WHN     35.31 247 eP     04 52.00  -0.3
       0.7s    20.00nm          4.7mb
                  S      09 52.00
BALM    35.42  50 P      04 53.40   0.3
XAN     35.95 257 P      04 57.00  -0.6
INK     37.27  36 eP     05 08.00   0.0
       0.5s    45.00nm          5.2mb
LZH     37.63 264 Pd     05 12.50   0.9
       1.5s   130.00nm          5.2mb
                  pP     06 40.00 475kmX
                  eS     10 24.00
GTA     38.00 272 iPd    05 15.00   0.5
       1.0s    40.00nm          4.9mb
                  pP     06 49.20 527kmX
                  PP     06 58.80
                  PcP    07 18.00
                  S      10 33.00
                  ScS    14 27.60
MBC     39.53  22 eP     05 24.00  -2.4
MBC     39.53  22 iPc    05 27.50   1.1
       0.5s    23.00nm          5.0mb
CD2     41.24 258 P      05 40.20  -0.6
       0.8s    60.00nm          5.2mb
                  S      11 18.00
WMQ     42.73 285 iPd    05 53.50   1.0
       1.0s   100.00nm          5.3mb
                  S      11 43.00
GYA     42.80 251 iPc    05 54.00   0.7
       1.0s    60.00nm          5.1mb
                  S      11 38.80
KMI     46.11 254 Pc     06 19.00  -0.2
       1.2s    57.00nm          5.0mb
                  PcP    07 44.50
                  iS     12 30.00
YKA     46.79  40 eP     06 23.60  -0.1
       0.6s    20.50nm          4.8mb
QIZ     46.90 241 P      06 26.80   1.8
                  S      12 43.00
LSA     49.77 268 P      06 46.80  -0.3
PGC     50.75  58 eP     06 54.00   0.5
KEV     51.93 339 iP     07 02.80   0.9
PNT     52.31  56 iP     07 05.00   0.0
CHG     53.20 252 iPd    07 11.10  -0.6
       1.0s    60.00nm          4.9mb
NEW     54.25  55 P      07 18.00  -0.9
       0.9s    35.09nm          4.7mb
                  pP     08 56.70 500km
GUN     54.27 271 Pd     07 19.00  -0.7
KKN     54.73 271 Pd     07 22.20  -0.5
PKI     54.81 271 P      07 23.20  -0.2
DMN     54.97 271 Pd     07 24.20  -0.2
GKN     54.97 272 Pd     07 23.60  -0.7
SES     55.80  50 eP     07 29.00  -0.8
WDC     56.49  66 iPd    07 35.80   1.2
FFC     56.80  42 iPd    07 35.60  -0.9
       0.5s    25.00nm          4.8mb
ORV     57.77  66 eP     07 42.80  -0.6
KAF     58.20 333 eP     07 44.00  -1.9
LRM     58.26  55 eP     07 46.60  -0.3
NDI     59.02 278 eP     07 50.00   1.9
CMB     59.46  66 eP     07 55.7       9
FRB     59.91  20 eP     07 54.5       9
       0.5s    19.00nm
```

06d 08h

NUR	59.97	333	iP	07	46.80	-11.0X	SRO	72.80	330	iP	09	17.10	0.0	OHR	77.91	325	eP	09	42.70	-2.9
	0.6s	39.10nm					ZST	72.83	330	eP	09	17.50	0.2		0.7s	80.00nm			5.3mb	
LLA	60.14	68	eP	08	00.50	1.2	BUD	72.87	329	eP	09	17.50	0.0	RSL	78.02	336	P	09	46.37	0.2
FRI	60.57	67	eP	08	02.50	0.4	VKA	73.01	331	iPc	09	18.80	0.5	BGF	78.08	339	eP	09	46.50	0.2
TNP	61.19	64	P	08	06.00	-0.5	KHC	73.01	333	iPd	09	18.90	0.5		0.5s	18.20nm			4.8mb	
	1.0s	26.25nm			4.6mb			1.0s	35.00nm			4.9mb		LSD	78.10	336	P	09	47.94	1.2
			pP	09	48.70	501km	GRF	73.14	335	ePd	09	19.40	0.3	LPL	78.15	336	iPd	09	47.50	0.5
SNG	61.68	242	eP	08	10.20	0.7		0.7s	83.00nm			5.4mb		LPG	78.16	336	iPd	09	47.80	0.6
BW06	61.88	56	P	08	11.10	0.1	WET	73.19	334	iPd	09	19.60	0.2		0.6s	42.25nm			5.1mb	
	0.8s	31.55nm			4.9mb		TNS	73.34	337	ePd	09	19.80	-0.5	ARV	78.32	331	P	09	50.00	2.3
			pP	19	50.00		ENN	73.42	339	eP	09	20.50	-0.1	RSP	78.36	336	P	09	48.14	0.1
ISA	62.22	67	eP	08	13.00	0.0		1.0s	106.00nm			5.3mb		MAF	78.46	339	eP	09	48.80	0.4
CLC	62.60	66	eP	08	16.00	0.6	MEO	73.50	54	e(P)	09	20.70	-0.7	PLDF	78.46	338	P	09	49.00	0.5
NB2	62.79	340	P	08	15.00	-1.3	MEM	73.55	338	P	09	20.80	-0.6	TCF	78.47	339	eP	09	48.70	0.2
	0.7s	42.50nm			5.1mb		WRA	73.69	198	P	09	21.00	-1.5		0.9s	55.70nm			5.0mb	
HFS	63.06	338	eP	08	16.50	-1.5		0.6s	65.20nm			5.3mb		FIR	78.56	332	eP	09	50.00	1.2
	0.8s	53.50nm			5.1mb		ETA	73.80	347	eP	09	21.80	-0.9	PCP	78.59	335	P	09	49.89	0.7
SBB	63.29	67	eP	08	20.00	0.1		1.0s	93.00nm			5.3mb		BHB	78.65	336	P	09	48.86	-0.5
GSC	63.42	66	eP	08	11.00	-9.7X	ABH	73.88	337	eP	09	22.78	-0.5	LSF	78.65	340	eP	09	49.70	0.3
RSSD	63.62	51	P	08	20.90	-1.1	TUL	73.96	52	ePc	09	24.10	0.1	MFF	78.66	341	eP	09	49.80	0.4
	1.0s	78.63nm			5.3mb			0.8s	40.80nm			5.0mb			0.7s	26.45nm			4.8mb	
			pP	10	04.00	497km				e	11	08.20	480kmX	RRL	78.69	336	P	09	49.89	0.0
RVR	64.05	68	eP	08	25.00	0.4	SNF	74.02	339	P	09	23.40	-0.6	PYM	78.81	339	P	09	51.02	0.7
QUE	64.08	286	iPd	08	24.70	-0.4	GAC	74.03	33	ePc	09	22.50	-1.6	SSB	78.90	338	P	09	51.07	0.3
			eS	16	23.70			0.5s	13.00nm			4.7mb		GLH	78.93	310	eP	09	51.00	-0.1
KGM	64.59	237	ePc	08	29.60	1.3	ECP	74.33	347	eP	09	26.50	0.8	ROB	79.00	335	P	09	49.99	-1.3
TPC	64.72	67	eP	08	29.00	0.1		0.7s	97.00nm			5.5mb		PZZ	79.00	335	P	09	48.96	-2.5
PLM	64.81	68	eP	08	30.00	0.3	DOU	74.35	339	Pc	09	26.70	0.8	ENR	79.18	335	P	09	51.42	-0.9
PV09	65.24	59	P	08	33.20	0.7	BHG	74.49	333	iPc	09	27.30	0.6	STV	79.19	335	P	09	50.30	-2.0
GLA	66.18	66	eP	08	39.00	0.9	FUR	74.52	334	iPc	09	28.50	1.6	SBF	79.52	335	eP	09	54.80	0.8
GOL	66.28	55	P	08	39.80	0.9	KBA	74.94	332	iPd	09	30.30	0.8		1.0s	114.00nm			5.3mb	
	1.0s	11.25nm			4.5mb			0.8s	247.00nm			5.8mb		RJF	79.56	340	eP	09	54.70	0.6
			pP	10	22.00	485km				i	10	30.60			0.6s	9.00nm			4.4mb	
GLD	66.31	55	P	08	39.80	0.8				ipP	11	17.40	496km	CAF	79.80	339	eP	09	56.20	0.8
	1.2s	50.51nm			5.0mb		VAL	75.06	349	iP	09	31.00	1.2		0.6s	16.25nm			4.7mb	
HYB	66.56	268	eP	08	39.20	-1.4	WATA	75.20	334	iPd	09	30.10	-0.7	CBN	79.96	38	eP	09	56.00	-0.3
	1.0s	60.00nm			5.2mb					id	09	31.00	3kmX	FRF	80.00	335	eP	09	57.40	1.0
			e	09	04.00	98kmX	PTJ	75.24	330	iPd	09	30.50	-0.5	DSI	80.01	309	eP	09	56.00	-0.7
SCH	68.35	23	ePd	08	49.20	-1.8	CDF	75.31	337	iPd	09	31.00	-0.4	LFF	80.07	340	eP	09	57.40	0.6
	0.6s	31.00nm			5.1mb			0.9s	72.05nm			5.2mb			0.6s	37.90nm			5.0mb	
POO	68.60	273	iPd	08	54.80	1.8	SQTA	75.41	334	iPd	09	32.20	0.3	LRG	80.17	336	eP	09	57.60	0.3
	1.0s	46.00nm			5.1mb			1.0s	77.60nm			5.2mb			0.8s	77.90nm			5.2mb	
EDU	69.60	346	eP	08	57.80	-0.6				i	09	50.90		LPO	80.22	340	eP	09	58.20	0.6
	0.6s	34.00nm			5.1mb					ipP	11	18.10	488km		0.6s	33.35nm			5.0mb	
EBH	69.96	346	eP	08	59.90	-0.6	CLE	75.53	39	iP	09	33.70	1.2	LMR	80.25	335	eP	09	57.90	0.2
	0.7s	79.00nm			5.4mb		SLE	75.61	336	ePc	09	32.60	-0.3		1.0s	88.00nm			5.2mb	
EAB	70.14	346	ePc	09	01.00	-0.6	OGA	75.78	334	eP	09	34.60	0.5	PGF	80.32	333	eP	09	59.30	1.0
	0.7s	45.00nm			5.1mb			0.8s	69.00nm			5.2mb			0.8s	45.65nm			5.0mb	
ESY	70.14	345	ePc	09	00.80	-0.8	VBY	75.81	330	e(P)	09	34.00	0.0	WARB	81.39	203	eP	10	03.50	-0.2
	0.6s	33.00nm			5.1mb		SAX	75.87	335	ePc	09	35.20	0.5		0.5s	19.00nm			4.9mb	
GBA	70.17	267	P	09	01.30	-1.0	ZLA	75.90	336	ePc	09	34.70	0.1	MBH	81.74	309	eP	10	06.00	0.2
EDI	70.23	346	eP	09	01.70	-0.4	HAU	75.91	337	eP	09	34.20	-0.4	MLS	81.89	339	P	10	06.40	0.2
KRA	70.32	330	eP	09	02.00	-0.7		0.8s	30.90nm			4.9mb		EPF	81.98	340	eP	10	07.60	0.9
	0.6s	53.00nm			5.3mb		BSF	75.97	337	eP	09	34.30	-0.7		0.6s	15.35nm			4.7mb	
			i	09	03.50	5kmX		0.8s	21.50nm			4.7mb		ETOR	84.60	341	eP	10	20.00	0.1
EAU	70.34	346	ePc	09	02.40	-0.4	TRI	76.07	332	eP	09	32.70	-2.7	GUD	85.18	342	eP	10	23.60	0.8
	0.7s	61.00nm			5.3mb		OSS	76.18	334	ePc	09	36.70	0.4	EPLA	86.08	344	e(P)	10	27.20	0.2
KSP	70.71	332	iP	09	04.50	-0.5	LLS	76.32	335	ePc	09	37.20	0.1	EJIF	89.49	342	eP	10	43.70	0.7
	1.0s	62.00nm			5.1mb		CTI	76.36	333	P	09	38.00	0.8	BCAO	111.30	310	ePKPc	16	17.50	0.4
			e	09	19.00	51kmX	VDL	76.55	335	ePc	09	38.70	0.4		0.8s	7.00nm				
EKA	70.79	346	P	09	06.00	0.6	FLN	76.66	342	iPd	09	38.20	-0.4				id	16	58.10	
	0.5s	26.70nm			5.0mb			0.9s	62.25nm			5.1mb					ic	17	06.70	
CLL	71.19	334	iPd	09	06.90	-0.9	LDF	76.75	342	iPd	09	38.70	-0.4	TIC	118.16	334	PKP	16	30.00	-0.2
	0.9s	93.00nm			5.3mb			0.6s	25.25nm			4.9mb		KIC	118.36	334	PKP	16	30.30	-0.3
			e	10	53.00	498km	SKO	76.92	325	iP	09	41.00	0.8	LIC	118.56	334	PKP	16	30.10	-0.9
BRG	71.33	334	iP	09	08.40	-0.2	GRR	77.09	342	iPd	09	41.00	0.1	PTZ	120.01	286	iPKP	16	32.00	-1.8
	1.0s	34.00nm			4.8mb		VAY	77.09	324	iP	09	41.00	-0.1	KMZ	122.56	292	iPKP	16	39.00	0.3
			i	09	32.00	91kmX		1.0s	40.00nm			4.8mb		LSZ	122.67	289	iPKP	16	39.00	0.1
			i	10	56.40		LOR	77.18	339	iPd	09	41.20	-0.3	KRI	123.06	286	iPKPc	16	55.00	15.3X
			i	11	53.40			0.7s	51.70nm			5.1mb		LPB	132.12	57	PKP	16	55.00	-2.4X
WIT	71.35	339	eP	09	11.00	2.4	VAI	77.30	335	P	09	44.00	1.9	CNCB	132.41	57	PKP	16	58.30	0.2
VRI	71.64	323	eP	09	06.00	-4.5X	MMK	77.34	335	ePc	09	43.30	0.6				e	18	56.00	
PRU	71.97	333	P	09	11.80	-0.5	ASPA	77.40	197	iPc	09	42.60	-0.3	SIV	135.10	49	PKP	17	02.40	-0.1
	1.0s	36.10nm			4.9mb			0.7s	87.30nm			5.3mb					i	19	32.00	
			e	09	23.00	37kmX	LBF	77.42	338	eP	09	42.40	-0.5	SOB1	135.64	19	ePKP	17	06.20	2.6X
			e	11	20.00			0.6s	25.25nm			4.8mb		BAO	139.95	31	e(PKP)	17	06.00	-5.6X
WTS	72.08	338	eP	09	13.00	0.1	DIX	77.45	336	ePc	09	43.90	0.6	SPA	142.16	180	iPKPd	17	08.60	-5.4X
	0.7s	16.00nm			4.7mb		SSF	77.45	339	iPd	09	42.70	-0.3		1.0s	25.00nm				
MOX	72.16	335	eP	09	13.00	-0.4		0.6s	24.35nm			4.8mb					i	20	03.20	
	1.1s	49.00nm			5.0mb		LPF	77.46	342	iPd	09	43.10	0.1	JFO	147.10	28	(PKP)	17	27.00	3.5X
			e	09	32.00	71kmX		0.7s	57.35nm			5.1mb		VAO	147.15	34	ePKP	17	25.70	2.1X
PSZ	72.21	329	e(P)	09	14.00	0.1	EMS	77.58	336	ePc	09	44.30	0.4	BMA	147.77	30	ePKP	17	28.20	3.6X
MLR	72.25	324	ePc	09	16.50	2.3	ORX	77.73	335	P	09	45.48	0.9				e	17	30.30	
HOF	72.40	335	iPc	09	14.80	0.0	BST	77.74	344	P	09	43.97	-0.5		S.D. = 0.9		on 210 of 222 obs.			
	0.9s	34.00nm			4.9mb		AVF	77.74	339	iPd	09	44.30	-0.2							
KAS	72.62	316	eP	09	17.00	0.7	SMF	77.77	338	eP	09	44.50	-0.2	?	FEB 06, 1991		08h 01m 15.14± 3.08s			
KOD	72.77	264	eP	09	18.20	0.4		0.9s	39.30nm			4.9mb			50.437 N ±34.3km			19.382 E ±16.8km		

06d 08h

DEPTH = 10.0km (geophysicist)
POLAND (548)
ML 3.4 (KRA).

KRA	0.52	137	iPgc	01 25.70	0.0
			iSg	01 35.00	
KSP	2.01	283	iPg	01 44.80	-4.7X
	0.8s	200.00nm			
			iS	02 08.50	
PSZ	2.54	172	e(P)	02 13.00	15.8X
ZST	2.69	214	e(P)	02 04.10	4.8X
			e	02 20.00	
SRO	2.72	195	eP	02 09.80	10.2X
VKA	2.96	224	eP	02 03.00	0.0
			i	02 38.20	
PRU	3.14	264	ePg	02 04.90	-0.7
			e	02 38.10	
			Sg	02 41.60	
			Lg	04 00.00	
BRG	3.49	279	iPg	02 14.00	3.5X
			iSg	02 55.00	
KHC	3.98	253	ePn	02 07.10	-10.4X
			Pg	02 14.50	
			Sn	02 44.20	
			Sg	03 06.80	
CLL	4.13	285	ePg	02 26.00	6.4X
			eSg	03 15.00	
WET	4.41	255	eP	02 29.00	5.4X
KBA	5.22	232	e(P)	03 14.00	38.8X
	0.9s	23.10nm			
			i	03 37.10	
			i	03 51.40	
GRF	5.31	265	e(Pg)	02 37.00	0.6
			eSg	03 48.00	

S.D. = 0.9 on 4 of 13 obs.

? FEB 06, 1991 09h 31m 50.86± 5.45s
50.856 N ±26.3km 14.702 E ±44.6km
DEPTH = 10.0km (geophysicist)
CZECHOSLOVAKIA (547)

PRU	0.87	187	Pn	32 07.50	-0.2
			Pg	32 09.10	
			e	32 13.50	
			Sn	32 26.50	
			Sg	32 31.50	
			Lg	33 15.00	
KSP	1.01	90	iPd	31 48.40	-21.6X
	0.4s	47.00nm			
			iS	31 56.40	
CLL	1.16	294	i(Pg)	32 12.60	0.0
			eSg	32 38.00	
KHC	1.87	203	ePn	32 23.40	0.1
			Pg	32 28.90	
			Sg	33 06.30	
WET	2.08	215	eP	32 26.40	0.2
GRF	2.52	244	e(Pn)	32 32.30	-0.2
			e(Pg)	32 46.70	
			eSg	33 31.00	
ZST	3.09	149	eP	33 33.30	52.8X
SRO	3.85	141	eP	33 32.00	40.6X

S.D. = 0.2 on 5 of 8 obs.

FEB 06, 1991 10h 03m 02.72± 0.72s
28.428 N ± 6.1km 106.332 W ± 7.6km
DEPTH = 5.0km (geophysicist)
3.9mb (2 obs.)
CHIHUAHUA, MEXICO (521)
MD 3.8 (SNM). Felt in the Chihuahua-General Trias area.

SFTX	2.27	49	P	03 40.80	-0.8
LTX	2.51	68	P	03 45.50	0.6
MOT	3.02	41	P	03 53.00	0.7
MTX	3.27	54	P	03 56.30	0.4
EPT	3.34	357	P	03 56.80	0.1
CLNB	4.37	28	P	04 11.90	0.5
CLN4	4.39	26	P	04 12.30	0.7
MZX	5.21	181	(P)	04 23.00	-0.1
			(S)	05 44.50	
SMNM	5.37	354	P	04 25.30	-0.3
SMNM	5.37	354	P	04 25.30	-0.3
CRNM	5.52	357	P	04 27.40	-0.3
ANMO	6.50	359	eP	04 41.30	-0.3
GLA	8.64	304	e(P)	05 14.00	2.6X
MEO	9.15	44	eP	05 15.00	-3.4X
MSU	11.17	336	e(P)	05 55.00	8.6X
GOL	11.27	4	eP	05 46.50	-1.3
TNP	13.24	319	e(P)	06 19.00	4.8X
OLY	14.44	57	eP	06 34.50	4.7X
RSSD	15.77	6	e(P)	06 47.50	0.2
FVM	16.35	50	eP	06 53.00	-1.6X
GBTN	20.07	63	eP	07 37.50	-2.3X
TKL	20.41	64	eP	07 41.00	-2.4X
LON	21.95	331	eP	08 00.50	1.5
JSC	22.17	68	eP	08 00.00	-1.2
SES	22.23	352	eP	08 04.00	2.2X
FFC	26.47	6	eP	08 45.00	2.7X
	0.8s	8.00nm		4.5mb	
YKA	34.50	353	eP	09 51.50	-2.0X
	0.6s	0.30nm		3.4mb	

S.D. = 0.8 on 16 of 27 obs.

• FEB 06, 1991 10h 15m 57.25± 1.21s
44.617 N ±25.7km 150.128 E ±17.9km
DEPTH = 33.0km (normal)
3.8mb (1 obs.)
KURIL ISLANDS REGION (222)

KUSJ	4.20	251	P	17 00.10	-0.5
			S	17 43.20	
ASAJ	5.39	267	eP	17 17.60	0.2
HOOJ	5.45	248	eP	17 19.40	1.1
			S	18 17.20	
MRRJ	6.94	255	eP	17 38.40	-0.8
			eS	18 52.50	
OFUJ	8.39	232	eP	17 59.40	-0.1
INK	44.57	31	eP	24 07.70	0.4
YKA	53.88	35	eP	25 18.50	-0.4
	0.6s	0.60nm		3.8mb	

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

& FEB 06, 1991 10h 19m 55.65s
66.085 N 150.088 W
DEPTH = 10.0km (geophysicist)
ALASKA (676)
<AEIC>.

MDM	1.37	145	eP	20 20.26	-0.5
			eS	20 38.93	
IMA	1.46	271	eP	20 21.76	-0.5
			eS	20 42.33	
FBA	1.53	140	eP	20 22.65	-0.3
			eS	20 43.24	
GLM	1.57	133	eP	20 22.78	-0.9
			eS	20 43.73	
CCB	1.73	145	P	20 25.38	-0.6
			eS	20 48.95	
WRH	1.83	152	eP	20 26.92	-0.4
HDA	2.14	141	eP	20 30.72	-1.2
	7 obs. associated				

• FEB 06, 1991 10h 32m 42.59± 1.09s
23.917 N ± 7.6km 121.693 E ±11.3km
DEPTH = 10.0km (geophysicist)
3.9mb (1 obs.)
TAIWAN (244)

TWD	0.19	331	iPd	32 47.10	0.4
			eS	32 49.50	
TWF1	0.67	213	ePc	32 56.70	0.8
			eS	33 05.70	
TWC	0.70	12	ePc	32 58.10	1.6
			eS	33 08.40	
TWQ	0.86	295	ePc	32 59.40	0.2
			eS	33 10.90	
TWZ	1.18	355	eP	33 06.30	1.7
ANP	1.27	353	eP	33 06.50	0.2
			eS	33 19.50	
TWK	1.28	240	ePc	33 06.70	0.3
			eS	33 24.40	
QZH	3.01	291	Pn	33 30.00	-1.1
			Sn	34 07.40	
SSE	7.17	357	eP	34 27.50	-2.4
			eS	35 51.00	
NJ2	8.48	343	Pd	34 47.70	-0.7
			S	36 21.50	
TIY	15.87	332	eP	36 32.50	4.8X
	Z 10s	0.50um			
INK	73.30	22	eP	44 15.50	-0.2
YKA	83.03	23	eP	45 08.30	-0.9
	0.7s	0.60nm		3.9mb	

S.D. = 1.3 on 12 of 13 obs.

FEB 06, 1991 10h 45m 10.75± 0.73s
41.902 N ± 5.3km 22.999 E ± 5.2km
DEPTH = 11.8 ± 5.5 km
YUGOSLAVIA (383)
ML 2.8 (SKO). MD 3.0 (ATH).

KKB	0.07	119	iPgc	45 14.00	0.6
MMB	0.63	120	iPgc	45 23.00	-0.2
			Sg	45 32.00	
VAY	0.66	209	iPg	45 23.30	-0.5
			iSg	45 31.80	
VTS	0.71	13	iPgc	45 24.00	-0.6
			iSg	45 33.00	
KNT	0.74	186	iPc	45 24.78	-0.4
			eS	45 33.10	
SRS	0.90	150	iPc	45 27.50	-0.4
			eS	45 39.30	
GRG	1.05	206	iPc	45 30.10	-0.2
			eS	45 43.82	
PGB	1.08	53	iPc	45 30.00	-1.0
			iSg	45 45.00	
SKO	1.17	274	ePn	45 32.50	0.1
			eSn	45 49.00	
THE	1.27	181	ePd	45 34.18	0.0
			eS	45 50.60	
PLD	1.29	80	iP	45 35.00	0.6
			eS	45 52.00	
RZN	1.30	99	iPc	45 35.00	0.2
			iSg	45 54.00	
PLG	1.56	167	eP	45 38.50	0.1
			eS	45 52.00	
KDZ	1.83	97	iP	45 41.00	-1.2
OHR	1.83	245	ePn	45 44.00	1.7
LIT	1.84	192	ePd	45 42.98	0.5
			eS	46 05.86	
DIM	1.90	85	iPd	45 46.00	2.8
			eS	46 11.00	
RDO	2.05	111	eP	45 49.20	3.8X
			eS	46 16.50	
ALN	2.50	113	ePc	45 56.14	4.3X

S.D. = 1.1 on 17 of 19 obs.

FEB 06, 1991 11h 44m 51.82± 0.84s
7.068 S ± 4.7km 144.801 E ± 5.1km
DEPTH = 22.3 ± 7.0 km
5.2mb (14 obs.) 4.3Msz (1 obs.)
NEAR S COAST OF PAPUA NEW GUINEA(206)

PMG	3.29	135	iPc	45 43.60	0.4
	1.0s	140.00nm			
RAB	7.87	69	e(P)	46 47.00	-0.9
QIS	14.32	200	eP	48 15.00	-0.4
			e	51 24.00	
HNR	15.17	100	eP	48 27.00	0.5
WB2	16.33	217	eP	48 40.00	-1.4
			eS	51 37.50	
ASPA	19.54	211	iPc	49 20.80	-0.3
	1.0s	119.10nm		5.1mb	
	Z 17s	2.70um		3.8Msz	
RMQ	19.68	169	iPc	49 22.80	0.2
	0.5s	35.00nm		4.9mb	
WARB	25.70	220	eP	50 22.00	-0.3
SSE	44.17	330	Pc	53 01.30	0.5
	1.0s	27.00nm		5.0mb	
IPM	45.20	284	ePd	53 09.60	0.2
NJ2	46.11	329	Pc	53 16.80	0.6
LOE	49.01	300	eP	53 39.00	-0.3
NST	49.67	297	eP	53 45.60	1.3
GYA	49.79	314	P	53 45.80	0.6
TIA	50.29	331	eP	53 48.50	-0.2
KHT	50.70	296	eP	53 51.70	-0.5
CHG	52.01	300	iPc	54 02.90	0.8
	1.0s	14.75nm		4.9mb	
SNY	52.39	340	Pc	54 03.70	-0.9
	1.2s	30.00nm		5.1mb	
XAN	53.15	323	P	54 10.00	-0.5
CN2	53.58	343	eP	54 12.40	-0.9
BJI	53.81	333	eP	54 14.50	-0.5
	1.0s	19.00nm		5.1mb	
TIY	53.82	328	eP	54 14.70	-0.6
CD2	54.49	316	P	54 20.40	0.1
BTO	57.22	329	eP	54 39.50	-0.4
LZH	57.63	321	eP	54 42.50	-0.4
	2.0s	54.00nm		5.2mb	
	Z 20s	0.24um		4.3Msz	
			sP	54 57.00	
			ePP	56 49.70	

GTA 62.19 322 Pd 55 14.60 0.4
0.8s 30.00nm 5.5mb
LSA 63.16 308 P 55 21.00 -0.2
GUN 66.64 304 P 55 44.00 0.3
1.0s 48.00nm 5.6mb
PKI 66.90 304 P 55 45.40 0.1
KKN 67.09 304 P 55 46.60 0.2
1.0s 56.00nm 5.7mb
DMN 67.17 304 P 55 47.40 0.5
1.0s 62.00nm 5.7mb
GKN 67.70 304 P 55 50.20 0.1
1.0s 52.00nm 5.6mb
WMO 72.19 320 iPd 56 17.50 0.3
1.5s 20.00nm 4.9mb
QUE 83.13 302 eP 57 19.00 1.0
INK 93.44 22 eP 58 06.00 -0.4
YKA 101.13 28 ePdiff 58 40.00 -1.4
0.8s 0.80nm 4.3mb
BCAO 126.49 270 ePKPc 03 56.50 0.5
0.5s 5.00nm
CNCB 139.83 126 PKP 04 16.00 -5.7X
LPB 139.88 126 PKP 04 17.00 -4.6X
ZOBO 140.01 126 PKP 04 16.50 -5.5X
1.0s 5.00nm
SDV 144.87 85 ePKP 04 30.00 -0.1
SIV 145.63 132 iPKPc 04 31.80 0.7
TOV 145.68 83 ePKP 04 32.60 1.3
LIC 150.02 270 PKP 04 42.30 4.2X
TIC 150.04 271 PKP 04 43.00 4.9X
S.D. = 0.7 on 40 of 45 obs.

? FEB 06, 1991 12h 53m 20.36± 1.14s
37.035 N ±10.8km 29.428 E ± 8.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.0 (ISK).

ELL 0.48 126 iPg 53 30.00 -0.1
iSg 53 38.00
YER 0.92 277 ePn 53 44.00 6.0X
BCK 1.02 65 ePn 53 40.00 0.3
CIN 1.21 298 eP 53 43.00 0.1
KHL 1.29 3 ePn 53 44.00 -0.3
S.D. = 0.5 on 4 of 5 obs.

& FEB 06, 1991 13h 46m 46.66s
39.500 N 111.077 W
DEPTH = 4.3km
3.5mb (1 obs.)
UTAH (47B)
<SLC-P>. ML 3.1 (SLC). Felt at the U.S. Fuel Company Gentry Mountoin Mine.

DAU 0.92 351 eP 47 04.30 -0.7
MSU 1.30 221 eP 47 10.60 -0.9
DUG 1.51 298 eP 47 14.20 -0.4
PV09 1.81 123 eP 47 20.00 0.8
BW06 3.47 19 eP 47 43.00 0.3
GOL 4.41 86 eP 47 57.00 0.8
TNP 5.00 255 eP 48 05.40 0.9
KVN 5.47 268 eP 48 12.00 0.9
ANMO 5.85 140 eP 48 14.50 -1.9
BONR 5.86 257 eP 48 18.00 1.4
LRM 6.40 351 eP 48 26.60 2.4
e 48 42.60
RSSD 7.00 46 eP 48 30.70 -1.9
YKA 23.12 356 eP 51 53.30 -1.1
0.7s 1.00nm 3.5mb
13 obs. associated

• FEB 06, 1991 15h 46m 21.63± 1.73s
41.122 N ± 8.2km 22.376 E ±14.2km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.4 (SKO).

GRG 0.17 173 ePc 46 25.06 -0.4
eS 46 27.58
VAY 0.25 36 iPg 46 26.70 -0.2
iSg 46 31.20
KNT 0.40 84 iPc 46 29.82 0.1
eS 46 35.62
THE 0.66 137 ePc 46 34.34 -0.5
eS 46 43.58
SRS 0.92 90 ePd 46 39.54 0.3
eS 46 52.62
LIT 1.02 175 ePc 46 41.62 0.6
S.D. = 0.5 on 6 of 6 obs.

FEB 06, 1991 16h 15m 06.22± 1.06s
40.613 N ± 5.5km 23.635 E ± 9.1km
DEPTH = 10.0km (geophysicist)
GREECE (364)

SRS 0.50 356 iPc 15 16.73 0.3
eS 15 23.20
THE 0.51 272 ePc 15 16.72 0.2
eS 15 22.36
PAIG 0.69 177 ePc 15 19.60 -0.2
eS 15 28.52
KNT 0.78 315 ePc 15 21.05 -0.4
eS 15 31.84
GRG 1.00 291 ePd 15 24.60 -0.6
eS 15 38.36
LIT 1.01 240 iPd 15 25.88 0.5
eS 15 39.40
VAY 1.07 312 ePn 15 26.70 0.3
S.D. = 0.5 on 7 of 7 obs.

? FEB 06, 1991 16h 39m 10.60± 0.70s
4.464 N ±18.9km 78.455 W ±47.2km
DEPTH = 33.0km (normal)
4.1mb (2 obs.)
SOUTH OF PANAMA (83)

UPA 4.61 347 iPc 40 20.50 0.6
1.2s 103.13nm
ARE 21.90 162 eP 44 04.00 0.8
ZOBO 23.00 154 iPc 44 13.80 -0.5
0.8s 9.41nm 4.3mb
Z 24s 0.13um 3.3MszX
LR 50 40.00
LPB 23.24 154 P 44 15.00 -1.5
CNCB 23.54 154 P 44 20.00 0.4
SIV 26.63 140 P 44 50.40 2.1
LRM 50.71 330 eP 48 10.90 1.4
FRB 59.60 5 eP 49 13.00 -0.3
YKA 63.75 342 eP 49 40.60 -0.6
0.9s 1.00nm 3.9mb
GKN 143.84 26 PKP 58 43.60 -1.5
KKN 144.30 25 PKP 58 45.40 -0.6
0.6s 11.00nm
DMN 144.38 26 PKP 58 46.00 -0.2
0.6s 18.00nm
GUN 144.44 24 PKP 58 46.60 0.2
0.8s 38.00nm
PKI 144.55 25 PKP 58 46.10 -0.5
WRA 144.55 241 PKP 58 43.00 -3.3X
1.1s 3.70nm
GBA 150.09 53 PKP 59 01.90 6.6X
S.D. = 1.1 on 14 of 16 obs.

• FEB 06, 1991 18h 00m 47.33± 1.14s
0.063 N ± 7.9km 123.588 E ±13.9km
DEPTH = 139.6 ± 14.2 km
4.9mb (2 obs.)
MINAHASSA PENINSULA (265)

MNI 1.86 42 eP 01 20.40 -0.1
KKM 9.46 309 ePd 03 08.50 6.9X
0.5s 28.80nm 5.2mb
KNA 16.52 162 eP 04 34.20 1.8X
WB2 22.51 153 iPc 05 37.00 1.0
NANU 23.82 199 eP 05 49.40 0.7
ASPA 25.63 158 eP 06 06.30 0.6
0.7s 10.20nm 4.5mb
QIS 25.80 144 eP 06 07.00 -0.2
WARB 26.26 174 eP 06 11.00 -0.4
SSE 30.95 356 e(P) 07 37.00 43.8X
eLg 08 51.00
e 31 23.50
e 33 36.60
FORR 31.04 172 eP 06 43.50 -10.5X
0.4s 28.00nm
BAL 31.19 192 eP 06 54.70 -0.7
KLB 31.96 189 eP 07 01.00 -1.1
GUN 45.52 311 P 08 55.60 0.4
PKI 45.71 310 P 08 57.00 0.4
KKN 45.92 310 P 08 58.00 -0.1
DMN 45.96 310 P 08 58.80 0.3
GKN 46.52 310 P 09 02.50 -0.3
INK 94.70 21 eP 13 53.00 -0.5
S.D. = 0.7 on 14 of 18 obs.

• FEB 06, 1991 18h 02m 26.08± 0.94s
41.956 N ± 7.1km 23.164 E ± 8.9km
DEPTH = 10.0km (geophysicist)
GREECE-BULGARIA BORDER REGION (363)

KKB 0.11 214 iPgd 02 29.00 0.1
MMB 0.56 131 iPgc 02 37.00 -0.4
VTS 0.64 3 iPgc 02 39.00 0.0
iSg 02 47.00
PGB 0.95 51 iPgd 02 44.00 -0.3
RZN 1.19 102 iP 02 49.00 0.6
KDZ 1.71 100 iPgd 03 20.00 23.9X
S.D. = 0.6 on 5 of 6 obs.

FEB 06, 1991 18h 30m 29.89± 0.59s
26.829 S ± 6.8km 26.619 E ± 7.1km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 3.9 (PRE). mbLg 3.8 (BUL).

PRY 0.77 98 iPc 30 44.60 -0.8
S 30 54.00
KSR 0.99 15 iPc 30 49.50 0.2
SEK 1.74 149 iPd 31 01.90 0.9
S 31 23.00
SLR 1.85 54 iPc 31 02.80 0.2
S 31 24.90
EVA 2.22 82 iPd 31 08.00 -0.1
S 31 33.50
BLF 2.30 189 iPd 31 11.60 2.3
BFT 3.2B 70 iPc 31 22.50 -0.7
POF 6.42 245 eP 32 08.00 0.6
S 33 15.00
BUL 6.90 16 iPn 32 15.70 1.3
iSn 33 30.80
iSg 34 04.20
CER 9.09 222 eP 32 43.60 -1.1
BLE 9.85 222 eP 32 52.50 -2.7
S 34 39.00
KRI 10.33 16 iPn 33 00.50 -1.5
iSn 34 48.00
iSg 35 46.00
KIC 44.85 313 P 38 47.30 0.2
TIC 45.24 313 P 38 51.00 0.8
S.D. = 1.4 on 14 of 14 obs.

• FEB 06, 1991 19h 38m 41.10± 1.62s
25.273 N ±19.9km 95.410 E ±15.8km
DEPTH = 137.8 ± 19.8 km
4.0mb (1 obs.)
BURMA-INDIA BORDER REGION (294)

CHG 7.21 152 eP 40 25.30 0.0
GUN 8.93 289 P 40 48.80 0.2
PKI 9.25 286 P 40 53.20 0.3
KKN 9.41 288 P 40 54.80 -0.1
DMN 9.52 286 P 40 56.00 -0.4
GKN 10.01 288 P 41 02.80 0.0
HYB 17.53 247 eP 42 38.50 0.0
WRA 58.76 136 P 48 27.00 0.0
0.8s 1.30nm 4.0mb
S.D. = 0.3 on 8 of 8 obs.

• FEB 06, 1991 19h 39m 00.23± 0.62s
42.901 S ±15.9km 85.861 W ± 8.6km
DEPTH = 10.0km (geophysicist)
5.1mb (9 obs.)
WEST CHILE RISE (686)

CNCB 30.15 36 P 45 13.00 -0.2
LPB 30.34 35 P 45 18.00 3.3X
ZOBO 30.57 35 Pc 45 16.20 -0.7
1.0s 8.00nm 4.5mb
Z 25s 0.40um 4.0MszX
S 50 24.00
LR 53 37.00
SIV 34.18 46 P 45 46.40 -1.4
BAO 42.22 62 ePd 46 55.50 0.3
PDCR 50.36 67 eP 47 58.60 -0.9
SOB1 51.60 63 eP 48 10.70 1.7
RUV 59.01 278 iP 49 02.50 -0.1
1.2s 15.00nm 5.0mb
PAE 59.02 274 eP 49 01.00 -1.6
1.2s 25.00nm 5.2mb
VAH 59.16 278 iP 49 03.30 -0.3
1.2s 25.00nm 5.2mb

06d 19h

```
TPT     59.32 278 iP     49 04.70    0.0
        1.2s     15.00nm          5.0mb
PMO     59.51 278 iP     49 05.60   -0.4
        1.2s     15.00nm          5.0mb
RSCP    78.13   0 P      50 59.20   -1.5
MEO     78.18 349 iPc    50 59.80   -1.3
ANMO    79.73 343 P      51 09.40   -0.3
        1.4s     93.02nm          5.6mb
TPC     81.46 335 eP     51 15.00   -3.7X
SBB     82.56 334 eP     51 24.00   -0.5
GSC     82.80 335 eP     51 27.00    1.3
CLC     83.52 335 eP     51 30.00    0.6
ISA     83.66 334 eP     51 30.00   -0.1
GOL     84.10 345 P      51 32.00   -0.5
MSU     84.48 340 P      51 35.00    0.6
PRI     84.83 332 eP     51 37.40    1.4
PRS     85.24 332 eP     51 39.30    1.4
TNP     85.49 336 P      51 39.50    0.1
        1.2s      9.41nm          4.9mb
BONR    85.71 335 P      51 41.00    0.4
DAU     86.05 341 P      51 42.80    0.5
GCC     86.09 332 eP     51 52.60   10.5X
DUG     86.23 340 P      51 43.80    0.8
CMB     86.45 333 eP     51 44.70    0.8
KVN     86.65 335 P      51 45.30    0.2
BW06    87.91 343 P      51 50.40   -0.7
        1.4s     49.31nm          5.6mb
RSSD    88.15 347 P      51 51.70   -0.5
LRM     91.45 342 eP     52 09.30    1.6
NB2    129.54  39 PKP    58 08.80   -1.1
        1.4s     17.20nm
TAB    143.70  81 e(PKP) 58 33.00   -4.0X
MAT    145.82 274 ePKP   58 39.00   -1.4
GBA    147.44 149 PKP    58 44.80    1.3
NNT    149.41 191 ePKP   58 49.30    2.6X
POO    150.25 138 ePKP   58 54.00    6.1X
HYB    151.35 148 ePKP   58 54.50    4.9X
                  e      59 03.50
QUE    154.86 111 ePKP   58 55.00    0.6
     S.D. = 1.0  on  35 of  42 obs.
-------------------------------------
?  FEB  06, 1991  20h 05m 28.64± 9.89s
   51.764 N ±43.3km    9.656 E ±73.9km
   DEPTH =  10.0km  (geophysicist)
 GERMANY                          (543)
      ML 2.9 (BNS).

MOX     1.67 131 ePn   06 01.00    3.0X
                 iSg   06 25.00
TNS     1.72 207 ePnd  05 58.90    0.1
                 eSn   06 21.40
BNS     1.75 244 iPnc  05 57.10   -2.1
        0.8s   124.00nm
                 i(Sn) 06 17.80
                 i(Sg) 06 19.90
WTS     1.78 279 ePn   05 59.50   -0.1
        0.8s    11.00nm
                 eSn   06 22.50
CLL     2.14 101 ePg   06 10.00    5.2X
                 iSg   06 38.10
ENN     2.55 248 ePn   06 11.50    0.9
        0.5s     6.00nm
                 eSn   06 41.50
MEM     2.57 245 iP    06 12.20    1.2
BRG     2.84 107 e(P)  06 31.00   16.2X
                 eSg   07 01.00
SNF     3.61 252 eP    07 17.70   52.0X
DOU     3.61 244 eP    07 13.80   48.0X
     S.D. = 1.8  on   5 of  10 obs.
-------------------------------------
?  FEB  06, 1991  20h 09m 37.44±19.75s
   28.831 S ±146.km   71.605 W ±74.4km
   DEPTH =  33.0km  (normal)
 NEAR COAST OF CENTRAL CHILE      (135)

RTRS    2.30 126 iPc   10 14.00    0.3
RTCB    3.59 138 ePc   10 32.50    0.2
RTLL    3.69 133 ePd   10 33.20   -0.3
CFA     4.02 134 eP    10 37.80   -0.5
                 eS    11 20.60
RTCV    4.02 139 e(P)  10 39.20    0.9
ROCH    4.16 173 eP    10 41.00    0.6
PEL     4.37 170 eP    10 43.00   -0.3
                 i     11 37.00
                 i(S)   1 45.00
LCCH    4.63 180 eP    10 46.00   -0.9
SAN     4.68 170 eP    10 49.00    1.4
TACH    4.84 173 iPc   10 49.00   -0.9
                 i     11 49.00
PCH     4.87 169 ePc   10 52.00    1.7
LNV     5.11 178 eP    10 58.50    4.8X
                 i     11 53.70
RFA     6.50 157 ePd   11 11.00   -2.3
     S.D. = 1.2  on  12 of  13 obs.
-------------------------------------
%  FEB  06, 1991  20h 46m 27.40± 2.34s
   16.409 N ±22.6km   98.973 W ± 9.6km
   DEPTH =  10.0km  (geophysicist)
 NEAR COAST OF GUERRERO, MEXICO   ( 58)

ACX     0.96 298 eP    46 46.00    0.2
                 iS    46 59.50
III     2.01 346 iP    47 01.00   -1.0
OXX     2.26  72 eP    47 05.40   -0.1
                 iS    47 34.30
PPM     2.66   7 iP    47 12.00    0.4
IIT     2.67  14 eP    47 12.00    0.5
                 (S)   47 50.00
IISM    2.98  30 eP    47 10.50   -5.1X
     S.D. = 0.8  on   5 of   6 obs.
-------------------------------------
&  FEB  06, 1991  20h 48m 56.39s
   60.640 N          151.093 W
   DEPTH =  53.9km
 KENAI PENINSULA, ALASKA          ( 14)
      <AEIC>.

NKA     0.13 325 eP    49 06.08    2.9
SLKM    0.45 107 iP    49 06.82   -0.7
                 iS    49 15.62
NNL     0.61 190 iP    49 09.66    0.4
SPU     0.72 320 iP    49 10.03   -0.7
REF     0.81 260 iP    49 11.42   -0.6
                 eS    49 23.47
CRP     0.82 321 eP    49 11.55   -0.5
CKL     0.83 313 eP    49 11.48   -0.7
                 eS    49 23.24
RDN     0.83 262 iP    49 11.46   -0.8
                 iS    49 23.16
RSO     0.84 258 iP    49 11.86   -0.6
                 iS    49 24.17
RS2     0.84 259 iP    49 11.89   -0.6
                 iS    49 24.22
SUA     0.84  11 iP    49 11.65   -0.8
BRLK    0.88 173 iP    49 12.09   -0.8
                 eS    49 24.27
BGL     0.89 315 iP    49 12.52   -0.5
NCT     0.91 266 iP    49 12.61   -0.7
                 iS    49 25.77
NCC     0.92 326 iP    49 13.08   -0.4
                 eS    49 26.17
PMS     0.96  50 eP    49 13.35   -0.6
                 eS    49 26.49
SEW     0.98 123 eP    49 13.33   -0.7
HOM     1.02 196 eP    49 14.75    0.1
CNPM    1.12 184 iP    49 15.23   -0.8
                 eS    49 30.31
PWA     1.17  30 eP    49 16.59   -0.1
PLRM    1.35  44 eP    49 18.02   -1.2
                 eS    49 35.12
SKT     1.36 351 iP    49 18.94   -0.5
OPT     1.46 228 eP    49 20.54   -0.2
                 S     49 37.55
KNK     1.50  58 eP    49 20.25   -1.1
GHO     1.55  42 eP    49 20.86   -1.2
                 S     49 40.20
KNIM    1.69  99 iP    49 21.34   -2.6
MTU     1.83 109 iP    49 23.71   -2.3
GLI     1.98  81 eP    49 25.14   -2.9
SYI     2.14 199 eP    49 29.52   -0.8
CDD     2.15 218 iP    49 30.03   -0.4
VZW     2.26  77 eP    49 29.58   -2.5
VLZ     2.38  76 eP    49 31.39   -2.2
KLU     2.66  69 eP    49 35.47   -2.2
        33 obs. associated
-------------------------------------
%  FEB  06, 1991  21h 47m 17.79± 1.12s
   41.748 N ±13.5km   12.851 E ± 6.0km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN ITALY                   (390)

RDP     0.10 276 P     47 20.20   -0.4
                 eSg   47 23.00
RMP     0.13 300 P     47 21.50    0.6
                 eSg   47 24.50
AZI     0.50  61 P     47 28.00    0.1
                 eSg   47 38.50
MNS     0.65 349 P     47 30.50   -0.3
                 eSg   47 43.00
SDI     0.72  93 P     47 32.00    0.0
                 eSg   47 44.50
     S.D. = 0.5  on   5 of   5 obs.
-------------------------------------
%  FEB  06, 1991  21h 58m 51.34± 0.64s
   46.479 N ± 6.6km    2.384 E ± 6.0km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                           (538)
      ML 1.8 (LDG).

TCF     0.23 212 Pg    58 56.40    0.2
                 Sg    58 59.30
MAF     0.29 154 Pg    58 57.00   -0.4
                 Sg    59 00.60
BGF     0.33  76 Pg    58 58.20    0.0
                 Sg    59 02.70
LSF     0.63 249 Pg    59 03.60   -0.5
                 Sg    59 11.80
AVF     0.74  65 Pg    59 05.60   -0.2
                 Sg    59 15.00
SSF     0.97  52 Pg    59 10.00    0.3
                 Sg    59 22.00
SMF     1.02  80 Pg    59 10.20   -0.4
                 Sg    59 24.00
LOR     1.28  51 Pg    59 15.40    0.2
                 Sg    59 32.00
CAF     1.57 188 Pg    59 20.00    0.7
                 Sg    59 40.00
     S.D. = 0.4  on   9 of   9 obs.
-------------------------------------
*  FEB  06, 1991  22h 18m 13.37± 1.18s
   34.421 N ±11.3km   32.172 E ±11.9km
   DEPTH =  33.0km  (normal)
 CYPRUS                           (372)
      ML 3.1 (CSS).

PPCY    0.48  17 eP    18 24.20    0.5
                 eS    18 32.00
CSS     1.10  60 eP    18 32.00   -0.5
                 eS    18 47.20
SHMJ    3.44 118 P     19 05.80   -0.2
BURJ    3.74 125 P     19 10.60    0.4
CIN     4.59 315 eP    19 22.00   -0.2
     S.D. = 0.6  on   5 of   5 obs.
-------------------------------------
     FEB  06, 1991  22h 22m 33.93± 0.83s
   44.403 N ± 6.0km    6.652 E ±10.4km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                           (538)
      ML 1.9 (LDG).

SBF     0.78 133 Pg    22 49.20    0.0
                 Sg    22 57.60
FRF     0.84 180 Pg    22 50.40    0.2
                 Sg    23 00.40
CDR     0.97 222 eP    22 52.30    0.0
                 e     22 53.10
                 e     23 05.10
LRG     0.97 193 Pg    22 52.80    0.4
                 Sg    23 04.00
LMR     1.07 186 Pg    22 53.50   -0.6
                 Sg    23 07.20
LPL     1.12   3 Pg    22 55.00    0.0
     S.D. = 0.5  on   6 of   6 obs.
-------------------------------------
     FEB  07, 1991  00h 46m 54.51± 0.19s
   44.415 N ± 1.8km    6.885 E ± 2.1km
   DEPTH =  10.8 ±  1.9 km
 FRANCE                           (538)
      ML 3.3 (LDG), 3.2 (GEN). MD 2.8
      (STR).

FOUF    0.14 327 iPg   46 57.86    0.1
                 e(Sg) 46 58.61
PZZ     0.18  60 Pd    46 59.13    0.4
DOI     0.27  71 Pc    47 02.50    2.2
                 iSg   47 05.50
STV     0.36 118 Pc    47 01.92   -0.1
                 S     47 06.35
ENR     0.43 116 Pc    47 03.00   -0.3
                 S     47 08.69
TOUF    0.48 147 Pg    47 04.08   -0.3
```

BHB	0.50	32	Pd	47	04.38	-0.4	LSF	4.20	298	Pn	47	59.00	-0.9				S	43	47.53				
			S	47	10.66		EPF	4.94	256	Pn	48	09.00	-1.5	AUE	0.87	321	eP	43	38.44	-0.6
RRL	0.51	352	Pd	47	04.48	-0.4	DOU	5.89	345	P	48	24.40	0.6	AUI	0.88	318	eP	43	37.89	-1.2
			S	47	11.46		GRR	6.67	309	Pn	48	33.60	-1.1	AUH	0.90	319	eP	43	38.47	-1.2
MVIF	0.55	160	Pg	47	05.47	-0.4	S.D. = 0.8 on 56 of 56 obs.							CNPM	1.00	33	eP	43	39.29	-2.0
			Sg	47	13.09		----------										eS	43	52.79	
AUTN	0.57	137	Pg	47	05.81	-0.4	FEB 07, 1991 01h 32m 58.74± 0.51s							HOM	1.03	19	eP	43	40.23	-1.5
			Sg	47	14.20		40.578 N ± 3.8km 21.476 E ± 4.8km										eS	43	54.97	
AURF	0.62	149	Pg	47	06.55	-0.4	DEPTH = 10.0km (geophysicist)							OPT	1.08	334	eP	43	41.46	-1.2
			Sg	47	14.87		GREECE (364)										eS	43	56.68	
SAOF	0.65	131	Pg	47	07.18	-0.2	MD 3.1 (ATH).							MCNL	1.17	296	eP	43	43.06	-1.1
			Sg	47	15.72												eS	43	58.91	
BNI	0.65	347	P	47	09.50	1.9	FNA	0.22	340	eP	33	03.70	0.2	BRLK	1.30	33	eP	43	44.81	-1.6
			eSg	47	17.50		KZN	0.35	140	iPgc	33	05.20	-0.8				eS	44	01.56	
CALN	0.66	180	Pg	47	07.92	0.2	OHR	0.74	316	iPgc	33	12.60	-0.7	NNL	1.45	20	iP	43	48.16	-0.3
SBF	0.68	144	Pg	47	07.81	-0.2				iSg	33	24.70		PDB	1.47	319	eP	43	47.65	-1.2
ROB	0.72	99	Pc	47	08.46	-0.1				Lg	33	25.50		RSO	1.79	353	eP	43	52.49	-1.2
			S	47	17.74		GRG	0.80	61	ePc	33	14.34	0.1	RS2	1.80	353	eP	43	52.95	-0.7
REVF	0.76	153	Pg	47	09.29	0.0				eS	33	27.30					eS	44	16.26	
			Sg	47	19.99		LIT	0.91	121	ePd	33	15.86	-0.3	REF	1.82	354	eP	43	52.50	-1.5
RSP	0.78	20	Pc	47	09.50	-0.2				eS	33	30.46		RDN	1.85	353	eP	43	53.22	-1.1
			S	47	20.17		VAY	1.11	48	iPn	33	19.60	0.0	RDT	1.89	358	iP	43	53.64	-1.3
FRF	0.87	191	Pg	47	11.00	-0.2				iSn	33	36.30		NCT	1.91	350	eP	43	53.93	-1.3
			Sg	47	22.40					Lg	33	41.00		SEW	2.03	44	iP	43	55.95	-0.9
FIN	0.97	102	Pc	47	12.75	-0.2	THE	1.13	87	ePc	33	20.78	0.8	SLKM	2.11	29	eP	43	57.70	-0.3
			S	47	25.43					iS	33	37.70		NKA	2.13	14	eP	44	00.25	2.0
TAVF	1.00	217	Pg	47	13.91	0.6	KNT	1.23	61	iPc	33	21.82	0.3	SPU	2.50	3	iP	44	03.41	-0.3
			Sg	47	27.68					iS	33	39.62		CKL	2.52	359	eP	44	03.54	-0.4
CKI	1.00	89	P	47	15.30	1.9	SKO	1.39	359	iPg	33	24.70	0.5	BGL	2.58	359	eP	44	02.33	-2.6
			eSg	47	27.50		0.6s 82.00nm							NCG	2.72	1	eP	44	06.76	-0.2
VILF	1.01	237	Pg	47	15.08	1.4				i	33	26.70		KNIM	2.86	52	iP	44	07.38	-1.3
			Sg	47	29.32					iSg	33	41.60		SUA	2.89	15	eP	44	09.48	0.2
LRG	1.03	202	Pg	47	13.70	-0.2				iSn	33	44.60		PMS	2.91	27	iP	44	09.20	-0.2
			Sg	47	28.20					Lg	33	52.70		SKT	3.32	6	eP	44	15.23	-0.1
LSD	1.06	10	Pd	47	14.19	-0.4	PLG	1.52	97	ePb	33	26.50	0.5	GLI	3.42	48	eP	44	13.96	-2.8
			S	47	28.20					eSn	33	47.50			31 obs. assaciated					
LPG	1.09	355	Pg	47	15.10	0.0	KEK	1.55	237	ePg	33	32.10	5.7X	----------						
			Sg	47	29.80		EVR	1.68	171	ePb	33	29.00	0.6	FEB 07, 1991 03h 50m 28.75± 0.15s						
CDR	1.09	228	e(Pg)c	47	15.10	0.1				eSg	33	55.50		51.693 N ± 3.8km 174.221 E ± 2.4km						
			i	47	15.50		AGG	1.69	157	eP	33	28.80	0.4	DEPTH = 33.5km (58 depth phases)						
			i	47	29.50		SRS	1.69	71	ePc	33	28.06	-0.4	5.7mb (101 abs.) 5.3Msz (17 obs.)						
LPL	1.11	354	Pg	47	15.40	0.1				eS	33	53.66		NEAR ISLANDS, ALEUTIAN ISLANDS (5)						
LMR	1.11	194	Pg	47	15.30	0.0	PAIG	1.81	110	ePc	33	29.82	-0.3	CENTROID, MOMENT TENSOR (HRV)						
			Sg	47	30.10					eS	33	56.50		Data Used: GDSN						
PCP	1.20	83	Pc	47	16.60	-0.1	NEO	1.85	133	ePb	33	31.10	0.3	L.P.B.: 18S, 40C						
			S	47	32.09		ALN	3.49	83	ePc	33	52.98	-1.1	Centraid Location:						
PUYF	1.23	225	Pg	47	18.04	0.7	S.D. = 0.6 on 16 of 17 abs.							Origin Time 03:50:27.3 0.3						
			Sg	47	35.03		----------							Lat 52.03N 0.04 Lan 174.27E 0.08						
TREF	1.34	234	Pg	47	20.81	1.7	% FEB 07, 1991 01h 42m 28.62± 0.59s							Dep 15.0 BDY Half-duration 2.5						
PRAF	1.38	244	Pg	47	21.91	2.2	45.958 N ± 4.9km 2.776 E ± 5.0km							Moment Tensor; Scale 10**17 Nm						
			Sg	47	40.94		DEPTH = 10.0km (geophysicist)							Mrr= 1.31 0.07 Mtt=-1.76 0.09						
BERF	1.40	219	Pg	47	20.53	0.5	FRANCE (538)							Mff= 0.46 0.06 Mrt= 3.26 0.20						
			Sg	47	40.35		ML 2.0 (LDG).							Mrf= 1.34 0.16 Mtf=-0.03 0.09						
ORO	1.44	32	P	47	21.50	0.9								Principal Axes:						
			eSg	47	39.00		MAF	0.30	331	Pg	42	34.60	-0.3	T Val= 3.76 Plg=55 Azm=326						
ORX	1.44	32	P	47	19.32	-1.4				Sg	42	39.20		N 0.20 11 71						
			S	47	36.38		TCF	0.51	310	Pg	42	38.80	-0.2	P -3.96 33 168						
GELF	1.47	226	Pn	47	21.20	0.2				Sg	42	45.00		Best Double Cauple:Ma=3.9*10**17						
			Pg	47	22.53		BGF	0.60	5	Pg	42	40.60	-0.2	NP1:Strike=294 Dip=15 Slip= 134						
			Sg	47	42.61					Sg	42	48.40		NP2: 69 79 79						
PGF	2.42	140	Pn	47	33.74	-1.0	LSF	0.91	289	Pg	42	46.60	0.5							
MDI	2.42	55	P	47	35.00	0.4	AVF	0.92	25	Pg	42	45.80	-0.4	SMY	1.04	356	iPc	50	46.90	-0.2
SMF	3.09	317	Pn	47	44.60	0.5				Sg	42	58.00		ADK	5.65	84	eP	51	52.70	0.2
			Pg	47	53.00		SMF	1.01	47	Pg	42	47.60	-0.1	SDN	15.44	66	eP	54	08.20	2.8X
			Sg	48	32.60					Sg	43	01.30		SVW	19.00	49	eP	54	50.10	0.2
BSF	3.42	359	Pn	47	48.60	-0.3	RJF	1.10	234	Pg	42	49.60	0.3	TTA	19.41	43	ePc	54	53.20	-1.6
AVF	3.43	315	Pn	47	49.40	0.4				Sg	43	04.20			1.5s 251.90nm 5.3mb					
			Pg	47	59.90		CAF	1.15	206	Pg	42	49.60	-0.5	IMA	21.62	36	ePc	55	17.00	-0.6
CAF	3.48	280	Pn	47	48.60	-1.1				Sg	43	05.50			1.6s 264.30nm 5.4mb					
MAF	3.54	302	Pn	47	50.50	-0.1	SSF	1.21	24	Pg	42	51.10	-0.1	PMR	22.15	49	ePd	55	23.80	1.0
SSF	3.55	319	Pn	47	50.70	0.1				Sg	43	07.20			0.4s 3.40nm 4.1mb X					
			Pg	48	01.40		LBF	1.32	39	Pg	42	53.20	0.2	FBA	23.49	41	ePc	55	35.60	-0.3
LOR	3.55	325	Pn	47	50.40	-0.3				Sg	43	10.80			1.4s 186.10nm 5.4mb					
			Pg	48	01.50		LOR	1.51	29	Pg	42	56.60	0.9	BRW	23.60	23	ePc	55	36.90	0.1
			Sn	48	31.20					Sg	43	15.60		TOA	23.62	48	ePd	55	38.70	1.5
			Sg	48	46.80		S.D. = 0.5 an 11 of 11 abs.							KLU	23.66	50	eP	55	36.00	-1.7
BGF	3.56	308	Pn	47	50.50	-0.3	----------							SIT	29.30	59	eP	56	35.00	5.2X
			Pg	48	02.00		& FEB 07, 1991 02h 43m 22.43s								1.0s 85.00nm 5.4mb					
			Sg	48	48.20		58.689 N 152.291 W							MAT	29.60	253	iPc	56	32.20	-0.6
HAU	3.61	354	Pn	47	51.90	0.3	DEPTH = 11.4km										eS	01	26.00	
			Sn	48	33.00		KODIAK ISLAND REGION (13)							INK	29.75	36	eP	56	32.00	-1.7
TCF	3.79	301	Pn	47	54.00	-0.2	<AEIC>.								1.3s 105.00nm 5.4mb					
			Sn	48	35.60									MDJ	30.21	274	Pc	56	35.30	-2.7
RJF	3.92	285	Pn	47	56.20	0.3	SYI	0.09	213	iP	43	25.25	0.0	Z	16s 5.80um 5.3MszX					
CDF	4.01	4	Pn	47	57.40	0.2	CDD	0.74	290	eP	43	35.76	-1.1	N	14s 7.90um					
			Sn	48	42.70					S	43	45.97		E	14s 7.90um					
LPO	4.08	276	Pn	47	57.40	-0.8	XLV	0.82	21	eP	43	36.87	-1.3				sP	56	46.00	

07d 03h

PP 57 36.00
eS 01 34.00
CN2 33.19 276 Pc 57 02.00 -2.1
1.2s 40.00nm 5.2mb
Z 15s 19.00um 5.9MszX
N 15s 6.40um
E 15s 1.80um
pP 57 11.50 33km
PP 58 14.00
eS 02 20.00
MBC 34.96 23 ePc 57 18.00 -1.1
1.0s 27.00nm 5.1mb
SNY 35.41 274 iPc 57 22.40 -0.8
1.4s 100.00nm 5.6mb
Z 14s 6.50um 5.5MszX
N 15s 7.50um
E 15s 5.10um
sP 57 33.00
PP 58 45.00
S 02 55.50
YKA 38.15 45 eP 57 45.20 -0.8
0.6s 8.60nm 4.8mb
DL2 38.32 272 P 57 47.00 -0.7
1.3s 100.00nm 5.5mb
Z 16s 2.70um 5.2MszX
N 14s 5.00um
E 14s 3.90um
pP 57 59.00 44kmX
eS 03 38.00
PNT 40.85 66 ePc 58 08.00 -0.6
0.8s 27.00nm 5.0mb
BJI 41.03 277 eP 58 10.00 -0.1
2.0s 330.00nm 5.7mb
Z 16s 5.52um 5.5MszX
N 14s 4.68um
epP 58 20.00 34km
ePP 59 48.00
eS 04 20.00
eSS 07 20.00
EDM 42.41 58 iPc 58 21.70 0.3
TIA 42.79 272 Pc 58 24.60 -0.1
2.0s 400.00nm 5.8mb
Z 15s 2.90um 5.3MszX
N 14s 4.40um
E 15s 2.80um
pP 58 35.50 38km
S 04 49.00
NEW 42.81 66 eP 58 24.00 -0.7
1.0s 75.00nm 5.4mb
EKR 42.85 80 iPc 58 27.77 2.7
ipP 58 35.87 27km
isP 58 45.10
FHC 42.88 79 eP 58 26.00 0.6
1.0s 120.00nm 5.6mb
FOX 43.04 80 iPc 58 29.83 3.2X
HHC 43.38 281 Pc 58 29.60 0.1
5.0s 1200.00nm 5.9mb X
Z 17s 9.60um 5.8MszX
N 15s 4.70um
E 15s 6.60um
PP 00 10.00
S 04 57.00
SSE 43.67 263 Pc 58 32.00 0.2
1.5s 180.00nm 5.6mb
Z 20s 3.70um 5.3Msz
N 15s 3.80um
E 13s 0.90um
pP 58 42.00 34km
PP 00 16.00
PcP 00 20.00
S 05 00.00
eSS 08 06.00
ScS 08 28.00
LBFM 43.84 77 eP 58 33.50 0.2
WDC 43.90 79 iPc 58 34.30 0.7
epP 58 41.80 25km
esP 58 45.30
NJ2 44.46 266 Pc 58 38.00 -0.2
1.2s 100.00nm 5.5mb
Z 17s 2.30um 5.2MszX
N 14s 2.60um
E 14s 1.80um
pP 58 47.20 31km
S 05 12.00
BTO 44.47 282 iPc 58 39.00 0.6
4.0s 2000.00nm 6.3mb X
N 15s 10.10um
E 15s 5.00um
pP 58 49.50 36km
PP 00 23.50
S 05 14.50
SS 08 27.00
MIN 44.61 78 eP 58 39.50 0.0
e 58 49.00 32km
TIY 44.76 277 iPc 58 40.60 -0.1
1.5s 200.00nm 5.8mb
Z 16s 4.60um 5.5MszX
N 15s 8.50um
pP 58 52.00 40km
PP 00 26.00
PcS 04 18.50
S 05 20.00
SES 45.07 61 eP 58 42.00 -1.0
1.1s 90.00nm 5.6mb
ORV 45.15 79 eP 58 44.70 1.0
e 58 54.50 33km
ZSP 45.68 82 eP 58 49.60 1.7
BRK 45.72 82 eP 58 49.10 0.9
eLQ 09 08.40
eLR 12 04.00
BKS 45.74 82 iPd 58 48.90 0.6
0.8s 69.00nm 5.6mb
e 05 52.00
eLQ 08 55.00
eLR 11 34.00
e 12 06.00
e 15 36.00
PCC 45.88 82 eP 58 50.60 1.1
GCC 46.42 82 eP 58 54.20 0.5
MHC 46.44 82 eP 58 54.40 0.3
e 59 04.30 33km
CMB 46.78 80 eP 58 57.00 0.4
LRM 46.82 67 ePc 58 56.00 -1.1
SAO 46.93 82 eP 58 59.00 1.2
PRS 47.25 83 eP 59 00.80 0.5
LLA 47.33 82 eP 59 01.70 0.7
eS 06 25.30
FFC 47.43 52 iPc 59 00.90 -0.6
1.0s 27.00nm 5.2mb
KVN 47.53 78 eP 59 02.50 -0.3
ANP 47.70 257 e(P) 59 04.00 -0.1
PRI 47.81 82 eP 59 05.70 0.8
FRI 47.85 81 ePc 59 05.00 0.0
e 59 15.30 35km
eS 06 26.80
BONR 48.10 79 eP 59 07.70 0.4
WHN 48.29 268 Pc 59 08.00 -0.5
1.0s 50.00nm 5.5mb
Z 18s 2.40um 5.2Msz
N 13s 1.70um
E 14s 3.70um
pP 59 17.50 32km
PP 01 00.00
iS 06 06.00
TNP 48.68 78 ePd 59 11.30 -0.4
1.0s 82.50nm 5.7mb
ipP 59 22.50 39km
KBS 49.22 356 eP 59 15.00 0.0
SYP 49.29 83 eP 59 17.00 0.7
XAN 49.30 276 Pc 59 15.00 -1.3
N 14s 6.50um
E 14s 3.60um
PP 01 11.00
S 06 22.00
ISA 49.47 81 eP 59 17.00 -0.6
ABL 49.54 83 eP 59 17.70 -0.7
QZH 49.67 259 Pc 59 18.00 -1.1
1.5s 200.00nm 5.9mb
Z 14s 2.40um 5.3MszX
E 14s 1.70um
pP 59 30.00 43km
PP 01 13.00
S 06 28.50
DUG 50.00 73 eP 59 21.30 -0.4
BW06 50.30 68 eP 59 23.00 -1.1
1.0s 41.67nm 5.4mb
ipP 59 33.10 34km
SBB 50.51 82 eP 59 26.00 0.4
PAS 50.66 83 eP 59 25.00 -1.6
ePcP 00 15.00
MWC 50.68 82 eP 59 27.00 0.0
GSC 50.73 80 iP+ 59 27.00 -0.3
DAU 50.79 72 eP 59 27.60 -0.3
LZH 51.08 281 iPc 59 30.00 0.0
2.0s 540.00nm 6.2mb
Z 16s 6.89um 5.8MszX
N 15s 5.77um
pP 59 39.00 30km
sP 59 45.00
S 06 45.00
RVR 51.25 82 eP 59 31.00 -0.1
GTA 51.35 287 iPc 59 31.40 -0.6
1.4s 240.00nm 6.0mb
Z 16s 9.30um 5.9MszX
N 16s 8.50um
pP 59 41.00 32km
S 06 50.00
ScS 09 21.00
MSU 51.45 74 eP 59 32.40 -0.5
PEC 51.45 82 eP 59 32.00 -0.7
TPC 51.99 81 eP 59 36.00 -0.8
PLM 52.00 82 eP 59 37.00 0.0
BAR 52.57 83 eP 59 41.00 -0.1
RSSD 52.60 64 ePc 59 39.60 -1.9
ePcP 01 00.50
eS 07 04.00
PV09 53.27 72 eP 59 45.30 -1.3
e 59 49.30
epP 59 56.90 40km
GLA 53.46 81 eP 59 47.00 -0.7
GZH 54.26 262 iPc 59 53.50 -0.1
Z 16s 2.80um 5.4MszX
N 15s 2.80um
E 13s 1.80um
pP 00 03.90 34km
eS 07 30.00
S 07 32.00
CD2 54.62 277 P 59 55.00 -1.3
1.2s 100.00nm 5.7mb
Z 18s 7.60um 5.8Msz
E 14s 3.40um
pP 00 05.00 33km
ScS 09 43.00
GOL 54.69 69 eP 59 56.80 -0.2
1.0s 32.50nm 5.3mb
epP 00 08.00 38km
GLD 54.75 69 eP 59 57.00 -0.3
Z 19s 2.12um 5.2Msz
WMQ 55.44 299 iPc 00 01.00 -1.1
1.5s 200.00nm 5.9mb
Z 16s 4.50um 5.6MszX
E 15s 5.40um
pP 00 13.50 44kmX
PP 02 08.00
eS 07 46.00
GYA 55.95 271 iPc 00 05.00 -1.1
1.8s 300.00nm 6.0mb
Z 16s 1.50um 5.2MszX
N 16s 3.60um
E 16s 3.20um
pP 00 14.80 32km
S 07 52.00
KEV 56.53 347 eP 00 08.00 -1.5
e 00 19.00 37km
ANMO 57.25 74 ePc 00 14.60 -0.7
1.0s 40.00nm 5.4mb
Z 20s 2.13um 5.2Msz
i 00 25.00 34km
e 01 09.80
e 01 19.20
e 02 06.80
eS 07 32.70
TRO 57.65 350 eP 00 16.00 -1.4
SOD 58.78 346 iP 00 23.90 -1.5
e 00 33.00 30km
KMI 59.36 272 Pc 00 29.00 -1.2
2.5s 220.00nm 5.8mb
N 14s 0.40um
E 14s 0.90um
pP 00 39.50 35km
S 08 35.00
QIZ 59.45 262 Pc 00 31.00 0.5
N 15s 1.70um
E 15s 1.70um
pP 00 41.00 33km
PP 02 47.50
S 08 41.00
DAV 59.73 240 eP 00 18.00 -14.5X
SVO 61.86 196 eP 00 48.00 1.1
MEO 62.00 69 iPc 00 47.30 -0.5
SCH 62.38 35 ePc 00 48.80 -1.2

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     1.0s   141.00nm            6.0mb
AKU  62.57    6 iP    00 50.60  -0.5
     1.0s    68.00nm            5.7mb
TUL  62.80   66 eP    00 49.50  -3.5X
     1.9s   106.80nm            5.7mb
   Z  20s     2.28um            5.3Msz
              LR      25 22.10
LSA  63.18  285 P     00 55.00  -1.2
   N  16s     2.57um
              pP      01 06.00  36km
              sP      01 13.00
              iS      09 26.00
              ScS     10 38.00
KAF  63.72  344 iP    00 56.80  -1.9
     0.6s    31.70nm            5.6mb
FVM  64.29   61 eP    01 01.40  -1.4
KSH  64.77  302 iPc   01 06.00  -0.1
   N  14s     5.70um
              pP      01 14.00  26km
RGS  64.92  352 eP    01 05.30  -1.2
ELF  65.16   51 P     01 08.30  -0.1
PMG  65.18  210 eP    01 07.00  -1.6
     0.8s    59.70nm            5.7mb
DLA  65.29   52 P     01 09.60   0.5
LDN  65.34   51 P     01 09.30  -0.2
ELC  65.45   61 eP    01 09.00  -1.3
NUR  65.51  344 iPc   01 09.20  -1.1
     1.0s   146.00nm            6.0mb
              i       01 14.20  16kmX
OLY  65.52   63 eP    01 08.80  -2.0
GAC  65.98   46 ePc   01 11.50  -2.0
     1.0s    44.00nm            5.5mb
CLE  66.33   53 iP    01 15.70  -0.2
CHG  66.38  271 ePc   01 15.30  -1.2
     1.5s    76.39nm            5.6mb
NB2  66.80  351 P     01 17.20  -1.4
     0.6s    54.00nm            5.8mb
WVLY 67.03   50 eP    01 19.00  -1.3
              epP     01 30.00  36km
HYA  67.09  354 iPc   01 19.10  -1.2
RSNY 67.30   46 eP    01 20.40  -1.6
   Z  20s     1.47um            5.2Msz
HFS  67.43  350 eP    01 20.60  -1.9
     0.6s    61.70nm            5.9mb
   Z  19s     1.49um            5.2Msz
              LR      24 42.00
BDT  67.52  270 eP    01 22.00  -1.7
GUN  67.64  287 Pc    01 24.22  -0.6
     1.2s   570.00nm            6.5mb
PWLA 67.79   62 eP    01 23.60  -1.6
ASK  67.83  354 eP    01 24.50  -0.5
BER  67.92  354 eP    01 25.00  -0.6
NST  68.01  268 eP    01 26.00  -0.7
KKN  68.09  287 Pc    01 27.00  -0.4
HBVT 68.10   45 eP    01 25.20  -1.8
              epP     01 36.00  35km
CBM  68.16   41 eP    01 25.60  -1.7
PKI  68.17  287 Pc    01 27.50  -0.6
ODD1 68.30  353 iPc   01 26.70  -1.3
GKN  68.31  288 Pc    01 28.14  -0.6
     1.4s   746.00nm            6.6mb
DMN  68.33  287 Pc    01 28.64  -0.3
RSCP 68.68   59 eP    01 29.00  -1.7
BNH  68.72   44 eP    01 29.40  -1.4
MIM  69.14   42 eP    01 31.80  -1.6
TKL  69.59   58 eP    01 35.00  -1.3
KHT  69.64  268 eP    01 36.00  -0.8
BLA  70.14   55 ePc   01 38.80  -0.9
     1.8s   195.45nm            5.9mb
   Z  20s     3.69um            5.6Msz
EMM  70.20   42 eP    01 38.50  -1.3
PNJ  70.33   48 iP    01 40.40  -0.2
CVL  70.54   53 eP    01 41.50  -0.5
              epP     01 52.70  37km
NNT  70.61  266 eP    01 42.80   0.1
CBN  70.90   52 eP    01 44.00  -0.2
MUD  71.51  351 iPd   01 47.80   0.3
     1.3s    93.00nm            5.7mb
              e       01 57.00  30km
JSC  71.97   57 eP    01 50.00  -0.6
LHS  72.05   57 eP    01 50.00  -1.1
EDU  72.10  358 ePc   01 50.50  -0.6
NDI  72.12  294 iPc   01 50.00  -1.6
ELO  72.19  359 ePc   01 51.00  -0.6
EBH  72.41  359 ePc   01 52.60  -0.3
     1.1s   138.00nm            5.9mb
EAB  72.48  359 ePc   01 53.10  -0.2

     1.3s   205.00nm            6.0mb
EAU  72.81  359 ePc   01 55.20  -0.1
     1.2s   208.00nm            6.0mb
SGS  73.20   58 eP    01 58.00   0.1
EKA  73.32  358 Pd    01 59.60   1.4
     0.6s    28.90nm            5.4mb
PPM  73.54   80 (P)   02 07.50   6.8X
DZM  73.76  188 iPc   02 03.50   2.3
PMO  74.13  142 iP    02 04.90   1.6
     0.8s    10.00nm            4.9mb
              ipP     02 15.30  33km
TPT  74.22  142 iP    02 05.40   1.5
     0.8s    20.00nm            5.2mb
              ipP     02 15.80  33km
SNG  74.25  262 eP    02 00.40  -3.8X
IISM 74.36   79 (P)   02 06.00   1.2
VAH  74.45  142 iP    02 06.70   1.5
     0.8s    15.00nm            5.0mb
              ipP     02 17.00  33km
RUV  74.50  142 iP    02 07.10   1.6
     0.8s    15.00nm            5.0mb
              ipP     02 17.40  33km
WIT  75.34  352 eP    02 11.50   1.6
              e       02 21.00  30km
CTA  75.55  207 iPc   02 12.10   0.6
     1.3s    65.38nm            5.5mb
              iS      11 51.00
IPM  76.03  260 ePc   02 13.40  -1.0
WTS  76.14  352 iPc   02 14.50   0.0
     1.0s    39.00nm            5.4mb
              e       02 24.50  32km
CLL  76.15  348 iPc   02 13.80  -0.8
     1.9s   160.00nm            5.7mb
              ipP     02 23.90  32km
KRA  76.30  343 iPc   02 15.30  -0.1
     1.3s   125.00nm            5.8mb
   Z  16s     2.20um            5.6MszX
   E  16s     2.50um
              e       02 25.30  32km
BRG  76.45  347 iPc   02 15.00  -1.3
     1.6s   110.00nm            5.6mb
              i       02 25.20  33km
OUE  76.61  302 iPc+  02 18.00   0.2
     1.5s   202.78nm            5.9mb
              ePP     02 28.60
              eS      12 04.30
KGM  76.65  256 ePd   02 18.40   0.5
MOX  76.98  349 iPc   02 19.00  -0.2
     1.8s   112.00nm            5.6mb
              i       02 29.00  32km
BNS  77.13  352 ePc   02 19.80  -0.2
PRU  77.23  347 Pc    02 20.30  -0.3
     1.5s    78.10nm            5.5mb
   Z  16s     2.10um            5.6MszX
   E  18s     1.90um
              e       03 06.00 188kmX
              e       22 29.80
ENN  77.44  352 iPc   02 21.50  -0.2
     1.3s   218.00nm            6.0mb
              e       02 32.50  36km
UCC  77.52  353 P     02 22.90   0.7
MEM  77.59  352 Pd    02 22.68   0.2
              e       02 33.50  35km
TNS  77.74  351 ePc   02 23.60   0.1
SNF  77.82  353 P     02 23.80   0.0
              e       02 34.80  36km
BMR  77.88  340 ePd   02 28.00   3.8X
GRF  77.96  349 iPc   02 25.10   0.4
     1.6s   117.00nm            5.7mb
   Z  20s     0.80um            5.0Msz
              e       02 35.40  33km
OIS  78.06  213 eP    02 23.00  -2.5
DOU  78.21  353 P     02 26.30   0.4
              e       02 37.00  34km
KHC  78.21  347 Pc    02 26.10   0.1
   Z  17s     1.50um            5.4MszX
   N  16s     1.30um
   E  16s     1.00um
              i       02 36.50  33km
WET  78.29  348 iPc   02 27.00   0.5
     1.7s   210.00nm            5.9mb
PSZ  78.36  343 iP    02 28.00   1.0
ZST  78.58  345 iP    02 29.00   0.9
VKA  78.64  345 iPc   02 28.70   0.3
              e       02 38.00  30km
SRO  78.75  344 iP    02 29.70   0.8
              e       09 49.90

VRI  78.86  338 eP    02 32.00   2.3
              e       18 22.00
BUD  78.94  343 iP    02 30.50   0.5
CVO  79.04  338 eP    02 34.00   3.3X
GWF  79.06  351 P     02 30.66   0.0
WB2  79.39  218 iPc   02 33.00   0.2
MLR  79.40  338 iPd   02 35.00   2.2
              e       18 53.00
STR  79.43  351 P     02 32.97   0.3
FUR  79.46  348 eP    02 33.20   0.3
ISR  79.60  337 eP    02 35.00   1.3
WLS  79.64  351 P     02 33.74  -0.2
CDF  79.65  351 P     02 33.48  -0.5
BHG  79.68  347 eP    02 34.70   0.6
     1.4s    87.00nm            5.6mb
TAB  79.70  321 eP    02 35.00   0.5
TIH  79.70  344 iP    02 35.30   1.1
DEV  79.71  340 iPd   02 36.50   2.3
FLN  79.82  356 iPc   02 34.60  -0.2
     1.1s    68.35nm            5.6mb
   Z  20s     1.33um            5.3Msz
CMP  79.83  338 iPd   02 37.00   2.1
ECH  79.86  351 P     02 34.85  -0.2
UZD  79.88  343 iP    02 37.00   1.9
VITF 79.96  352 P     02 35.60   0.1
HYB  79.97  285 iPc   02 35.80  -0.3
     1.2s   242.80nm            6.1mb
              i       02 46.50  34km
              eS      12 40.00
LDF  79.98  356 iPc   02 35.40  -0.2
     1.1s    56.15nm            5.5mb
FEL  80.11  351 eP    02 36.30  -0.2
HAU  80.14  352 iPc   02 36.60   0.1
     1.1s    43.95nm            5.4mb
   Z  20s     1.27um            5.3Msz
SLE  80.17  350 ePc   02 36.50  -0.2
GRR  80.21  357 iPc   02 36.80   0.0
     1.1s    80.60nm            5.6mb
MOF  80.22  351 P     02 36.64  -0.4
KBA  80.25  347 iPc   02 39.10   1.8
     1.3s   379.00nm            6.2mb
              i       02 42.00   9kmX
              i       02 49.90
              i       03 30.30
BSF  80.27  351 P     02 37.06  -0.3
BST  80.37  359 P     02 38.44   0.7
SOTA 80.39  348 iPc   02 38.60   0.6
     1.3s   131.00nm            5.8mb
              i       02 49.20  34km
ZLA  80.46  350 eP    02 38.40   0.1
BBS  80.57  351 P     02 39.08   0.2
LPF  80.57  357 eP    02 38.90   0.2
     1.7s   161.75nm            5.7mb
SAX  80.59  350 eP    02 39.60   0.4
LOMF 80.75  351 P     02 40.01   0.2
OGA  80.76  348 eP    02 40.70   0.6
FVI  80.80  347 P     02 42.00   2.0
BRS  80.97  199 iPc   02 40.80  -0.2
RMO  81.00  203 eP    02 42.00   0.8
PTJ  81.00  345 iPc   02 41.60   0.4
LLS  81.00  350 ePc   02 41.80   0.5
OSS  81.05  349 ePc   02 42.10   0.5
LOR  81.07  353 iPc   02 41.40  -0.1
     1.3s    90.25nm            5.6mb
   Z  20s     1.33um            5.3Msz
GRC  81.10  354 P     02 41.98   0.4
BEO  81.23  341 eP    02 40.50  -1.8
              i       02 52.70  41km
SSF  81.30  354 iPc   02 42.90   0.3
     1.1s    43.95nm            5.4mb
VDL  81.33  349 ePc   02 44.10   1.1
LBF  81.35  353 eP    02 42.90   0.0
     1.3s    30.70nm            5.2mb
CTI  81.49  348 P     02 45.80   2.0
AVF  81.58  354 iPc   02 44.50   0.4
     1.5s   143.65nm            5.8mb
SMF  81.69  353 iPc   02 44.90   0.2
     1.5s   164.55nm            5.8mb
BGF  81.85  354 iPc   02 45.80   0.3
     1.4s    71.90nm            5.5mb
POO  81.90  289 iPc   02 48.60   2.4
     1.4s   200.00nm            6.0mb
              iS      13 04.00
MMK  81.92  350 ePc   02 47.20   1.0
DIX  81.95  351 ePc   02 47.50   1.1
MFF  81.97  356 iPc   02 46.60   0.5
     1.1s    41.50nm            5.4mb
```

07d 04h

MDI 82.00 349 P 02 48.20 2.0
EMS 82.00 351 ePc 02 47.30 0.7
VAI 82.02 350 Pc 02 48.60 2.3
TCF 82.16 354 iPc 02 47.50 0.4
1.1s 30.50nm 5.3mb
MAF 82.20 354 iPc 02 47.90 0.5
1.6s 118.15nm 5.7mb
LSF 82.24 355 iPc 02 47.80 0.3
1.6s 152.35nm 5.8mb
OLP 82.27 207 eP 02 48.00 0.2
ORO 82.34 350 P 02 51.00 2.8
PLDF 82.38 353 P 02 49.24 0.9
RSL 82.41 351 P 02 49.50 0.8
LPL 82.57 351 iPc 02 50.80 1.2
1.3s 66.80nm 5.5mb
LPG 82.59 351 iPc 02 51.10 1.4
1.3s 104.70nm 5.7mb
PGB 82.60 338 eP 02 49.00 -0.6
PYM 82.64 354 P 02 50.21 0.5
ITU 82.74 334 iPc 02 52.00 1.8
VTS 82.78 339 eP 02 51.00 0.4
BBTK 82.84 331 iPc 02 51.00 0.1
ASPA 82.95 217 iPc 02 51.70 0.3
1.4s 23.60nm 5.1mb
SSB 83.00 353 P 02 52.21 0.7
BOB 83.02 349 P 02 55.10 3.4X
BNI 83.04 351 Pc 02 55.30 3.4X
LBL 83.14 354 P 02 52.99 0.8
YLV 83.15 334 eP 02 52.00 -0.4
KDZ 83.16 337 eP 02 53.00 0.6
RJF 83.18 355 eP 02 52.80 0.4
1.7s 117.65nm 5.7mb
Z 20s 1.17um 5.3Msz
MME 83.44 348 Pc 02 57.60 3.5X
KKB 83.50 339 iPd 02 55.00 0.9
CAF 83.52 354 iPc 02 55.20 1.0
1.8s 172.65nm 5.9mb
SFI 83.55 347 Pc 02 58.00 3.7X
LFF 83.58 355 iPc 02 55.40 0.9
1.7s 176.45nm 5.9mb
GBA 83.60 284 P 02 54.80 -0.1
PGD 83.61 347 Pc 02 58.60 3.7X
KCT 83.72 334 eP 02 54.90 -0.4
SKO 83.76 340 iPc 02 55.70 0.3
1.8s 219.00nm 6.0mb
Z 16s 1.77um 5.5MszX
N 14s 1.77um
E 16s 1.77um
iPcP 02 59.60 31km
i 03 05.40
iSKS 13 18.00
iS 13 29.50
LR 47 37.00
FIR 83.77 348 iP 02 56.00 0.6
ARV 83.81 346 Pc 02 58.80 3.1X
LPO 83.82 355 iPc 02 56.30 0.6
1.7s 191.15nm 6.0mb
CRE 83.82 347 Pc 02 58.80 2.9
PII 83.92 348 Pc 02 58.30 2.1
AUTN 84.01 350 P 02 56.63 -0.3
VAY 84.13 339 iP 02 58.50 1.2
1.7s 153.00nm 5.9mb
i 03 07.00 27km
SBF 84.14 350 iPc 02 58.00 0.6
1.5s 229.80nm 6.1mb
DST 84.25 334 eP 02 57.30 -0.7
ASS 84.27 347 P 03 01.20 3.1X
CDR 84.49 352 ePc 03 00.00 0.9
e 03 10.20 32km
e 03 33.10
FRF 84.52 351 iPc 03 00.00 0.8
1.3s 83.05nm 5.8mb
LRG 84.65 351 iPc 03 01.00 1.2
1.3s 75.80nm 5.7mb
Z 20s 0.63um 5.0Msz
LMR 84.76 351 iPc 03 01.40 1.0
1.6s 205.20nm 6.1mb
KHL 85.20 333 iP 03 02.20 -0.6
PGF 85.27 349 iPc 03 03.60 0.5
1.6s 186.55nm 6.0mb
EPF 85.51 356 iPc 03 04.30 0.0
1.5s 67.90nm 5.6mb
MLS 85.54 355 P 03 04.85 0.5
ECRI 86.04 358 eP 03 08.80 1.9
KOD 86.21 282 eP 03 08.00 -0.4
YER 86.65 333 eP 03 10.00 0.0
BHL 87.34 327 P 03 12.00 1.4

SKS 13 40.00
WARB 88.06 222 eP 03 18.00 1.3
TOL 88.79 359 eP 03 20.00 -0.2
ePP 06 04.00
eS 13 56.00
ePS 15 10.00
eSS 19 55.00
MEKA 91.98 228 eP 03 34.70 -0.3
ZOBO 119.70 78 (PKP) 09 18.00 0.5
Z 20s 0.93um 5.4Msz
LR 49 28.00
LPB 119.91 79 PKP 09 18.00 0.3
Z 22s 1.48um 5.6Msz
LR 51 14.00
CNCB 120.20 79 PKP 09 20.00 1.5
BCAO 120.36 332 iPKPc 09 28.10 9.9X
0.9s 31.00nm
ic 10 42.90
ic 11 16.60
SIV 123.72 72 ePKP 09 20.00 -4.6X
i 11 07.60
SOB1 128.84 47 ePKP 09 35.80 1.3
e 09 47.20
BAO 130.83 59 e(PKP)09 37.00 -1.3
PTZ 132.27 308 iPKP 09 40.00 -1.1
i 12 02.00
i 13 05.00
PDCR 132.57 47 ePKP 09 40.20 -1.3
e 13 07.50
KMZ 134.16 315 ePKP 09 53.00 8.3X
i 12 16.00
i 12 23.00
LSZ 134.68 311 iPKP 09 44.00 -1.6
BMA 138.67 60 ePKP 10 02.70 9.8X
SLR 143.43 302 iPKPc 09 55.00 -6.4X
1.5s 125.00nm
EVA 143.62 300 iPKPd 10 09.00 7.3X
1.0s 32.00nm
CER 154.19 305 ePKP 10 18.00 0.3
S.D. = 1.0 on 298 of 320 obs.

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* FEB 07, 1991 03h 52m 34.84± 0.83s
37.035 N ± 9.2km 29.426 E ± 6.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.2 (ISK).

ELL 0.48 126 iPg 52 44.50 -0.1
iSg 52 52.50
YER 0.92 277 ePn 52 52.80 0.3
BCK 1.02 65 iPn 52 54.40 0.2
CIN 1.21 298 eP 52 57.00 -0.3
KHL 1.29 3 iPn 52 58.70 -0.1
S.D. = 0.4 on 5 of 5 obs.

? FEB 07, 1991 03h 55m 08.65± 1.44s
51.723 N ±22.9km 174.177 E ±17.6km
DEPTH = 33.0km (normal)
4.9mb (6 obs.)
NEAR ISLANDS, ALEUTIAN ISLANDS (5)

SMY 1.01 357 eP 55 26.00 -0.5
FBA 23.48 41 eP 00 17.00 1.2
NEW 42.82 66 eP 03 04.50 -0.3
KVN 47.55 78 eP 03 42.70 -0.2
TNP 48.70 78 eP 03 52.40 0.6
ISA 49.49 81 eP 04 08.00 10.2X
SBB 50.53 82 eP 04 16.00 10.3X
GSC 50.76 80 eP 04 07.00 -0.4
e 04 18.00
TPC 52.02 81 eP 04 16.00 -0.9
e 04 27.00
PLM 52.02 82 eP 04 28.00 10.8X
GLA 53.48 81 eP 04 39.00 11.2X
GOL 54.71 69 eP 04 36.80 -0.2
KAF 63.68 344 iP 05 37.60 -0.8
0.5s 3.50nm 4.7mb
NUR 65.47 344 eP 05 49.00 -1.0
NB2 66.76 351 P 05 57.60 -0.7
0.7s 8.20nm 4.9mb
HFS 67.39 350 ePKP 06 00.50 -1.8
0.5s 4.30nm 4.8mb
EKA 73.29 358 P 06 40.00 2.0
2.3s 114.60nm 5.5mb
WRA 79.41 218 P 07 21.00 8.2X
1.5s 2.70nm 4.0mb
KBA 80.21 347 iPc 07 1[illegible].00 1.9
0.9s 14.60nm 5.0mb
SOTA 80.36 348 i(P) 07 18.90 1.1
S.D. = 1.2 on 15 of 20 obs.

FEB 07, 1991 03h 57m 48.95± 0.31s
51.703 N ± 7.4km 174.136 E ± 3.9km
DEPTH = 32.2km (5 depth phases)
4.9mb (40 obs.)
NEAR ISLANDS, ALEUTIAN ISLANDS (5)

SMY 1.03 359 iP 58 06.70 -0.4
ADK 5.70 85 e(P) 59 17.00 3.5X
TTA 19.44 43 eP 02 15.20 -0.2
1.2s 71.97nm 4.8mb
IMA 21.64 36 eP 02 37.20 -1.0
FBA 23.51 41 eP 02 56.40 -0.1
0.8s 34.48nm 4.9mb
MBC 34.98 23 eP 04 39.00 -0.5
0.9s 15.00nm 4.9mb
PNT 40.89 66 eP 05 29.00 -0.3
0.8s 10.00nm 4.6mb
EDM 42.45 58 ePc 05 42.00 -0.1
NEW 42.85 66 eP 05 45.00 -0.4
0.8s 18.75nm 4.9mb
SSE 43.62 263 Pc 06 02.20 10.4X
1.2s 17.00nm
BTO 44.42 282 P 05 59.00 0.7
SES 45.11 61 eP 06 14.00 10.3X
KVN 47.58 77 eP 06 23.60 0.1
e 06 33.00
BONR 48.15 79 eP 06 29.00 0.9
e 06 39.00
WHN 48.24 268 eP 06 28.50 0.0
pP 06 38.00 32km
TNP 48.73 78 eP 06 32.50 0.1
1.2s 22.85nm 5.1mb
BCH 48.84 83 eP 06 35.00 1.8
ISA 49.52 81 eP 06 41.00 2.6X
BW06 50.35 68 eP 06 43.50 -1.3
0.8s 6.55nm 4.7mb
SBB 50.56 82 eP 06 48.00 1.7
PAS 50.71 82 eP 06 45.00 -2.4
eScS 09 26.00
eSS 10 36.00
eLg 12 12.00
eLR 13 27.00
GSC 50.78 80 eP 06 48.00 [illegible]
LZH 51.02 281 P 06 50.20 [illegible]
2.0s 100.00nm 5.4[illegible]
Z 16s 4.61um 5.6[illegible]
E 15s 5.41um
pP 06 57.00 [illegible]
MSU 51.50 74 eP 06 53.50 -0.1
TPC 52.04 81 eP 06 58.00 0.4
e 07 07.00
PLM 52.05 82 eP 06 58.00 0.2
e 07 07.00
RSSD 52.65 64 eP 07 04.00 1.8
GLA 53.51 81 eP 07 08.00 -0.4
CD2 54.57 276 P 07 16.20 -0.1
GOL 54.74 69 eP 07 17.00 -0.7
0.7s 3.64nm 4.5mb
WMQ 55.39 299 iPc 07 21.00 -1.1
pP 07 31.60 35km
sP 07 34.00
ANMO 57.29 74 eP 07 37.00 1.0
1.1s 92.27nm 5.7mb
SOD 58.76 346 iP 07 43.80 -1.8
KAF 63.69 344 iP 08 17.50 -1.4
0.5s 9.60nm 5.2mb
NUR 65.48 344 iP 08 29.40 -1.1
0.9s 45.60nm 5.6mb
CHG 66.32 271 eP 08 35.60 -0.9
CLE 66.37 53 iP 08 44.90 8.4X
NB2 66.78 351 P 08 37.70 -1.2
0.7s 21.90nm 5.4mb
WVLY 67.06 50 eP 08 40.00 -0.9
epP 08 51.00 36km
HFS 67.41 350 eP 08 40.10 -2.7
0.5s 9.30nm 5.1mb
GUN 67.59 287 P 08 44.56 -0.3
PWLA 67.83 61 eP 08 44.50 -1.3
KKN 68.04 287 P 08 47.14 -0.3
PKI 68.12 287 Pc 08 47.64 -0.5
GKN 68.26 288 P 08 48.36 -0.4
DMN 68.27 287 P 08 48.84 -0.2
RSCP 68.72 59 eP 08 54.00 2.6X

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GBTN   69.39   58 eP     08 54.50   -0.9
TKL    69.63   58 eP     08 56.00   -0.9
CVL    70.57   53 eP     09 02.20   -0.4
JSC    72.01   57 eP     09 10.70   -0.6
                  epP    09 21.50   35km
EKA    73.31  358 P      09 20.00    1.5
       0.7s    18.40nm             5.2mb
KSP    76.12  346 iPd    09 34.90    0.1
WTS    76.12  352 eP     09 35.00    0.2
KRA    76.27  343 eP     09 35.80    0.2
                  e      09 44.30
QUE    76.56  302 eP     09 38.50    0.6
MOX    76.96  349 e(P)   09 40.00    0.5
PRU    77.21  347 eP     09 41.50    0.6
ENN    77.42  352 eP     09 42.00    0.0
       0.9s    23.00nm             5.2mb
MEM    77.57  352 Pc     09 43.20    0.4
SNF    77.80  353 P      09 45.30    1.2
KHC    78.18  347 Pd     09 47.30    1.0
       1.0s     7.00nm             4.6mb
DOU    78.19  353 P      09 46.80    0.6
ZST    78.56  345 eP     09 49.40    1.1
WRA    79.37  218 P      09 53.00    0.0
       1.1s     2.80nm             4.2mb
WRA    79.37  218 P      09 57.00    4.0X
       0.7s     5.80nm             4.7mb
WRA    79.37  218 P      10 07.00   14.0X
       1.3s     4.40nm
CDF    79.63  351 eP     09 54.20   -0.1
       0.8s     6.70nm             4.7mb
FLN    79.81  356 eP     09 54.80   -0.3
       0.9s    19.65nm             5.1mb
HYB    79.92  285 eP     09 56.30    0.1
                  e      10 06.00
LDF    79.96  356 eP     09 55.60   -0.3
       0.8s    12.10nm             5.0mb
HAU    80.12  352 eP     09 56.70   -0.1
GRR    80.20  357 eP     09 57.10    0.0
       0.7s    14.35nm             5.1mb
KBA    80.23  347 iPc    09 59.20    1.6
       0.9s    41.50nm             5.4mb
                  id     09 59.60
                  i      10 14.60
BSF    80.25  351 eP     09 57.40   -0.2
       0.8s     8.05nm             4.8mb
SQTA   80.37  348 iPc    09 58.70    0.4
       0.9s    16.80nm             5.0mb
                  i      10 09.90
                  i      10 28.00
LPF    80.56  357 eP     09 59.10    0.0
       1.0s    16.00nm             5.0mb
LOR    81.06  353 eP     10 01.80    0.0
       0.9s    13.10nm             4.9mb
SSF    81.29  354 eP     10 03.20    0.3
       0.8s     8.05nm             4.8mb
LBF    81.33  353 eP     10 03.20    0.0
       0.9s     7.35nm             4.7mb
AVF    81.57  354 iPc    10 04.70    0.3
       0.8s     6.70nm             4.7mb
SMF    81.68  353 eP     10 05.30    0.3
       1.0s    19.00nm             5.1mb
MFF    81.95  356 eP     10 06.80    0.4
       0.9s     6.55nm             4.7mb
TCF    82.14  354 eP     10 07.90    0.5
       0.7s     4.40nm             4.6mb
MAF    82.19  354 eP     10 08.20    0.5
       0.8s     5.35nm             4.6mb
LSF    82.22  355 eP     10 08.20    0.4
LPL    82.55  351 eP     10 11.20    1.3
       0.8s     6.05nm             4.7mb
LPG    82.57  351 eP     10 11.40    1.4
       1.0s    12.00nm             4.9mb
ASPA   82.93  217 eP     10 19.80    8.1X
       1.3s    10.10nm             4.8mb
CAF    83.51  354 eP     10 15.20    0.7
       1.0s    12.00nm             5.0mb
GBA    83.55  284 P      10 15.00   -0.1
                  e      11 30.00
                  e      12 41.00
LFF    83.57  355 eP     10 15.90    1.1
FIR    83.75  348 eP     10 16.00    0.3
LPO    83.80  355 eP     10 16.50    0.5
       0.7s     5.50nm             4.8mb
LRG    84.63  351 eP     10 21.30    1.2
KOD    86.16  282 eP     10 26.40   -2.1
SLR   143.38  302 ePKP   17 14.00   -7.7X
      S.D. = 0.9  on  87 of  97 obs.
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&  FEB  07, 1991  03h 59m 05.00s
   51.700 N          174.200 E
   DEPTH =  33.0km  (normal)
   4.8mb (  3 obs.)
 NEAR ISLANDS, ALEUTIAN ISLANDS  (  5)
      <SPEC>. Held to mainshock
      location.

SMY     1.03  357 e(P)   59 23.00   -0.2
KAF    63.71  344 iP     09 33.20   -1.8
       0.5s      3.50nm             4.7mb
NUR    65.50  344 eP     09 45.00   -1.5
NB2    66.79  351 P      09 53.20   -1.6
       0.6s      7.40nm             5.0mb
HFS    67.42  350 eP     09 56.30   -2.5
       0.5s      4.80nm             4.9mb
BCAO  120.35  332 ePKPd  18 03.00    8.5
       0.6s      6.00nm
                 ic      18 58.00
        6 obs. associated
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?  FEB  07, 1991  04h 04m 03.85±16.46s
    9.904 N ±99.0km   59.990 W ±97.3km
   DEPTH =  33.0km  (normal)
 NORTH ATLANTIC OCEAN              (402)
      MD 3.7 (TRN).

TBH     1.21  299 eP     04 24.11   -0.4
                  eS     04 38.15
BOT     1.44  330 eP     04 28.25    0.3
                  eS     04 43.19
TPP     1.50  286 eP     04 28.66    0.0
                  eS     04 44.60
TRN     1.58  298 eP     04 29.40   -0.4
                  eS     04 45.33
TCE     1.91  295 eP     04 35.28    0.6
                  eS     04 53.01
SVB     3.57  340 eP     04 58.22   -0.1
                  eS     05 36.87
SVV     3.60  341 eP     04 58.58   -0.1
                  eS     05 37.35
      S.D. = 0.5  on   7 of   7 obs.
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   FEB  07, 1991  04h 06m 10.44± 0.52s
    6.103 S ± 8.5km  103.358 E ± 9.9km
   DEPTH =  33.0km  (normal)
   5.0mb ( 15 obs.)
 SOUTHWEST OF SUMATERA             (273)

KGM     8.06  360 ePc    08 09.70    1.5
IPM    10.86  348 ePd    08 49.30    2.5
KUPT   20.44  103 eP     10 49.60    1.7
                  eS     11 03.00
KHT    21.28  347 eP     10 54.70   -1.8
BDT    23.59  350 eP     11 18.00   -1.3
CHG    25.14  350 ePc    11 33.10   -1.1
       0.9s     23.11nm             4.8mb
QIZ    25.78   14 P      11 42.00    1.8
KNA    26.69  113 eP     11 50.50    1.8
GBA    32.34  307 Pc     12 39.00   -0.1
       0.8s      4.90nm             4.5mb
GYA    32.53    6 P      12 40.00   -0.7
WB2    33.10  117 iPc    12 45.00   -0.7
ASPA   34.17  124 eP     12 54.60   -0.4
       0.7s     11.60nm             4.9mb
                  e      13 05.70
                  eS     18 39.30
CD2    36.80    1 P      13 16.20   -1.0
LSA    37.48  342 iP     13 23.00   -0.4
PKI    37.71  333 P      13 25.38    0.2
       0.6s     13.00nm             5.0mb
GUN    37.79  334 P      13 26.58    0.6
DMN    37.87  333 P      13 27.26    0.7
KKN    37.95  333 P      13 27.44    0.3
QIS    37.97  116 iPc    13 27.00   -0.2
GKN    38.42  333 P      13 31.52    0.5
XAN    40.27    7 Pc     13 45.20   -1.0
NJ2    40.72   20 Pd     13 51.00    1.2
SSE    40.73   24 Pc     13 51.00    1.1
       1.2s     20.00nm             4.7mb
                 pP      14 02.50   41kmX
LZH    41.97    1 P      14 00.00   -0.2
       2.0s     61.00nm             5.0mb
NDI    42.78  325 eP     14 07.00    0.2
PMG    43.50   97 eP     14 12.60   -0.2
QLP    43.92  122 iPd    14 16.00   -0.1
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TIY    44.40   10 Pc     14 19.30   -0.6
GTA    45.40  356 iPc    14 28.00    0.1
       1.0s     20.00nm             5.0mb
BTO    46.87    7 eP     14 38.70   -0.8
HHC    47.33    8 Pc     14 43.20    0.1
BJI    47.41   13 eP     14 43.50   -0.1
       1.0s     35.00nm             5.3mb
SNY    51.15   19 eP     15 11.00   -1.4
       1.2s     10.00nm             4.7mb
WMQ    51.67  346 iPc    15 16.50    0.1
       1.0s     80.00nm             5.6mb
MAT    53.52   35 (P)    15 28.00   -2.2
CN2    53.54   20 P      15 29.00   -1.2
       1.0s     30.00nm             5.2mb
KAF    89.34  333 iP     19 05.80    1.2
       0.6s      8.80nm             5.2mb
NUR    89.74  331 iP     19 07.90    1.4
       0.6s     10.40nm             5.3mb
HFS    95.08  330 eP     19 31.10    0.0
       0.5s      2.80nm             5.0mb
NB2    96.34  331 P      19 36.80   -0.1
       0.9s      3.20nm             4.8mb
YKA   117.23   19 ePKP   24 52.30   -1.3
       0.8s      1.20nm
FRB   122.17  356 ePKP   25 02.50   -0.5
PNT   123.78   32 ePKP   25 07.00    0.4
       0.8s      8.00nm
FFC   127.40   18 ePKP   25 14.00    0.6
       0.5s      5.00nm
SOB1  141.26  247 ePKP   25 54.20   13.5X
TUL   145.51   28 iPKPc  25 46.70   -0.6
       0.8s     17.50nm
SIV   153.18  215 PKP    26 07.00    7.3X
LPB   155.97  200 ePKP   26 15.00   11.0X
ZOBO  156.23  201 PKP    26 21.00   16.5X
      S.D. = 1.1  on  45 of  49 obs.
-------------------------------------
?  FEB  07, 1991  04h 28m 08.57± 2.19s
   51.543 N ±27.5km  173.816 E ±26.7km
   DEPTH =  33.0km  (normal)
   4.1mb (  3 obs.)
 NEAR ISLANDS, ALEUTIAN ISLANDS  (  5)

SMY     1.20    8 eP     28 29.00   -0.1
F8A    23.77   41 eP     33 19.00    0.6
YKA    38.43   45 eP     35 27.70   -0.6
       0.6s      0.30nm             3.3mb
NB2    66.91  351 P      38 59.70    0.5
       0.7s      1.70nm             4.3mb
HFS    67.53  349 eP     39 02.60   -0.4
       0.4s      1.10nm             4.3mb
      S.D. = 0.8  on   5 of   5 obs.
-------------------------------------
   FEB  07, 1991  04h 48m 07.14± 0.40s
   45.103 N ± 4.1km    5.578 E ± 3.9km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                            (538)
      ML 2.6 (LDG).

BNI     0.78   93 P      48 23.80    1.4
                  eSg    48 33.80
RRL     0.88  102 P      48 23.56   -0.6
                  S      48 34.33
LPL     0.91   63 Pg     48 25.00    0.2
                  Sg     48 38.40
LPG     0.92   64 Pg     48 24.80   -0.1
                  Sg     48 38.40
RSL     0.94   51 Pg     48 26.36    1.1
                  Sg     48 41.13
LSD     1.17   72 P      48 31.05    1.9
                  S      48 45.33
RSP     1.19   87 P      48 28.99   -0.4
                  S      48 44.07
BHB     1.22  102 P      48 29.20   -0.7
                  S      48 44.79
PZZ     1.24  118 P      48 30.02   -0.2
                  S      48 44.68
CDR     1.43  175 eP     48 33.60    0.4
                  e      48 35.10
                  e      48 49.50
STV     1.51  124 P      48 33.81   -0.6
ENR     1.58  123 P      48 34.84   -0.5
FRF     1.72  153 Pn     48 36.20   -1.1
                  Sg     49 00.20
LRG     1.74  161 Pg     48 38.40    0.8
                  Sg     48 59.20
ORX     1.78   72 P      48 37.51   -0.7
```

07d 04h

SBF	1.82	132	Pg	48	39.60	0.8
			Sg	49	03.20	
ROB	1.82	115	P	48	39.45	0.6
LMR	1.89	159	Pg	48	41.40	1.6
SMF	1.96	322	Pn	48	41.00	0.2
			Pg	48	46.00	
			Sg	49	12.00	
LBF	2.19	330	Pn	48	44.00	-0.1
			Pg	48	50.60	
			Sg	49	18.80	
AVF	2.29	318	Pn	48	46.40	0.8
			Pg	48	53.20	
			Sg	49	22.40	
MAF	2.39	299	Pn	48	46.80	-0.2
BGF	2.40	308	Pn	48	47.60	0.5
			Pg	48	54.20	
			Sg	49	24.80	
SSF	2.43	324	Pn	48	47.20	-0.3
			Pg	48	55.00	
			Sg	49	27.20	
LOR	2.47	332	Pn	48	47.60	-0.5
			Pg	48	55.60	
			Sg	49	28.20	
BSF	2.86	17	Pn	48	52.70	-1.0
			Sg	49	40.80	
RJF	2.88	275	Pg	49	01.80	7.9X
			Sg	49	40.00	
HAU	2.95	10	Pn	48	54.00	-0.9
PGF	3.56	135	Pn	49	01.00	-2.6

S.D. = 1.0 on 28 of 29 obs.

? FEB 07, 1991 04h 49m 22.04± 1.32s
35.600 N ±16.3km 26.668 E ± 9.1km
DEPTH = 10.0km (geophysicist)
CRETE (370)
MD 3.4 (ATH).

NPS	0.93	249	ePn	49	39.80	0.1
			eSn	49	54.10	
ARG	1.33	62	ePn	49	46.60	0.0
APE	1.73	328	ePn	49	52.50	0.1
VAM	2.02	265	ePb	49	59.60	3.0X
VLI	3.22	291	ePn	50	13.40	-0.2

S.D. = 0.3 on 4 of 5 obs.

FEB 07, 1991 04h 56m 42.33± 0.90s
35.606 N ±12.7km 26.621 E ± 5.5km
DEPTH = 9.8 ± 3.8 km
3.9mb (2 obs.)
CRETE (370)
MD 3.9 (ATH).

NPS	0.89	248	ePn	56	58.70	-0.8
			eSn	57	13.50	
ARG	1.37	63	ePn	57	06.50	-0.9
APE	1.70	329	ePn	57	12.00	-0.3
VAM	1.99	265	ePb	57	19.50	3.2X
YER	2.03	41	iPn	57	16.00	-1.1
SMG	2.11	5	ePb	57	24.70	6.7X
CIN	2.31	30	eP	57	22.00	0.9
KSL	2.46	77	ePn	57	24.40	1.3
ELL	2.89	66	ePn	57	30.00	0.6
VLI	3.18	291	ePn	57	32.60	-0.8
KHL	3.57	40	ePn	57	37.70	-1.3
BCK	3.69	59	iPn	57	40.40	-0.4
LPG	18.00	309	eP	00	58.10	3.6X
LPL	18.02	309	eP	00	58.60	4.0X
LBF	20.38	311	eP	01	22.90	1.0
LOR	20.58	311	eP	01	24.70	0.8
	0.7s		3.30nm			3.8mb
SSF	20.71	311	eP	01	25.80	0.6
	0.5s		3.65nm			4.0mb

S.D. = 1.0 on 13 of 17 obs.

& FEB 07, 1991 05h 23m 34.53s
60.708 N 148.837 W
DEPTH = 22.5km
KENAI PENINSULA, ALASKA (14)
<AEIC>.

PMS	0.64	327	iP	23	46.19	-0.9
KNIM	0.65	123	iP	23	46.25	-0.9
			eS	23	55.85	
SEW	0.68	207	eP	23	46.76	-0.8
			eS	23	56.04	
SLKM	0.71	254	iP	23	47.46	-0.7
			eS	23	57.12	
KNK	0.73	15	iP	23	47.52	-1.0
			eS	23	57.84	
GLI	0.87	78	eP	23	49.29	-1.6
			eS	24	01.04	
PLRM	0.90	351	iP	23	49.93	-1.4
MTU	0.93	140	eP	23	51.05	-0.9
GHO	1.07	358	eP	23	52.84	-1.3
PWA	1.07	332	eP	23	52.75	-1.4
			eS	24	07.45	
VZW	1.17	71	iP	23	53.99	-1.6
			eS	24	09.94	
NKA	1.18	273	eP	23	56.06	0.4
SUA	1.20	310	eP	23	54.78	-1.3
			eS	24	11.27	
VLZ	1.30	70	eP	23	55.83	-1.4
			eS	24	12.88	
BRLK	1.39	228	eP	23	57.61	-1.1
			eS	24	15.20	
NNL	1.39	242	iP	23	58.67	0.0
KLU	1.62	60	iP	24	01.23	-0.9
			eS	24	22.07	
SPU	1.64	288	eP	24	01.04	-1.3
			eS	24	22.42	
CNPM	1.69	226	eP	24	01.54	-1.5
			eS	24	23.29	
NCG	1.76	295	eP	24	03.05	-1.1
			eS	24	25.64	
RDT	1.76	267	eP	24	02.54	-1.6
CKL	1.78	288	eP	24	03.17	-1.2
			eS	24	26.14	
BGL	1.82	289	iP	24	03.81	-1.2
SKT	1.82	316	eP	24	03.71	-1.2
CUT	1.84	339	eP	24	04.22	-0.9
			eS	24	27.43	
TOA	1.90	41	eP	24	05.60	-0.5
REF	1.92	265	eP	24	04.88	-1.6
RDN	1.95	266	eP	24	04.60	-2.2
RSO	1.95	264	eP	24	05.34	-1.6
RS2	1.95	264	eP	24	05.42	-1.6
NCT	2.02	268	eP	24	06.33	-1.6
TZL	2.12	49	eP	24	09.46	0.2
SDG	2.41	39	eP	24	13.47	0.1
GLB	2.55	71	eP	24	14.97	-0.5
BALM	3.19	81	eP	24	22.47	-2.1

35 obs. associated

FEB 07, 1991 06h 04m 20.52± 0.11s
66.354 N ± 1.5km 147.958 W ± 2.5km
DEPTH = 10.0km (geophysicist)
5.5mb (82 obs.) 4.8Msz (9 obs.)
ALASKA (676)
Felt (IV) at Beaver, Eielson Air Force Base, Ester, Fairbanks, North Pole and Ramport. Also felt at Chena Hot Springs and Fort Yukon.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 25C
Centroid Location:
Origin Time 06:04:25.3 0.7
Lat 66.28N 0.10 Lon 148.44W 0.27
Dep 15.0 BDY Half-duration 1.5
Moment Tensor; Scale 10**16 Nm
Mrr= 5.25 0.49 Mtt=-5.08 0.61
Mff=-0.18 0.67 Mrt= 0.39 2.36
Mrf= 3.16 2.03 Mtf=-1.22 0.58
Principal Axes:

	Val=	Plg=	Azm=
T	6.71	66	268
N	-1.21	23	70
P	-5.50	7	163

Best Double Couple:Mo=6.1*10**16
NP1:Strike=277 Dip=43 Slip= 125
NP2: 53 56 61

GLM	1.39	170	iP	04	46.01	0.0
MDM	1.41	185	iP	04	46.06	-0.1
FBA	1.46	177	iPd	04	47.50	0.6
CCB	1.72	178	eP	04	50.23	-0.3
NEA	1.84	195	eP	04	51.96	-0.5
WRH	1.89	182	eP	04	52.76	-0.4
HDA	2.00	167	eP	04	53.96	-0.8
BWN	2.28	197	eP	04	58.07	-0.7
IMA	2.34	266	iPc	05	00.30	0.6
MCK	2.66	189	eP	05	04.01	-0.3
DDM	2.73	160	eP	05	04.67	-0.5
RND	2.98	188	eP	05	08.56	-0.3
TRF	3.08	200	eP	05	09.69	-0.5
THY	3.10	161	eP	05	10.20	-0.1
			eS	05	48.41	
DOT	3.18	147	eP	05	10.28	-1.3
HUR	3.47	193	eP	05	15.87	0.3
			S	05	57.50	
PAX	3.56	161	eP	05	15.91	-1.1
TMW	3.71	143	eP	05	17.33	-1.7
SDG	3.98	164	eP	05	22.29	-0.6
TOA	4.34	169	ePc	05	28.80	0.8
TZL	4.47	164	eP	05	29.45	-0.3
GHO	4.62	186	eP	05	31.27	-0.8
SKT	4.66	201	eP	05	31.77	-0.8
PWA	4.80	191	eP	05	33.95	-0.5
PLRM	4.81	187	eP	05	33.98	-0.7
PMR	4.81	187	eP	05	34.40	-0.2
TTA	4.88	229	iPd	05	34.60	-1.1
KLU	4.96	169	eP	05	36.42	-0.5
KNK	4.97	183	eP	05	38.22	1.3
SUA	5.06	195	eP	05	38.53	0.2
PMS	5.18	189	eP	05	40.67	0.8
GLB	5.26	158	eP	05	40.47	-0.6
VLZ	5.29	171	eP	05	41.40	-0.1
NCG	5.30	202	eP	05	41.22	-0.5
VZW	5.35	173	eP	05	42.09	-0.3
BGL	5.47	203	eP	05	44.19	0.0
SPU	5.50	201	eP	05	43.68	-0.8
GLI	5.51	176	eP	05	45.31	0.7
CKL	5.53	203	eP	05	44.15	-0.8
NKA	5.82	196	eP	05	51.29	2.4
BALM	5.89	152	eP	05	48.47	-1.5
BRW	5.90	331	iPc	05	48.50	-1.4
CVA	5.91	169	eP	05	50.34	0.2
INK	5.91	64	iP	05	47.00	-3.1X
	0.7s		731.00nm			6.5mb X
SLKM	5.96	191	eP	05	51.77	0.9
SGAM	6.00	167	eP	05	50.77	-0.7
HIN	6.02	173	eP	05	51.32	-0.4
TGL	6.07	155	eP	05	51.54	-0.9
RDT	6.13	201	eP	05	52.39	-1.0
CTGM	6.16	148	eP	05	52.28	-1.5
RAGM	6.17	165	eP	05	52.73	-1.1
NCT	6.22	203	eP	05	55.06	0.4
RDN	6.24	202	eP	05	54.08	-0.9
REF	6.26	202	eP	05	54.99	-0.3
HMT	6.26	163	eP	05	54.96	-0.3
SVW	6.26	216	ePc	05	53.60	-1.6
RS2	6.29	202	eP	05	55.11	-0.7
RSO	6.29	202	eP	05	55.22	-0.6
SEW	6.31	187	eP	05	56.44	0.6
WAX	6.35	156	eP	05	56.53	0.0
MTU	6.39	179	eP	05	57.16	0.1
NNL	6.51	195	eP	06	00.64	1.9
BRLK	6.75	193	eP	06	02.11	0.1
HOM	6.93	196	eP	06	06.22	1.8
CNPM	7.01	194	eP	06	05.42	-0.3
OPT	7.14	202	eP	06	08.13	0.7
MCNL	7.76	205	eP	06	15.65	-0.5
CDD	7.89	202	eP	06	17.27	-0.8
SYI	8.04	197	eP	06	19.91	-0.1
SDN	12.59	215	eP	07	25.20	3.0X
MBC	13.29	30	eP	07	27.00	-4.5X
	0.9s		67.00nm			5.7mb
YKA	14.79	89	eP	07	47.00	-4.2X
	0.8s		13.40nm			4.5mb
ADK	20.40	239	eP	09	00.60	0.8
	0.9s		216.67nm			5.5mb
EDM	21.45	111	iPc	09	10.70	0.1
	1.3s		607.00nm			5.8mb
PGC	21.83	132	eP	09	15.00	0.6
	1.2s		321.00nm			5.6mb
PNT	22.45	126	ePc	09	22.00	1.4
	1.2s		256.00nm			5.6mb
GMW	23.02	133	eP	09	28.00	1.8
SMY	23.10	252	e(P)	09	30.00	3.1X
Z	18s		1.90um			4.6Msz
RMW	23.39	131	eP	09	32.00	2.1
LON	24.03	132	eP	09	37.50	1.4
NEW	24.19	123	eP	09	40.40	2.8X
	1.4s		51.63nm			4.9mb
SES	24.57	112	eP	09	44.00	2.7X
	1.2s		120.00nm			5.4mb
FFC	24.78	96	eP	09	43.00	-0.2
	1.1s		26.00nm			4.8mb
LRM	27.91	120	eP	10	12 80	0.3
FHC	28.91	140	eP	10	24.50	3.2X
	1.0s		60.00nm			5.3mb

07d 06h

LBFM	28.95	137	eP	10	22.50	0.5	NUR	53.33	5	iP	13	41.10	-0.1		0.7s	11.00nm	5.2mb
WDC	29.49	138	ePc	10	27.30	0.7		1.2s	109.80nm			5.7mb		LOR	64.67	21	eP	14	59.10	-1.1
MIN	29.97	137	ePc	10	31.00	0.0	DL2	55.25	288	eP	13	56.50	0.9		0.9s	38.50nm	5.6mb
ORV	30.73	138	eP	10	37.80	0.2		1.0s	170.00nm			6.0mb			Z 21s	0.50um	4.7Msz
BW06	31.58	119	eP	10	45.00	-0.3		Z 15s	0.70um			4.9MszX		MFF	64.70	24	eP	14	59.50	-0.9
	1.0s	83.33nm			5.6mb			E 12s	0.27um						1.1s	80.60nm	5.8mb
		e		11	06.00		EKA	55.76	23	Pd	14	00.00	0.9	SSF	64.82	21	eP	15	00.20	-0.9
		e		11	33.00			0.9s	35.60nm			5.4mb			1.1s	73.25nm	5.8mb
BRK	32.11	140	eP	10	52.30	2.7X	BJI	56.31	293	eP	14	03.00	-0.3	AVF	65.06	21	eP	15	01.50	-1.2
BKS	32.11	140	eP	10	49.40	-0.3		1.3s	31.00nm			5.2mb			1.1s	45.20nm	5.6mb
	0.9s	56.00nm			5.5mb			Z 17s	1.17um			5.0MszX		ZST	65.21	11	eP	15	03.60	0.0
		e		24	40.00			N 12s	0.64um					BGF	65.21	22	eP	15	02.40	-1.3
KVN	32.16	133	eP	10	50.50	0.1			eS		21	50.00			1.0s	46.00nm	5.6mb
RSSD	32.43	111	ePd	10	52.00	-0.7	HHC	57.28	298	eP	14	09.60	-0.8	SMF	65.27	21	eP	15	02.80	-1.3
	1.2s	40.09nm			5.2mb			Z 17s	5.90um			5.8MszX			1.0s	43.00nm	5.6mb
		e		13	40.00			N 11s	0.40um					LSF	65.31	23	eP	15	03.20	-1.1
DUG	32.77	125	eP	10	56.00	0.5		E 13s	1.10um					TCF	65.38	22	eP	15	03.60	-1.2
MHC	32.77	139	eP	10	56.50	0.9	BTO	58.05	299	eP	14	15.00	-0.7		1.3s	66.80nm	5.7mb
ARN	32.79	139	eP	10	56.00	0.3	TIA	59.32	290	eP	14	24.00	-0.5	WHN	65.41	290	Pd	15	05.30	0.2
DAU	33.09	123	eP	10	59.00	0.4	TIY	59.74	295	iPd	14	27.00	-0.5				pP	15	15.30	32kmX
BONR	33.12	134	eP	10	59.00	0.2		Z 18s	2.10um			5.3Msz		MAF	65.50	22	eP	15	04.30	-1.2
TNP	33.32	133	eP	11	00.30	-0.1		N 15s	2.50um						1.3s	37.90nm	5.4mb
	1.0s	92.50nm			5.7mb			E 15s	2.10um					SQTA	65.64	15	iPc	15	04.10	-2.4
FRI	33.62	137	eP	11	03.30	0.5			eS		22	41.50			1.4s	42.00nm	5.4mb
LLA	33.64	139	eP	11	04.00	1.0	WTS	60.43	18	eP	14	33.00	1.2			i		15	06.70	
PRS	33.80	139	eP	11	05.30	1.0		0.9s	16.00nm			5.1mb				i		15	17.50	
PRI	34.16	139	eP	11	08.80	1.2	ENN	61.52	19	eP	14	40.50	1.2	PSZ	65.68	9	e(P)	15	08.00	1.3
MSU	34.50	126	eP	11	11.00	0.3		1.0s	36.00nm			5.5mb		SRO	65.68	10	iP	15	06.80	0.2
ISA	35.21	136	eP	11	17.00	0.4	SNF	61.55	20	P	14	40.40	0.9	KBA	65.99	14	iPc	15	0B.60	-0.3
CLC	35.32	135	eP	11	18.00	0.5	MEM	61.68	19	P	14	41.00	0.6		0.9s	52.30nm	5.7mb
		e		13	47.00		CLL	61.77	13	iPd	14	40.20	-0.8			i		15	11.00	
GOL	35.78	117	eP	11	21.50	-0.1		1.1s	22.00nm			5.2mb				i		15	35.50	
	1.2s	49.18nm			5.3mb		DOU	62.00	20	Pc	14	43.00	0.4			i		16	28.60	
SYP	35.87	139	eP	11	25.00	2.8X	WMO	62.18	317	iPc	14	44.00	0.0	RJF	66.23	23	eP	15	0B.80	-1.4
SBB	36.31	136	eP	11	26.00	0.1		1.0s	30.00nm			5.4mb			Z 21s	0.57um	4.8Msz
MWC	36.68	136	eP	11	32.00	2.9X		Z 20s	0.90um			4.9Msz		LFF	66.46	24	eP	15	10.80	-0.9
PAS	36.72	136	eP	11	31.00	1.8			SKS		24	36.00			1.0s	92.00nm	5.9mb
RVR	37.09	135	eP	11	32.00	-0.3	SSE	62.28	284	Pd	14	45.00	0.3	RSL	66.60	19	P	15	12.91	0.2
PEC	37.24	135	eP	11	34.00	0.3		1.2s	27.00nm			5.3mb		CAF	66.68	23	eP	15	12.10	-1.1
TPC	37.36	134	eP	11	35.00	0.3		Z 14s	0.90um			5.1MszX			1.1s	48.85nm	5.6mb
PLM	37.83	135	eP	11	41.00	2.2		N 11s	0.50um					LPL	66.78	19	eP	15	13.70	-0.3
BAR	38.52	135	eP	11	46.00	1.6		E 12s	0.40um						0.9s	14.75nm	5.2mb
SCH	38.55	67	eP	11	49.00	4.5X			epP		14	55.00	33kmX	LPO	66.78	23	eP	15	12.90	-0.8
GLA	38.70	133	eP	11	48.00	2.0	BRG	62.29	13	iP	14	44.00	-0.5		1.1s	102.55nm	5.9mb
ANMO	39.65	121	eP	11	55.00	1.0		1.0s	28.00nm			5.4mb		LPG	66.80	19	eP	15	13.90	-0.3
	1.0s	30.00nm			4.9mb		NJ2	62.34	287	Pc	14	45.00	0.0		1.3s	46.95nm	5.5mb
GAC	42.45	82	eP	12	17.00	0.4		0.8s	100.00nm			6.1mb		PTJ	67.40	12	eP	15	17.40	-0.3
	1.1s	19.00nm			4.7mb			Z 14s	0.50um			4.8MszX		VRI	6B.04	4	ePc	15	22.00	0.4
MEO	42.62	113	eP	12	17.50	-0.7			pP		14	55.00	33kmX	EPF	6B.25	25	eP	15	21.50	-1.6
TUL	42.68	109	iPc	12	17.10	-1.5	KSP	62.52	11	ePc	14	45.00	-1.0		1.1s	26.85nm	5.3mb
	1.0s	228.00nm			5.9mb		FLN	62.55	24	eP	14	44.70	-1.5	MLR	68.39	5	eP	15	26.00	2.0
	Z 17s	3.36um			5.3MszX			1.1s	63.50nm			5.7mb		MLS	68.45	24	P	15	23.85	-0.4
		LR		29	13.80			Z 21s	0.68um			4.8Msz		SBF	68.50	19	eP	15	23.80	-0.8
FVM	42.95	102	eP	12	19.80	-1.1	GTA	62.59	306	Pc	14	46.40	-0.4		0.7s	36.40nm	5.7mb
ELC	44.03	101	eP	12	28.50	-1.1		1.0s	50.00nm			5.7mb		FRF	68.69	20	eP	15	25.10	-0.6
KEV	44.11	3	iP	12	30.20	0.4		Z 16s	2.00um			5.4MszX			1.0s	28.00nm	5.4mb
	1.1s	64.80nm			5.4mb			N 12s	1.00um					LRG	68.75	20	eP	15	25.70	-0.4
UYO	44.73	109	iPd	12	34.20	-1.0			sP		14	57.00			0.7s	14.35nm	5.3mb
SOD	46.50	3	iP	12	49.80	0.9			PcP		15	20.60			Z 20s	0.35um	4.6Msz
RSCP	46.95	99	eP	12	51.50	-1.4			S		23	18.00		LMR	68.89	20	eP	15	26.30	-0.6
BLA	47.62	93	ePc	12	58.40	0.2	LDF	62.77	23	eP	14	46.20	-1.5		1.1s	34.20nm	5.5mb
	1.6s	100.00nm			5.7mb			1.1s	58.60nm			5.7mb		CD2	68.96	299	P	15	27.40	-0.2
CVL	47.75	90	eP	12	58.80	-0.3	GRR	62.85	24	eP	14	47.00	-1.2		0.8s	60.00nm	5.8mb
CBN	47.99	89	eP	13	01.00	0.0		0.9s	52.40nm			5.7mb			Z 16s	2.90um	5.6MszX
PRM	49.55	97	eP	13	12.50	-0.6	LPF	63.16	24	eP	14	49.40	-0.9	FIR	69.04	16	eP	15	28.00	0.2
CN2	49.57	288	Pd	13	13.00	-0.1		1.0s	64.00nm			5.8mb		GUD	69.76	29	eP	15	34.00	1.6
	1.0s	30.00nm			5.2mb		GRF	63.19	15	eP	14	50.20	-0.3	EPLA	69.93	30	eP	15	34.60	1.2
	Z 15s	1.70um			5.2MszX			1.1s	20.00nm			5.2mb		ETOR	69.98	27	eP	15	35.00	1.3
	N 12s	0.60um					KRA	63.55	9	ePd	14	53.40	0.6	PGF	69.99	18	eP	15	32.60	-1.2
	E 12s	0.40um						1.0s	25.00nm			5.4mb			0.8s	25.50nm	5.4mb
		epP		13	22.00	30kmX	KHC	63.98	13	Pd	14	56.00	0.3	TOL	70.51	29	iPc	15	38.00	1.1
JSC	49.83	96	eP	13	14.10	-1.1		1.2s	10.50nm			4.9mb		ECHE	71.37	26	eP	15	43.80	1.7
MAT	50.74	273	eP	13	22.00	-0.1	CDF	64.00	18	eP	14	55.00	-0.9	SKO	71.70	8	eP	15	44.00	0.0
KAF	51.77	3	iP	13	30.40	0.8		0.7s	11.00nm			5.2mb		GYA	71.96	295	iPc	15	46.00	0.0
	0.6s	5.60nm			4.7mb		LZH	64.24	301	iPc	14	57.80	0.0				pP	15	55.00	29kmX
SNY	51.97	288	iPd	13	31.60	0.2		1.0s	88.00nm			5.9mb		EVIA	72.01	28	eP	15	46.80	0.7
	1.1s	10.00nm			4.7mb			Z 18s	3.45um			5.6Msz		EBAN	72.23	29	eP	15	49.20	2.0
	Z 14s	1.70um			5.2MszX			N 15s	1.78um					VAY	72.41	7	eP	15	49.30	1.1
	N 12s	0.90um							pP		15	02.80	16kmX	NEV	72.60	87	eP	15	49.27	-0.4
	E 11s	1.10um							sP		15	09.00		BPA	72.97	87	eP	15	49.32	-2.5
		S		20	56.00				ePP		17	25.00		ECOG	73.13	29	eP	15	54.60	2.0
NB2	51.99	13	P	13	30.40	-0.9			eS		23	41.00		AFC	73.15	29	eP	15	54.20	1.3
	1.2s	20.50nm			4.9mb		HAU	64.28	19	eP	14	56.70	-1.0	EJIF	73.54	31	eP	15	57.00	2.1
HFS	53.09	11	eP	13	38.60	-0.9		0.8s	9.40nm			5.0mb		BBTK	74.14	359	iPd	15	58.50	0.1
	0.8s	21.50nm			5.1mb			Z 21s	0.45um			4.6Msz		LSA	74.28	309	Pd	16	00.60	0.7
	Z 17s	0.46um			4.6MszX		XAN	64.29	296	P	14	56.50	-1.4	KMI	74.60	297	Pc	16	00.00	-1.5
		LR		36	38.00		BSF	64.51	19	eP	14	58.10	-1.2				pP	16	07.50	24kmX

07d 06h

MAIO	75.51	337	eP	16	08.00	1.6
	0.8s	9.15nm			4.9mb	
IFR	76.45	31	iP	16	12.50	0.7
			i	16	23.00	
SVV	76.60	88	eP	16	10.50	-2.2
SVB	76.63	88	eP	16	10.88	-2.0
OIZ	77.53	289	eP	16	19.00	1.2
GUN	77.56	313	P	16	18.98	0.7
	1.0s	184.00nm			6.1mb	
GKN	77.84	314	P	16	20.14	0.6
	0.9s	205.00nm			6.2mb	
KKN	77.85	313	P	16	20.42	0.7
	0.8s	92.00nm			5.9mb	
PKI	78.02	313	P	16	21.16	0.4
	1.0s	73.00nm			5.7mb	
DMN	78.07	314	P	16	21.84	0.9
TIO	78.48	34	iP	16	23.60	0.6
NDI	79.22	321	eP	16	27.00	0.1
OUE	80.13	330	eP	16	33.00	1.0
TPT	81.10	180	iP	16	37.90	1.1
	1.0s	10.00nm			4.8mb	
PMO	81.12	180	iP	16	38.20	1.3
	1.0s	10.00nm			4.8mb	
RUV	81.30	179	iP	16	39.00	1.1
	1.0s	20.00nm			5.1mb	
VAH	81.35	180	iP	16	39.40	1.2
	1.0s	15.00nm			5.0mb	
MML	81.49	357	eP	16	39.00	0.1
CHG	81.75	298	eP	16	40.40	-0.1
	1.0s	10.75nm			4.9mb	
JVI	82.00	357	eP	16	43.00	1.4
PRNI	83.59	357	eP	16	51.00	1.2
HYB	89.59	316	eP	17	18.80	-0.6
POO	89.78	321	iPc	17	22.60	2.3
	1.1s	65.82nm			5.8mb	
NNA	93.50	112	eP	17	40.00	2.7
	1.0s	16.00nm			5.4mb	
GBA	93.53	316	P	17	37.90	0.4
KMZ	126.99	8	iPKP	23	26.00	-0.1
PTZ	127.94	1	iPKP	23	27.00	-0.9
LSZ	128.90	5	iPKP	23	31.00	1.3
SLR	139.30	5	iPKPc	23	49.00	-0.1
	S.D. = 1.0	on 241 of 253 obs.				

? FEB 07, 1991 06h 07m 49.99± 1.31s
4.624 S ±15.2km 134.887 E ±20.6km
DEPTH = 33.0km (normal)
4.9mb (2 obs.)
WEST IRIAN REGION (196)

KNA	12.59	208	eP	10	49.80	0.2
WB2	15.24	182	eP	11	23.00	-1.5
			eS	14	09.00	
QIS	16.49	164	eP	11	39.00	-1.5
			eS	14	45.00	
CTA	18.94	145	iPc	12	12.00	1.0
	0.8s	23.88nm			4.5mb	
ASPA	18.96	183	iPc	12	12.90	1.7
	0.7s	132.70nm			5.3mb	
			eS	15	44.60	
OLP	23.59	159	eP	13	00.00	1.2
BRS	28.35	145	iP	13	42.50	-0.7
CNCB	148.95	134	PKP	27	34.00	0.3
LPB	149.04	133	PKP	27	34.00	0.4
	Z 18s	0.69um			5.5Msz	
			LR	01	30.00	
ZOBO	149.19	133	ePKP	27	33.00	-1.1
	1.1s	5.80nm				
	S.D. = 1.3	on 10 of 10 obs.				

FEB 07, 1991 06h 17m 35.33± 0.85s
66.343 N ± 6.6km 148.015 W ± 8.5km
DEPTH = 10.0km (geophysicist)
ALASKA (676)

GLM	1.39	169	eP	18	01.16	0.4
			eS	18	19.56	
MDM	1.39	184	eP	18	01.26	0.4
FBA	1.45	176	iP	18	02.30	0.7
CCB	1.71	177	eP	18	05.44	0.2
			eS	18	27.98	
NEA	1.83	195	eP	18	07.04	0.0
			eS	18	31.84	
WRH	1.88	181	eP	18	08.31	0.5
HDA	2.00	167	eP	18	09.50	0.0
BWN	2.26	196	eP	18	13.21	-0.2
IMA	2.31	266	iPc	18	15.30	1.1
MCK	2.65	189	eP	18	17.41	-1.5
RND	2.97	187	eP	18	23.85	0.4
TRF	3.06	199	eP	18	24.01	-0.8
DOT	3.18	146	eP	18	25.92	-0.5
TOA	4.33	168	iPd	18	45.10	2.3X
PMR	4.80	186	eP	18	49.50	0.2
TTA	4.85	229	eP	18	49.00	-1.2
KLU	4.96	168	eP	18	53.10	1.5X
BRW	5.90	332	iPd	19	04.40	-0.3
SVW	6.24	216	iPd	19	10.00	0.3
	S.D. = 0.7	on 17 of 19 obs.				

FEB 07, 1991 06h 21m 31.90± 0.70s
43.409 N ± 4.6km 5.434 E ± 5.3km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
MD 2.8 (STR).

GELF	0.03	191	Pg	21	33.64	-0.3
BERF	0.21	117	Pg	21	36.79	0.3
TREF	0.22	350	Pg	21	36.29	-0.3
PUYF	0.23	57	Pg	21	36.22	-0.6
CDR	0.36	42	iPg	21	38.40	-0.9
			e(Sg)	21	42.70	
PRAF	0.44	334	Pg	21	41.32	0.4
VILF	0.49	25	Pg	21	40.83	-1.0
TAVF	0.50	65	Pg	21	41.87	-0.2
CALN	1.11	72	Pg	21	53.48	0.6
MVIF	1.34	68	Pn	21	57.08	0.4
			Sg	22	16.34	
REVF	1.44	76	Pn	21	58.25	0.1
			Sg	22	19.34	
TOUF	1.45	65	Pn	21	58.66	0.3
AURF	1.46	70	Pn	21	58.49	0.2
			Sg	22	19.12	
FOUF	1.48	41	e(Pg)c	22	00.44	1.9
			e(Sg)	22	18.80	
SBF	1.52	72	Pn	21	59.44	0.2
AUTN	1.56	67	Pn	21	59.94	0.0
			Sg	22	22.67	
SAOF	1.64	69	Pn	22	01.09	0.1
DOI	1.71	49	P	22	05.70	3.8X
			eSn	22	27.80	
CKI	2.29	63	P	22	13.20	2.8X
PGF	2.75	107	Pn	22	15.82	-1.2
	S.D. = 0.7	on 18 of 20 obs.				

* FEB 07, 1991 06h 59m 44.20± 0.95s
66.311 N ± 8.2km 147.808 W ± 9.1km
DEPTH = 10.0km (geophysicist)
ALASKA (676)

GLM	1.34	172	eP	00	08.70	-0.2
			S	00	27.03	
MDM	1.37	188	eP	00	08.78	-0.6
			S	00	27.23	
FBA	1.42	180	eP	00	10.32	0.3
			eS	00	29.00	
CCB	1.67	180	eP	00	14.42	0.8
NEA	1.82	198	eP	00	14.91	-0.9
WRH	1.85	184	eP	00	16.74	0.5
HDA	1.95	169	eP	00	18.62	1.0
BWN	2.26	199	eP	00	20.96	-1.2
IMA	2.39	267	eP	00	24.74	0.5
INK	5.88	64	eP	01	13.00	-0.3
	S.D. = 0.8	on 10 of 10 obs.				

FEB 07, 1991 07h 12m 48.12± 0.83s
47.590 N ± 8.9km 15.503 E ± 8.5km
DEPTH = 10.0km (geophysicist)
AUSTRIA (546)
ML 3.0 (VIE). Felt (V) at
Veitsch-Pretol.

VKA	0.87	39	iPgc	13	04.10	-0.8
			iSg	13	17.60	
ZST	1.24	60	iPn	13	11.90	0.8
	0.4s	2.00nm				
			iSn	13	30.00	
			LR	13	34.00	
KBA	1.55	252	iPgd	13	15.50	-0.5
			i	13	22.30	
			iSg	13	35.40	
LJU	1.68	204	e(Pg)	13	16.00	-1.7
			e(Sg)	13	40.20	
BHG	1.78	275	ePg	13	19.50	0.4
SRO	1.91	82	eP	13	53.00	32.0X
VOY	1.91	216	ePn	13	23.00	1.9
			eSg	13	48.10	
KHC	2.01	321	Pn	13	22.00	-0.5
			Pg	13	23.90	
			Sg	13	49.60	
VBY	2.09	185	eP	13	40.50	16.8X
			e(Sn)	13	58.00	
WET	2.34	313	ePn	13	27.70	0.4
PRU	2.48	346	ePg	13	33.80	4.6X
	0.6s	22.00nm				
			e	13	57.00	
			Sg	14	02.50	
			e	14	05.50	
SQTA	2.94	264	iPgc	13	39.90	4.1X
			iSg	14	19.10	
	S.D. = 1.3	on 8 of 12 obs.				

? FEB 07, 1991 09h 06m 33.01± 1.24s
56.777 S ±32.7km 27.114 W ±13.1km
DEPTH = 110.0km (geophysicist)
5.1mb (2 obs.)
SOUTH SANDWICH ISLANDS REGION (153)

BMA	36.26	333	(P)	13	27.00	-0.1
BAO	44.02	330	ePd	14	21.00	-10.1X
SOB1	48.66	342	eP	15	08.40	0.9
CNCB	50.31	305	P	15	21.30	0.6
LPB	50.60	306	iPc	15	21.20	-1.6
	1.0s	100.00nm			5.7mb	
ZOBO	50.85	306	iP	15	24.70	-0.2
	0.4s	50.55nm			5.8mb X	
ARE	52.22	302	eP	15	35.00	0.1
LSZ	58.60	68	iPc	16	20.00	-0.6
KMZ	58.95	65	eP	16	23.00	0.0
BCAO	71.36	49	iPc	17	42.60	0.0
	0.7s	6.00nm			4.5mb	
YKA	136.74	317	ePKP	25	29.30	-13.1X
	0.9s	0.40nm				
MBC	144.66	336	ePKPd	25	55.50	-0.7
	1.0s	7.00nm				
INK	146.39	320	ePKPd	26	01.00	1.7
TOA	149.60	306	ePKP	26	11.00	6.4X
PMR	150.78	304	ePKP	26	13.20	6.9X
	0.9s	8.90nm				
FBA	151.03	311	ePKPd	26	13.00	6.4X
	0.7s	5.20nm				
IMA	153.64	312	ePKP	26	19.90	9.4X
TTA	154.22	305	ePKP	26	21.40	10.1X
	S.D. = 1.0	on 11 of 18 obs.				

? FEB 07, 1991 09h 17m 52.73±15.80s
15.904 N ±21.8km 60.348 W ±128.km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)
ML 2.1 (FDF).

DEG	0.80	301	eP	18	07.70	0.1
			S	18	14.60	
SFG	0.89	293	eP	18	08.60	-0.2
BBL	1.15	251	eP	18	12.60	0.0
			S	18	22.50	
SEG	1.22	294	eP	18	13.44	-0.1
			S	18	23.70	
DOG	1.23	276	eP	18	13.70	0.0
PAG	1.29	276	eP	18	14.70	0.1
			S	18	25.60	
	S.D. = 0.2	on 6 of 6 obs.				

% FEB 07, 1991 09h 50m 47.05± 1.37s
40.864 N ±10.3km 27.856 E ± 9.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.0 (ISK).

BNT	0.51	174	iPg	50	57.30	-0.1
EDC	0.52	179	iPg	50	57.00	-0.5
			iSg	51	04.80	
ISK	0.93	77	ePn	51	04.20	-0.6
YLV	1.19	104	ePn	51	09.60	0.3
HRT	1.38	91	ePn	51	12.60	0.3
DST	1.39	155	ePn	51	13.00	0.5
EZN	1.56	229	ePn	51	15.00	0.1
	S.D. = 0.5	on 7 of 7 obs.				

* FEB 07, 1991 11h 33m 00.93± 0.78s
11.432 N ±20.4km 86.121 W ±15.8km
DEPTH = 33.0km (normal)

4.3mb (2 obs.)
NEAR COAST OF NICARAGUA (74)

DVD	4.68	129	ePc	34 10.20	-1.0
UPA	6.93	110	eP	34 43.60	0.8
PPM	14.25	304	(P)	36 23.50	0.5
III	14.62	300	(P)	36 27.00	-0.6
MEO	25.87	336	e(P)	38 32.00	0.6
TUL	25.90	342	eP	38 31.90	0.3
	0.8s	10.60nm		4.5mb	
PNT	46.85	330	eP	41 30.00	0.4
YKA	54.93	344	eP	42 28.80	-1.9
	1.1s	1.80nm		4.0mb	
INK	64.56	342	eP	43 43.00	6.2X
WRA	140.22	253	PKP	52 30.00	1.0
	0.9s	1.40nm			
CHG	149.53	351	ePKP	52 48.90	4.2X
GBA	150.26	34	PKP	52 50.90	5.1X

S.D. = 1.1 on 9 of 12 obs.

? FEB 07, 1991 11h 56m 19.11± 1.85s
43.025 N ±19.5km 0.703 W ±10.1km
DEPTH = 10.0km (geophysicist)
PYRENEES (378)
MD 1.0 (STR).

ATE	0.06	0	Pg	56 21.94	0.5
			Sg	56 23.21	
ISSF	0.07	272	Pg	56 21.68	0.1
			Sg	56 23.95	
ESCF	0.11	60	Pg	56 21.63	-0.3
MADF	0.15	325	Pg	56 22.22	-0.3
			Sg	56 23.80	

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

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* FEB 07, 1991 11h 56m 22.92± 1.23s
41.267 N ±13.9km 20.229 E ± 8.2km
DEPTH = 10.0km (geophysicist)
ALBANIA (391)
ML 3.0 (TTG).

OHR	0.46	110	iPgc	56 31.60	-0.6
			iSg	56 39.10	
ULC	1.01	314	iPgd	56 40.50	-1.6
			iSg	56 57.57	
SKO	1.15	52	iPg	56 43.80	-0.6
			iSg	56 57.50	
			Lg	56 58.20	
PVY	1.34	352	iPgd	56 46.79	-0.9
			iSg	57 06.99	
TTG	1.37	328	iPgc	56 47.07	-0.9
			iSg	57 08.57	
BDV	1.46	315	iPgc	56 49.34	0.0
			iSg	57 11.84	
IVA	1.62	351	iPnc	56 53.21	1.5
			iSn	57 15.41	
HCY	1.75	313	iPnd	56 54.36	0.9
			iSn	57 20.49	
VAY	1.76	87	ePn	56 54.60	0.9
NKY	1.80	330	iPnd	56 55.02	0.8
			iSn	57 20.92	
BRY	2.06	323	iPnd	56 58.59	0.5
			iSn	57 27.84	

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

% FEB 07, 1991 12h 15m 53.21± 1.25s
43.110 N ±17.8km 0.620 W ± 6.4km
DEPTH = 10.0km (geophysicist)
PYRENEES (378)
MD 1.0 (STR).

ESCF	0.05	133	Pg	15 54.54	-0.8
ATE	0.07	249	Pg	15 54.85	-0.7
			Sg	15 56.06	
MADF	0.15	284	Pg	15 56.47	-0.3
			Sg	15 59.46	
ISSF	0.15	237	Pg	15 56.67	-0.2
			Sg	15 59.59	
JAU	0.20	111	Pg	15 57.51	-0.1

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

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* FEB 07, 1991 12h 23m 32.19± 1.40s
12.277 N ±10.1km 144.462 E ±13.6km
DEPTH = 48.4 ± 13.2 km
4.4mb (3 obs.)
SOUTH OF MARIANA ISLANDS (210)

GUA	1.33	19	ePd	23 54.80	0.1
			eS	24 11.20	
PJG	1.36	17	eP	23 55.00	-0.1
WB2	33.53	197	eP	30 09.00	-0.6
ASPA	37.19	196	eP	30 41.20	0.5
	0.7s	4.90nm		4.5mb	
LZH	43.54	310	eP	31 34.00	0.8
	2.0s	29.00nm		4.7mb	
IPM	43.59	264	ePd	31 38.40	4.7X
GUN	56.68	295	P	33 14.58	0.7
PKI	57.08	295	P	33 15.52	-1.1
DMN	57.35	295	P	33 17.76	-0.7
GKN	57.79	295	P	33 21.82	0.4
YKA	84.20	27	eP	35 59.00	-0.5
	0.5s	0.50nm		3.8mb	
KIC	144.22	300	PKP	43 05.20	-0.3
TIC	144.31	300	PKP	43 05.50	-0.1
LIC	144.53	300	PKP	43 06.30	0.3
ZOBO	148.19	101	ePKP	43 17.00	4.4X
LPB	148.20	102	(PKP)	43 13.00	0.6

S.D. = 0.7 on 14 of 16 obs.

FEB 07, 1991 12h 24m 00.99± 1.05s
42.666 N ±10.5km 23.609 E ± 5.8km
DEPTH = 10.0km (geophysicist)
BULGARIA (359)

VTS	0.31	256	iPgc	24 07.00	-0.4
			iSg	24 11.00	
PGB	0.43	106	Pg	24 10.00	0.3
			eSg	24 17.00	
PLD	0.99	124	iPgc	24 19.00	-0.7
			Sg	24 32.00	
MMB	1.08	175	ePd	24 21.00	-0.3
			eS	24 39.00	
RZN	1.28	140	iPd	24 24.00	-0.8
			(Pg)	24 27.00	
			Sg	24 45.00	
PVL	1.38	66	iPc	24 26.00	-0.2
VAY	1.55	210	ePn	24 29.50	0.8
KDZ	1.68	126	iP	24 32.00	1.4
			iS	24 56.00	

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

% FEB 07, 1991 13h 19m 45.74± 0.99s
39.405 N ± 8.8km 27.793 E ± 7.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

DST	0.68	73	iPg	19 59.00	-0.2
			eSg	20 10.10	
EDC	0.94	3	ePn	20 04.00	0.3
BNT	0.95	6	ePn	20 03.20	-0.7
EZN	1.21	291	ePn	20 08.30	0.1
YLV	1.68	46	ePn	20 16.00	0.6
KHL	1.73	128	ePn	20 16.00	-0.1

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

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* FEB 07, 1991 13h 36m 32.15± 0.95s
54.092 N ±18.8km 163.769 W ±12.2km
DEPTH = 33.0km (normal)
4.8mb (14 obs.)
UNIMAK ISLAND REGION (10)

TTA	9.74	21	eP	38 53.90	0.9
PMR	10.81	40	eP	39 08.50	1.0
KLU	12.04	45	eP	39 22.00	-2.2
TOA	12.25	42	eP	39 25.30	-1.8
IMA	13.00	19	eP	39 39.00	1.9
FBA	13.48	30	eP	39 43.00	-0.3
INK	20.06	33	eP	41 02.00	-2.9
YKA	26.55	52	eP	42 08.40	0.1
	0.5s	2.30nm		4.0mb	
MBC	27.71	21	eP	42 19.00	0.3
MAT	43.09	270	(P)	44 30.00	-0.5
FRB	45.58	38	eP	44 51.00	0.9
CN2	45.75	287	P	44 50.80	-1.0
DAG	47.53	10	eP	45 05.60	0.2
	0.8s	14.93nm		5.1mb	
TIY	57.13	290	eP	46 17.30	-0.4
XAN	61.76	290	P	46 48.50	-1.1
GTA	62.62	300	iPd	46 54.00	-1.4
	0.6s	4.00nm		4.7mb	
NB2	65.15	3	P	47 10.60	-0.9
	0.7s	5.30nm		4.7mb	
HFS	66.11	1	eP	47 16.20	-1.3
	0.5s	17.20nm		5.4mb	
CD2	66.97	291	P	47 23.40	-0.2
GYA	68.77	286	P	47 34.80	-0.2
LDF	76.76	11	eP	48 22.20	0.8
GRR	76.88	12	eP	48 22.40	0.3
LPF	77.21	12	eP	48 24.30	0.4
CDF	77.59	6	eP	48 26.40	0.2
HAU	77.94	7	eP	48 28.40	0.4
BSF	78.14	6	eP	48 29.60	0.4
LOR	78.47	9	eP	48 31.40	0.5
	0.7s	5.50nm		4.7mb	
SSF	78.65	9	eP	48 32.40	0.5
	0.6s	6.75nm		4.8mb	
MFF	78.72	11	eP	48 33.00	0.7
	0.7s	5.50nm		4.7mb	
GUN	78.76	302	P	48 33.78	0.5
	0.5s	43.00nm		5.7mb	
LBF	78.76	9	eP	48 32.70	0.1
	0.7s	7.70nm		4.8mb	
AVF	78.90	9	eP	48 33.50	0.3
	0.5s	4.75nm		4.7mb	
SMF	79.09	9	eP	48 34.50	0.2
	0.8s	10.75nm		4.9mb	
CHG	79.15	287	eP	48 35.10	0.1
KKN	79.16	303	P	48 35.56	0.3
PKI	79.27	302	P	48 36.20	0.2
TCF	79.29	10	eP	48 35.70	0.3
	0.8s	5.35nm		4.6mb	
GKN	79.30	303	P	48 36.24	0.3
MAF	79.39	10	eP	48 36.40	0.5
DMN	79.39	303	P	48 37.04	0.5
	0.6s	36.00nm		5.5mb	
GBA	94.99	301	P	49 52.00	-0.6
BUL	144.81	340	iPKPd	56 09.30	2.1

S.D. = 1.0 on 42 of 42 obs.

% FEB 07, 1991 13h 38m 56.18± 1.61s
43.237 N ±12.4km 19.026 E ± 9.7km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.8 (TTG).

PLE	0.28	71	iPgd	39 02.38	0.2
			iSg	39 06.46	
NKY	0.42	183	iPgc	39 05.30	0.4
			iSg	39 12.11	
BRY	0.49	227	iPgc	39 05.96	-0.1
			iSg	39 14.18	
IVA	0.74	119	iPgd	39 10.40	-0.3
TTG	0.82	168	iPgd	39 11.95	-0.2
			iSg	39 24.66	

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

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* FEB 07, 1991 16h 16m 55.74± 1.65s
39.491 N ±20.2km 119.127 W ± 8.8km
DEPTH = 5.0km (geophysicist)
NEVADA (37)
MD 2.9 (GM).

KVN	0.91	119	iPc	17 13.30	-0.5
BONR	1.66	157	eP	17 25.80	-0.2
CMB	1.76	214	eP	17 27.00	-0.1
ORV	1.84	273	eP	17 28.20	0.0
TNP	2.05	133	eP	17 32.20	0.7

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

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* FEB 07, 1991 16h 26m 33.57± 1.91s
28.078 N ±12.2km 128.498 E ± 8.8km
DEPTH = 126.0 ± 18.3 km
4.4mb (7 obs.)
RYUKYU ISLANDS (238)

SSE	7.04	297	eP	28 15.00	-0.4
NJ2	9.25	298	Pc	28 44.60	-0.5
MAT	11.77	42	(P)	29 18.00	-0.5
BJI	15.68	323	eP	30 09.50	0.8
	1.1s	21.00nm		4.3mb	
CN2	15.88	352	P	30 13.80	2.7X
MDJ	16.53	3	eP	30 20.50	1.4
TIY	16.54	310	eP	30 21.00	1.6
XAN	17.78	294	P	30 33.50	-1.2
HHC	18.86	317	eP	30 43.80	-2.7X
CD2	21.71	283	P	31 15.40	-0.1
LZH	22.32	297	eP	31 20.00	-1.6
	1.5s	20.00nm		4.3mb	
			pP	31 47.00	134kmX
GTA	26.29	303	eP	31 57.00	-2.1

07d 16h

	0.9s	10.00nm		4.4mb		
GUN	37.49	280	P	33 38.80	1.7	
KKN	38.03	280	P	33 42.80	1.3	
DMN	38.22	280	P	33 45.80	2.7X	
GKN	38.55	281	P	33 46.20	0.4	
WRA	48.07	173	P	35 02.00	-0.2	
	0.6s	8.20nm		4.7mb		
ASPA	51.71	174	iPc	35 30.30	0.4	
	0.5s	5.30nm		4.7mb		
FBA	62.30	29	eP	36 44.20	0.1	
	0.6s	2.60nm		4.4mb		
INK	67.11	24	eP	37 14.00	-1.1	
YKA	76.76	25	eP	38 12.20	0.0	
	0.6s	1.90nm		4.0mb		
	S.D. = 1.2	on	18 of	21 obs.		

? FEB 07, 1991 17h 17m 27.20± 7.05s
13.396 N ±65.5km 89.627 W ±16.2km
DEPTH = 33.0km (normal)
EL SALVADOR (73)
Felt (II) at San Salvador.

VSS	0.51	47	iPd	17 38.50	0.4	
SJAS	0.52	59	eP	17 38.00	-0.2	
CUSS	0.60	329	iPc	17 39.30	0.0	
			eS	17 50.50		
TME	0.67	23	iPd	17 40.00	-0.3	
	S.D. = 0.6	on	4 of	4 obs.		

% FEB 07, 1991 17h 28m 00.58± 1.88s
31.287 S ± 8.9km 67.973 W ±14.1km
DEPTH = 10.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

CFA	0.39	215	iPd	28 09.10	0.5	
			eS	28 13.80		
RTLL	0.43	264	iP	28 09.00	-0.3	
RTCB	0.73	254	ePc	28 15.20	0.1	
			eS	28 23.50		
RTCV	0.75	220	ePd	28 15.00	-0.3	
RTRS	1.70	311	ePd	28 30.50	0.2	
RFA	3.50	187	ePd	28 56.00	-0.2	
			S	29 49.20		
	S.D. = 0.4	on	6 of	6 obs.		

& FEB 07, 1991 17h 33m 24.34s
60.048 N 153.297 W
DEPTH = 137.2km
3.2mb (1 obs.)
SOUTHERN ALASKA (2)
<AEIC>.

OPT	0.40	175	iP	33 43.21	-0.8	
			iS	33 57.28		
RS2	0.50	33	iP	33 43.75	-1.0	
RSO	0.50	33	iP	33 43.72	-1.0	
			eS	33 59.81		
PDB	0.52	240	eP	33 43.57	-1.0	
REF	0.53	34	iP	33 43.95	-0.9	
RDN	0.54	29	iP	33 44.03	-0.8	
			eS	33 58.59		
NCT	0.55	19	iP	33 44.01	-0.9	
			eS	33 57.98		
RDT	0.69	40	iP	33 44.81	-0.9	
AUH	0.69	186	iP	33 44.99	-0.8	
			eS	34 01.14		
AUE	0.69	183	iP	33 44.82	-0.8	
AUI	0.72	185	eP	33 45.02	-0.8	
HOM	0.92	114	eP	33 46.84	-0.6	
			eS	34 03.01		
XLV	1.00	126	eP	33 46.93	-1.2	
			S	34 04.15		
NNL	1.00	89	iP	33 48.39	0.2	
MCNL	1.01	212	iP	33 47.42	-0.9	
			eS	34 04.89		
CDD	1.14	189	iP	33 48.51	-1.0	
			eS	34 06.78		
CNPM	1.17	116	iP	33 48.80	-1.0	
			eS	34 06.94		
NKA	1.24	55	eP	33 51.29	0.9	
CKL	1.25	22	iP	33 50.35	-0.3	
			eS	34 09.30		
BRLK	1.25	102	eP	33 49.87	-0.8	
			eS	34 07.78		
SPU	1.29	28	eP	33 50.56	-0.5	
			iS	34 10.31		
BGL	1.30	20	eP	33 51.07	-0.2	
NCG	1.47	22	eP	33 52.98	-0.1	
SYI	1.52	162	eP	33 52.40	-1.0	
			iS	34 13.66		
SVW	1.56	314	iP	33 53.24	-0.8	
			eS	34 14.79		
SLKM	1.60	72	eP	33 53.46	-1.0	
SUA	1.89	40	iP	33 57.65	-0.3	
			eS	34 22.77		
SEW	1.93	87	eP	33 57.25	-1.0	
SKT	2.12	23	iP	34 00.14	-0.5	
PMS	2.20	55	eP	34 00.66	-0.9	
			eS	34 26.22		
PWA	2.32	45	eP	34 02.16	-0.9	
PLRM	2.56	51	eP	34 05.54	-0.6	
KNK	2.74	58	eP	34 06.71	-1.8	
			eS	34 38.58		
GHO	2.75	49	eP	34 07.07	-1.5	
			eS	34 39.11		
CUT	2.78	30	eP	34 08.01	-0.9	
KNIM	2.79	81	eP	34 06.59	-2.5	
GLI	3.18	72	eP	34 12.86	-1.3	
HUR	3.42	29	eP	34 16.36	-1.0	
VLZ	3.60	69	eP	34 18.82	-0.9	
TRF	3.70	21	eP	34 20.32	-0.9	
KLU	3.90	65	eP	34 21.74	-2.0	
RND	3.98	30	eP	34 23.79	-1.0	
MCK	4.23	27	eP	34 27.34	-0.8	
TZL	4.32	59	eP	34 28.09	-1.2	
SDG	4.49	53	eP	34 30.88	-0.7	
BWN	4.51	22	eP	34 30.97	-0.9	
PAX	4.76	49	eP	34 33.94	-1.3	
GLB	4.86	69	eP	34 34.77	-1.8	
NEA	4.95	22	eP	34 36.40	-1.4	
WRH	5.06	26	eP	34 37.71	-1.5	
CCB	5.28	27	eP	34 40.37	-1.7	
HDA	5.28	31	eP	34 40.70	-1.5	
MDM	5.46	23	eP	34 43.24	-1.4	
FBA	5.50	25	eP	34 43.37	-1.7	
BALM	5.50	75	eP	34 44.07	-1.2	
GLM	5.66	26	eP	34 45.51	-1.9	
YKA	18.57	66	eP	37 31.80	-1.1	
	0.6s	0.70nm		3.2mb		
	57 obs. assaciated					

• FEB 07, 1991 17h 48m 25.33± 1.10s
42.938 N ±18.6km 146.305 E ±17.4km
DEPTH = 33.0km (normal)
4.4mb (4 obs.)
OFF COAST OF HOKKAIDO, JAPAN (225)

MAT	8.92	227	eP	50 34.00	-0.9	
BJI	22.70	273	eP	53 24.50	-0.6	
	1.0s	11.00nm		4.3mb		
SSE	23.19	248	eP	53 33.80	3.9X	
INK	47.42	30	eP	56 58.50	0.6	
GUN	50.45	273	P	57 22.80	0.5	
KKN	50.95	274	P	57 26.60	0.6	
PKI	50.98	273	P	57 27.00	0.7	
DMN	51.18	274	P	57 28.00	0.2	
GKN	51.30	274	P	57 28.80	0.2	
YKA	56.82	33	eP	58 08.40	0.0	
	0.6s	0.70nm		3.9mb		
GBA	65.41	266	P	59 08.00	0.9	
			e	59 17.50		
NUR	66.48	333	eP	59 12.00	-1.2	
FRB	70.13	16	eP	59 25.50	-10.4X	
NB2	70.14	339	P	59 35.80	-0.3	
	0.6s	3.30nm		4.6mb		
HFS	70.20	337	eP	59 35.50	-0.9	
	0.5s	7.80nm		5.0mb		
	Z 15s	0.09um		4.2MszX		
		LR	30	47.00		
	S.D. = 0.8	on	13 of	15 obs.		

& FEB 07, 1991 18h 15m 15.45s
59.769 N 153.503 W
DEPTH = 123.0km
SOUTHERN ALASKA (2)
<AEIC>.

OPT	0.18	130	iP	15 31.94	0.9	
			eS	15 44.59		
PDB	0.35	273	iP	15 32.20	-1.0	
AUH	0.41	176	eP	15 32.77	-0.8	
AUE	0.42	171	iP	15 32.75	-0.7	
AUI	0.44	175	eP	15 32.73	-0.9	
MCNL	0.72	216	iP	15 34.54	-1.0	
			eS	15 49.22		
RS2	0.79	28	eP	15 35.51	-0.9	
			eS	15 51.29		
RSO	0.79	28	eP	15 35.42	-0.9	
			eS	15 51.12		
REF	0.83	29	iP	15 35.81	-0.8	
			eS	15 51.51		
RDN	0.83	26	eP	15 35.80	-0.8	
			eS	15 51.64		
CDD	0.84	185	iP	15 35.59	-1.0	
			eS	15 50.86		
NCT	0.85	20	iP	15 35.90	-0.8	
			eS	15 51.44		
HOM	0.95	96	eP	15 36.94	-0.6	
			eS	15 53.14		
BGM	0.96	247	eP	15 36.74	-0.9	
XLV	0.96	108	eP	15 36.66	-1.0	
			eS	15 52.84		
RDT	0.98	34	iP	15 36.97	-0.9	
NNL	1.15	75	iP	15 39.30	-0.2	
CNPM	1.18	101	eP	15 38.69	-1.2	
			eS	15 56.28		
SYI	1.30	153	iP	15 39.74	-1.3	
			eS	15 59.30		
BRLK	1.32	89	eP	15 40.19	-1.3	
			eS	15 58.36		
NKA	1.49	48	eP	15 43.89	0.6	
CKL	1.54	21	iP	15 43.49	-0.6	
			eS	16 05.17		
SPU	1.59	26	iP	15 43.65	-0.9	
			eS	16 06.08		
BGL	1.60	20	eP	15 44.31	-0.4	
SVW	1.71	323	iPd	15 45.30	-0.6	
NCG	1.77	21	eP	15 46.37	-0.4	
SLKM	1.80	64	eP	15 45.48	-1.6	
			eS	16 08.89		
SEW	2.07	79	eP	15 48.79	-1.5	
SUA	2.18	37	eP	15 51.03	-0.9	
			eS	16 18.62		
SKT	2.42	23	eP	15 54.02	-0.9	
PMS	2.45	51	eP	15 53.79	-1.5	
			eS	16 22.46		
PWA	2.60	42	eP	15 56.07	-1.1	
PLRM	2.82	48	eP	15 57.93	-2.2	
PMR	2.82	48	iPc	15 59.10	-1.0	
LTI	2.86	82	eP	15 59.10	-1.5	
KNIM	2.95	76	eP	15 59.02	-2.8	
MTU	2.96	83	iP	16 00.19	-1.7	
KNK	2.99	54	iP	15 59.78	-2.6	
GHO	3.01	46	eP	16 00.16	-2.6	
CUT	3.08	29	eP	16 02.14	-1.3	
			eS	16 38.49		
GLI	3.38	68	eP	16 04.32	-3.2	
TTA	3.39	340	iPd	16 06.60	-1.2	
VZW	3.68	66	eP	16 08.38	-3.3	
			S	16 50.46		
VLZ	3.81	66	eP	16 10.36	-2.9	
TRF	4.00	21	eP	16 14.62	-1.5	
RND	4.27	29	eP	16 18.00	-1.7	
TOA	4.27	54	iPd	16 18.20	-1.5	
TZL	4.56	56	eP	16 21.23	-2.2	
SDG	4.75	51	eP	16 23.48	-2.5	
PAX	5.02	47	eP	16 27.49	-2.4	
GLB	5.06	66	eP	16 27.61	-2.7	
WRH	5.36	26	eP	16 31.22	-3.1	
TGL	5.41	75	eP	16 32.75	-2.3	
CCB	5.57	26	eP	16 34.30	-2.9	
HDA	5.58	31	eP	16 35.10	-2.2	
BALM	5.68	72	iP	16 36.59	-2.2	
MDM	5.76	23	eP	16 37.71	-2.1	
FBA	5.79	25	eP	16 38.40	-1.9	
YAH	5.92	79	eP	16 39.59	-2.7	
GLM	5.96	26	eP	16 40.33	-2.3	
CTGM	6.16	74	eP	16 43.63	-1.8	
IMA	6.32	359	ePd	16 46.40	-1.3	
	62 obs. associated					

? FEB 07, 1991 18h 55m 41.54± 1.13s
36.251 N ±15.2km 76.254 E ±10.5km
DEPTH = 33.0km (normal)
3.7mb (1 obs.)
KASHMIR-XINJIANG BORDER REGION (324)

QUE	9.86	235	eP	58 04.20	0.0	
			eSS	59 45.40		
GKN	10.86	137	P	58 18.60	0.6	
KKN	11.39	135	P	58 24.40	-0.8	

```
DMN     11.43 136 P      58 27.00    1.2
PKI     11.63 136 P      58 27.80   -0.7
GUN     11.65 133 P      58 28.40   -0.4
YKA     81.21   5 eP     07 55.00    0.0
        0.5s      0.40nm              3.7mb
SIV    137.12 287 PKP    15 18.40   14.9X
      S.D. = 0.9  on   7 of   8 obs.
-----------------------------------------
*  FEB  07, 1991   19h 38m 54.94± 0.63s
   56.217 S ±13.7km   26.674 W ±14.1km
   DEPTH =  33.0km  (normal)
   5.0mb (  4 obs.)
 SOUTH SANDWICH ISLANDS REGION     (153)

SPA     33.96 180 iPc    45 36.80   -0.3
        1.0s     25.00nm             5.1mb
                  i      45 50.00
SIV     47.90 313 P      47 30.40   -1.4
SOB1    48.20 341 eP     47 36.20    2.1
                  e      48 05.60
CNCB    50.18 305 P      47 53.00    3.0X
LPB     50.48 305 eP     47 52.00   -0.1
LSZ     58.17  68 iPc    48 47.50   -0.5
                  i      49 02.00
                  i      49 17.00
KMZ     58.49  65 iPd    48 51.00    0.7
PTZ     60.67  71 iP     49 04.00   -1.2
        0.5s      3.30nm             4.7mb
                  i      49 34.00
LIC     64.73  24 Pd     49 32.00    0.1
        0.7s      7.00nm             4.9mb
KIC     64.93  24 P      49 33.30    0.1
TIC     65.14  24 Pd     49 34.60    0.0
BCAO    70.81  49 iPd    50 09.90   -0.2
        0.2s     22.00nm             5.9mb X
                  id     50 37.30
ASPA    98.74 162 iPd    52 34.00    1.7
        0.8s      5.50nm             5.1mb
YKA    136.49 318 ePKP   58 11.80   -1.8
        0.5s      1.00nm
MBC    144.25 336 ePKP   58 25.00   -2.2X
        0.6s      3.00nm
INK    146.11 320 ePKP   58 31.30    0.8
                  pP     59 07.50
      S.D. = 1.2  on  14 of  16 obs.
-----------------------------------------
?  FEB  07, 1991   22h 37m 34.56± 1.69s
   40.712 N ±15.3km   29.984 E ±13.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      MD 2.5 (ISK).

HRT      0.26 295 iPg    37 40.00   -0.2
                  iSg    37 44.50
YLV      0.49 253 iPg    37 44.50    0.0
                  eSg    37 53.00
GPA      0.49 149 ePg    37 44.50    0.0
ISK      0.79 297 ePg    37 50.00    0.2
      S.D. = 0.2  on   4 of   4 obs.
-----------------------------------------
   FEB  07, 1991   23h 09m 03.37± 0.68s
   12.804 S ±10.4km  168.378 E ± 7.4km
   DEPTH = 631.0 ±  8.8 km
   4.7mb ( 16 obs.)
 SANTA CRUZ ISLANDS REGION         (183)

PVC      4.91 181 iPc    10 38.20    0.4
HNR      8.93 291 eP     11 11.00   -1.7
SVO      9.16 293 P      11 13.00   -1.9
                  S      11 28.00
DZM      9.40 191 iPc    11 19.10    1.9
RMO     22.91 231 iPd    13 23.90    0.1
OLP     26.48 235 iPd    13 54.00   -1.0
        0.4s     58.00nm             5.6mb
OIS     28.59 251 iPd    14 13.90    0.6
        0.5s     15.00nm             4.9mb
WB2     33.36 253 iPd    14 54.00    0.4
ASPA    34.39 247 iPc    15 01.90   -0.2
        0.4s    167.90nm             6.0mb X
                  iS     19 45.30
                  iScP   20 04.80
MTN     36.30 266 iPd    15 19.40    1.7
        0.3s     61.00nm             5.6mb
KNA     38.46 261 eP     15 36.00    0.7
        0.3s     32.00nm             5.4mb
WARB    41.35 245 iPd    15 59.30    1.0
        0.3s     16.00nm             5.0mb
COOL    47.01 240 iPc    16 41.00   -0.9
MBL     47.02 253 iPd    16 42.20    0.2
        0.3s      7.00nm             4.7mb
KLB     49.99 239 eP     17 03.00   -1.0
NWAO    50.67 238 eP     17 07.90   -1.0
        0.4s      6.00nm             4.3mb
BAL     50.72 241 eP     17 08.40   -0.9
NANU    51.06 251 iPd    17 12.00    0.2
        0.3s     19.00nm             4.9mb
CN2     68.58 328 eP     19 07.80    1.2
TIY     72.60 316 Pd     19 32.00    1.8
LZH     77.84 312 eP     20 01.00    1.9
        1.2s     16.00nm             4.4mb
TTA     80.38  16 ePc    20 12.60    0.9
        0.6s      5.20nm             4.2mb
PMR     81.34  19 ePc    20 16.90    0.5
        0.6s      9.80nm             4.5mb
PCC     81.86  49 e(P)   20 19.40   -0.1
GCC     81.97  49 e(P)   20 20.10    0.0
GTA     82.13 313 iPd    20 23.00    2.0
        1.0s     10.00nm             4.3mb
PRS     82.17  50 ePc    20 21.70    0.6
MHC     82.35  49 eP     20 22.60    0.4
LLA     82.59  50 eP     20 23.50    0.2
PRI     82.63  50 ePc    20 24.10    0.5
WDC     82.96  46 ePc    20 25.20    0.2
ORV     83.29  47 ePc    20 26.60   -0.1
MIN     83.52  46 eP     20 27.50   -0.5
IMA     83.53  15 ePc    20 28.50    1.0
        0.9s      7.90nm             4.3mb
CMB     83.53  49 ePc    20 27.80   -0.2
FRI     83.65  50 ePc    20 28.50    0.0
MWC     83.95  53 eP     20 30.00   -0.3
ISA     84.12  52 eP     20 31.00    0.1
FBA     84.20  17 ePc    20 29.80   -0.8
        0.7s     11.50nm             4.6mb
SBB     84.29  53 eP     20 31.00   -0.7
RVR     84.40  53 eP     20 31.00   -1.2
BAR     84.53  55 eP     20 30.00   -2.9X
PLM     84.60  54 eP     20 34.00    0.6
CLC     84.84  52 eP     20 35.00    0.6
TPC     85.48  54 eP     20 38.00    0.5
GLA     86.12  55 eP     20 41.00    0.4
PNT     88.24  39 eP     20 50.00   -0.1
        0.9s     14.00nm             4.8mb
YKA     95.35  27 eP     21 20.30   -2.0
        0.6s      2.50nm             4.6mb
NB2    129.04 346 PKP    27 00.60   -1.5
        0.6s      1.40nm
CDF    141.18 340 ePKP   27 19.40   -5.8X
        0.5s      4.35nm
HAU    141.84 340 ePKP   27 21.60   -4.7X
        0.6s      4.50nm
BSF    141.84 340 ePKP   27 21.50   -4.9X
        0.7s      5.50nm
FLN    142.98 348 ePKP   27 25.20   -2.9X
        0.7s     22.05nm
LDF    143.06 347 ePKP   27 25.50   -2.8X
        0.7s     15.45nm
LOR    143.27 342 ePKP   27 26.60   -2.1
        0.7s     10.45nm
GRR    143.41 348 ePKP   27 27.00   -1.9
        0.6s     36.05nm
LBF    143.49 342 ePKP   27 27.40   -1.8
        0.9s     26.20nm
SSF    143.56 343 ePKP   27 27.90   -1.3
        0.9s     32.75nm
SOB1   143.62 126 ePKP   27 29.30   -1.0
LPF    143.79 348 ePKP   27 28.30   -1.2
        0.5s     26.25nm
SMF    143.83 342 ePKP   27 28.90   -0.8
        0.5s     11.65nm
AVF    143.85 342 ePKP   27 28.90   -0.8
        0.6s      9.45nm
LPL    143.86 338 ePKP   27 29.30   -0.8
        0.9s     15.55nm
LPG    143.87 338 ePKP   27 29.30   -0.9
        0.9s     19.65nm
BGF    144.21 343 ePKP   27 29.60   -0.7
        0.6s      9.00nm
MAF    144.59 343 ePKP   27 30.90   -0.1
        0.6s      7.20nm
TCF    144.63 343 ePKP   27 31.00   -0.1
        0.4s      4.00nm
LSF    144.86 344 ePKP   27 31.40   -0.1
        0.5s      9.10nm
MFF    144.95 346 ePKP   27 31.80    0.2
        0.5s     22.60nm
SBF    144.98 336 ePKP   27 31.60   -0.2
        0.5s     13.85nm
PGF    145.39 333 ePKP   27 33.00    0.4
FRF    145.55 336 ePKP   27 33.50    0.9
        0.4s      5.15nm
RJF    145.73 343 ePKP   27 34.20    1.3
        0.5s      5.10nm
LRG    145.75 336 ePKP   27 34.10    1.2
LMR    145.79 336 ePKP   27 34.10    1.1
        0.4s      4.60nm
LFF    146.28 344 ePKP   27 35.80    2.0
        0.5s     13.10nm
LPO    146.39 343 ePKP   27 36.10    2.1
        0.7s     17.65nm
BCAO   149.08 257 iPKPd  27 43.90    4.8X
        0.3s     10.00nm
      S.D. = 1.1  on  71 of  78 obs.
-----------------------------------------
*  FEB  07, 1991   23h 16m 57.89± 1.48s
   4.620 S ±10.7km  144.968 E ± 8.3km
   DEPTH = 123.6 ± 11.8 km
   4.9mb (  2 obs.)
 NEAR N COAST OF PAPUA NEW GUINEA(200)

MNDI     2.01 220 eP     17 34.00    1.7
PMG      5.23 156 iPd    18 13.60   -1.5
SVO     15.41 108 P      20 23.00   -6.9X
HNR     15.61 109 P      20 21.00  -11.4X
MTN     15.92 238 eP     20 35.00   -1.3
OIS     16.68 198 eP     20 45.00   -0.7
WB2     18.41 213 iPc    21 03.60   -2.8X
                  eS     26 33.00
ASPA    21.74 208 iPd    21 40.20   -0.3
        0.7s     34.80nm             4.8mb
                  eS     25 31.40
OLP     21.85 182 iPc    21 41.20   -0.3
        0.6s     98.00nm             5.4mb X
KUPT    21.88 254 eP     21 43.00    1.2
RMO     22.05 171 iPc    21 44.00    0.6
DZM     27.09 132 iPc    22 30.10   -1.0
WARB    27.70 217 eP     22 36.30   -0.2
        0.4s     15.00nm             5.0mb
ADE     30.75 190 eP     23 03.30   -0.3
BFD     32.48 184 eP     23 19.00    0.5
HBZ     44.76 142 eP     25 01.80    1.1
TCW     44.90 148 P      25 02.30    0.5
PUZ     45.03 142 eP     25 03.70    0.8
MRW     45.14 148 eP     25 03.90    0.2
WDW     45.32 148 P      25 05.10    0.0
KHZ     45.41 150 eP     25 05.10   -0.7
MTW     45.51 147 eP     25 06.80    0.2
GUN     65.42 303 P      27 29.60   -0.6
GKN     66.49 303 P      27 36.00   -0.8
INK     91.12  22 eP     29 49.00   -0.4
SIV    147.08 129 PKP    36 27.80    1.3
KIC    149.80 275 PKP    36 36.00    5.2X
TIC    150.07 275 PKP    36 36.60    5.4X
LIC    150.09 274 PKP    36 36.60    5.4X
      S.D. = 0.9  on  23 of  29 obs.
-----------------------------------------
*  FEB  07, 1991   23h 40m 40.71± 1.11s
   35.510 N ±14.5km   26.721 E ± 6.1km
   DEPTH =   9.9 ±  6.1 km
 CRETE                             (370)
      MD 3.7 (ATH).

KAP      0.37  84 iPbd   40 47.90   -0.4
                  eSb    40 54.00
NPS      0.94 255 ePn    40 58.90    0.3
                  eSn    41 13.50
ARG      1.34  58 ePb    41 05.50    0.1
APE      1.83 329 ePn    41 11.50   -1.0
YER      2.05  37 iPn    41 15.70   -0.1
VAM      2.06 268 ePb    41 18.90    3.1X
CIN      2.36  27 eP     41 21.00    0.9
ELL      2.86  63 eP     41 34.50    7.1X
VLI      3.29 293 ePn    41 32.10   -1.3
ITM      4.21 295 ePn    41 47.80    1.4
      S.D. = 1.2  on   8 of  10 obs.
-----------------------------------------
&  FEB  08, 1991   00h 38m 14.79s
   40.562 N          122.848 W
   DEPTH =  35.5km
 NORTHERN CALIFORNIA               ( 36)
      <GM>. MD 3.0 (GM).
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08d 00h

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LTCM     0.66 122 eP     38 26.90  -0.7
FHC      0.90 286 eP     38 31.00  -0.1
LBFM     1.07  42 eP     38 33.50  -0.2
ORV      1.44 134 eP     38 36.00  -2.9
KVN      3.96 111 e(P)   39 10.00  -4.8
         5 obs. associated
-----------------------------------------
   FEB  08, 1991  01h 38m 52.11± 0.56s
    7.547 S ± 3.6km  128.765 E ± 4.9km
   DEPTH = 103.0 ±  5.1 km
   5.4mb ( 32 obs.)
 BANDA SEA                          (280)

AAI      3.88 352 ePd    39 53.60   2.9
                 e(S)    40 40.00
MTN      5.76 156 iPc    40 13.30  -3.3X
KNA      8.15 180 eP     40 44.40  -5.0X
                 eS      42 06.00
MNI      9.75 336 eP     41 16.00   4.9X
WB2     13.46 157 iPc    41 52.90  -7.3X
TSM     15.83 317 ePd    42 38.50   8.1X
MBL     16.05 212 iPd    42 28.90  -4.3X
        0.3s    32.00nm          5.0mb
                 eS      45 10.00
QIS     16.65 142 iPc    42 36.10  -4.6X
        0.4s    89.00nm          5.4mb
                 eS      04 52.60
ASPA    16.77 163 iPd    42 36.90  -5.2X
        0.6s   237.70nm          5.6mb
                 eS      45 34.40
                 eScS    54 26.20
PMG     18.28  97 iPc    43 01.00   0.3
        1.0s   280.00nm          5.5mb
KKM     18.41 317 ePc    43 08.50   6.2X
WARB    18.64 186 iPc    43 02.10  -2.7X
        0.5s    70.00nm          5.2mb
                 eS      46 12.00
NANU    19.63 219 iPd    43 14.10  -0.9
        0.3s    20.00nm          5.0mb
                 eS      46 40.00
CTA     21.04 128 iPd    43 30.00   0.5
        1.0s   225.00nm          5.5mb
                 iS      47 21.00
MEKA    21.31 206 eP     43 32.00  -0.2
                 eS      47 18.00
OCP     23.32 341 eP     43 38.00 -13.9X
QLP     23.97 144 iPd    43 57.40  -0.8
                 iS      48 25.50
COOL    24.29 196 eP     44 01.00  -0.2
                 eS      47 30.00
MRWA    24.68 208 eP     44 05.00   0.1
        0.4s    15.00nm          4.8mb
                 e       44 28.00
                 eS      48 36.00
BAG     25.14 341 eP     44 08.00  -1.5
BAL     25.57 205 iPc    44 12.80  -0.4
                 eS      48 59.00
KLB     26.03 202 iPd    44 18.40   1.0
                 eS      49 12.00
RMQ     26.76 137 iPc    44 23.30  -0.8
                 i       44 51.00
                 eS      49 29.00
MUN     26.98 204 eP     44 26.00   0.0
                 eS      49 31.00
KGM     27.11 290 eP     44 29.00   1.6
NWAO    27.43 201 iPc    44 29.70  -0.4
                 eS      49 41.00
ADE     28.78 163 eP     44 42.10  -0.2
        1.2s   125.00nm          5.4mb
BRS     30.12 134 iPd    44 53.50  -0.8
                 e       45 32.00
IPM     30.19 293 ePd    44 54.90  -0.1
HNR     30.89  96 eP     45 02.00   0.8
COO     31.53 140 eP     45 06.00  -0.7
QIZ     32.33 325 P      45 13.50  -0.2
CNB     33.48 149 ePc    45 24.00   0.4
TOO     33.52 156 iPd    45 25.20   1.3
        0.6s    38.00nm          5.4mb
NST     36.56 309 eP     45 51.00   1.2
KHT     37.25 307 eP     45 57.00   1.4
BDT     38.37 310 eP     46 05.00   0.0
        0.6s    32.90nm          5.4mb
DZM     39.05 116 iPc    46 11.00   0.2
SSE     39.10 350 Pc     46 11.30   0.4
        1.2s    20.00nm          4.8mb
CHG     39.38 312 iPc    46 14.00   0.5
        1.2s   103.52nm          5.5mb

CHTO    39.38 312 iPc    46 14.00   0.6
        1.0s    67.50nm          5.4mb
                 e       46 36.00
GYA     40.03 328 iPc    46 19.40   0.6
        1.2s   100.00nm          5.5mb
                 PcP     48 22.20
WHN     40.32 341 Pc     46 22.20   1.3
        1.1s   100.00nm          5.6mb
NJ2     40.50 347 Pc     46 23.30   0.9
KMI     41.19 323 Pc     46 30.00   1.5
        1.5s   250.00nm          5.8mb
                 sP      46 50.00
MAT     44.74  11 (P)    46 55.00  -1.9
TIA     44.88 347 eP     46 56.20  -1.8
CD2     45.12 329 P      46 59.80  -0.2
        0.8s   100.00nm          5.7mb
                 S       53 29.50
XAN     45.44 337 iPc    47 01.70  -0.8
TIY     47.54 342 Pc     47 18.50  -0.5
BJI     48.76 347 eP     47 28.00  -0.3
        1.5s    78.00nm          5.4mb
LZH     49.32 333 iPc    47 33.50   0.6
        1.5s   400.00nm          6.1mb
      Z 30s     0.34um          4.2MszX
                 PP      49 27.50
SNY     49.36 355 eP     47 30.30  -2.6X
HHC     50.69 343 P      47 43.00  -0.2
BTO     50.93 342 eP     47 44.00  -1.0
CN2     51.19 357 eP     47 45.20  -1.6
LSA     51.76 317 P      47 51.20  -0.7
MDJ     51.93   1 eP     47 52.00  -0.3
KHZ     52.49 139 eP     47 56.30  -0.4
GTA     53.87 332 iPc    48 07.00   0.1
        1.0s   100.00nm          5.8mb
GUN     54.40 312 Pc     48 10.40  -0.9
PKI     54.56 312 Pc     48 11.40  -1.1
KKN     54.77 312 Pc     48 13.00  -0.9
DMN     54.80 311 Pc     48 13.60  -0.6
GBA     55.12 292 Pc     48 12.40  -3.8X
        1.4s    27.10nm          5.1mb
GKN     55.37 312 Pc     48 17.00  -1.1
HYB     55.46 297 iPd    48 17.00  -1.8
        1.0s    40.00nm          5.4mb
NDI     61.35 308 eP     48 57.00  -2.6X
        0.5s    28.17nm          5.5mb
WMQ     63.19 328 iPc    49 11.50  -0.1
        1.2s   100.00nm          5.6mb
                 sP      49 35.00
                 eS      57 34.00
                 ScS     58 55.00
OUE     70.11 306 eP     49 55.40  -0.3
                 e       50 24.70
MAIO    78.08 309 eP     50 42.00   0.6
PAE     79.83 107 iP     50 54.60   3.5X
        1.2s    70.00nm          5.4mb
TVO     80.13 107 iP     50 56.60   3.8X
        1.2s    55.00nm          5.3mb
PMO     81.68 104 iP     51 04.30   3.4X
        1.2s    40.00nm          5.1mb
VAH     81.91 104 iP     51 05.80   3.7X
        1.2s    25.00nm          4.9mb
TPT     81.95 104 iP     51 06.10   3.8X
        1.2s    50.00nm          5.2mb
RUV     82.15 104 iP     51 07.20   3.9X
        1.2s    35.00nm          5.1mb
INK     99.82  22 eP     52 25.00  -0.7
YKA    108.78  26 ePdiff 53 05.40  -0.3
        1.0s     0.70nm          4.8mb
YKA    108.78  26 ePKP   57 09.30  -1.0
        0.8s     0.90nm
BSF    116.75 320 ePKP   57 25.50  -0.7
        0.6s     5.40nm
HAU    116.97 320 ePKP   57 26.20  -0.3
SNF    117.31 324 PKP    57 25.20  -1.8
LPG    117.54 318 ePKP   57 27.80  -0.2
        0.6s     2.70nm
LPL    117.55 318 ePKP   57 27.80  -0.1
        0.5s     5.85nm
FFC    118.05  31 ePKP   57 29.00   0.7
        1.0s    12.00nm
BW06   118.14  45 ePKP   57 29.20   0.0
LOR    118.81 320 ePKP   57 29.80  -0.2
        0.6s     3.15nm
LBF    118.84 320 ePKP   57 29.90  -0.2
SMF    119.05 320 ePKP   57 30.60   0.1
        0.5s     2.90nm
SSF    119.11 320 ePKP   57 30.60

        0.6s     4.95nm
AVF    119.31 320 ePKP   57 30.60  -0.3
        0.5s     2.90nm
PV09   119.62  50 ePKP   57 33.00   0.8
BGF    119.72 320 ePKP   57 31.90   0.2
        0.6s     7.65nm
TCF    120.23 320 ePKP   57 32.80   0.1
        0.6s     4.95nm
GRR    121.25 323 ePKP   57 35.80   1.3
RSSD   121.48  42 ePKP   57 35.10  -0.4
LPF    121.52 323 ePKP   57 36.20   1.2
LPO    121.52 318 ePKP   57 35.80   0.6
MFF    121.59 321 ePKP   57 35.30   0.0
LFF    121.71 319 ePKP   57 36.20   0.7
GOL    122.08  48 ePKP   57 37.70   0.9
        1.0s     7.50nm
FRB    122.54   9 ePKP   57 36.00  -0.5
ALQ    122.61  53 ePKP   57 39.00   1.1
        1.0s     5.75nm
EPF    122.72 317 ePKP   57 38.40   0.8
        0.5s     3.65nm
TUL    130.52  49 ePKP   57 52.50  -0.3
        0.8s     4.00nm
KIC    133.85 272 PKP    58 00.00   0.3
LIC    134.12 271 PKP    58 00.40   0.2
TIC    134.15 272 PKP    58 00.20  -0.1
ITB7   147.40 175 PKPc   58 27.50   4.0X
ITB    147.73 175 e(PKP) 58 28.10   4.0X
ITB1   147.85 175 e(PKP) 58 28.20   4.0X
NNA    147.98 127 iPKP   58 29.50   4.7X
        0.6s    40.00nm
ARE    148.84 140 ePKP   58 29.00   2.6X
DVD    149.08  86 (PKP)  58 33.50   7.1X
BMA    149.16 193 ePKP   58 32.40   6.0X
                 e       58 36.90
VAO    149.35 188 ePKP   58 32.40   5.6X
                 e       59 02.30
                 e       59 08.70
CNCB   150.67 146 iPKPc  58 32.00   2.5X
LPB    150.83 145 PKPd   58 29.20  -0.3
        1.0s   100.00nm
                 i       58 35.10
ZOBO   151.03 145 iPKPc  58 32.10   2.1X
      Z 23s     0.05um          4.3MszX
                 i       59 19.00
                 LR      50 20.00
UPA    151.96  85 (PKP)  58 26.00  -4.8X
SIV    154.67 157 PKP    58 35.60   1.1
PDCR   156.70 211 ePKP   58 38.20   1.0
                 e       59 06.70
BAO    156.74 188 ePKPd  58 39.00   1.6
SOB1   160.42 212 ePKP   58 45.20   3.7X
      S.D. = 0.9  on  93 of 125 obs.
-----------------------------------------
?  FEB  08, 1991  01h 48m 56.40± 5.54s
   15.088 N ±10.9km   60.525 W ±56.0km
   DEPTH =  33.0km  (normal)
 LEEWARD ISLANDS                    ( 92)
      ML 2.4 (FDF).

CRM     0.50 229 iPd    49 07.25   0.2
                 S       49 15.50
MVM     0.64 214 iPd    49 09.02   0.0
                 S       49 18.90
FDF     0.70 240 iPd    49 09.73  -0.1
        0.1s     1.50nm
                 S       49 19.90
BIM     0.77 223 iPd    49 10.81  -0.1
                 S       49 22.00
PAG     1.45 310 eP     49 20.70   0.0
      S.D. = 0.2  on   5 of   5 obs.
-----------------------------------------
   FEB  08, 1991  03h 56m 33.82± 0.59s
   40.689 N ± 5.0km   23.040 E ± 6.1km
   DEPTH =  10.0km  (geophysicist)
 GREECE                             (364)
      ML 1.8 (SKO).

THE     0.08 225 iPc    56 36.58   0.3
                 eS      56 38.50
KNT     0.48 347 ePd    56 43.22  -0.4
                 eS      56 49.70
GRG     0.55 299 iPd    56 44.54  -0.5
                 eS      56 52.82
SRS     0.60  44 ePc    56 44.33  -1.6
                 iS      56 52.70
LIT     0.72 216 ePc    56 48.42   0.4
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08d 09h

4.5mb (2 obs.)
TIMOR SEA (290)

MTN	5.06	144	eP	39 11.20	0.3
KNA	7.00	175	iPd	39 37.90	0.7
	0.2s	47.00nm			5.6mb X
			eS	41 00.00	
WB2	12.68	152	iPc	40 51.00	-1.7
			eS	43 14.50	
MBL	14.69	212	eP	41 17.20	-1.2
ASPA	15.85	160	iPd	41 34.10	1.1
	0.3s	23.80nm			5.0mb
			eS	44 29.70	
QIS	16.18	138	eP	41 37.00	0.0
			eS	44 33.00	
WARB	17.40	184	eP	41 55.00	3.0X
	0.3s	3.00nm			4.1mb
NANU	18.28	220	eP	42 03.00	0.8
CNCB	150.05	148	PKP	57 38.00	9.5X
LPB	150.22	147	ePKP	57 39.00	10.4X
ZOBO	150.42	147	PKP	57 38.50	9.4X
S.D. = 1.5		on	7 of	11 obs.	

% FEB 08, 1991 10h 02m 18.62± 2.76s
44.879 N ±10.2km 7.685 E ±21.5km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.8 (GEN).

BHB	0.30	263	P	02 25.23	0.3
			S	02 29.54	
RSP	0.41	312	P	02 26.87	-0.1
			S	02 33.03	
PZZ	0.56	228	P	02 29.64	-0.4
			S	02 36.82	
ENR	0.68	196	P	02 32.31	0.1
STV	0.69	202	P	02 32.21	0.0
S.D. = 0.4		on	5 of	5 obs.	

? FEB 08, 1991 10h 24m 25.67± 0.82s
26.895 N ±18.1km 44.548 W ±17.3km
DEPTH = 10.0km (geophysicist)
4.4mb (5 obs.)
NORTH ATLANTIC RIDGE (403)

LKO	40.62	108	P	32 08.08	0.5
	0.9s	5.50nm			4.3mb
TUL	44.23	295	ePc	32 37.30	0.4
	1.0s	9.80nm			4.6mb
ZOBO	48.63	211	iPc	33 11.80	-0.7
	1.1s	3.77nm			4.4mb
			eLR	49 40.00	
FFC	49.81	320	iPd	33 21.10	0.7
	0.8s	10.00nm			4.8mb
ALQ	52.99	295	eP	33 46.30	1.2
BW06	54.39	305	iP	33 55.00	-0.3
YKA	57.32	329	eP	34 14.20	-1.6
	1.0s	3.10nm			4.3mb
INK	64.94	336	eP	35 07.00	-0.2
S.D. = 1.1		on	8 of	8 obs.	

• FEB 08, 1991 11h 31m 40.28± 1.99s
10.883 N ±21.1km 86.506 W ±14.7km
DEPTH = 41.7 ± 23.2 km
4.1mb (6 obs.)
OFF COAST OF COSTA RICA (77)

DVD	4.68	121	eP	32 49.50	-0.8
PPM	14.25	306	(P)	35 02.50	0.5
SDV	15.76	96	eP	35 21.40	0.1
TOV	16.48	92	eP	35 31.30	1.0
MEO	26.22	337	e(P)	37 11.50	-1.7
TUL	26.30	343	eP	37 10.30	-3.6X
	1.0s	9.60nm			4.3mb
			e	37 19.40	
ANMO	30.07	326	eP	37 48.20	0.0
	1.0s	2.25nm			3.9mb
PLM	35.70	314	eP	38 37.90	0.8
RSSD	36.42	339	eP	38 43.90	0.9
	1.0s	5.42nm			4.4mb
SIV	36.70	136	P	38 45.40	0.0
BW06	37.59	332	eP	38 51.60	-1.3
	1.0s	3.25nm			4.2mb
TNP	38.59	320	eP	39 01.80	0.4
	1.1s	1.30nm			3.7mb
PNT	47.14	331	eP	40 17.00	6.7X
YKA	55.36	345	eP	41 08.30	-3.9X
	0.9s	1.30nm			4.0mb
INK	64.97	343	eP	42 15.00	-2.7X
WRA	139.70	252	PKP	51 19.00	12.7X
	1.1s	0.90nm			
GBA	150.92	34	PKP	51 30.00	5.0X
S.D. = 1.1		on	11 of	17 obs.	

? FEB 08, 1991 12h 59m 43.68± 3.62s
42.208 N ±12.0km 25.933 E ±34.0km
DEPTH = 10.0km (geophysicist)
BULGARIA (359)

DIM	0.34	242	iPd	59 50.00	-0.6
KDZ	0.68	215	iPg	59 57.00	-0.1
RZN	1.05	241	iPg	00 03.00	-0.5
PVL	1.10	337	eP	00 04.00	-0.3
MMB	1.76	250	e(P)	00 16.00	1.6
S.D. = 1.3		on	5 of	5 obs.	

? FEB 08, 1991 13h 01m 13.98±15.41s
24.765 N ±36.1km 123.422 E ±126.km
DEPTH = 70.0km (geophysicist)
SOUTHWESTERN RYUKYU ISLANDS (246)

TWC	1.44	264	iPc	01 39.60	1.1
TWZ	1.71	282	iPc	01 41.80	-0.4
TWD	1.80	248	ePc	01 44.20	0.8
TWF1	2.40	235	iPd	01 52.10	0.3
TWO	2.41	259	iPc	01 51.00	-0.9
			eS	02 21.40	
TWG	2.90	229	ePd	01 58.50	-0.2
TWK	3.07	242	ePc	02 00.40	-0.8
S.D. = 0.9		on	7 of	7 obs.	

• FEB 08, 1991 13h 50m 44.38± 1.28s
35.754 N ±23.5km 23.649 E ±24.0km
DEPTH = 72.1 ± 9.0 km
4.0mb (3 obs.)
CRETE (370)
MD 3.7 (ATH).

VAM	0.57	127	ePn	50 57.70	-0.5
VLI	1.12	329	ePb	51 05.50	0.7
NPS	1.68	106	ePn	51 14.20	2.0X
ITM	1.99	316	ePn	51 17.00	0.5
EVR	3.48	336	ePn	51 38.50	1.1
NEO	3.56	355	ePn	51 41.00	2.6X
KZN	4.78	342	ePn	51 54.50	-1.1
OHR	5.80	338	ePn	52 08.50	-1.3
HFS	25.23	348	eP	56 05.20	0.4
	0.4s	2.10nm			4.0mb
GKN	51.65	80	P	59 46.40	0.3
DMN	52.19	81	P	59 50.78	0.5
	0.4s	5.00nm			4.8mb
PKI	52.45	81	P	59 52.42	0.1
GUN	52.68	80	P	59 54.30	0.2
YKA	76.50	341	eP	02 26.60	-1.1
	0.6s	0.40nm			3.5mb
S.D. = 0.9		on	12 of	14 obs.	

• FEB 08, 1991 14h 17m 25.41± 1.42s
14.027 S ±13.8km 75.823 W ±15.0km
DEPTH = 62.5 ± 12.7 km
4.7mb (9 obs.)
NEAR COAST OF PERU (115)

PT10	2.24	330	iPd	18 01.20	0.4
			iS	18 31.00	
NNA	2.26	334	iPc	18 01.00	-0.1
	0.6s	320.00nm			
			e	18 06.50	
			eS	18 34.00	
ARE	4.83	121	eP	18 36.00	-1.6
			iS	19 32.00	
ZOBO	7.76	108	Pc	19 20.50	1.8
Z	22s	0.45um			
			S	20 51.00	
			LR	21 22.00	
LPB	7.86	109	P	19 22.00	2.1
			(S)	21 09.00	
			eLR	22 50.00	
CNCB	8.05	111	iPd	19 24.20	1.5
			S	21 03.00	
VC1	13.54	349	P	20 42.00	5.2X
OTO	13.99	349	P	20 49.30	6.8X
GGP	14.03	348	P	20 50.00	6.7X
YANA	14.09	349	P	20 50.00	6.1X
CAYA	14.18	351	eP	20 44.00	-1.1
SIV	14.38	100	P	20 44.80	-2.5
COTA	14.48	350	eP	20 55.00	5.9X
RFA	21.70	163	ePc	22 11.20	-1.7
SDV	23.34	13	eP	22 27.50	-1.7
TOV	24.40	15	eP	22 44.50	5.1X
PDCR	35.73	92	(P)	24 14.00	-6.3X
TUL	53.14	340	ePc	26 38.40	-0.6
	0.8s	8.40nm			4.8mb
			i	26 50.40	
ALQ	56.72	330	e(P)	27 05.00	-0.3
	1.1s	8.54nm			4.7mb
GOL	60.12	334	e(P)	27 29.20	0.2
	1.0s	5.50nm			4.6mb
			e	27 40.10	
RSSD	63.33	338	e(P)	27 50.70	0.3
	1.5s	20.16nm			4.9mb
			e	28 02.50	
TNP	64.75	325	e(P)	28 00.50	0.8
	0.6s	3.70nm			4.5mb
SES	71.19	337	eP	28 52.00	12.5X
KIC	73.37	79	P	28 53.20	0.2
PNT	73.96	332	eP	28 58.00	2.2
	0.6s	4.00nm			4.5mb
SPA	76.06	180	iPc	29 07.40	-0.4
	1.0s	10.00nm			4.7mb
FRB	77.73	3	eP	29 16.00	-0.7
YKA	82.07	343	eP	29 39.80	-0.2
	0.6s	0.80nm			3.9mb
INK	91.76	342	eP	30 40.00	13.0X
MBC	93.75	350	eP	30 38.00	2.0
	1.0s	6.00nm			5.0mb
			pP	30 50.50	41kmX
WRA	135.05	222	PKP	36 39.00	-1.1X
	0.6s	3.30nm			
BJI	152.03	340	ePKP	37 15.50	7.1X
			e	37 28.50	
S.D. = 1.5		on	21 of	32 obs.	

& FEB 08, 1991 16h 02m 21.93s
62.930 N 150.467 W
DEPTH = 104.5km
2.9mb (1 obs.)
CENTRAL ALASKA (1)
<AEIC>.

HUR	0.38	82	iP	02 37.36	-0.3
			eS	02 48.72	
TRF	0.53	9	iP	02 38.51	-0.3
			eS	02 51.24	
CUT	0.54	170	iP	02 38.57	-0.1
RND	0.87	56	iP	02 41.42	-0.3
			eS	02 55.47	
MCK	1.06	40	eP	02 43.23	-0.4
SKT	1.07	208	iP	02 43.44	-0.4
			eS	02 59.74	
PWA	1.31	168	iP	02 46.46	0.0
BWN	1.32	19	iP	02 46.53	-0.1
GHO	1.37	148	iP	02 47.19	-0.1
			eS	03 06.56	
PLRM	1.48	154	iP	02 47.83	-0.7
			iS	03 08.10	
PMR	1.48	154	iPd	02 48.40	-0.1
NCG	1.73	208	iP	02 51.09	-0.7
			S	03 14.16	
PMS	1.74	165	eP	02 51.28	-0.6
			eS	03 13.58	
NEA	1.77	20	iP	02 51.24	-0.9
			eS	03 12.62	
KNK	1.79	147	iP	02 51.81	-0.7
			eS	03 14.55	
WRH	1.87	33	iP	02 52.67	-0.9
			S	03 16.72	
BGL	1.90	209	eP	02 53.75	-0.3
SPU	1.91	204	iP	02 53.40	-0.6
CKL	1.95	208	iP	02 54.14	-0.5
CCB	2.09	33	iP	02 55.25	-1.1
HDA	2.16	45	eP	02 56.14	-1.1
TOA	2.16	111	eP	02 58.50	1.2
THY	2.19	75	eP	02 58.61	0 8
			eS	03 25.58	
MDM	2.26	25	iP	02 57.77	-0.9
PAX	2.29	87	eP	02 58.48	-0.5
			eS	03 25.89	
SDG	2.30	98	eP	02 59.06	-0.1
			eS	03 27.89	
FBA	2.30	30	iPd	02 58.80	-0.4

		eS	56	59.10	
VAY	0.72	331 iPg	56	47.70	-0.3
		iSg	56	58.70	
PAIG	0.90	147 ePc	56	50.34	-0.8
		eS	57	03.02	
MMB	1.04	30 iPgc	56	53.00	-0.4
KKB	1.18	2 ePg	56	56.00	0.2
RZN	1.61	51 iPc	57	03.00	0.4
PLD	1.89	41 eP	57	10.00	3.6X
KDZ	2.04	61 iP	57	09.00	0.5
PGB	2.04	24 eP	57	11.00	2.3

S.D. = 1.1 on 12 of 13 obs.

FEB 08, 1991 04h 26m 56.13± 0.43s
37.084 N ± 4.1km 29.432 E ± 4.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.7 (ISK).

ELL	0.51	131 iPg	27	05.90	-0.6
		eSg	27	14.50	
YER	0.92	274 iPn	27	12.90	-0.9
KSL	0.97	173 eP	27	14.50	-0.1
BCK	1.00	67 iPn	27	15.30	0.2
CIN	1.19	296 ePg	27	18.00	-0.3
		iSg	27	33.00	
KHL	1.24	3 iPn	27	19.10	-0.1
ARG	1.36	231 eP	27	21.00	-0.1
		eS	27	43.80	
ALT	2.04	15 ePn	27	31.10	0.1
SMG	2.16	288 eP	27	32.50	-0.1
KAP	2.38	231 eP	27	37.00	1.2
DST	2.60	346 ePn	27	39.30	0.4
NPS	3.58	241 eP	27	53.10	0.2

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

& FEB 08, 1991 04h 38m 56.65s
40.368 N 124.292 W
DEPTH = 27.4km
NEAR COAST OF NORTHERN CALIF. (35)
<GM>. MD 2.9 (GM).

FHC	0.49	28 eP	39	06.40	-0.5
LBFM	2.07	61 eP	39	29.30	-1.1
ORV	2.29	110 eP	39	32.00	-1.4
ARN	3.70	144 eP	39	51.30	-2.2

4 obs. associated

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* FEB 08, 1991 04h 42m 39.34± 1.08s
35.553 N ±14.6km 26.765 E ± 6.7km
DEPTH = 10.0km (geophysicist)
CRETE (370)
MD 3.7 (ATH).

KAP	0.33	90 ePb	42	45.90	-0.4
		eSb	42	52.00	
NPS	0.98	253 ePn	42	56.60	-1.4
		eSn	43	11.50	
ARG	1.29	59 ePb	43	03.50	0.3
APE	1.81	327 ePn	43	09.90	-0.9
YER	2.00	37 iPn	43	13.40	-0.2
VAM	2.10	267 ePb	43	17.60	2.6
CIN	2.30	27 eP	43	19.00	1.1
VLI	3.31	292 ePn	43	30.40	-1.8
KHL	3.54	38 ePn	43	35.00	-0.5
ITM	4.23	294 ePn	43	46.50	1.2

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

FEB 08, 1991 05h 08m 48.22± 0.56s
38.718 N ± 5.3km 26.651 E ± 6.1km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
MD 3.6 (ATH), 3.4 (ISK).

PRK	0.60	331 iPgc	09	00.50	0.1
		eSb	09	09.50	
SMG	1.02	172 ePb	09	07.40	-0.1
EZN	1.13	347 ePg	09	10.20	0.8
		eSg	09	25.20	
CIN	1.59	134 eP	09	16.00	-0.4
DST	1.77	59 ePn	09	19.00	-0.2
EDC	1.88	30 ePn	09	20.00	-0.6
BNT	1.91	31 ePn	09	20.60	-0.5
YER	2.04	140 ePn	09	27.90	4.8X
ALN	2.23	348 ePc	09	29.78	4.1X
		eS	09	52.26	
KHL	2.29	99 ePn	09	27.80	1.1
KNT	3.78	311 ePc	09	47.66	-0.1
GRG	3.96	306 ePc	09	50.26	-0.1

S.D. = 0.6 on 10 of 12 obs.

? FEB 08, 1991 05h 11m 52.45± 2.09s
51.596 N ±26.2km 173.884 E ±22.3km
DEPTH = 33.0km (normal)
3.9mb (2 obs.)
NEAR ISLANDS, ALEUTIAN ISLANDS (5)

SMY	1.15	7 eP	12	12.20	0.0
IMA	21.82	36 eP	16	42.70	-0.7
FBA	23.70	41 eP	17	02.50	0.9
YKA	38.36	45 eP	19	11.30	-0.3
	0.9s	0.80nm			3.5mb
NUR	65.54	344 eP	22	34.00	-0.3
NB2	66.86	351 P	22	43.10	0.3
	0.7s	1.60nm			4.2mb

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

FEB 08, 1991 05h 29m 21.06± 3.68s
35.235 N ±44.7km 26.886 E ±18.8km
DEPTH = 10.0km (geophysicist)
CRETE (370)
MD 3.2 (ATH).

KAP	0.39	37 ePg	29	28.60	-0.5
		eSg	29	35.00	
NPS	1.04	272 ePg	29	40.20	-0.5
		eSg	29	55.00	
ARG	1.41	46 ePb	29	47.10	0.4
VAM	2.20	275 ePg	30	03.50	5.3X
VLI	3.53	296 ePn	30	17.60	0.6

S.D. = 1.0 on 4 of 5 obs.

? FEB 08, 1991 06h 13m 42.88± 7.53s
40.557 N ±81.1km 27.271 E ±15.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.0 (ISK).

EDC	0.50	115 iPg	13	52.80	-0.2
		eSg	14	00.00	
BNT	0.53	112 iPg	13	53.50	-0.2
		iSg	14	01.00	
KCT	0.88	110 iPg	14	00.00	0.1
		eSg	14	12.00	
EZN	1.03	225 iPn	14	02.20	-0.1
DST	1.41	132 ePn	14	08.90	0.3

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

? FEB 08, 1991 07h 06m 40.58± 4.99s
35.982 S ±43.1km 70.770 W ±35.4km
DEPTH = 33.0km (normal)
4.1mb (1 obs.)
CHILE-ARGENTINA BORDER REGION (127)

LNV	2.09	345 iPd	07	13.50	-0.4
		iS	07	31.50	
TACH	2.33	357 iPd	07	16.00	-1.4
		iS	07	38.60	
PCH	2.37	5 iPc	07	16.60	-1.4
		iS	07	40.00	
SAN	2.52	2 iPc	07	20.50	0.3
LCCH	2.59	345 iPc	07	21.00	0.0
		iS	07	46.50	
PEL	2.83	1 iP	07	25.00	0.5
		iS	07	53.00	
ROCH	3.01	356 eP	07	27.80	0.5
		i	07	59.50	
IHA	3.04	346 eP	07	28.50	1.1
		iS	08	02.80	
JACH	3.30	3 iPd	07	32.00	0.8
		i	08	08.00	
CNCB	19.26	8 P	11	08.00	2.2
LPB	19.52	8 eP	11	08.00	-0.6
	1.0s	10.00nm			4.1mb
ZOBO	19.77	8 P	11	09.50	-2.0
	Z 22s	0.08um			
		LR	17	50.00	
SIV	21.71	26 P	11	31.50	0.7

S.D. = 1.3 on 13 of 13 obs.

& FEB 08, 1991 07h 29m 33.68s
61.276 N 146.887 W
DEPTH = 24.3km
SOUTHERN ALASKA (2)
<AEIC>.

VZW	0.27	143 iP	29	40.17	-0.1
		eS	29	45.74	
VLZ	0.31	118 iP	29	40.38	-0.3
		eS	29	46.02	
GLI	0.41	194 iP	29	41.70	-0.7
		eS	29	48.49	
KLU	0.51	65 iP	29	43.25	-0.9
		eS	29	50.41	
KNK	0.77	281 iP	29	47.11	-1.2
		eS	29	57.66	
TOA	0.90	22 iPd	29	50.30	-0.3
KNIM	1.02	204 iP	29	50.68	-1.7
TZL	1.04	42 eP	29	51.82	-0.9
GHO	1.10	298 iP	29	51.83	-1.8
		eS	30	06.52	
PLRM	1.12	287 iP	29	52.26	-1.6
		eS	30	07.02	
PMR	1.12	287 iPc	29	52.80	-1.1
PMS	1.29	270 iP	29	55.16	-1.2
		eS	30	11.58	
MTU	1.35	197 eP	29	56.33	-0.7
SDG	1.41	26 eP	29	57.06	-0.9
		eS	30	14.75	
PWA	1.48	286 iP	29	57.87	-1.1
GLB	1.49	82 iP	29	57.99	-1.2
		eS	30	17.14	
SEW	1.72	228 eP	30	01.34	-1.1
SLKM	1.80	246 iP	30	02.57	-1.1
PAX	1.83	21 eP	30	03.41	-0.7
		eS	30	26.91	
SUA	1.87	277 eP	30	03.45	-1.2
CUT	1.96	307 iP	30	05.28	-0.7
TGL	2.04	103 eP	30	06.42	-0.8
HUR	2.14	324 eP	30	07.89	-0.7
NKA	2.19	258 eP	30	09.44	0.3
BALM	2.22	94 iP	30	08.46	-1.2
		eS	30	35.77	
RND	2.33	338 eP	30	10.58	-0.6
SKT	2.33	290 eP	30	09.63	-1.5
NNL	2.50	242 eP	30	12.87	-0.8
SPU	2.50	270 iP	30	11.91	-1.8
NCG	2.54	275 eP	30	12.65	-1.7
CKL	2.64	271 eP	30	13.67	-2.0
MCK	2.64	340 eP	30	15.21	-0.5
BGL	2.66	272 eP	30	14.33	-1.7
TRF	2.70	326 eP	30	15.49	-1.1
CTGM	2.71	94 eP	30	15.82	-1.0
CNPM	2.78	233 eP	30	15.78	-1.9
RDT	2.79	258 iP	30	15.61	-2.1
REF	2.95	257 eP	30	18.22	-1.9
RDN	2.97	258 eP	30	18.08	-2.3
RSO	2.98	257 eP	30	18.51	-2.1
RS2	2.98	257 eP	30	19.11	-1.6
NCT	3.04	259 eP	30	19.17	-2.2
BWN	3 14	339 eP	30	21.35	-1.4
HDA	3.14	359 eP	30	23.06	0.3
WRH	3.25	351 eP	30	23.31	-1.0
CCB	3.41	353 eP	30	24.44	-2.1
NEA	3.46	344 eP	30	25.48	-1.8
OPT	3.54	245 eP	30	27.01	-1.4
FBA	3.66	354 eP	30	30.80	0.7
GLM	3.73	357 eP	30	29.30	-1.9
MDM	3.75	351 eP	30	29.56	-1.8
CDD	4.12	238 eP	30	34.73	-1.9
TTA	4.60	295 eP	30	40.60	-2.9

53 obs. associated

& FEB 08, 1991 07h 33m 30.08s
39.497 N 122.940 W
DEPTH = 3.9km
NORTHERN CALIFORNIA (36)
<GM>. MD 3.0 (GM).

LTCM	0.95	41 eP	33	48.00	-0.7
NWRM	1.04	178 eP	33	48.50	-1.7
ORV	1.12	87 eP	33	49.30	-2.3
FHC	1.53	329 eP	34	01.00	2.7
LBFM	2.01	23 eP	34	05.50	0.1
CMB	2.47	125 eP	34	10.00	-1.9
KVN	3.78	95 eP	34	29.00	-1.7

7 obs. associated

? FEB 08, 1991 09h 37m 55.95± 8.96s
8.741 S ±77.9km 128.085 E ±16.8km
DEPTH = 133.9 ± 48.5 km

SLKM	2.43	177	eP	03	00.32	-0.6
GLM	2.47	32	eP	03	00.42	-1.0
TZL	2.50	109	eP	03	02.77	0.9
TTA	2.54	272	iPc	03	02.10	-0.2
RDT	2.54	202	iP	03	01.29	-1.1
KLU	2.57	122	eP	03	01.25	-1.6
GLI	2.60	141	eP	03	01.56	-1.6
VZW	2.63	134	eP	03	01.84	-1.8
			iS	03	33.18	
NCT	2.65	207	eP	03	03.27	-0.6
VLZ	2.66	131	eP	03	01.85	-2.0
RDN	2.66	205	eP	03	03.10	-1.0
REF	2.67	204	eP	03	03.56	-0.7
RS2	2.71	205	eP	03	04.38	-0.4
RSO	2.71	205	eP	03	04.31	-0.4
SEW	2.88	170	eP	03	05.56	-1.3
KNIM	2.90	152	eP	03	04.90	-2.3
NNL	2.93	188	eP	03	08.32	0.8
DOT	2.98	73	eP	03	07.26	-1.0
SVW	3.04	235	iPd	03	08.80	-0.3
BRLK	3.18	184	eP	03	10.12	-0.9
MTU	3.25	154	eP	03	10.09	-1.8
HOM	3.33	190	iP	03	13.16	0.1
TMW	3.42	80	eP	03	12.59	-1.6
CNPM	3.44	187	eP	03	13.39	-1.1
IMA	3.44	338	iPd	03	13.90	-0.8
GLB	3.46	113	iP	03	13.43	-1.4
XLV	3.54	190	eP	03	14.77	-1.1
OPT	3.55	203	eP	03	16.33	0.3
MCNL	4.20	208	eP	03	24.60	-0.3
TGL	4.23	118	eP	03	23.40	-2.0
BALM*	4.28	113	eP	03	23.94	-2.1
CDD	4.30	203	eP	03	25.52	-0.8
SYI	4.44	193	eP	03	26.88	-1.2
INK	8.82	45	eP	04	27.00	-1.1
YKA	16.32	75	eP	06	03.30	-2.5
	0.7s		0.50nm			2.9mb
	62 obs. associated					

FEB 08, 1991 16h 26m 01.86± 0.37s
32.647 N ± 4.3km 137.695 E ± 4.2km
DEPTH = 362.1 ± 3.2 km
4.9mb (30 obs.)
SOUTH OF HONSHU, JAPAN (211)

WKYJ	2.36	312	iP+	26	58.10	0.8
			S	27	42.00	
IIDJ	2.83	4	iP+	27	01.00	-0.1
			S	27	47.10	
TSRJ	3.21	334	iP+	27	05.10	0.7
			eS	27	55.40	
TKSJ	3.33	295	iP+	27	06.70	1.2
			S	27	57.40	
CHJJ	3.56	17	iP+	27	06.80	-0.9
			S	27	56.50	
MAT	3.91	6	iPc	27	10.40	-0.7
			iS	28	03.00	
MTMJ	3.93	1	iP+	27	11.00	-0.4
KAKJ	4.10	29	P	27	09.60	-3.4X
			S	28	02.60	
SHK	4.59	296	iPc	27	18.70	0.6
	0.8s	567.16nm				
MDJ	13.51	334	eP	29	00.00	-2.3
SSE	14.12	268	Pd	29	07.40	-1.4
	0.8s	100.00nm			5.3mb	
			pP	29	11.50	
SNY	14.49	313	iPd	29	12.20	-0.5
	1.2s	50.00nm			4.8mb	
CN2	14.70	323	eP	29	13.80	-1.2
Z	12s	0.40um				
			eS	31	44.00	
NJ2	15.94	273	Pc	29	28.00	-0.2
TIA	17.34	288	eP	29	41.70	-0.9
BJI	18.81	299	eP	29	57.50	0.2
	1.5s	97.00nm			4.9mb	
			eS	33	13.50	
WHN	19.99	270	iPc	30	10.50	1.6
	1.0s	60.00nm			4.9mb	
PJG	20.07	159	eP	30	10.80	1.0
GUA	20.13	159	eP	30	10.20	-0.2
	0.8s	155.22nm			5.4mb	
TIY	21.23	291	Pc	30	21.40	0.4
	1.0s	60.00nm			4.9mb	
HHC	22.42	299	iPd	30	33.00	0.7
	1.2s	100.00nm			5.0mb	
BTO	23.52	298	P	30	43.00	0.6
XAN	24.05	281	P	30	46.60	-0.6
LZH	28.07	286	eP	31	22.50	-0.9
CD2	28.83	276	iPc	31	29.60	-0.5
GTA	31.20	293	Pd	31	50.00	-0.7
	1.0s	20.00nm			4.4mb	
AAI	37.24	196	e(P)	32	42.00	0.4
CHG	37.31	258	eP	32	43.00	0.7
LSA	39.69	279	iP	33	02.80	0.5
WMQ	40.27	301	iPc	33	08.00	1.6
	1.2s	60.00nm			4.7mb	
			eS	38	48.50	
GUN	44.64	278	P	33	42.80	0.9
PKI	45.15	278	P	33	46.20	0.3
KKN	45.18	278	P	33	46.40	0.4
DMN	45.39	278	P	33	48.00	0.3
GKN	45.65	279	P	33	49.80	0.2
MTN	45.67	189	eP	33	48.40	-1.1
NDI	51.57	283	iPd	34	34.00	-0.2
BRW	51.63	22	ePd	34	35.40	1.3
IMA	52.00	29	ePc	34	37.90	0.8
	0.7s	3.60nm			3.8mb X	
PMR	53.96	34	ePc	34	51.10	-0.1
FBA	54.43	30	ePd	34	55.90	1.3
	0.6s	11.20nm			4.4mb	
HYB	55.05	269	eP	34	59.50	-0.2
	0.6s	46.70nm			5.1mb	
ASPA	56.11	184	iPc	35	05.70	-1.2
	0.5s	24.60nm			4.9mb	
MBL	56.16	200	eP	35	06.00	-1.2
GBA	57.83	266	Pd	35	17.80	-1.2
	0.9s	26.40nm			4.7mb	
POO	58.50	273	eP	35	18.50	-5.2X
QUE	59.37	288	iPd	35	29.60	0.1
KOD	59.53	262	eP	35	31.10	0.1
INK	59.67	26	ePd	35	29.80	-1.0
DZM	60.95	149	iPc	35	40.00	0.0
MBC	61.57	15	ePd	35	43.40	0.0
	0.5s	13.00nm			4.7mb	
KEV	66.45	339	eP	36	14.00	-0.7
SOD	67.81	337	iP	36	22.70	-0.4
DAG	69.86	354	iPc	36	35.40	0.0
	1.0s	27.00nm			4.9mb	
KAF	70.78	332	eP	36	40.80	-0.3
	0.6s	15.30nm			4.9mb	
NUR	72.35	331	iP	36	50.10	-0.2
	0.3s	5.30nm			4.7mb	
UPP	75.51	333	iP	37	07.80	-0.4
HFS	76.78	335	eP	37	14.90	-0.4
	0.6s	17.20nm			5.0mb	
NB2	77.00	336	P	37	16.50	-0.1
	0.9s	23.50nm			5.0mb	
KRA	80.95	325	ePd	37	38.10	0.4
	1.0s	37.00nm			5.1mb	
FRB	81.70	11	eP	37	42.00	0.7
KSP	82.15	327	eP	37	44.00	0.1
	1.1s	36.00nm			5.1mb	
			id	37	45.20	
CLL	83.31	329	iPd	37	34.30	-15.3X
PRU	83.56	327	Pd	37	51.70	0.8
	1.2s	16.50nm			4.7mb	
ZST	83.58	325	e(P)	37	52.00	0.9
KHC	84.61	327	eP	37	57.50	1.2
CDF	87.94	329	eP	38	13.00	0.5
BSF	88.60	329	eP	38	15.10	-0.5
LOR	90.27	331	eP	38	22.80	-0.4
	1.1s	12.20nm			4.7mb	
LPL	90.41	328	eP	38	23.90	-0.2
	1.1s	11.00nm			4.7mb	
LPG	90.41	328	eP	38	24.10	-0.2
	1.1s	17.10nm			4.9mb	
LBF	90.45	330	eP	38	23.60	-0.5
	1.1s	14.65nm			4.8mb	
SSF	90.59	331	eP	38	24.60	0.0
AVF	90.86	331	eP	38	25.80	-0.1
	1.1s	14.65nm			4.8mb	
MAF	91.65	331	eP	38	29.90	0.3
	1.2s	20.85nm			5.0mb	
TCF	91.74	331	eP	38	30.10	0.1
	0.7s	3.85nm			4.5mb	
LSF	92.05	331	eP	38	31.50	0.1
	0.9s	16.40nm			5.0mb	
ZOBO	151.51	61	iPKPc	45	17.10	7.9X
Z	21s	0.25um			5.0Msz	
			eLR	31	50.00	
S.D. = 0.8 on 74 of 78 obs.						

FEB 08, 1991 17h 03m 44.79± 1.01s
36.245 N ± 9.0km 25.283 E ±12.5km
DEPTH = 33.0km (normal)
DODECANESE ISLANDS (369)
ML 2.4 (TTG).

APE	0.85	14	eP	04	00.50	0.2
NPS	1.02	165	eP	04	02.50	-0.3
VAM	1.21	227	eP	04	06.00	0.5
VLI	1.95	285	eP	04	15.80	-0.4
S.D. = 0.7 on 4 of 4 obs.						

FEB 08, 1991 17h 22m 30.63± 0.77s
40.870 N ± 6.6km 23.645 E ± 5.6km
DEPTH = 10.0km (geophysicist)
GREECE (364)

SRS	0.25	351	ePd	22	35.64	-0.3
			eS	22	38.92	
THE	0.57	246	ePd	22	41.68	-0.5
			eS	22	50.12	
KNT	0.64	298	ePc	22	43.08	-0.3
			eS	22	52.28	
MMB	0.72	5	iPg	22	43.00	-1.8
VAY	0.93	299	ePn	22	48.70	0.3
GRG	0.95	276	ePd	22	49.24	0.6
			eS	23	03.40	
KKB	1.08	337	iPg	22	51.00	0.0
RZN	1.15	44	iP	22	52.00	-0.2
LIT	1.17	229	ePd	22	52.32	-0.2
			eS	23	08.20	
PLD	1.47	32	eP	22	58.00	0.9
KDZ	1.55	59	iP	22	58.00	-0.3
PGB	1.72	13	eP	23	02.00	1.1
			eSg	23	25.00	
VTS	1.75	349	eP	23	02.00	0.6
S.D. = 0.8 on 13 of 13 obs.						

FEB 08, 1991 18h 32m 53.91± 0.44s
44.476 N ± 3.0km 7.293 E ± 4.0km
DEPTH = 14.7 ± 4.3 km
NORTHERN ITALY (545)
ML 2.3 (LDG), 2.1 (GEN).

DOI	0.04	310	Pc	32	58.40	1.5
			eSg	33	00.00	
PZZ	0.14	282	P	32	56.95	-1.0
			S	33	58.70	
STV	0.23	174	P	32	58.80	-0.5
			S	33	01.77	
ENR	0.27	160	P	32	59.29	-0.6
			S	33	02.87	
BHB	0.37	357	P	33	00.74	-0.9
			S	33	06.07	
FOUF	0.37	279	i(Pg)c	33	00.71	-0.9
			e(Sg)	33	04.70	
ROB	0.45	113	P	33	03.11	0.0
			S	33	09.04	
RRL	0.57	321	P	33	04.89	-0.4
			S	33	11.67	
SBF	0.62	170	Pg	33	06.00	0.0
			Sg	33	14.20	
RSP	0.68	358	P	33	06.97	0.0
FIN	0.71	112	P	33	07.59	0.1
			S	33	16.95	
PCP	0.90	85	P	33	10.70	0.0
			S	33	22.47	
LSD	0.99	354	P	33	13.45	1.1
			S	33	23.87	
FRF	1.03	207	Pg	33	13.00	0.1
			Sg	33	26.20	
LPG	1.09	340	Pg	33	14.20	0.0
LRG	1.22	214	Pg	33	17.00	0.8
			Sg	33	32.80	
ORX	1.26	23	P	33	16.73	-0.1
LMR	1.27	207	Pg	33	17.60	0.6
			Sg	33	33.40	
S.D. = 0.7 on 18 of 18 obs.						

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* FEB 08, 1991 18h 34m 25.87± 0.86s
37.058 N ± 9.3km 29.469 E ± 6.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.1 (ISK).

ELL	0.47	131	iPg	34	35.10	-0.3
			iSg	34	42.00	
YER	0.95	275	ePn	34	44.80	0.8
BCK	0.98	65	ePn	34	45.00	0.5

08d 18h

CIN	1.23	297	eP	34 48.00	-0.7
KHL	1.26	2	ePn	34 49.20	-0.2
S.D. = 0.8			on	5 of 5 obs.	

FEB 08, 1991 18h 35m 54.10± 0.42s
43.353 N ± 3.8km 0.735 W ± 4.8km
DEPTH = 10.0km (geophysicist)
PYRENEES (378)
mbLg 3.0 (MDD). MD 2.7 (STR).
Felt (III) at Borcus and Feas, France.

BTH	0.45	121	iPgd	36 02.90	-0.3
			iSg	36 10.00	
			Lg	36 14.00	
EPF	0.85	112	Pg	36 11.00	0.5
			Sg	36 23.00	
MLS	1.39	106	Pg	36 23.35	3.9X
			Sg	36 41.21	
ECRI	1.50	241	ePn	36 22.40	1.3
			eSn	36 39.40	
LFF	1.91	33	Pn	36 28.40	1.4
			Pg	36 34.40	
			Sg	36 59.60	
LPO	1.92	46	Pn	36 28.50	1.3
			Pg	36 34.00	
			Sg	37 00.00	
RJF	2.53	39	Pn	36 36.40	0.5
			Pg	36 45.40	
			Sg	37 18.60	
CAF	2.56	51	Pn	36 37.00	0.7
			Pg	36 45.60	
			Sg	37 18.80	
EBR	2.69	160	(Pn)	36 44.00	5.8X
			(Sg)	37 21.00	
ETOR	2.72	202	ePn	36 37.50	-1.2
			eSn	37 07.00	
ETER	2.84	110	ePn	36 44.80	4.5X
			eSn	37 18.00	
MFF	3.28	7	Pn	36 47.00	0.5
			Pg	36 59.00	
			Sg	37 41.80	
LSF	3.31	28	Pn	36 47.00	-0.1
			Sn	37 26.00	
			Sg	37 43.20	
TCF	3.61	35	Pn	36 51.00	-0.2
			Pg	37 05.20	
			Sn	37 33.20	
			Sg	37 52.00	
MAF	3.71	38	Pn	36 52.00	-0.7
			Pg	37 07.20	
			Sg	37 56.00	
GUD	3.72	224	ePn	36 52.90	0.0
			eSn	37 33.00	
ECHE	3.76	183	ePg	37 03.00	9.5X
			eSg	37 43.00	
BGF	4.09	37	Pn	36 57.60	-0.4
			Pg	37 14.80	
			Sg	38 07.00	
AVF	4.49	39	Pn	37 03.20	-0.5
			Pg	37 21.60	
			Sg	38 20.20	
SMF	4.62	43	Pn	37 05.80	0.2
			Pg	37 24.60	
			Sg	38 23.60	
LPF	4.68	357	Pn	37 06.40	-0.1
			Sn	37 59.00	
SSF	4.77	37	Pn	37 06.70	-1.0
			Sg	38 28.00	
GRR	5.04	359	Pn	37 11.00	-0.4
			Sn	38 08.60	
LOR	5.08	38	Pn	37 12.00	-0.1
			Pg	37 33.00	
LDF	5.26	4	Pn	37 14.60	0.0
FLN	5.41	2	Pn	37 16.40	-0.4
DOU	7.67	27	P	37 47.40	-1.1
S.D. = 0.8			on	23 of 27 obs.	

? FEB 08, 1991 19h 02m 57.36± 1.01s
37.010 N ± 9.9km 29.470 E ± 7.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.1 (ISK).

ELL	0.44	126	iPg	03 06.10	-0.2
			eSg	03 12.70	
YER	0.96	278	ePn	03 15.80	0.2
BCK	1.00	63	ePn	03 16.80	0.4
KHL	1.31	2	ePn	03 21.30	-0.4
S.D. = 0.6			on	4 of 4 obs.	

FEB 08, 1991 19h 07m 23.33± 0.64s
41.075 N ± 5.0km 22.355 E ± 5.5km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.0 (SKO).

GRG	0.12	164	ePd	07 26.82	0.4
			eS	07 28.42	
VAY	0.29	33	iPg	07 29.80	0.3
			iSg	07 34.00	
KNT	0.42	78	ePd	07 31.70	-0.2
			eS	07 37.02	
THE	0.64	134	ePd	07 35.38	-0.8
SRS	0.94	87	ePd	07 40.78	-0.4
			eS	07 53.06	
KKB	0.96	34	iPg	07 42.00	0.4
			iSg	07 55.00	
LIT	0.98	174	ePc	07 42.66	0.7
			eS	07 57.30	
MMB	1.15	63	iPg	07 45.00	0.1
			iSg	08 00.00	
OHR	1.18	272	ePn	07 44.80	-0.5
S.D. = 0.6			on	9 of 9 obs.	

• FEB 08, 1991 19h 12m 26.36± 1.73s
16.563 S ±11.6km 173.548 W ± 9.3km
DEPTH = 89.9 ± 19.4 km
4.4mb (6 obs.)
TONGA ISLANDS (173)

AFI	3.14	33	iPc	13 15.00	0.2
			e	13 43.00	
DZM	19.65	251	iPc	16 50.90	0.1
PUZ	22.61	197	P	17 20.50	0.2
NOZ	23.18	197	P	17 26.60	0.9
WLZ	23.26	202	P	17 25.80	-0.7
TAZ	23.29	200	P	17 28.60	1.8
PMO	24.73	90	iP	17 40.40	-0.4
	1.0s		20.00nm		4.5mb
VAH	24.96	91	iP	17 42.40	-0.6
	1.0s		15.00nm		4.4mb
TPT	25.00	90	iP	17 42.80	-0.6
	1.0s		10.00nm		4.2mb
RUV	25.20	91	iP	17 44.60	-0.6
	1.0s		15.00nm		4.4mb
THZ	27.69	202	P	18 08.80	0.9
KHZ	28.04	201	P	18 10.90	-0.1
LTZ	28.81	202	P	18 17.20	-0.8
WB2	49.44	258	iPd	21 08.20	-1.3
WARB	56.10	249	eP	21 57.70	-1.2
MBL	62.81	254	eP	22 44.00	-1.0
NANU	66.56	252	iPd	23 09.70	0.4
	0.4s		9.00nm		5.1mb
YKA	91.21	23	eP	25 25.00	2.8
	0.9s		0.20nm		3.4mb
PRU	146.02	351	ePKP	32 02.50	6.2X
			e	32 24.50	
KHC	147.00	351	ePKP	32 04.50	6.5X
S.D. = 1.2			on	18 of 20 obs.	

? FEB 08, 1991 19h 57m 08.85± 9.19s
17.031 N ±58.9km 61.810 W ±27.5km
DEPTH = 10.0km (geophysicist)
LEEWARD ISLANDS (92)
ML 2.9 (FDF).

SEG	0.69	155	iPc	57 22.54	0.1
			S	57 24.40	
SFG	0.97	143	ePc	57 27.28	0.0
PAG	1.00	173	iPc	57 28.08	0.2
			S	57 35.70	
DOG	1.01	169	iPc	57 28.11	0.1
			S	57 35.90	
DEG	1.01	135	iPc	57 28.21	0.2
			S	57 36.80	
MGG	1.20	157	ePc	57 30.93	-0.3
BBL	1.53	168	eP	57 36.20	-0.1
			S	57 51.00	
S.D. = 0.2			on	7 of 7 obs.	

? FEB 08, 1991 20h 00m 49.54± 9.75s
17.066 N ±63.1km 61.771 W ±29.3km
DEPTH = 10.0km (geophysicist)

LEEWARD ISLANDS (92)
ML 2.0 (FDF).

SEG	0.71	159	iPc	01 03.63	0.2
			S	01 06.10	
DEG	1.01	138	iP	01 08.70	0.0
PAG	1.03	175	eP	01 09.00	-0.1
			S	01 16.60	
DOG	1.04	172	ePc	01 09.24	0.1
			S	01 16.90	
MGG	1.22	159	iPc	01 12.14	-0.1
BBL	1.56	170	eP	01 17.40	0.0
S.D. = 0.1			on	6 of 6 obs.	

& FEB 08, 1991 21h 15m 29.73s
58.692 N 154.518 W
DEPTH = 104.0km
ALASKA PENINSULA (12)
<AEIC>.

MCNL	0.50	11	iP	15 45.43	-0.8
			eS	15 57.47	
CDD	0.51	62	iP	15 45.46	-0.8
			eS	15 57.80	
BGM	0.79	333	eP	15 47.55	-1.1
AUI	0.86	41	iP	15 48.35	-0.9
			eS	16 03.21	
AUH	0.87	39	eP	15 48.75	-0.7
AUE	0.89	41	eP	15 48.97	-0.6
PDB	1.11	9	eP	15 50.70	-1.3
SYI	1.12	93	eP	15 50.90	-1.1
			eS	16 07.55	
OPT	1.17	34	iP	15 51.75	-0.9
			eS	16 09.14	
XLV	1.63	61	eP	15 56.70	-1.6
			eS	16 17.88	
HOM	1.77	56	eP	15 58.87	-1.1
			eS	16 20.85	
CNPM	1.89	62	eP	15 59.58	-1.9
			eS	16 22.83	
RED	1.95	26	iP	16 00.90	-1.5
RS2	1.99	26	iP	16 01.62	-1.4
RSO	1.99	26	iP	16 01.60	-1.4
REF	2.03	26	iP	16 01.98	-1.5
			eS	16 26.71	
RDN	2.03	25	iP	16 02.14	-1.4
NCT	2.04	23	iP	16 02.11	-1.5
NNL	2.13	49	eP	16 03.51	-1.2
BRLK	2.15	59	eP	16 02.69	-2.3
			eS	16 27.19	
RDT	2.17	29	eP	16 03.31	-2.0
SVW	2.49	348	iPd	16 08.20	-1.3
NKA	2.64	38	eP	16 10.92	-0.6
CKL	2.74	23	iP	16 11.16	-1.8
SPU	2.79	25	eP	16 11.26	-2.3
BGL	2.79	22	eP	16 12.02	-1.6
SLKM	2.84	48	eP	16 11.36	-2.9
SEW	2.95	59	eP	16 13.30	-2.3
SUA	3.36	33	eP	16 18.78	-2.6
PMS	3.57	42	eP	16 21.19	-3.0
SKT	3.62	23	eP	16 22.23	-2.5
MTU	3.75	67	eP	16 23.83	-2.7
PWA	3.77	36	eP	16 24.25	-2.5
KNIM	3.83	61	eP	16 24.06	-3.6
PLRM	3.96	41	eP	16 26.19	-3.2
PMR	3.96	40	iPd	16 26.80	-2.6
KNK	4.08	46	eP	16 27.28	-3.9
GHO	4.16	40	eP	16 28.27	-4.0
CUT	4.27	28	eP	16 30.[illegible]	-3.1
TTA	4.32	351	ePd	16 32.[illegible]	-1.9
GLI	4.35	57	iP	16 30.[illegible]	-4.6
VZW	4.66	56	eP	16 34.97	-4.1
SCM	4.77	46	eP	16 36.78	-3.8
VLZ	4.79	56	eP	16 36.83	-3.9
KLU	5.14	53	eP	16 41.53	-4.2
TRF	5.20	21	eP	16 43.71	-2.9
TOA	5.37	47	ePc	16 45.70	-3.2
RND	5.47	28	eP	16 46.67	-3.6
FBA	6.99	24	eP	17 06.60	-4.5
49 abs. associated					

FEB 08, 1991 21h 27m 50.33± 0.46s
46.560 N ± 4.6km 12.907 E ± 4.3km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.9 (VKA). MD 2.8 (TRI).

FVI	0.09	291	Pd	27	53.90	1.0
			eSg	27	55.70	
KBA	0.60	30	iPgc	28	02.10	-0.5
			iSg	28	10.40	
VVI	0.67	210	Pd	28	03.00	-0.6
			eSg	28	13.20	
VOY	0.86	127	iPgd	28	04.30	-2.7X
			e	28	10.70	
			eSg	28	20.50	
SCE	0.95	301	iPgd	28	07.40	-1.2
CTI	1.01	240	Pc	28	10.10	0.6
			eSg	28	25.00	
TRI	1.04	145	ePgc	28	10.70	0.8
			iSg	28	25.50	
BHG	1.16	359	iPgd	28	13.10	1.0
LJU	1.24	114	e(Pn)	28	12.50	-0.9
			e	28	13.50	
			eSn	28	31.10	
OGA	1.33	284	iPnd	28	13.90	-1.1
CEY	1.34	127	e(Pn)	28	13.00	-2.0
			e	28	15.40	
			eSn	28	34.50	
SOTA	1.34	300	iPgc	28	14.50	-0.6
			iSg	28	31.90	
RIY	1.59	139	iPnc	28	18.60	0.0
			iSn	28	40.40	
OSS	1.91	275	ePd	28	24.30	0.9
SAL	1.91	241	P	28	25.70	2.5X
VBY	1.95	122	ePn	28	24.20	0.4
			iSn	28	51.20	
FUR	1.95	326	iPc	28	27.40	3.6X
PTJ	2.22	106	e(Pn)	28	31.30	3.5X
			iSn	29	03.00	
MDI	2.35	252	P	28	31.50	1.9
VDL	2.37	269	ePc	28	32.00	1.9
SAX	2.54	287	ePc	28	34.70	2.2
KHC	2.61	10	Pn	28	34.00	0.7
			e	28	44.00	
			Sn	29	14.80	
			Sg	29	24.80	
LLS	2.71	278	ePd	28	36.80	1.9
SFI	2.74	196	P	28	35.80	0.7
VKA	2.88	52	ePg	28	40.50	3.4X
			iSg	29	16.80	
VAI	2.95	258	P	28	40.00	1.9
CRE	3.01	193	P	28	40.10	1.1
ARV	3.06	180	P	28	40.40	0.7
			eSn	29	16.10	
ZLA	3.22	288	ePc	28	43.20	1.2
SLE	3.24	293	ePc	28	42.90	0.6
ZST	3.29	59	eP	28	56.00	13.1X
PII	3.30	212	P	28	44.00	0.9
GRF	3.33	341	ePn	28	53.60	10.1X
			e(Pg)	28	59.70	
			eSn	29	25.00	
			eSg	29	39.30	
MMK	3.46	263	ePc	28	48.60	3.0X
FEL	3.59	293	eP	28	47.62	0.4
PRU	3.60	17	eP	28	54.50	7.2X
	1.0s		49.10nm			
			Pg	28	58.00	
			e	29	25.90	
			Sg	29	45.00	
CKI	3.89	238	P	28	52.20	0.8
EMS	4.17	265	ePd	28	56.80	1.2
MOX	4.18	349	ePn	28	56.00	0.5
			eSn	29	46.00	
			eSg	30	02.00	
CDF	4.24	298	Pn	28	56.30	-0.2
BSF	4.36	289	Pn	28	58.00	-0.2
			Sn	29	50.00	
LPG	4.42	258	Pn	28	57.00	-2.2
LPL	4.42	259	Pn	28	57.10	-2.1
HAU	4.69	290	Pn	29	02.50	-0.4
			Sn	29	58.20	
SBF	4.71	237	Pn	29	00.80	-2.4
			Sn	29	54.00	
KSP	4.84	26	eP	29	25.00	20.1X
			eS	30	21.00	
LRG	5.58	239	Pn	29	11.50	-3.9X
LBF	6.15	277	Pn	29	21.30	-2.1
LOR	6.24	280	Pn	29	22.60	-2.1
SMF	6.25	274	Pn	29	23.40	-1.4
AVF	6.58	275	Pn	29	28.30	-1.1
BGF	6.94	274	Pn	29	32.40	-2.1
			Sn	30	51.00	

S.D. = 1.4 on 41 of 52 obs.

? FEB 08, 1991 21h 28m 30.63± 2.95s
52.579 N ±57.1km 167.883 W ±31.0km
DEPTH = 33.0km (normol)
4.8mb (4 obs.)
FOX ISLANDS, ALEUTIAN ISLANDS (9)

TTA	12.13	27	e(P)	31	31.00	7.0X
PMR	13.57	41	eP	31	51.00	8.1X
KLU	14.85	44	eP	31	59.20	-0.5
TOA	15.03	42	eP	32	02.20	0.1
IMA	15.28	22	eP	32	10.00	4.6X
FBA	16.06	32	eP	32	16.70	1.5
INK	22.67	33	eP	33	29.00	-0.8
YKA	29.42	49	eP	34	35.50	2.8X
	0.5s		0.30nm			3.3mb X
TIY	55.30	288	eP	38	02.90	-0.2
XAN	59.90	288	P	38	35.30	-0.2
GTA	61.19	298	Pd	38	43.00	-1.3
	0.6s		10.00nm			5.1mb
KAF	65.10	353	iP	39	09.20	-0.4
	0.6s		4.80nm			4.8mb
CD2	65.17	289	P	39	10.80	0.3
NUR	66.82	353	eP	39	20.20	-0.3
	0.5s		2.40nm			4.5mb
HFS	67.63	359	eP	39	25.00	-0.7
	0.4s		3.50nm			4.8mb
GUN	77.42	299	P	40	24.66	0.3
KKN	77.83	300	P	40	25.96	-0.5
PKI	77.94	300	P	40	28.12	0.9
GKN	78.00	300	P	40	27.68	0.3
DMN	78.07	300	P	40	28.22	0.4
QUE	84.72	315	eP	41	04.00	1.4
HYB	89.84	299	eP	41	35.50	8.1X

S.D. = 0.8 on 17 of 22 obs.

? FEB 08, 1991 22h 15m 57.54± 4.29s
15.186 N ±38.3km 97.679 W ±19.6km
DEPTH = 33.0km (normol)
3.1mb (1 obs.)
NEAR COAST OF OAXACA, MEXICO (66)

OXX	2.10	26	iP	16	31.50	0.3
			iS	16	56.00	
III	3.61	332	eP	16	54.00	1.3
			(S)	17	38.00	
IIT	3.86	351	eP	16	56.00	-0.3
			(S)	17	38.00	
PPM	3.96	347	eP	16	58.00	0.0
			(S)	17	45.00	
CRX	4.61	336	eP	17	06.00	-1.1
LVVM	4.68	14	(P)	17	19.00	11.4X
YKA	48.74	350	eP	24	40.60	-0.2
	0.5s		0.10nm			3.1mb

S.D. = 1.0 on 6 of 7 obs.

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* FEB 08, 1991 22h 43m 07.99± 0.76s
61.854 S ± 9.3km 154.442 E ±19.7km
DEPTH = 10.0km (geophysicist)
4.6mb (3 obs.) 4.3Msz (1 obs.)
BALLENY ISLANDS REGION (702)

VNDA	15.92	174	iPd	46	51.60	-1.6
SBA	16.55	171	iPc	47	01.00	-0.2
			S	51	11.30	
TLC	18.74	34	eP	47	28.70	-0.1
MHZ	18.92	34	P	47	30.60	-0.3
DZM	40.61	17	iPc	50	49.00	-0.4
ASPA	40.66	330	iPc	50	49.70	-0.1
	1.0s		18.30nm			4.7mb
Z	21s		0.50um			4.3Msz
WRA	44.15	332	P	51	17.00	-1.2
	1.3s		9.40nm			4.5mb
ZOBO	95.18	139	iPd	56	36.00	2.6
Z	24s		0.10um			4.2MszX
			eLR	23	40.00	
GBA	95.86	288	P	56	37.00	1.4
	1.0s		2.10nm			4.6mb
POO	101.81	287	ePdiff	56	55.00	-7.5X
MLR	146.45	265	ePKP	02	52.00	3.5X

S.D. = 1.5 on 9 of 11 obs.

FEB 08, 1991 22h 56m 18.94± 0.37s
51.732 N ± 8.5km 174.150 E ± 4.4km
DEPTH = 33.0km (normol)
4.5mb (19 obs.)
NEAR ISLANDS, ALEUTIAN ISLANDS (5)

SMY	1.00	358	iPc	56	37.30	0.7
ADK	5.69	85	eP	58	05.60	22.3X
SVW	19.00	49	eP	00	40.70	0.5
	1.0s		11.60nm			4.1mb
TTA	19.41	43	ePd	00	47.20	2.2X
	1.1s		21.90nm			4.3mb
RSO	20.22	52	eP	00	53.70	-0.1
IMA	21.61	36	ePd	01	07.90	0.1
FBA	23.49	41	ePc	01	27.50	1.4
	0.8s		7.60nm			4.3mb
INK	29.74	36	eP	02	24.00	0.1
YKA	38.15	45	eP	03	35.50	-0.8
	0.5s		1.60nm			4.1mb
NEW	42.83	66	ePd	04	15.00	-0.2
	0.8s		12.50nm			4.7mb
			e	04	24.60	
HHC	43.33	281	eP	04	21.00	1.7
BTO	44.42	282	eP	04	29.00	0.8
SES	45.09	61	eP	04	33.00	-0.4
CMB	46.81	80	eP	04	48.30	1.2
PRS	47.29	83	e(P)	04	51.70	0.8
LLA	47.37	82	e(P)	04	52.50	1.0
FFC	47.44	52	eP	04	51.00	-0.8
	0.8s		6.00nm			4.7mb
FRI	47.89	81	eP	04	48.40	-7.2X
WHN	48.25	268	eP	04	57.50	-0.9
TNP	48.72	78	eP	05	02.10	-0.1
	0.8s		5.88nm			4.7mb
			i	05	12.30	
ISA	49.51	81	eP	05	18.00	9.8X
CLC	49.95	80	eP	05	12.00	0.5
			e	05	23.00	
BW06	50.33	68	eP	05	13.90	-0.7
	0.9s		4.66nm			4.5mb
			i	05	24.00	
SBB	50.55	82	eP	05	16.00	-0.1
			e	05	26.00	
MWC	50.72	82	eP	05	17.00	-0.5
			e	05	28.00	
GSC	50.77	80	eP	05	18.00	0.2
			e	05	28.00	
RVR	51.29	82	eP	05	31.00	9.3X
GTA	51.30	287	Pc	05	21.60	-0.2
	1.0s		10.00nm			4.7mb
E	18s		0.50um			
			pP	05	31.80	34kmX
TPC	52.03	81	eP	05	26.00	-1.3
			e	05	37.00	
PV09	53.30	72	e(P)	05	36.00	-1.1
			e	05	45.40	
GLA	53.49	81	eP	05	38.00	-0.2
			e	05	48.00	
GOL	54.72	69	e(P)	05	47.60	0.2
	0.8s		2.98nm			4.4mb
			e	05	57.60	
WMO	55.38	299	iPd	05	51.50	-0.4
ALQ	57.28	74	eP	06	15.00	9.2X
	1.0s		3.25nm			4.3mb
SOD	58.73	346	eP	06	15.00	-0.3
SCH	62.37	35	eP	06	40.00	-0.2
KAF	63.67	344	iP	06	47.50	-1.1
	0.4s		3.90nm			4.9mb
NUR	65.46	344	eP	06	59.00	-1.2
NB2	66.75	351	P	07	07.80	-0.8
	0.8s		10.80nm			5.0mb
HFS	67.38	350	eP	07	11.00	-1.5
	0.8s		4.00nm			4.6mb
GUN	67.59	287	P	07	13.60	-1.1
	0.8s		26.00nm			5.4mb
KKN	68.03	287	P	07	16.60	-0.7
PKI	68.12	287	P	07	18.00	0.0
GKN	68.26	288	P	07	18.20	-0.4
DMN	68.27	287	P	07	18.90	0.0
EKA	73.28	358	P	07	48.00	-0.2
	0.9s		12.60nm			4.9mb
CLL	76.10	348	e(P)	08	12.00	7.5X
			e	09	12.00	
KRA	76.25	343	eP	08	06.70	1.3
			e	08	17.20	
QUE	76.55	302	eP	08	08.40	0.7
PRU	77.18	347	eP	08	09.00	-1.6
			e	08	11.50	
			e	11	00.00	
KHC	78.16	347	P	08	17.10	1.1
ZST	78.53	345	eP	08	20.00	2.0
			e	08	31.00	
SRO	78.70	344	eP	08	30.00	11.1X

08d 23h

```
WRA     79.40 218 P      08 24.00    0.9
        1.0s      1.60nm          4.0mb
WRA     79.40 218 P      08 28.00    4.9X
        1.3s      3.40nm          4.2mb
WRA     79.40 218 P      08 39.00   15.9X
        1.3s      1.90nm
KBA     80.20 347 iPc    08 29.10    1.8
        1.2s     41.40nm          5.3mb
                  i      08 40.70
      S.D. = 0.9  on  47 of  57 obs.
-------------------------------------
?  FEB  08, 1991  23h 07m 13.60± 2.99s
   34.664 N ±29.8km   25.828 E ± 9.9km
   DEPTH =  10.0km  (geophysicist)
 CRETE                            (370)
      MD 3.9 (ATH).

NPS     0.62 344 ePg     07 26.00   -0.1
KAP     1.42  51 ePb     07 38.00   -1.4
VAM     1.53 299 ePb     07 41.00    0.1
ARG     2.43  50 ePb     07 55.00    1.0
VLI     3.12 312 ePb     08 06.50    2.8X
YER     3.17  38 ePn     08 05.00    0.5
      S.D. = 1.2  on   5 of   6 obs.
-------------------------------------
*  FEB  08, 1991  23h 16m 50.67± 1.25s
   8.569 S ± 7.5km  118.357 E ±11.7km
   DEPTH = 150.3 ± 14.7 km
   5.0mb (  2 obs.)
 SUMBAWA ISLAND REGION            (285)

MKS     3.51  18 iPd     17 46.70    1.5
KUPT    5.41 107 eP      18 12.00    1.6
KNA    12.42 126 eP      19 41.40   -2.1
MBL    12.60 174 iPd     19 44.10   -1.7
       0.3s     15.00nm          4.9mb X
                 eS      21 51.00
MTN    13.25 110 eP      19 52.00   -2.2
       0.3s    167.00nm          5.9mb X
                 eS      22 06.00
NANU   14.18 191 eP      20 05.00   -0.9
                 eS      22 30.00
KKM    14.67 352 ePd     20 17.50    5.2X
MEKA   17.95 179 eP      20 52.80    0.7
                 eS      23 58.00
WB2    19.17 128 iPd     21 03.90   -1.2
                 iS      24 30.90
WARB   19.21 157 iPc     21 06.50    1.0
                 eS      24 30.00
MRWA   20.66 186 eP      21 21.00    0.8
                 eS      25 00.00
ASPA   21.14 137 iPd     21 25.90    0.8
       0.4s     26.10nm          5.0mb
                 eS      25 12.40
KLB    22.91 181 eP      21 44.00    1.7
MUN    23.38 185 eP      22 09.00   22.2X
                 eS      26 04.00
QIS    23.73 122 iPd     21 51.60    1.3
       0.8s     40.00nm          5.0mb
NWAO   24.26 182 eP      21 56.00    0.8
GUN    47.98 320 P       25 15.80   -0.8
PKI    48.04 320 P       25 16.60   -0.5
DMN    48.26 319 P       25 18.40   -0.3
KKN    48.28 320 P       25 18.20   -0.6
GKN    48.84 319 P       25 22.20   -0.8
YKA   114.06  24 ePKP    35 13.10   -0.1
       0.6s      0.60nm
LKO   124.69 276 PKP     35 35.90    0.9
SOB1  152.82 230 ePKP    36 37.30   12.6X
      S.D. = 1.3  on  21 of  24 obs.
-------------------------------------
?  FEB  08, 1991  23h 19m 09.14± 0.93s
   37.749 N ± 8.1km   15.037 E ± 7.9km
   DEPTH =  10.0km  (geophysicist)
 SICILY                           (398)

MNO     0.33 304 P       19 16.10    0.1
                eSg      19 20.90
ATN     0.53  39 P       19 19.50   -0.4
                eSg      19 27.20
MEU     0.65 188 P       19 22.10   -0.1
                eSg      19 33.10
SOI     0.87  68 P       19 26.30    0.4
                eSg      19 40.00
      S.D. = 0.6  on   4 of   4 obs.
-------------------------------------
*  FEB  09, 1991  00h 44m 37.00± 0.80s
   37.749 N ± 7.6km   15.067 E ± 6.2km
   DEPTH =  10.0km  (geophysicist)
 SICILY                           (398)

MNO     0.35 302 P       44 43.90   -0.3
                eSg      44 49.70
ATN     0.52  37 Pc      44 47.30   -0.2
                eSg      44 56.10
MEU     0.66 190 P       44 50.00   -0.1
                eSg      45 00.80
SOI     0.85  67 P       44 53.50    0.2
                eSg      45 07.70
GIB     0.86 287 P       44 54.00    0.4
      S.D. = 0.4  on   5 of   5 obs.
-------------------------------------
?  FEB  09, 1991  00h 48m 13.80±10.06s
   33.537 S ±21.7km   72.263 W ±72.6km
   DEPTH =  10.0km  (geophysicist)
 OFF COAST OF CENTRAL CHILE       (134)

IHA     0.73  46 iPc     48 28.20    0.1
                iS      48 38.80
TACH    1.11  96 iPd     48 34.80    0.1
                iS      48 51.40
ROCH    1.19  62 iPd     48 36.00   -0.2
                iS      48 53.00
PEL     1.38  74 iPc     48 39.10    0.0
                iS      48 58.00
PCH     1.46  94 iPc     48 40.20   -0.1
                iS      49 02.50
      S.D. = 0.2  on   5 of   5 obs.
-------------------------------------
&  FEB  09, 1991  02h 05m 04.16s
   60.237 N        152.301 W
   DEPTH =  79.2km
 SOUTHERN ALASKA                  (  2)
      <AEIC>.

RED     0.30 308 eP      05 15.98   -0.6
RSO     0.32 315 iP      05 16.35   -0.6
                iS      05 26.13
RS2     0.32 315 iP      05 16.39   -0.5
REF     0.32 322 iP      05 16.40   -0.5
RDT     0.34 351 eP      05 16.40   -0.5
RDN     0.36 321 iP      05 16.50   -0.6
                eS      05 26.53
NCT     0.45 316 eP      05 16.95   -0.8
NNL     0.54 111 iP      05 18.90    0.5
HOM     0.67 150 eP      05 19.45   -0.2
NKA     0.73  46 iP      05 21.69    1.4
XLV     0.84 159 eP      05 20.66   -0.8
                eS      05 34.07
BRLK    0.85 123 eP      05 20.75   -1.0
                eS      05 34.53
CNPM    0.89 143 eP      05 21.37   -0.8
SPU     0.96   7 iP      05 22.26   -0.7
                eS      05 36.76
CKL     0.96 359 iP      05 22.36   -0.7
BGL     1.03 358 iP      05 23.29   -0.6
                eS      05 38.43
CRP     1.04   4 eP      05 23.38   -0.7
AUH     1.05 214 eP      05 22.29   -1.8
PDB     1.05 245 eP      05 22.32   -1.7
                eS      05 37.07
AUI     1.07 213 eP      05 22.65   -1.6
SLKM    1.07  74 eP      05 23.39   -0.9
NCG     1.17   3 eP      05 24.86   -0.8
SEW     1.43  94 iP      05 27.20   -1.7
SUA     1.45  31 eP      05 28.78   -0.5
                eS      05 48.05
MCNL    1.48 225 iP      05 27.47   -2.1
                eS      05 45.47
CDD     1.48 208 eP      05 27.58   -2.0
                eS      05 46.74
SYI     1.63 182 eP      05 30.35   -1.2
                eS      05 51.90
PMS     1.68  52 iP      05 31.72   -0.6
                eS      05 52.59
SKT     1.79  12 iP      05 32.40   -1.3
PWA     1.85  39 iP      05 33.75   -0.7
SVW     1.85 300 eP      05 32.04   -2.6
                eS      05 54.03
PLRM    2.06  47 eP      05 35.76   -1.6
PMR     2.06  47 iP      05 35.80   -1.6
KNK     2.22  56 iP      05 37.86   -1.8
GHO     2.25  45 iP      05 38.52   -1.6
KNIM    2.28  85 iP      05 37.30   -3.1
CUT     2.39  23 eP      05 40.80   -1.1
GLI     2.65  74 eP      05 42.06   -3.5
VZW     2.95  71 iP      05 46.50   -3.2
VLZ     3.07  70 eP      05 48.24   -3.1
TTA     3.23 328 eP      05 51.10   -2.6
TRF     3.36  16 eP      05 53.66   -1.9
KLU     3.37  65 iP      05 52.76   -2.8
TOA     3.51  55 eP      05 55.40   -2.1
RND     3.58  26 eP      05 56.55   -1.9
TZL     3.80  58 eP      05 58.85   -2.6
SDG     3.98  52 eP      06 01.70   -2.3
PAX     4.26  47 eP      06 06.00   -2.1
GLB     4.33  70 eP      06 05.41   -3.6
IMA     5.89 355 eP      06 27.00   -3.8
YKA    18.04  66 eP      09 20.10    9.5
       0.5s      0.10nm          2.3mb
       51 obs. associated
-------------------------------------
    FEB  09, 1991  02h 08m 50.90± 0.20s
   15.348 S ± 7.4km  176.901 W ± 4.2km
   DEPTH =  27.6km  (  8 depth phases)
   5.6mb ( 39 obs.)  6.0Msz ( 28 obs.)
 FIJI ISLANDS REGION              (181)
      Ms 5.9 (BRK). Mo=1.0*10**18 Nm
      (PPT).
      CENTROID, MOMENT TENSOR     (HRV)
      Doto Used: GDSN
      L.P.B.: 21S, 58C  M.W.: 18S, 27C
      Centroid Locotion:
      Origin Time        02:08:57.0 0.2
      Lot 15.00S 0.03 Lon 176.81W 0.02
      Dep  15.0 FIX Holf-durotion  3.7
      Moment Tensor;   Scole 10**18 Nm
        Mrr=-0.17 0.01  Mtt= 0.23 0.02
        Mff=-0.06 0.02  Mrt= 0.05 0.05
        Mrf=-0.77 0.05  Mtf= 1.22 0.01
       Principol Axes:
        T  Vol=  1.46   Plg=18   Azm=134
        N       -0.02      57        15
        P       -1.45      27       233
      Best Double Couple:Mo=1.5*10**18
       NP1:Strike=272 Dip=58 Slip=  -7
       NP2:          5     84      -148

MBU     4.51 248 eP      09 53.30   -5.9X
AFI     5.16  75 P       10 30.00   21.5X
                eS      11 00.00
SVA     5.23 238 eP      10 01.80   -7.5X
                eS      11 27.00
NDF     5.92 245 eP      10 18.80   -0.3
DZM    17.13 245 iPc     12 48.00   -2.1
HNR    23.35 282 eP      13 57.00   -1.1
                eS      18 07.00
SVO    23.56 282 P       14 01.00    0.9
PAE    26.29  99 eP      14 26.00   -0.1
       1.2s     100.00nm          5.3mb
PPT    26.29  99 eP      14 26.00   -0.1
       1.2s      90.00nm          5.3mb
PPN    26.43  99 eP      14 27.00   -0.3
       1.2s      15.00nm          4.5mb X
TVO    26.60  99 eP      14 30.00    0.9
       1.2s     115.00nm          5.4mb
WEL    26.84 194 eP      14 23.00   -7.9X
                eS      18 54.00
PMO    27.99  93 iP      14 40.70   -0.9
       1.2s     135.00nm          5.5mb
VAH    28.23  94 iP      14 42.50   -1.2
       1.2s      95.00nm          5.4mb
TPT    28.26  93 iP      14 43.10   -0.9
       1.2s     105.00nm          5.4mb
RUV    28.47  94 iP      14 44.60   -1.3
       1.2s      90.00nm          5.4mb
BRS    30.59 242 iPc     15 01.50   -3.4X
                  i      15 09.00   26km
                  i      15 16.50
COO    32.35 237 eP      15 16.00   -4.3X
RAB    32.38 287 e(P)    15 16.00   -4.7X
RMQ    33.84 245 iPc     15 28.20   -5.1X
CTA    35.36 257 iPc     15 42.00   -4.4X
       1.7s     196.15nm          5.8mb
                 iS      21 17.00
PMG    35.57 275 eP      15 47.00   -1.2
CNB    36.15 230 iPd     15 48.40   -4.5X
CMS    37.57 238 eP      16 00.00   -4.8X
       1.0s     103.00nm          5.6mb
QLP    37.84 246 eP      16 01.00   -6.1X
TOO    39.91 229 eP      16 20.00   -4.4X
```

TAU 41.11 221 eP 16 39.00 5.0X
QIS 41.61 256 eP 16 33.00 -5.5X
BFD 41.95 231 eP 16 39.00 -2.0
JAY 43.67 283 e(P) 16 56.00 0.6
ADE 44.25 235 eP 16 55.50 -4.4X
WB2 46.55 257 eP 17 12.00 -6.4X
i 17 21.90 33km
ASPA 46.92 252 eP 17 04.60 -16.6X
1.3s 3.70nm
Z 23s 17.40um 6.0MszX
i 17 16.20 41kmX
GUA 47.44 305 eP 17 17.70 -7.7X
1.2s 412.50nm 6.3mb
e 17 27.20 32km
DAV 61.19 287 eP 19 05.00 -0.9
NWAO 61.70 241 eP 19 11.00 1.7
VNDA 63.10 185 iP 19 16.50 -1.3
KAKJ 65.37 323 eP 19 30.50 -2.6X
CHJJ 65.96 322 eP 19 33.90 -3.0X
IIDJ 66.23 321 eP 19 35.60 -3.2X
MAT 66.76 322 eP 19 39.00 -3.1X
1.4s 51.16nm 5.5mb
eS 28 37.00
NIIJ 66.77 323 eP 19 40.00 -2.0
ADK 66.95 0 P 19 43.90 1.1
1.2s 227.27nm 6.2mb
MTMJ 67.03 322 eP 19 42.80 -1.1
OCP 68.16 293 eP 20 03.80 12.6X
KAGJ 68.21 313 eP 19 49.70 -1.6
SMY 68.24 354 P 20 00.00 9.0X
Z 20s 8.00um 5.9Msz
KUMJ 69.03 314 eP 19 54.20 -2.1
BAG 69.30 294 eP 19 57.00 -1.5
eS 29 08.00
SHNJ 69.76 316 eP 19 56.50 -4.2X
ANP 72.26 303 e(P) 20 24.00 7.9X
SYP 73.36 46 eP 20 21.00 -1.5
PCC 73.38 43 eP 20 21.80 -0.6
PRS 73.39 44 eP 20 22.30 -0.2
SAO 73.59 44 eP 20 23.90 0.3
BCH 73.64 46 P 20 23.40 -0.7
BRK 73.68 42 eP 20 24.50 0.5
BKS 73.70 42 ePc 20 24.70 0.5
0.8s 41.00nm 5.5mb
Z 20s 7.00um 5.9Msz
N 20s 5.00um
E 20s 5.00um
eS 29 42.00
eScS 30 05.00
eSS 34 24.00
e 34 55.00
eLQ 38 48.00
eLR 41 48.00
PRI 73.76 44 eP 20 24.80 0.0
MHC 73.78 43 eP 20 25.80 0.9
LLA 73.84 44 eP 20 25.80 0.7
ARN 73.86 43 P 20 25.20 0.0
ABL 74.06 46 P 20 26.50 -0.2
PAS 74.43 47 eP 20 29.00 0.4
QZH 74.53 302 eP 20 24.00 -5.3X
Z 36s 7.30um 5.7MszX
E 15s 0.70um
MWC 74.55 47 eP 20 30.00 0.5
BAR 74.77 49 eP 20 30.00 -0.6
FRI 74.87 44 eP 20 31.30 0.3
RVR 74.92 48 eP 20 31.00 -0.4
SBB 74.96 47 eP 20 30.00 -1.7
CMB 74.99 43 ePc 20 32.40 0.6
1.4s 0.08nm 2.6mb X
ISA 75.01 46 eP 20 32.00 0.1
PEC 75.02 48 P 20 31.20 -0.8
1.4s 20.83nm 5.0mb
WDC 75.06 40 eP 20 32.30 0.2
ORV 75.13 41 eP 20 32.80 0.4
SSE 75.26 309 eP 20 30.00 -3.3X
Z 20s 5.40um 5.8Msz
N 18s 1.50um
E 20s 3.90um
sP 20 47.00
SKS 30 36.00
CLC 75.70 46 eP 20 35.00 -0.9
LBFM 75.91 39 P 20 37.00 -0.2
TPC 75.93 48 eP 20 37.00 -0.2
GSC 75.99 47 eP 20 38.00 0.4
GLA 76.31 50 eP 20 40.00 0.6
BONR 76.33 44 P 20 39.00 -0.7
MDJ 76.96 324 Pd 20 43.00 0.4

Z 32s 6.70um 5.8MszX
N 14s 2.40um
sP 20 54.00
SKS 30 53.00
KVN 77.05 43 P 20 42.70 -0.9
TNP 77.13 44 ePd 20 43.30 -0.7
NJ2 77.46 308 eP 20 45.00 -0.7
Z 21s 2.50um 5.5Msz
N 15s 2.30um
E 16s 2.40um
SVW 78.07 10 ePc 20 48.70 0.2
0.8s 31.40nm 5.4mb
BMW 78.18 35 P 20 49.50 0.1
GZH 78.18 298 eP 20 44.00 -5.8X
Z 21s 4.30um 5.8Msz
E 20s 3.20um
DL2 78.75 316 eP 20 53.00 0.4
1.2s 200.00nm 6.0mb
Z 20s 3.50um 5.7Msz
N 17s 3.80um
E 17s 3.00um
S 30 50.00
CN2 78.91 321 Pc 20 52.00 -1.4
1.0s 100.00nm 5.8mb
Z 20s 7.40um 6.0Msz
N 15s 1.70um
E 15s 0.90um
epP 20 59.00 22km
SNY 78.99 319 iPc 20 54.00 0.1
2.0s 500.00nm 6.2mb
Z 38s 4.10um 5.5MszX
N 14s 1.20um
GMW 79.07 34 P 20 54.10 -0.1
LON 79.12 35 P 20 53.80 -0.8
PGC 79.39 33 eP 20 56.00 0.2
RMW 79.55 34 P 20 56.30 -0.6
TTA 79.72 10 ePd 20 59.00 1.5
1.3s 153.20nm 5.9mb
QIZ 79.76 293 eP 20 55.50 -3.0X
N 20s 3.70um
E 20s 3.90um
eS 31 03.00
PMR 79.79 13 ePc 20 58.30 0.5
1.2s 248.11nm 6.1mb
Z 20s 3.00um 5.6Msz
SIT 79.98 22 P 21 00.00 1.2
Z 20s 7.50um 6.0Msz
WHN 80.29 305 Pd 21 02.50 1.4
1.0s 30.00nm 5.3mb
Z 24s 2.70um 5.5MszX
N 20s 4.10um
E 18s 3.10um
pP 21 13.00 33km
TIA 80.62 312 eP 21 01.50 -1.3
Z 28s 6.00um 5.8MszX
E 23s 4.20um
KGM 80.68 275 eP 21 02.00 -1.6
MSU 80.79 46 P 21 03.00 -1.0
TOA 80.91 14 ePc 21 05.30 1.4
1.3s 245.30nm 6.1mb
DUG 81.15 44 P 21 04.20 -1.5
1.2s 29.41nm 5.2mb
PNT 81.82 34 ePc 21 09.00 0.2
1.4s 162.00nm 5.9mb
DAU 82.30 45 P 21 12.60 0.7
NEW 82.60 36 P 21 12.50 -0.4
1.1s 30.86nm 5.3mb
BJI 83.01 315 eP 21 14.00 -1.1
1.5s 120.00nm 5.8mb
Z 24s 8.30um 6.0MszX
E 18s 2.98um
eS 31 36.00
FBA 83.01 12 ePd 21 14.70 0.1
1.3s 0.18nm 3.0mb X
IMA 83.02 9 ePc 21 15.70 0.9
1.3s 52.70nm 5.5mb
ALQ 83.38 51 eP 21 16.00 -1.4
1.6s 156.67nm 5.9mb
Z 20s 9.57um 6.2Msz
ANMO 83.38 51 P 21 30.00 12.6X
Z 20s 9.04um 6.1Msz
IPM 83.58 277 ePc 21 17.50 -1.1
1.0s 54.00nm 5.7mb
LRM 84.09 39 eP 21 20.20 -0.6
BW06 84.51 43 P 21 21.80 -1.2
1.2s 46.80nm 5.6mb
TIY 84.66 311 eP 21 24.00 0.4

Z 25s 6.90um 5.9MszX
N 15s 2.40um
SKS 31 43.50
SNG 84.69 279 eP 21 25.00 0.9
GYA 85.05 299 P 21 27.00 1.1
Z 36s 3.20um 5.5MszX
N 18s 2.40um
E 18s 1.30um
S 31 55.00
AIA 85.28 157 eP 21 26.10 -0.1
XAN 85.88 307 P 21 30.20 0.4
N 13s 0.60um
E 16s 1.60um
S 31 59.50
GOL 86.07 47 eP 21 31.00 0.1
1.1s 24.04nm 5.3mb
Z 18s 5.42um 6.0Msz
e 21 37.60 21km
ePP 24 51.50
HHC 86.54 314 P 21 32.00 -0.9
Z 26s 10.40um 6.1MszX
N 14s 0.80um
E 20s 3.20um
S 32 04.00
SES 87.11 36 eP 21 34.00 -1.4
1.1s 119.00nm 6.0mb
EDM 87.24 33 eP 21 35.00 -0.9
BTO 87.52 313 P 21 39.00 1.3
N 16s 1.30um
E 16s 2.60um
eSKS 32 03.00
KMI 87.97 297 Pd 21 42.50 2.2X
2.5s 80.00nm 5.6mb
Z 25s 7.40um 6.0MszX
pP 21 53.00 33km
RSSD 88.72 44 ePd 21 41.80 -1.7
Z 19s 5.99um 6.0Msz
CD2 88.92 302 P 21 45.60 1.1
Z 22s 6.50um 6.0Msz
N 14s 1.70um
INK 89.05 15 eP 21 43.00 -1.3
MEO 89.34 54 iPd 21 46.50 0.1
CHG 89.50 290 eP 21 49.00 1.6
1.5s 50.00nm 5.6mb
LZH 90.49 307 eP 21 51.00 -0.9
1.5s 57.00nm 5.6mb
Z 40s 11.00um 6.0MszX
E 16s 1.44um
pP 22 05.00 47kmX
SS 38 45.00
YKA 91.41 24 eP 21 55.00 -0.3
1.2s 9.50nm 5.0mb
FFC 93.94 34 eP 22 07.00 -0.1
1.4s 25.00nm 5.5mb
GTA 94.53 309 P 22 10.20 -0.2
1.2s 20.00nm 5.4mb
Z 26s 10.70um 6.2MszX
E 23s 8.30um
pP 22 17.00 21km
sP 22 20.00
SKS 32 40.00
QLY 95.13 55 P 22 13.50 0.5
FVM 96.56 53 P 22 19.20 -0.3
MBC 97.55 12 eP 22 23.00 -0.2
1.5s 23.00nm 5.5mb
RSCP 99.83 56 P 22 40.00 5.6X
Z 20s 9.04um 6.3Msz
ZOBO 103.01 111 ePdiff22 51.00 1.3
LR 57 17.00
HYB 108.03 284 ePKP 27 20.00 1.3
NDI 110.95 295 ePKP 27 10.00 -13.9X
PDCR 129.86 121 ePKP 27 56.60 -3.8X
SOB1 130.05 116 (PKP) 28 02.00 1.1
SLR 132.37 211 iPKPd 28 05.90 0.8
Z 22s 3.33um 6.0Msz
NB2 134.00 355 PKP 28 08.60 1.6
1.8s 38.90nm
WIN 139.90 200 ePKP 28 11.00 -8.4X
1.3s 32.69nm
Z 20s 2.48um 6.0Msz
WIT 142.52 356 ePKP 28 28.00 5.2X
KRA 142.78 342 ePKP 28 17.50 -5.9X
e 28 22.60
KSP 143.03 346 ePKP 28 19.30 -4.5X
1.0s 19.00nm
CLL 143.25 350 iPKPd 28 21.70 -2.5X
1.0s 19.00nm

09d 02h

Z 21s 3.00um 6.0Msz
i 28 30.00
WTS 143.32 356 iPKPc 28 23.40 -0.8
1.0s 26.00nm
e 28 26.00
BMR 143.61 337 iPKPd 28 23.00 -1.9
VRI 143.68 332 ePKPc 28 22.00 -3.1X
MOX 144.13 351 ePKP 28 24.00 -1.7
Z 21s 2.90um 6.0Msz
N 20s 3.10um
E 20s 2.60um
e 28 29.00
PRU 144.22 347 PKPc 28 23.60 -2.3
1.7s 83.80nm
Z 18s 2.60um 6.0Msz
N 19s 2.60um
E 20s 1.30um
e 28 49.00
e 29 14.00
BNS 144.32 356 iPKPc 28 23.90 -2.1
1.6s 247.00nm
Z 22s 4.20um 6.2Msz
MLR 144.33 332 ePKP 28 23.00 -3.4X
BBTK 144.42 319 iPKPc 28 25.00 -1.7
ENN 144.60 357 iPKPc 28 24.90 -1.5
1.2s 69.00nm
AAE 144.61 264 ePKP 28 27.20 -0.8
UCC 144.63 359 PKP 28 25.20 -1.3
PSZ 144.68 340 ePKP 28 25.50 -1.3
MEM 144.75 357 iPKPc 28 25.12 -1.6
e 28 30.55
SNF 144.91 359 iPKPc 28 25.75 -1.2
TNS 144.95 354 ePKPc 28 26.10 -1.1
BUC 145.08 331 ePKP 28 29.00 1.5
GRF 145.11 351 iPKPc 28 25.60 -1.8
Z 22s 2.40um 5.9Msz
ic 28 27.20
e 28 31.40
BUC1 145.16 331 ePKPd 28 24.00 -3.6X
COZ 145.17 333 ePKPc 28 27.00 -0.9
KHC 145.23 348 iPKP 28 26.30 -1.4
1.2s 85.00nm
Z 20s 3.10um 6.1Msz
N 20s 2.60um
E 20s 1.60um
i 28 27.40
SRO 145.27 342 iPKP 28 27.60 -0.1
ZST 145.27 343 iPKP 28 27.50 -0.2
e 29 15.00
DOU 145.32 358 iPKPc 28 27.10 -0.6
BHL 145.32 308 PKP 28 25.00 -3.4X
BUD 145.34 341 iPKP 28 26.70 -1.1
WET 145.36 349 iPKPc 28 27.80 -0.1
ABH 145.37 355 ePKP 28 27.45 -0.4
VKA 145.41 344 iPKPd 28 27.40 -0.6
5.0s 2127.00nm
i 29 49.90
GZR 145.77 335 iPKPd 28 28.00 -0.7
GLH 145.79 306 ePKP 28 28.00 -1.1
BURJ 145.85 305 PKP 28 30.40 1.0
TIM 146.09 337 iPKPd 28 37.00 7.9X
KFNJ 146.09 305 PKP 28 30.50 0.9
KMR 146.13 347 iPKP+ 28 30.70 1.5
i 28 34.60
iPP 31 55.20
TIH 146.21 342 ePKP 28 30.00 0.7
GWF 146.26 355 PKP 28 29.53 0.1
JMB 146.27 328 e(PKP)28 30.00 0.4
UZD 146.27 341 e(PKP)28 30.00 0.6
JVI 146.33 305 ePKP 28 31.00 0.9
PVL 146.34 330 iPKPd 28 31.00 1.4
ALT 146.54 320 ePKP 28 27.80 -2.4X
FLN 146.55 4 ePKP 28 29.30 -0.5
1.0s 110.00nm
Z 19s 5.00um 6.3Msz
FUR 146.59 350 ePKP 28 31.60 1.7
1.0s 116.00nm
BHG 146.72 348 iPKPc 28 31.50 1.4
1.5s 250.00nm
LDF 146.74 4 ePKP 28 29.70 -0.4
1.1s 63.50nm
WLS 146.84 355 PKP 28 31.48 1.1
CDF 146.85 355 PKP 28 30.80 0.4
GRR 146.89 5 ePKP 28 30.40 0.1
1.0s 122.00nm
EDC 147.05 324 ePKP 28 29.00 -1.9
ECH 147.05 355 PKP 28 31.15 0.5
DIM 147.11 328 e(PKP)28 33.00 2.1
VITF 147.14 356 PKP 28 32.44 1.7
BEO 147.15 337 ePKP 28 22.50 -8.4X
LPF 147.23 5 ePKP 28 31.30 0.4
1.3s 274.40nm
KBA 147.23 347 iPKPc 28 32.10 0.9
1.1s 98.80nm
i 28 36.70
i 28 47.60
e 32 02.00
i 32 07.00
FEL 147.31 354 PKP 28 32.65 1.4
HAU 147.33 356 ePKP 28 31.40 0.3
1.1s 80.35nm
Z 19s 5.00um 6.3Msz
KHL 147.35 320 ePKP 28 31.40 -0.1
PGB 147.40 330 e(PKP)28 30.00 -1.5
MOF 147.42 355 PKP 28 34.04 2.7X
MBH 147.46 302 ePKP 28 32.00 0.0
KDZ 147.46 328 e(PKP)28 32.00 0.5
BSF 147.47 355 PKP 28 34.12 2.7X
PLD 147.48 329 e(PKP)28 33.00 1.5
PTJ 147.68 343 ePKP 28 32.50 0.7
ZAG 147.75 343 ePKP 28 35.60 3.8X
BBS 147.77 354 PKP 28 33.47 1.6
RZN 147.79 329 e(PKP)28 36.00 3.7X
FVI 147.81 347 PKP 28 34.00 2.2X
VTS 147.82 332 ePKP 28 35.00 2.8X
OGA 147.89 350 ePKP 28 33.00 0.7
LJU 147.93 345 e(PKP)28 28.50 -3.6X
e 28 34.40
LOMF 147.94 355 PKP 28 34.31 2.1
ELL 148.03 317 iPKP 28 39.50 6.8X
VOY 148.10 346 ePKP 28 34.60 2.1
GRC 148.15 0 PKP 28 35.44 3.1X
LOR 148.17 359 ePKP 28 33.90 1.4
1.4s 132.85nm
Z 20s 8.25um 6.5Msz
CEY 148.24 345 e(PKP)28 35.50 2.9X
VBY 148.24 344 ePKP 28 36.10 3.5X
EZN 148.27 325 ePKP 28 35.10 2.3X
MMB 148.35 330 e(PKP)28 34.00 1.0
SSF 148.38 359 ePKP 28 34.70 1.9
TRI 148.43 346 ePKPc 28 37.30 4.4X
KKB 148.44 331 ePKP 28 36.00 2.9X
LBF 148.45 359 ePKP 28 34.60 1.6
1.2s 86.30nm
VVI 148.47 348 PKP 28 38.70 5.7X
CTI 148.56 349 PKP 28 38.00 4.7X
RIY 148.62 345 ePKP 28 33.60 0.4
AVF 148.65 360 ePKP 28 35.00 1.8
1.0s 27.00nm
MFF 148.72 4 ePKP 28 35.40 2.1
1.6s 292.30nm
SMF 148.79 359 ePKP 28 35.10 1.6
1.4s 98.00nm
YER 148.85 319 ePKP 28 36.00 2.1
BGF 148.88 0 ePKP 28 35.70 2.1
1.4s 135.05nm
SKO 149.11 333 iPKP 28 38.10 4.0X
i 28 41.80
i 29 48.00
i 30 54.50
i 49 46.00
i 52 30.00
VAY 149.11 331 ePKP 28 31.00 -3.1X
TCF 149.15 1 ePKP 28 36.30 2.2X
1.5s 117.50nm
LWI 149.15 238 ePKPd 28 36.90 1.6
MDI 149.16 351 PKP 28 39.10 5.1X
LSF 149.16 2 ePKP 28 36.00 1.9
1.2s 111.55nm
SAL 149.19 350 PKPc 28 41.00 6.9X
VAI 149.20 352 PKPc 28 39.80 5.7X
MAF 149.22 1 ePKP 28 36.50 2.3
1.6s 230.10nm
PLDF 149.47 359 PKP 28 32.55 -2.1
ORX 149.53 353 PKP 28 38.00 3.2X
ORO 149.54 353 PKP 28 40.60 5.8X
PYM 149.69 0 PKP 28 40.14 5.2X
LPL 149.77 355 ePKP 28 37.20 1.9
1.2s 68.45nm
LPG 149.79 355 ePKP 28 37.50 2.1
1.2s 78.85nm
LSD 149.79 354 PKP 28 39.92 4.6X
RSP 150.08 354 PKP 28 40.69 5.1X
OHR 150.09 333 iPKP 28 39.90 4.2X
1.4s 157.00nm
RJF 150.11 2 ePKP 28 38.80 3 3X
1.4s 104.55nm
Z 20s 6.25um 6.4Msz
SSB 150.14 358 PKP 28 40.08 4.5X
LBL 150.21 360 PKP 28 41.14 5.5X
BNI 150.24 355 PKP 28 43.60 7.7X
HLW 150.30 304 (PKP) 28 36.00 -0.2
RRL 150.36 355 PKP 28 40.82 4.6X
BHB 150.39 354 PKP 28 39.31 3.3X
LFF 150.44 3 ePKP 28 39.50 3.5X
1.4s 117.65nm
CAF 150.50 1 ePKP 28 40.00 3.8X
1.5s 67.90nm
MME 150.53 349 PKP 28 51.70 15.2X
SFI 150.56 347 PKP 28 45.70 9.5X
AKSR 150.66 291 ePKP 28 41.00 4.1X
ARV 150.71 345 PKP 28 42.90 6.4X
LPO 150.71 3 ePKP 28 40.20 3.8X
1.7s 205.85nm
PZZ 150.74 354 PKP 28 43.13 6.5X
CRE 150.82 347 PKP 28 50.20 13.4X
FIR 150.82 348 ePKP 28 40.00 3.4X
ROB 150.86 353 PKP 28 38.90 2.2
AKRL 150.93 291 ePKP 28 40.00 2.7X
STV 150.98 354 PKP 28 41.20 4.3X
ENR 150.98 354 PKP 28 39.79 2.8X
AGMR 151.11 291 ePKP 28 40.00 2.4X
ASS 151.18 345 PKP 28 45.90 8.6X
SBF 151.34 353 ePKP 28 41.10 3.6X
1.3s 65.00nm
ERUA 151.64 16 ePKP 28 44.00 6.1X
FRF 151.72 355 ePKP 28 42.40 4.4X
1.2s 35.70nm
LRG 151.85 355 ePKP 28 42.80 4.7X
1.4s 52.30nm
Z 19s 7.50um 6.5Msz
LMR 151.96 355 ePKP 28 42.80 4.5X
1.2s 50.60nm
SDI 152.15 343 PKP 28 46.70 8.0X
EPF 152.31 4 ePKP 28 45.50 6.6X
1.4s 43.55nm
PGF 152.42 351 ePKP 28 43.70 4.5X
1.4s 104.55nm
GUD 154.02 13 ePKP 28 51.00 9 5X
EJIF 157.64 18 ePKP 29 01.60 15.4X
MAL 157.68 16 iPKP 29 04.00 17.8X
BCAO 161.34 236 iPKPd 28 50.20 -0.6
1.0s 30.00nm
id 29 20.50
ic 29 46.00
LIC 167.92 138 PKP 28 55.80 -0.8
KIC 168.21 138 PKP 28 55.80 -1.0
TIC 168.24 136 PKP 28 56.00 -0.8
LKO 169.74 123 PKP 28 54.26 -3.4X
S.D. = 1.2 on 194 of 303 obs.

% FEB 09, 1991 02h 08m 55.11± 0.81s
41.869 N ± 7.2km 24.661 E ± 7.7km
DEPTH = 10.0km (geophysicist)
GREECE-BULGARIA BORDER REGION (363)

RZN 0.19 167 iPgc 09 00.00 0.6
iSg 09 03.00
PLD 0.24 8 iPgc 09 00.00 -0.2
iSg 09 03.00
KDZ 0.61 111 ePg 09 07.00 -0.4
Sg 09 14.00
MMB 0.75 248 iPgd 09 09.00 -0.9
Sg 09 19.00
PGB 0.77 332 e(Pg) 09 06.00 -4.2X
VTS 1.30 304 e(Pg) 09 20.00 0.7
S.D. = 1.0 on 5 of 6 obs.

& FEB 09, 1991 03h 16m 58.90s
38.045 N 119.152 W
DEPTH = 10.0km
CALIFORNIA-NEVADA BORDER REGION (40)
<BRK>. ML 3.1 (BRK).

BONR 0.68 97 iP 17 11.20 -1.4
CMB 0.97 270 iPc 17 16.50 -0.9
iS 17 29.50
FRI 1.14 203 iPd 17 19.70 -0.5
iS 17 34.40
KVN 1.30 39 iPc 17 22.30 -0.8
TNP 1.53 88 eP 17 26.00 -0.4

ARN	2.01	251	eP	17 33.80	0.5
LLA	2.02	226	iPd	17 34.50	1.1
MHC	2.10	251	ePd	17 35.70	1.1
SAO	2.23	236	iPc	17 37.40	1.0
PRI	2.25	213	eP	17 38.70	1.8
ORV	2.37	310	eP	17 40.20	1.7
BKS	2.44	267	ePd	17 40.40	0.9
			eS	18 12.10	
PRS	2.46	227	eP	17 41.10	1.4
BCH	2.95	195	eP	17 48.00	1.2
MIN	2.98	321	ePc	17 53.00	5.7

15 obs. ossociated

? FEB 09, 1991 03h 51m 41.32± 1.03s
37.199 N ± 9.9km 3.993 W ± 9.0km
DEPTH = 10.0km (geophysicist)
SPAIN (377)
mbLg 2.1 (MDD).

ECOG	0.35	77	ePg	51 48.50	-0.1
			eSg	51 55.00	
AFC	0.36	81	ePg	51 48.90	0.1
			eSg	51 55.80	
MAL	0.58	216	iPg	51 53.00	0.0
			iSg	51 59.50	
EBAN	0.98	10	ePg	51 59.90	0.0
			eSg	52 15.00	

S.D. = 0.1 on 4 of 4 obs.

FEB 09, 1991 04h 06m 56.04± 0.79s
34.653 N ± 8.2km 32.925 E ± 8.1km
DEPTH = 10.0km (geophysicist)
CYPRUS (372)
ML 3.6 (CSS). Felt (IV) ot Limossol.

CSS	0.45	47	eP	07 05.50	0.2
			eSg	07 12.50	
PPCY	0.53	296	ePg	07 08.20	1.4
			eSg	07 18.20	
ELL	3.22	311	eP	07 55.00	7.2X
BCK	3.38	327	iP	07 53.00	3.0X
YER	4.51	305	eP	08 05.60	-0.4
KHL	4.57	324	eP	08 07.00	0.1
CIN	4.90	308	eP	08 10.00	-1.4
AYN	6.33	155	eP	08 32.70	1.0
BADA	6.36	163	eP	08 31.20	-0.9
			iS	09 01.80	

S.D. = 1.2 on 7 of 9 obs.

& FEB 09, 1991 05h 29m 20.79s
62.932 N 148.249 W
DEPTH = 70.6km
CENTRAL ALASKA (1)
<AEIC>.

RND	0.55	330	iP	29 34.28	-0.1
			eS	29 44.55	
HUR	0.64	275	iP	29 34.91	-0.3
			eS	29 45.61	
MCK	0.86	339	eP	29 37.92	0.0
			eS	29 50.85	
TRF	1.06	300	eP	29 40.48	-0.1
CUT	1.07	241	iP	29 40.27	-0.2
GHO	1.21	195	eP	29 41.56	-0.8
THY	1.23	66	eP	29 42.87	0.2
PAX	1.27	87	iP	29 42.79	-0.4
			eS	30 00.53	
TOA	1.27	130	iPc	29 43.80	0.6
SDG	1.31	107	iP	29 43.39	-0.3
			eS	30 00.77	
BWN	1.36	337	eP	29 43.77	-0.5
			eS	30 01.18	
PLRM	1.41	197	eP	29 44.49	-0.4
			eS	30 02.61	
PMR	1.41	197	iPd	29 45.20	0.3
PWA	1.49	211	iP	29 46.52	0.4
			iS	30 06.96	
KNK	1.53	184	iP	29 46.64	0.1
			eS	30 07.22	
WRH	1.55	3	eP	29 46.13	-0.7
			eS	30 04.99	
TZL	1.59	123	eP	29 47.28	-0.1
HDA	1.59	21	eP	29 47.08	-0.3
NEA	1.69	348	eP	29 47.95	-0.8
			eS	30 08.38	
CCB	1.73	6	eP	29 48.57	-0.8
SKT	1.80	239	eP	29 50.18	-0.1
PMS	1.80	201	eP	29 50.43	0.1
			eS	30 13.19	
KLU	1.81	142	iP	29 49.69	-0.8
SUA	1.88	220	eP	29 52.02	0.5
			eS	30 16.49	
RDS	1.90	1	eP	29 51.06	-0.6
			eS	30 13.12	
FBA	1.99	6	iPd	29 52.80	0.0
VLZ	2.02	153	eP	29 51.80	-1.5
DOT	2.02	67	eP	29 52.85	-0.5
MDM	2.04	0	eP	29 52.95	-0.6
VZW	2.04	156	eP	29 52.38	-1.3
			S	30 17.54	
GLM	2.10	10	iP	29 53.76	-0.7
			eS	30 18.31	
GLI	2.13	165	eP	29 54.39	-0.5
NCG	2.39	232	eP	29 58.85	0.3
TMW	2.42	78	eP	29 57.92	-0.9
SPU	2.51	227	eP	30 00.68	0.5
GLB	2.56	124	eP	30 00.13	-0.8
BGL	2.57	231	eP	30 02.16	1.1
CKL	2.60	230	eP	30 02.25	0.8
KNIM	2.60	174	eP	29 59.70	-1.7
SLKM	2.61	202	eP	30 01.61	0.1
SEW	2.90	192	eP	30 05.27	-0.2
RDT	3.08	222	eP	30 07.85	-0.3
RDN	3.24	224	eP	30 10.03	-0.4
REF	3.24	223	eP	30 10.59	0.1
NNL	3.25	208	eP	30 10.87	0.5
NCT	3.26	225	eP	30 10.69	0.0
TGL	3.37	128	eP	30 10.27	-2.0
BALM	3.37	122	eP	30 10.63	-1.6
TTA	3.55	273	ePc	30 13.90	-0.8
CNPM	3.71	204	eP	30 16.10	-0.8
IMA	3.93	326	ePd	30 19.60	-0.4
SVW	3.93	246	eP	30 19.60	-0.3

52 obs. ossociated

% FEB 09, 1991 07h 26m 21.28± 2.09s
11.699 N ± 7.3km 60.610 W ±28.2km
DEPTH = 33.0km (normol)
WINDWARD ISLANDS (95)
MD 3.2 (TRN).

GRW	1.13	294	eP	26 42.14	1.3
			eS	26 56.80	
TBH	1.29	200	eP	26 44.35	1.3
			eS	26 56.73	
TRN	1.30	217	eP	26 43.03	-0.2
TCE	1.50	229	eP	26 44.51	-1.7
			eS	26 56.44	
FCV	1.58	337	eP	26 47.27	0.0
			eS	27 10.34	
SVB	1.68	338	eP	26 48.59	-0.3
			eS	27 14.63	
SVV	1.71	340	eP	26 48.88	-0.4
			eS	27 14.78	

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

FEB 09, 1991 08h 05m 12.23± 1.10s
29.931 N ± 9.0km 131.169 E ± 4.8km
DEPTH = 34.5 ± 8.7 km
4.6mb (15 obs.)
RYUKYU ISLANDS REGION (239)

KAGJ	1.27	349	iP+	05 35.00	1.1
KUMJ	2.61	354	P	05 53.70	0.7
SHNJ	4.18	359	P	06 14.90	-0.4
TKSJ	4.72	30	P	06 22.30	-0.6
YDNJ	5.59	20	P	06 34.80	-0.4
WKYJ	5.69	40	P	06 35.50	-1.2
TSRJ	6.90	35	P	06 53.00	-0.7
IIDJ	7.93	44	eP	07 07.30	-0.8
SSE	8.69	280	P	07 20.00	1.5
	1.3s		20.00nm		5.1mb
	Z 20s		1.20um		4.6Msz
	N 14s		1.10um		
	E 12s		1.40um		
			pP	07 26.30	
MAT	8.84	40	eP	07 21.00	0.3
CHJJ	8.96	45	eP	07 22.50	0.1
NJ2	10.78	284	eP	07 46.50	-0.7
	Z 14s		1.20um		
	N 12s		0.70um		
	E 12s		1.30um		
TIA	13.33	302	eP	08 22.90	1.4
	Z 14s		1.30um		
	E 13s		1.10um		
CN2	14.57	343	Pc	08 44.00	6.2X
	Z 15s		4.60um		
	N 12s		1.10um		
	E 12s		0.60um		
			eS	11 30.00	
BJI	15.88	313	eP	08 59.00	4.3X
	Z 14s		1.76um		
TIY	17.38	301	eP	09 14.50	0.8
	Z 14s		1.40um		
	E 12s		0.70um		
			sP	09 28.00	
HHC	19.30	310	P	09 37.80	0.6
	Z 15s		1.70um		
XAN	19.30	288	eP	09 34.10	-3.2X
	E 12s		0.60um		
BTO	20.24	307	eP	09 47.00	-0.3
GYA	21.86	267	P	10 04.00	0.1
QIZ	22.20	246	eP	10 08.80	1.6
	E 11s		0.60um		
CD2	23.64	279	P	10 20.80	-0.5
	0.8s		30.00nm		4.9mb
	Z 12s		1.70um		4.7MszX
	E 11s		0.90um		
			sP	10 38.30	
LZH	23.68	292	eP	10 28.00	6.3X
	1.4s		22.00nm		4.5mb
	Z 15s		1.25um		4.5MszX
	E 15s		0.97um		
GTA	27.35	299	eP	10 55.00	-1.2
	0.8s		10.00nm		4.5mb
	Z 16s		0.82um		4.4MszX
	E 13s		0.80um		
CHG	31.27	257	eP	11 30.20	-1.1
	0.8s		7.84nm		4.6mb
GUN	39.50	279	P	12 41.60	-0.2
PKI	39.99	278	P	12 45.20	-0.6
	1.0s		54.00nm		5.3mb
KKN	40.04	279	P	12 45.60	-0.6
	1.0s		70.00nm		5.4mb
DMN	40.24	278	P	12 47.00	-0.8
GKN	40.54	279	P	12 49.10	-1.1
WRA	49.68	176	P	14 03.00	0.2
	0.9s		1.10nm		3.9mb
GBA	52.03	264	Pc	14 19.50	-1.3
	0.2s		1.10nm		4.5mb
KOD	53.60	260	eP	14 32.80	-0.1
INK	64.47	24	iPd	15 47.20	0.0
MBC	65.62	14	eP	15 54.50	0.0
	1.0s		7.00nm		4.7mb
KEV	66.95	338	eP	16 10.00	6.9X
SOD	68.07	336	iP	16 09.90	-0.2
KAF	70.52	331	eP	16 24.40	-0.8
	0.8s		6.70nm		4.7mb
DAG	71.94	353	iPc	16 32.80	-0.7
	0.8s		5.22nm		4.6mb
NUR	71.98	330	eP	16 34.60	0.6
YKA	74.08	26	eP	16 46.00	-0.2
	0.8s		2.30nm		4.2mb
NB2	77.13	334	P	17 03.40	-0.3
	0.7s		3.10nm		4.4mb
SES	82.97	35	eP	17 37.00	1.9
FFC	84.13	28	eP	17 42.00	1.2
	1.0s		15.00nm		5.1mb
CMB	84.97	49	eP	17 46.80	1.4
FRI	86.00	49	eP	17 51.80	1.3

S.D. = 0.9 on 41 of 46 obs.

% FEB 09, 1991 08h 30m 53.71± 0.76s
16.268 N ± 8.5km 61.381 W ± 5.5km
DEPTH = 10.0km (geophysicist)
LEEWARD ISLANDS (92)
ML 2.1 (FDF).

SFG	0.18	95	iPc	30 58.08	0.4
			S	31 01.00	
SEG	0.18	318	iPc	30 57.81	0.1
			S	31 00.10	
DEG	0.31	82	iPc	30 59.82	-0.4
			S	31 03.30	
DOG	0.33	224	iPc	31 00.63	0.1
PAG	0.37	231	eP	31 01.20	-0.2
			S	31 05.00	

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

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* FEB 09, 1991 08h 37m 09.41± 2.24s

09d 08h

23.174 S ±15.4km 179.322 W ±13.5km
DEPTH = 601.7 ± 30.2 km
4.5mb (6 obs.)
SOUTH OF FIJI ISLANDS (171)

DZM	13.19	272	iPc	40	01.60	1.7
			i	42	27.00	
PUZ	15.00	187	eP	40	18.90	1.7
NOZ	15.56	188	eP	40	22.60	0.0
KIW	18.29	194	P	40	47.80	-0.9
MTW	18.45	192	eP	40	48.80	-1.4
CAW	18.49	193	P	40	49.90	-0.6
BLW	18.66	192	P	40	51.70	-0.4
WDW	18.66	193	P	40	51.70	-0.4
MRW	18.69	194	eP	40	51.70	-0.6
TCW	18.77	195	eP	40	52.70	-0.4
THZ	19.65	198	P	41	01.60	0.4
KHZ	20.09	196	eP	41	04.40	-0.8
	0.5s	29.00nm			5.2mb	
LTZ	20.77	198	eP	41	11.80	0.4
MQZ	21.53	196	eP	41	19.20	1.0
BRS	25.55	255	iPc	41	54.00	-0.3
COO	26.67	248	iPc	42	03.40	-0.6
	0.3s	5.00nm			4.6mb	
CNB	29.76	239	iPd	42	31.60	1.0
CMS	31.94	247	iPc	42	49.00	0.0
TOO	33.37	236	iPc	43	01.90	1.0
ASPA	42.77	260	eP	44	15.90	-1.4
	0.5s	11.60nm			4.7mb	
			iS	49	58.00	
WB2	43.07	265	iPd	44	17.50	-2.1
SPA	66.97	180	iPc	47	07.20	2.2
	0.8s	12.50nm			4.5mb	
TNP	84.29	45	eP	48	40.20	0.0
	1.1s	1.62nm			3.6mb	
CHG	90.01	290	eP	49	08.70	1.5
ALQ	90.02	52	eP	49	07.20	0.0
FBA	91.11	13	eP	49	10.20	-1.1
	0.5s	0.90nm			4.1mb	
NB2	141.46	352	PKP	55	27.80	-6.1X
	0.8s	2.70nm				
KSP	149.83	340	iPKP	55	53.50	5.7X
CLL	150.33	344	iPKP	55	54.50	6.0X
			i	56	02.50	

S.D. = 1.1 on 26 of 29 obs.

FEB 09, 1991 08h 39m 45.19± 0.25s
27.210 S ± 4.0km 63.398 W ± 3.8km
DEPTH = 573.4 ± 3.6 km
5.0mb (25 obs.)
SANTIAGO DEL ESTERO PROV., ARG. (132)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 15C
Centroid Location:
Origin Time 08:39:50.7 0.7
Lat 27.45S 0.11 Lon 63.00W 0.09
Dep 556.7 5.2 Half-duration 1.7
Moment Tensor; Scale 10**16 Nm
Mrr=-3.46 0.59 Mtt=-1.30 0.97
Mff= 4.76 0.89 Mrt=-0.62 0.89
Mrf= 7.15 0.83 Mtf=-3.10 0.78
Principal Axes:

	Val=	Plg=	Azm=
T	9.72	28	253
N	-1.94	16	352
P	-7.77	57	108

Best Double Couple:Mo=8.7*10**16
NP1:Strike=307 Dip=22 Slip=-137
NP2: 176 75 -73

SLA	3.11	322	iPd	41	02.80	-0.7
CFA	6.08	223	iPc	41	26.80	0.4
			eS	42	47.90	
RTRS	6.09	240	iPd	41	27.50	1.2
RTCB	6.35	227	iPd	41	29.80	0.9
			iS	42	54.10	
ANT	7.24	297	iPd	41	37.30	0.4
MDZ	7.37	219	eP	41	36.50	-1.8
			iS	43	09.60	
ITB1	8.50	75	iPc	41	50.50	1.3
ITB7	8.54	78	iPc	41	50.80	1.2
ITB	8.61	76	iPc	41	51.30	1.0
PEL	8.64	225	iPc	41	50.50	-0.1
			i	43	32.50	
RFA	8.70	209	iPd	41	51.20	0.0
ROCH	8.74	227	eP	41	51.00	-0.8
			iS	43	33.50	
SAN	8.84	223	ePd	41	52.50	0.0
PCH	8.86	222	iPd	41	53.00	0.2
			iS	43	33.00	
TACH	9.14	224	iPc	41	54.70	-0.8
			i	43	35.70	
IHA	9.19	229	iPd	41	55.50	-0.5
			eS	43	40.10	
LCCH	9.42	227	iPc	41	57.50	-0.8
LNV	9.63	224	iPc	41	59.10	-1.2
			i	43	45.50	
CNCB	11.19	337	iPd	42	17.50	1.0
			S	44	21.00	
LPB	11.48	337	Pd	42	18.50	-0.8
	0.7s	68.49nm			5.0mb	
			S	44	22.00	
ZOBO	11.74	337	iPd	42	22.20	0.2
	0.5s	64.94nm			5.2mb	
			S	44	14.00	
PPD	12.14	67	iPc	42	26.00	0.6
			i	44	37.10	
			i	44	47.40	
ARE	13.06	323	iPd	42	36.50	1.5
			iS	45	05.00	
VAO	15.46	78	iPc	42	59.00	0.7
			e	45	36.70	
BMA	18.02	80	eP	43	23.00	0.1
			i	43	25.00	
			e	43	27.00	
			e	43	30.40	
			e	43	36.90	
BAO	18.37	54	iPd	43	26.50	0.1
NNA	19.71	318	iPd	43	39.20	0.4
	1.0s	29.00nm			4.8mb	
			e	47	41.50	
PDCR	27.03	62	iPc	44	43.00	-1.2
			e	46	11.40	
			e	47	45.20	
			e	48	38.70	
			e	50	31.70	
OLLA	37.15	354	iP	46	08.50	-1.1
TOV	37.30	350	eP	46	09.50	-1.2
MORO	38.15	352	iP	46	16.10	-1.7
UPA	39.23	334	iPc	46	27.60	1.2
	0.5s	70.42nm			5.5mb	
ECO	39.64	334	eP	46	16.20	-13.6X
BIM	41.54	3	eP	46	46.46	1.7
MVM	41.58	4	eP	46	43.55	-1.6
FDF	41.75	3	eP	46	44.99	-1.5
	0.2s	2.00nm			4.3mb	
CRM	41.78	4	eP	46	45.60	-1.1
SPA	62.95	180	iPd	49	17.40	-0.5
	0.8s	20.83nm			4.6mb	
			i	51	11.20	
JSC	63.45	344	P	49	20.50	-0.7
LHS	63.53	344	P	49	21.30	-0.4
TKL	65.42	342	P	49	32.10	-1.5
LIC	65.46	69	P	49	33.00	-1.2
Z	22s	0.10um			4.0Msz	
GBTN	65.55	341	P	49	32.90	-1.5
TIC	65.70	68	P	49	34.80	-0.9
KIC	65.77	69	Pd	49	35.00	-1.2
	0.6s	7.00nm			4.3mb	
RSCP	65.89	340	P	49	36.00	-0.5
BLA	66.05	345	P	49	37.20	-0.3
NAV	66.23	345	P	49	38.30	-0.3
LKO	66.86	65	Pd	49	41.72	-1.1
LVNJ	68.49	351	P	49	52.00	-0.2
ELC	68.59	338	P	49	51.00	-1.9
TBR	68.74	351	P	49	53.70	0.0
FVM	69.63	337	P	49	57.70	-1.3
MEO	70.07	330	iPd	50	01.00	-0.7
WVLY	70.73	348	P	50	05.40	0.0
EMM	71.70	357	P	50	11.60	0.8
HBVT	71.77	353	P	50	11.50	0.2
BNH	71.81	354	P	50	12.00	0.4
RSNY	72.13	352	P	50	13.70	0.3
	0.8s	29.38nm			4.9mb	
MIM	72.29	356	P	50	14.60	0.3
CBM	73.92	357	P	50	24.00	0.5
ALQ	74.02	324	ePd	50	25.10	0.5
	0.8s	13.06nm			4.5mb	
			epP	52	30.00	604kmX
ANMO	74.03	324	P	50	25.30	0.7
	0.8s	48.97nm			5.1mb	
			pP	52	30.00	603kmX
GOL	77.20	328	P	50	42.30	0.2
	0.6s	6.17nm			4.2mb	
GLA	77.32	318	eP	50	44.00	1.4
BAR	78.19	316	eP	50	48.00	0.9
TPC	78.79	318	eP	50	51.00	0.7
RVR	79.51	317	eP	50	54.00	0.0
MSU	79.72	323	P	50	56.50	1.2
			pP	52	58.00	569kmX
SLR	80.05	114	iPc	50	57.50	0.3
GSC	80.06	318	eP	50	58.00	1.1
MWC	80.08	317	eP	50	58.00	0.8
RSSD	80.14	332	P	50	57.20	-0.1
SBB	80.25	317	eP	50	58.00	0.1
DAU	80.64	325	P	51	01.00	0.9
CLC	80.88	318	eP	51	02.00	0.9
DUG	81.29	324	P	51	04.00	0.8
ISA	81.30	318	eP	51	04.00	0.7
SYP	81.47	316	eP	51	05.00	0.8
BW06	81.58	328	P	51	04.50	-0.2
SCH	81.74	358	ePd	51	05.00	0.1
	0.4s	21.00nm			5.0mb	
TNP	82.21	320	P	51	08.50	0.5
	0.8s	4.41nm			4.0mb	
BUL	82.74	109	iP	51	13.80	2.8
			iLg	59	07.00	
BONR	82.75	319	P	51	11.50	0.7
KVN	83.38	320	P	51	14.20	0.4
			pP	53	18.00	575kmX
CMB	84.03	318	P	51	17.50	0.7
LRM	85.24	328	ePd	51	23.30	0.5
LBFM	87.07	320	P	51	32.00	0.4
SES	88.02	332	ePd	51	35.50	-0.1
FFC	88.09	339	iPd	51	35.70	0.0
	0.9s	27.00nm			5.1mb	
PNT	91.14	327	eP	51	50.00	0.1
LFF	92.54	40	eP	51	56.40	0.0
	1.0s	28.00nm			5.3mb	
LPO	92.64	40	eP	51	56.90	0.0
CAF	93.29	40	eP	51	59.70	-0.2
	1.0s	16.00nm			5.1mb	
LSF	93.76	39	eP	52	01.50	-0.5
TCF	94.17	39	eP	52	03.30	-0.6
MAF	94.33	39	eP	52	04.30	-0.3
BGF	94.68	39	eP	52	05.80	-0.4
	0.7s	6.60nm			5.0mb	
AVF	95.10	39	eP	52	07.70	-0.3
	1.0s	10.00nm			5.0mb	
SMF	95.29	40	eP	52	08.70	-0.2
	0.7s	8.80nm			5.1mb	
SSF	95.34	39	eP	52	08.40	-0.7
	0.7s	6.05nm			4.9mb	
LBF	95.56	39	eP	52	09.60	-0.6
	0.7s	4.40nm			4.8mb	
LOR	95.66	39	eP	52	09.80	-0.8
	1.0s	12.00nm			5.1mb	
LPL	96.35	42	eP	52	14.40	0.4
	0.9s	8.20nm			5.0mb	
LPG	96.35	42	eP	52	14.50	0.4
	0.9s	9.85nm			5.1mb	
CDF	98.21	39	eP	52	21.60	-0.6
YKA	98.27	339	eP	52	20.80	-1.2
	0.7s	2.90nm			4.7mb	
ALN	106.86	52	ePKP	57	19.60	12.3X
ASPA	126.73	200	iPKPc	57	44.80	-1.1
	0.5s	10.80nm				
WB2	130.07	202	iPKPd	57	51.80	-0.5
GBA	141.05	102	PKPc	58	05.30	-7.5X
	0.3s	1.40nm				
HYB	143.60	97	iPKPd	58	15.50	-1.7
	1.0s	115.00nm				
			e	00	32.30	
KSH	144.21	60	PKP	58	17.50	-0.3
NDI	145.28	78	iPKPd	58	20.00	0.3
GKN	151.70	81	PKP	58	30.00	0.1
DMN	152.07	82	PKP	58	31.20	0.6
KKN	152.25	82	PKP	58	31.60	0.9
PKI	152.34	82	PKP	58	32.00	1.0
GUN	152.79	81	PKP	58	32.80	1.1
GTA	161.47	45	ePKP	58	42.20	0.8
HHC	165.77	16	ePKP	58	50.00	4.7X
LZH	166.00	48	ePKP	58	47.00	1.3

S.D. = 0.9 on 118 of 122 obs.

• FEB 09, 1991 08h 45m 55.40± 0.58s
5.196 N ± 9.5km 32.466 E ± 9.0km
DEPTH = 10.0km (geophysicist)
4.8mb (7 obs.)
SUDAN (557)

AAE	7.32	58	ePn	47	43.00	-2.3
NAI	7.75	146	iP	47	52.00	0.8
	1.0s		18.00nm		5.2mb	
			iS	49	30.00	
LWI	8.24	206	iPd	47	57.50	-0.6
BCAO	13.90	267	iPc	49	13.90	-1.0
	1.0s		8.00nm		4.5mb	
			iS	52	08.20	
			Lg	53	06.40	
KRI	22.06	187	iPnd	50	43.40	-9.1X
			eSn	54	40.00	
			iLg	57	07.50	
KHC	46.62	343	P	54	26.50	0.9
	1.1s		5.00nm		4.5mb	
GKN	54.40	59	P	55	25.20	-0.2
DMN	54.70	60	P	55	28.40	0.7
KKN	54.90	60	P	55	29.60	0.5
PKI	54.96	60	P	55	29.00	-0.7
GUN	55.44	60	P	55	33.20	0.0
NB2	57.97	348	P	55	51.10	0.8
	1.0s		3.00nm		4.3mb	
LZH	71.92	54	eP	57	22.50	1.1
	1.6s		20.00nm		5.0mb	
ASPA	102.53	113	ePdiff	59	56.40	2.2X
	1.3s		4.90nm		5.0mb	
WRA	102.90	109	Pdiff	00	04.00	8.1X
	0.5s		2.30nm		5.2mb	
WB2	102.91	109	iPdiff	00	20.30	24.4X
	S.D. = 1.1		on 12 of 16 obs.			

FEB 09, 1991 08h 56m 40.71± 0.39s
42.392 N ± 3.9km 23.642 E ± 3.6km
DEPTH = 10.0km (geophysicist)
3.5mb (1 obs.)
BULGARIA (359)
ML 3.5 (ATH). Felt at Somokov.

VTS	0.38	302	iPgc	56	48.00	-0.5
			iSg	56	53.00	
PGB	0.42	68	iPgd	56	49.00	-0.3
			iSg	56	55.00	
KKB	0.67	219	iPgc	56	53.00	-1.0
			(Sg)	57	06.00	
MMB	0.80	175	iPgc	56	57.00	0.6
			iSg	57	09.00	
PLD	0.84	110	iPgd	56	57.00	0.1
			iS	57	08.00	
RZN	1.07	131	iPgc	57	01.00	0.1
			iSg	57	17.00	
SRS	1.27	182	iPc	57	04.30	-0.1
			eS	57	22.30	
VAY	1.34	217	iPgc	57	05.40	0.1
			i	57	21.40	
			iSg	57	25.00	
			Lg	57	26.00	
KNT	1.35	205	ePc	57	05.51	0.0
			eS	57	24.40	
DIM	1.45	103	iPd	57	08.00	1.1
PVL	1.49	56	iPd	57	07.00	-0.5
			iSg	57	28.00	
KDZ	1.52	119	iPc	57	07.00	-0.9
			iSg	57	27.00	
SKO	1.69	256	ePn	57	12.00	1.6
	0.8s		165.00nm			
			i	57	13.80	
			i	57	15.60	
			iSn	57	34.50	
			i	57	38.70	
			Lg	57	40.00	
GRG	1.71	213	iPc	57	11.75	1.0
RDO	1.89	131	ePn	57	15.00	1.8
PLG	2.02	184	ePn	57	15.50	0.2
JMB	2.18	87	iPd	57	18.00	0.5
SRE	2.29	352	ePc	57	24.00	4.9X
FNA	2.34	227	eP	57	20.40	0.5
LIT	2.45	201	ePc	57	21.03	-0.3
PAIG	2.46	179	iPc	57	20.83	-0.7
			eS	57	54.80	
OHR	2.48	240	ePn	57	26.80	4.9X
			iSg	57	56.50	
			LQ	58	02.40	
			LR	58	10.70	
KZN	2.51	215	ePn	57	21.00	-1.3
CMP	3.05	19	ePc	57	02.00	-27.8X
GZR	3.06	349	iPd	57	28.50	-1.6
NEO	3.10	186	ePn	57	30.00	-0.6
EZN	3.27	141	ePn	57	32.40	-0.6
BEO	3.35	317	ePn	57	30.50	-3.7X
			eSg	58	28.50	
MLR	3.52	27	iPc	57	40.00	3.4X
PRK	3.72	147	ePn	57	43.00	3.5X
EDC	3.78	121	iPn	57	50.00	9.8X
BNT	3.81	121	iPn	57	50.60	9.9X
CVO	3.88	27	eP	57	53.00	11.3X
VRI	4.12	31	ePd	57	46.00	0.9
KCT	4.15	120	eP	58	01.00	15.6X
HRT	4.78	107	eP	57	53.00	-1.6
YKA	70.23	341	eP	07	56.90	1.6
	0.7s		0.30nm		3.5mb	
	S.D. = 1.0		on 27 of 37 obs.			

& FEB 09, 1991 09h 45m 22.43s
59.807 N 151.982 W
DEPTH = 83.3km
KENAI PENINSULA, ALASKA (14)
<AEIC>.

HOM	0.23	131	eP	45	34.61	-0.3
XLV	0.38	159	eP	45	34.97	-0.8
			eS	45	44.96	
NNL	0.42	55	iP	45	36.42	0.4
CNPM	0.47	126	iP	45	35.83	-0.7
			eS	45	46.34	
BRLK	0.56	94	iP	45	36.69	-0.5
			eS	45	47.46	
RED	0.73	328	eP	45	38.24	-0.8
			eS	45	50.16	
RSO	0.76	330	iP	45	38.81	-0.7
RS2	0.76	330	iP	45	38.86	-0.6
REF	0.77	333	iP	45	38.95	-0.6
RDT	0.80	345	eP	45	38.88	-0.8
RDN	0.81	331	iP	45	39.18	-0.7
AUE	0.84	238	iP	45	39.27	-0.8
AUH	0.87	240	iP	45	39.74	-0.7
AUI	0.87	238	eP	45	39.55	-0.9
			eS	45	52.60	
NCT	0.89	328	iP	45	40.07	-0.7
			eS	45	53.79	
NKA	1.01	21	iP	45	43.21	1.2
PDB	1.12	270	iP	45	41.89	-1.5
			eS	45	57.45	
SLKM	1.13	51	eP	45	42.82	-0.7
SYI	1.22	190	iP	45	43.73	-0.9
			eS	46	00.04	
SEW	1.31	76	eP	45	44.70	-1.0
			eS	46	01.83	
MCNL	1.35	244	iP	45	44.73	-1.6
			eS	46	02.09	
SPU	1.38	359	iP	45	46.28	-0.5
			eS	46	04.56	
CKL	1.41	353	iP	45	46.73	-0.4
CRP	1.47	357	eP	45	47.91	-0.1
BGL	1.48	352	iP	45	47.67	-0.4
NCG	1.60	357	iP	45	49.45	-0.3
			eS	46	10.84	
SUA	1.77	20	iP	45	51.66	-0.3
			eS	46	13.96	
PMS	1.87	39	eP	45	52.78	-0.5
			eS	46	14.59	
PWA	2.12	28	eP	45	56.22	-0.3
SKT	2.19	6	eP	45	56.81	-0.8
KNIM	2.20	74	iP	45	56.01	-1.6
SVW	2.23	307	iPd	45	56.80	-1.3
PLRM	2.27	37	eP	45	57.58	-1.1
PMR	2.27	37	iPc	45	58.50	-0.2
KNK	2.37	46	eP	45	58.79	-1.3
GHO	2.48	36	eP	46	00.31	-1.3
			eS	46	29.21	
GLI	2.66	64	eP	46	01.68	-2.3
			iS	46	31.71	
CUT	2.74	17	eP	46	04.41	-0.6
VZW	2.97	63	eP	46	06.54	-1.8
			eS	46	39.93	
VLZ	3.10	62	eP	46	08.33	-1.6
HUR	3.38	19	eP	46	13.52	-0.4
KLU	3.43	58	iP	46	13.05	-1.7
TOA	3.65	48	eP	46	17.70	-0.1
TTA	3.69	330	iPc	46	17.00	-1.3
TRF	3.75	12	eP	46	17.67	-1.5
RND	3.91	21	eP	46	20.29	-1.1
TZL	3.91	52	eP	46	19.98	-1.3
SDG	4.14	46	eP	46	23.49	-1.1
MCK	4.20	19	eP	46	23.56	-1.8
GLB	4.35	64	eP	46	25.05	-2.4
PAX	4.46	42	eP	46	27.73	-1.4
TGL	4.65	74	eP	46	29.65	-2.2
BALM	4.93	71	eP	46	33.21	-2.5
NEA	4.98	15	eP	46	32.91	-3.3
WRH	5.02	20	eP	46	35.07	-1.8
YAH	5.16	79	eP	46	37.15	-1.8
HDA	5.18	25	eP	46	36.87	-2.2
RDS	5.35	18	eP	46	37.87	-3.5
CTGM	5.41	73	eP	46	41.19	-1.2
MDM	5.46	17	eP	46	40.87	-2.0
FBA	5.47	19	eP	46	41.20	-1.9
GLM	5.62	20	eP	46	42.91	-2.3
IMA	6.33	354	eP	46	53.70	-1.4
INK	11.69	36	eP	48	01.00	-6.7
YKA	18.07	65	eP	49	15.00	-13.9
	0.5s		0.40nm			
	65 obs. associated					

? FEB 09, 1991 11h 59m 20.73±12.04s
38.218 N ±16.1km 144.169 E ±99.7km
DEPTH = 33.0km (normal)
4.1mb (1 obs.)
OFF EAST COAST OF HONSHU, JAPAN (229)

OFUJ	2.14	295	P	59	54.90	0.1
YAMJ	3.26	270	P	00	10.20	-0.5
KAKJ	3.77	239	P	00	17.30	-0.6
NIIJ	4.21	258	P	00	24.00	-0.2
CHJJ	4.67	244	P	00	30.50	-0.2
MAT	5.03	252	eP	00	36.00	0.1
	0.9s		7.56nm		4.1mb	
			(S)	01	49.00	
MTMJ	5.32	254	P	00	40.80	0.7
IIDJ	5.71	243	P	00	46.10	0.6
	S.D. = 0.6		on 8 of 8 obs.			

FEB 09, 1991 12h 37m 08.09± 0.67s
43.355 N ± 5.5km 13.514 E ± 7.3km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

ARV	0.44	289	P	37	16.70	-0.4
			eSg	37	25.00	
ASS	0.68	246	P	37	21.20	-0.5
			eSg	37	32.50	
AQU	1.00	185	P	37	27.20	0.1
			eSg	37	41.60	
MNS	1.15	213	P	37	28.00	-1.6
			eSg	37	45.50	
CRE	1.17	284	P	37	31.60	1.6
			eSg	37	46.50	
SFI	1.33	296	P	37	33.40	0.8
AZI	1.37	182	P	37	34.50	1.4
SDI	1.66	172	P	37	37.40	-0.1
			eSn	37	57.50	
HVAR	2.15	94	e(Pn)	37	44.40	-0.1
TRI	2.36	4	eP	37	50.40	2.9
			e	38	20.60	
VBY	2.49	30	eP	38	17.10	27.9X
VOY	2.69	6	ePn	37	52.00	-0.3
			iSn	38	24.80	
			iSg	38	38.20	
CTI	3.00	334	P	37	55.80	-0.9
			eSn	38	30.90	
PTJ	3.09	34	eP	38	06.60	8.8X
FVI	3.28	351	P	37	59.50	-1.0
KBA	3.73	358	ePn	38	05.00	-2.1
			i	38	18.20	
			eSn	39	07.50	
			i	39	22.30	
	S.D. = 1.4		on 14 of 16 obs.			

FEB 09, 1991 13h 31m 54.91± 0.79s
6.992 S ± 5.3km 129.445 E ± 7.7km
DEPTH = 79.5 ± 8.0 km
5.0mb (10 obs.)
BANDA SEA (280)

MTN	6.05	164	iPc	33	25.40	1.7
KNA	8.73	184	iPd	34	00.90	0.3
	0.3s		120.00nm		6.2mb X	
			eS	35	31.00	
JAY	12.07	69	eP	34	51.50	5.8X
WB2	13.73	160	iPc	35	04.00	-3.4X
QIS	16.70	145	eP	35	44.00	-1.3
			eS	38	35.00	
MBL	16.88	212	eP	35	47.50	-0.1

09d 13h

		eS	38	42.00		
ASPA	17.12	166 iPc	35	49.00	-1.7	
		eS	38	48.00		
PMG	17.69	99 eP	36	00.00	2.3	
WARB	19.27	188 iPd	36	16.10	0.0	
	0.3s	14.00nm			4.7mb	
		eS	39	41.00		
NANU	20.48	219 iPd	36	29.50	0.9	
		eS	40	10.00		
CTA	20.86	130 iPd	36	32.90	0.3	
	1.0s	40.00nm			4.7mb	
MEKA	22.11	207 eP	36	45.60	0.7	
		eS	40	49.00		
OLP	24.04	146 iPd	37	04.70	1.0	
		eS	41	28.00		
MRWA	25.49	208 eP	37	18.00	0.6	
		e	37	46.00		
		eS	42	03.00		
RMQ	26.72	139 eP	37	27.00	-1.8	
		e	38	04.00		
KGM	27.57	288 eP	37	38.50	1.9	
MUN	27.76	205 eP	37	37.00	-1.1	
CMS	28.78	150 e(P)	38	04.00	16.6X	
		eS	43	15.00		
ADE	29.12	164 e(P)	37	49.00	-1.4	
IPM	30.61	291 ePd	38	06.00	2.2	
	0.5s	15.00nm			5.0mb	
COO	31.52	141 eP	38	11.00	-0.7	
BFD	32.33	160 iPd	38	19.60	1.0	
	0.8s	30.00nm			5.2mb	
		e	44	27.00		
TOO	33.75	157 iPc	38	32.00	1.0	
CHG	39.52	311 ePc	39	21.00	1.2	
	0.9s	50.21nm			5.4mb	
GYA	39.93	327 P	39	24.00	0.8	
WHN	40.03	340 eP	39	25.50	1.7	
NJ2	40.12	346 Pd	39	26.20	1.7	
KMI	41.17	322 Pd	39	36.00	2.5	
MAT	44.08	10 iPd	39	55.80	-1.0	
	1.1s	18.99nm			4.8mb	
CD2	45.00	328 P	40	04.00	-0.3	
XAN	45.20	336 P	40	05.00	-0.9	
TIY	47.22	342 eP	40	21.40	-0.4	
BJI	48.37	346 eP	40	30.50	-0.1	
	1.0s	18.00nm			5.0mb	
LZH	49.14	332 Pd	40	37.00	0.2	
	1.6s	29.00nm			5.0mb	
CN2	50.68	356 Pd	40	47.80	-0.4	
LSA	51.81	317 iP	40	57.80	0.2	
GTA	53.70	332 iPc	41	11.00	0.0	
	0.8s	10.00nm			4.9mb	
KOD	54.51	288 eP	41	16.10	-1.5	
GUN	54.53	312 Pc	41	17.30	-0.3	
	0.5s	116.00nm			6.2mb X	
PKI	54.70	311 Pc	41	18.14	-0.7	
KKN	54.92	311 Pc	41	19.78	-0.5	
DMN	54.95	311 Pc	41	20.16	-0.4	
GKN	55.51	311 Pc	41	24.10	-0.4	
	0.3s	80.00nm			6.3mb X	
GBA	55.54	292 P	41	23.00	-1.6	
HYB	55.82	296 eP	41	24.50	-2.2	
		e	41	28.00		
NDI	61.54	308 iPc	42	04.50	-1.7	
	0.5s	28.17nm			5.6mb	
WMQ	63.09	327 iPd	42	16.00	-0.3	
QUE	70.34	305 eP	43	02.70	0.1	
INK	99.06	22 eP	45	26.00	-1.8	
YKA	107.99	26 ePKP	50	12.80	-1.8	
	0.5s	0.30nm				
ALQ	121.74	53 ePKP	50	41.70	-0.3	
LKO	135.45	276 PKP	51	08.64	0.1	
	0.6s	5.00nm				
CNCB	150.74	144 PKP	51	36.50	1.2	
		i	51	42.00		
LPB	150.89	144 ePKP	51	38.00	2.6X	
ZOBO	151.08	143 PKP	51	36.50	0.6	
	1.0s	7.00nm				
		i	52	19.00		

S.D. = 1.2 on 51 of 55 abs.

% FEB 09, 1991 14h 29m 28.00± 1.54s
35.621 N ±17.8km 23.470 E ±13.7km
DEPTH = 33.0km (normal)
CRETE (370)
MD 3.3 (ATH).

VAM	0.63	110 ePn	29	40.50	0.0	
VLI	1.18	339 ePn	29	48.80	0.6	
NPS	1.79	101 ePn	29	57.00	0.0	
ITM	1.99	322 ePn	30	00.00	0.0	
APE	2.20	48 ePn	30	03.00	0.0	
EVR	3.55	339 ePn	30	21.60	-0.6	

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

% FEB 09, 1991 14h 34m 02.40± 1.04s
42.680 N ±13.5km 4.121 E ± 5.0km
DEPTH = 10.0km (geophysicist)
WESTERN MEDITERRANEAN SEA (387)
ML 3.0 (LDG).

LRG	1.81	64 Pn	34	34.00	0.1	
		Pg	34	37.00		
		Sg	34	59.20		
LMR	1.87	69 Pn	34	35.00	0.3	
		Pg	34	38.00		
		Sg	35	00.40		
FRF	2.05	64 Pn	34	37.80	0.5	
		Pg	34	41.40		
		Sg	35	06.00		
EPF	2.80	278 Pn	34	48.40	0.3	
		Sg	35	33.30		
LPO	2.92	314 Pn	34	50.10	0.3	
		Sg	35	36.60		
RJF	3.23	325 Pn	34	53.70	-0.4	
		Pg	35	04.00		
		Sg	35	43.80		
PGF	3.60	90 Pn	34	58.70	-0.8	
TCF	3.86	340 Pn	35	02.60	-0.5	
		Sg	36	04.60		

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

FEB 09, 1991 15h 11m 21.98± 0.35s
40.572 S ± 4.6km 174.011 E ± 6.9km
DEPTH = 132.3 ± 5.1 km
COOK STRAIT, NEW ZEALAND (163)
Felt in parts of central New Zealand.

TCW	0.67	163 Pc	11	42.80	0.2	
KIW	0.74	113 Pc	11	43.50	0.3	
MRW	0.84	142 Pc	11	44.30	0.4	
WEL	0.92	141 P	11	44.90	0.3	
		S	11	59.70		
CAW	0.96	124 Pc	11	45.50	0.4	
WDW	1.02	133 Pc	11	45.90	0.4	
MNG	1.12	93 Pc	11	47.20	0.6	
		S	12	03.40		
CCW	1.19	173 P	11	47.80	0.6	
MOW	1.27	132 P	11	48.50	0.5	
MTW	1.27	118 Pc	11	48.70	0.6	
NEZ	1.30	3 P	11	49.00	0.5	
		S	12	07.00		
BLW	1.36	126 Pc	11	49.80	0.7	
THZ	1.45	215 Pd	11	49.50	-0.6	
		S	12	08.80		
PGZ	1.72	92 Pc	11	53.50	0.4	
		S	12	16.20		
DRZ	1.76	43 P	11	54.60	0.7	
CNZ	1.81	41 Pd	11	54.90	0.6	
NGZ	1.85	42 P	11	55.00	0.1	
KHZ	1.88	191 Pd	11	54.90	-0.1	
		S	12	16.70		
KETZ	1.94	41 Pc	11	56.20	0.3	
RATZ	2.18	39 P	11	58.80	0.1	
HITZ	2.30	37 P	12	00.90	0.6	
HATZ	2.32	44 Pd	12	00.30	-0.3	
TTH	2.39	65 P	12	01.50	0.1	
HUTZ	2.52	40 P	12	03.20	0.2	
WHH	2.55	49 Pd	12	02.90	-0.6	
LTZ	2.57	210 P	12	02.30	-1.4	
		S	12	30.70		
MOH	2.81	60 P	12	06.30	-0.5	
UTU	2.93	36 P	12	08.80	0.4	
WLZ	2.99	25 P	12	09.10	0.0	
TAZ	3.03	40 P	12	09.70	0.0	
MQZ	3.29	197 P	12	10.50	-2.6	
		S	12	45.60		
NOZ	3.67	59 P	12	16.60	-1.6	
PUZ	4.13	54 Pc	12	22.30	-2.1	
HBZ	4.47	50 P	12	26.80	-2.0	
MMCZ	5.70	217 eP	12	41.30	-4.3X	
TLC	5.87	217 eP	12	43.80	-4.2X	
MSZ	6.08	226 eP	12	47.10	-3.6X	
		S	13	51.00		
ASPA	37.55	284 iPc	18	25.30	0.4	
WB2	39.52	289 iPc	18	42.10	0.8	
YKA	117.45	30 ePKP	29	51.60	-0.7	
	0.4s	0.20nm				
LIC	145.79	182 PKP	30	48.00	1.3	
KIC	145.92	182 PKP	30	48.10	1.2	
TIC	146.21	182 PKP	30	49.20	1.8X	

S.D. = 0.9 on 39 of 43 obs.

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* FEB 09, 1991 15h 29m 24.17± 0.75s
28.257 N ±10.6km 104.127 E ± 8.0km
DEPTH = 10.0km (geophysicist)
3.6mb (1 obs.)
SICHUAN PROVINCE, CHINA (307)
ML 3.2 (BJI).

CD2	2.66	353 Pn	30	09.40	1.5	
		Pg	30	14.50		
		Sn	30	42.40		
		Sg	30	45.00		
GYA	2.88	128 Pg	30	12.40	1.3	
		Sg	30	48.40		
KMI	3.36	202 ePn	30	25.00	7.0X	
		Sg	31	15.00		
XAN	7.08	34 ePn	31	09.00	-1.4	
		Sn	32	27.10		
GUN	16.11	273 P	33	12.16	-0.5	
PKI	16.56	272 P	33	18.94	0.5	
KKN	16.65	273 P	33	19.50	0.1	
GKN	17.20	274 P	33	25.98	-0.3	
WRA	56.12	145 P	39	05.00	-1.2	
	1.3s	0.90nm			3.6mb	

S.D. = 1.2 on 8 of 9 obs.

FEB 09, 1991 16h 18m 58.37± 0.11s
9.929 S ± 2.8km 159.139 E ± 2.8km
DEPTH = 10.0km (geophysicist)
6.4mb (65 obs.) 6.9Msz (35 obs.)
SOLOMON ISLANDS (193)
Ms 6.8 (BRK), 6.7 (PAS).
Mo=2.0*10**19 Nm (PPT). Minor damage at Honiara. Felt strongly on Guadalcanal. Felt in the Florida Islands, an Malaita and in western San Cristabal. A small tsunomi was generated with maximum wove height 4 cm. (peak-ta-trough) at Haniara. Complex event observed an braodband displacement seismograms.
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=270 Dip=25 Slip= -90
NP2: 90 65 -90
Principal Axes:
T Plg=20 Azm=180
P 70 0
Comment: The focal mechanism is poorly controlled and carrespands ta normal faulting. The preferred fault plane is NP1.
RADIATED ENERGY
No. of sta: 17 Focal mech. F
Energy 2.4±0.4*10**14 Nm
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 24S, 67C M.W.: 25S, 67C
Centroid Location:
Origin Time 16:19:12.2 0.1
Lat 9.95S 0.01 Lan 159.42E 0.01
Dep 15.0 FIX Half-duration 11.0
Moment Tensar; Scale 10**19 Nm
Mrr=-2.63 0.01 Mtt= 2.39 0.02
Mff= 0.23 0.02 Mrt=-1.05 0.07
Mrf= 0.12 0.05 Mtf=-0.34 0.01
Principol Axes:
T Val= 2.65 Plg=11 Azm=189
N 0.18 1 98
P -2.8 79 5
Best Double C e:Mo=2.8*10**19

09d 16h

NP1:Strike=279 Dip=34 Slip= -89
NP2: 98 56 -91

VSG	0.88	40	iP	19	14.90	-0.4	
			iS	19	26.90		
HNR	0.94	58	iPc	19	15.50	-0.7	
SVO	1.02	41	iP	19	18.00	0.3	
			iS	19	33.00		
RAB	8.96	309	iP-	21	12.00	1.2	
			iS	23	00.00		
BKM	11.72	132	iP	21	48.50	-0.2	
PVC	11.81	132	iPc	21	51.00	1.0	
PMG	11.83	271	eP	21	53.00	2.8X	
DZM	13.96	151	iP	22	19.00	0.3	
MNDI	15.78	283	eP	22	46.00	3.4X	
CTA	16.02	229	iPc+	22	45.20	-0.2	
			iS	25	35.00		
RMQ	19.18	209	iPc	23	25.00	0.1	
NDF	19.39	116	ePc	23	28.40	0.8	
JAY	19.74	291	ePc	23	30.50	-1.0	
	0.8s	686.50nm			6.0mb		
MBU	20.28	112	eP	23	38.10	0.9	
VUN	20.39	115	ePc	23	39.10	0.9	
SVA	20.42	116	eP	23	38.60	0.1	
QIS	21.58	238	iPd	23	51.50	1.0	
COO	21.63	197	iPd	23	50.80	-0.1	
QLP	21.75	218	iPd	23	53.60	1.5	
CMS	24.75	208	iPd	24	22.70	1.2	
RIV	24.89	196	e(P)	24	24.00	1.3	
			e	28	54.00		
WB2	25.90	245	iPd	24	32.20	-0.3	
CNB	26.80	198	iPc	24	42.00	1.4	
			eS	29	20.00		
GUA	27.26	329	eP	24	44.30	-0.6	
	1.1s	2683.54nm			6.9mb		
			e	24	50.80		
PJG	27.32	329	eP	24	44.50	-1.0	
MTN	27.60	261	eP	24	49.00	0.9	
	0.3s	79.00nm			5.9mb		
ASPA	27.69	237	iPd	24	47.40	-1.5	
AFI	28.72	101	eP	24	57.00	-1.2	
			eS	27	12.00		
TOO	30.15	202	eP	25	11.00	0.2	
			eS	30	16.00		
KNA	30.15	256	eP	25	10.30	-0.7	
	0.7s	228.00nm			6.1mb		
BFD	30.99	206	iPd	25	19.40	1.2	
	1.0s	64.00nm			5.5mb		
ADE	31.13	214	iPd	25	19.90	0.4	
	1.2s	1218.75nm			6.7mb		
HBZ	32.51	151	eP	25	33.70	2.2	
CNZ	32.63	156	eP	25	33.80	1.2	
NGZ	32.63	156	P	25	32.90	0.2	
PUZ	32.87	152	P	25	33.30	-1.4	
NOZ	33.21	152	eP	25	36.30	-1.2	
MNG	33.82	157	P	25	41.50	-1.4	
	0.9s	275.00nm			6.2mb		
KIW	33.83	158	eP	25	41.80	-1.1	
TCW	33.91	159	P	25	42.90	-0.7	
THZ	33.95	161	P	25	43.00	-1.0	
MRW	34.07	159	eP	25	45.10	0.1	
CAW	34.10	158	eP	25	43.30	-2.0	
PGZ	34.13	156	P	25	44.00	-1.5	
WEL	34.14	159	P	25	46.00	0.4	
			S	31	09.00		
			ScS	36	08.00		
WDW	34.21	159	eP	25	44.70	-1.5	
MTW	34.30	158	P	25	44.90	-2.1	
MOW	34.44	158	eP	25	46.30	-1.9	
TAU	34.44	195	eP	25	48.00	-0.2	
			i	28	24.20		
			e	37	23.00		
BLW	34.47	158	P	25	46.50	-2.0	
LTZ	34.68	163	eP	25	49.30	-1.0	
WARB	34.73	238	eP	25	50.30	-0.6	
	0.7s	273.00nm			6.2mb		
KHZ	34.74	161	eP	25	48.30	-2.4	
	0.8s	302.00nm			6.2mb		
MQZ	35.64	163	P	25	57.40	-1.0	
MMCZ	35.99	168	eP	26	01.20	-0.4	
MHZ	36.08	168	eP	26	04.70	2.4	
TLC	36.16	168	P	26	04.60	1.6	
			e	28	33.50		
DAV	37.46	296	eP+	26	12.00	-2.1	
MBL	39.37	249	iPd	26	28.70	-1.4	
MKS	39.58	274	iPd	26	35.50	3.6X	
COOL	40.97	234	eP	26	43.00	-0.2	

RAR	41.02	111	P	26	44.00	0.4	
			S	33	08.00		
MEKA	41.76	241	eP	26	48.80	-0.9	
BKB2	42.87	279	iPc	27	03.30	4.4X	
	1.0s	621.00nm			6.3mb		
TSM	43.26	287	ePc	27	06.50	4.5X	
NANU	43.55	248	eP	27	04.20	-0.1	
	0.5s	78.00nm			5.7mb		
KLB	43.93	234	iPd	27	07.20	-0.1	
BAL	44.46	236	eP	27	12.00	0.4	
MRWA	44.64	238	iPc	27	13.00	-0.1	
	0.4s	25.00nm			5.5mb		
NWAO	44.82	233	iPc	27	14.00	-0.5	
	1.0s	210.00nm			6.0mb		
QCP	44.94	302	eP	27	25.00	9.4X	
MUN	45.31	235	iPc	27	19.60	1.2	
	1.0s	400.00nm			6.3mb		
Z	20s	176.50um			7.0Msz		
N	20s	191.20um					
E	20s	154.40um					
KKM	45.61	289	ePc	27	22.00	0.9	
	0.6s	154.20nm			6.1mb		
			e	27	32.50		
BAG	46.27	304	eP	27	26.00	-0.3	
	2.0s	1447.06nm			6.6mb		
			eS	34	08.00		
AFR	50.07	105	iP	27	55.00	-0.8	
	1.5s	740.00nm			6.4mb		
MAJO	50.24	338	ePd	27	55.41	-1.4	
			e	28	11.14		
			eS	35	15.03		
			eSS	38	43.97		
MAT	50.24	338	iPd	27	55.10	-1.7	
	1.9s	347.37nm			6.0mb		
			eS	35	20.00		
PAE	50.27	105	iP	27	56.40	-0.8	
	1.5s	760.00nm			6.4mb		
PPT	50.27	105	iP	27	56.50	-0.8	
	1.5s	740.00nm			6.4mb		
PPN	50.40	105	iP	27	57.40	-0.9	
TATO	50.50	314	ePd	27	58.69	-0.2	
			ePP	30	05.10		
TVO	50.58	105	iP	27	59.20	-0.5	
ANP	50.61	314	iPd	28	02.00	2.1	
			eS	35	16.00		
TBI	50.77	112	iP	28	01.60	0.6	
	1.7s	1130.00nm			6.5mb		
PMO	51.87	101	iP	28	09.00	-0.4	
	1.5s	1980.00nm			6.8mb		
VAH	52.12	102	iP	28	10.70	-0.6	
	1.5s	1155.00nm			6.6mb		
TPT	52.13	101	iP	28	10.90	-0.6	
	1.5s	1650.00nm			6.7mb		
HON	52.30	53	P	28	15.00	2.4	
Z	20s	37.23um			6.4Msz		
RUV	52.36	102	iP	28	12.00	-1.1	
	1.5s	1320.00nm			6.6mb		
OPA	52.49	53	P	28	13.00	-1.1	
QZH	52.57	312	iPd	28	14.50	-0.1	
	5.0s	********	nm		7.0mb X		
Z	30s	59.10um			6.5MszX		
N	16s	12.50um					
HKC	54.49	306	iP	28	30.00	1.3	
			iS	36	16.00		
SSE	54.66	320	iPd	28	29.00	-0.9	
	1.7s	250.00nm			6.0mb		
Z	20s	51.00um			6.6Msz		
N	18s	38.60um					
E	18s	20.10um					
			pP	28	34.50	18kmX	
			sP	28	42.00		
			PP	30	33.00		
			ScS	38	11.00		
SAP	55.18	344	eP	28	33.00	-0.5	
			eS	36	20.00		
GZH	55.54	307	Pd	28	37.00	0.6	
	5.0s	9900.00nm			7.1mb X		
Z	36s	66.00um			6.5MszX		
N	23s	34.10um					
E	27s	47.40um					
			sP	28	48.00		
QIZ	56.47	301	iPd	28	44.00	0.8	
	1.1s	300.00nm			6.2mb		
N	19s	10.50um					
E	19s	18.40um					
			sP	28	55.00		
			PP	30	50.00		

			S	36	35.00		
			SS	40	24.00		
NJ2	56.79	319	iPd	28	45.00	-0.2	
	1.0s	600.00nm			6.6mb		
Z	28s	18.90um			6.0MszX		
N	16s	14.60um					
E	15s	11.90um					
			sP	28	57.00		
			PP	30	53.00		
			iS	36	42.00		
KGM	56.83	279	ePc	28	43.70	-2.2	
DRV	58.13	189	eP	28	59.00	4.8X	
			S	36	57.00		
			SS	40	53.00		
YSS	58.55	347	iPd	28	57.00	-0.4	
			iS	37	00.00		
KLM	58.70	280	eP	28	58.50	-0.5	
WHN	58.89	315	Pd	28	59.50	-0.6	
	3.0s	4400.00nm			7.1mb		
Z	40s	41.00um			6.2MszX		
N	18s	26.50um					
E	16s	11.20um					
			sP	29	14.00		
IPM	59.66	281	ePd	29	04.10	-1.6	
	1.0s	126.70nm			6.0mb		
DL2	59.83	327	iPd	29	05.00	-1.3	
	1.6s	2200.00nm			7.0mb		
Z	50s	82.80um			6.5MszX		
N	16s	28.90um					
E	19s	33.20um					
			sP	29	20.00		
			S	37	13.00		
MDJ	60.51	336	Pd	29	10.00	-1.0	
	1.4s	1240.00nm			6.8mb		
Z	28s	54.10um			6.5MszX		
N	20s	27.60um					
TIA	60.58	322	Pd	29	09.80	-1.8	
	6.0s	5900.00nm			6.9mb X		
Z	38s	56.30um			6.4MszX		
E	19s	21.80um					
SNG	60.71	284	eP	29	10.00	-2.8	
	1.6s	440.00nm			6.3mb		
			eS	37	05.20		
			e	58	31.20		
SNY	60.97	330	iPd	29	12.80	-1.3	
	1.8s	600.00nm			6.4mb		
Z	24s	48.50um			6.6MszX		
N	18s	50.30um					
E	14s	5.10um					
			pP	29	25.00	42kmX	
			PcP	29	53.00		
			PcS	33	58.00		
			S	37	30.00		
CN2	61.61	333	iPd	29	17.60	-0.9	
	1.0s	100.00nm			5.9mb		
Z	20s	64.00um			6.8Msz		
N	18s	37.00um					
E	18s	4.50um					
			sP	29	33.00		
PCT	62.23	292	eP	29	25.80	2.8X	
GYA	62.48	307	iPd	29	24.00	-0.8	
	1.2s	500.00nm			6.6mb		
Z	40s	43.80um			6.3MszX		
N	18s	11.30um					
E	18s	17.70um					
			PP	31	49.00		
PET	62.70	360	eP	29	24.00	-1.4	
			eS	37	30.00		
LOE	62.89	295	iPd	29	27.00	-0.4	
			e	41	02.00		
NNT	63.10	290	eP	29	27.00	-1.8	
BJI	63.66	324	iPd	29	31.32	-0.8	
	2.0s	540.00nm			6.4mb		
N	18s	29.20um					
			ePP	31	51.35		
			eS	38	09.39		
			i	38	14.19		
SMY	63.71	10	eP	29	33.20	1.0	
	0.9s	388.89nm			6.6mb		
Z	22s	14.49um			6.1Msz		
KBR	63.73	291	eP	29	38.60	5.6X	
RKT	64.06	111	iP	29	33.50	-1.6	
	1.4s	305.00nm			6.3mb		
TIY	64.44	320	Pd	29	36.40	-1.0	
	6.0s	5800.00nm			6.9mb X		
Z	22s	37.30um			6.5Msz		
N	16s	22.40um					

09d 16h

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                sP     29 52.00
                PP     32 06.50
XAN   64.66 315 Pd     29 37.50   -1.3
      1.0s   200.00nm          6.3mb
    N 16s     15.00um
    E 16s     11.70um
KHT   64.84 291 iPd    29 39.90   -0.3
ADK   65.00  16 ePc    29 40.90    0.3
      1.0s   660.00nm          6.8mb
KMI   65.04 304 iPd    29 42.50    0.8
      3.0s  1000.00nm          6.5mb
    Z 25s     18.40um          6.2MszX
                pP     29 47.50   16kmX
                e      30 01.04
                eS     38 29.72
                ScS    39 36.00
BSI   65.42 281 ePc    29 44.00    0.0
      1.0s   305.00nm          6.4mb
CHG   65.86 296 iPd    29 46.90    0.1
                eS     38 40.00
CHTO  65.86 296 iPd    29 46.38   -0.4
                ec     29 58.13
CD2   66.83 310 iPd    29 52.00   -0.8
      1.2s   300.00nm          6.4mb
    Z 30s     49.70um          6.5MszX
    N 15s     17.70um
                PP     32 16.00
                S      38 39.00
                sS     38 58.00
HHC   66.88 322 iPd    29 53.00   -0.1
      1.2s   300.00nm          6.4mb
    Z 42s     89.70um          6.7MszX
    N 17s      8.00um
    E 15s     12.90um
                SKS    39 45.00
BTO   67.67 322 iPd    29 58.00   -0.1
      5.0s  7100.00nm          7.1mb X
    N 16s     15.00um
    E 16s     17.00um
SBA   68.02 178 iPc    30 03.90    4.4X
                iS     39 04.40
HIA   68.33 333 ePd    30 01.86   -0.1
                eS     39 09.68
                e      39 13.98
                eSS    43 26.52
LZH   69.27 315 iPd    30 08.88    0.7
      1.2s  1120.00nm          6.9mb
    Z 30s     52.70um          6.6MszX
    N 15s     10.20um
                ScP    34 28.50
                eS     39 19.06
                i      39 23.70
                id     39 44.06
                eScS   40 03.42
                eSS    43 37.00
SDN   73.25  23 eP     30 29.60   -1.8
      0.8s   248.28nm          6.3mb
    Z 20s     33.10um          6.6Msz
GTA   73.68 316 iPd    30 34.80    0.4
      1.6s   460.00nm          6.3mb
    Z 46s     73.90um          6.6MszX
    N 18s     26.10um
                PcP    30 45.00
                sP     30 47.00
                PP     33 24.00
                S      40 05.00
                SKS    40 34.00
                ScS    40 42.00
                SS     44 54.00
LSA   76.30 304 iP     30 50.00   -0.1
      5.5s  2300.00nm          6.5mb X
    Z 15s     40.90um          6.9MszX
                S      40 38.00
IRK   77.67 329 eP     30 56.00   -0.6
                eS     40 43.00
SVW   79.21  21 ePd    31 05.40    0.4
ILT   79.24   8 iPd    31 04.60   -0.3
                iS     41 06.00
GUN   80.13 301 Pd     31 11.08    0.0
SPA   80.14 180 iPd    31 09.50   -0.6
      1.0s   352.50nm          6.3mb
    Z 20s      4.50um          5.8MszX
                i      42 44.10
TTA   80.37  19 ePd    31 11.40    0.1
PKI   80.44 300 Pd     31 12.52   -0.2
      1.2s   679.00nm          6.5mb
KKN   80.61 300 Pd     31 13.42    0.0
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      1.4s  1337.00nm          6.8mb
DMN   80.70 300 Pd     31 14.30    0.3
      1.2s  1731.00nm          6.9mb
GKN   81.21 300 Pd     31 16.48   -0.1
      1.1s  1298.00nm          6.9mb
PAF   81.86 221 iPd    31 25.00    5.8X
                ePPP   36 20.00
                eS     41 40.00
                eSS    46 50.00
                eSSS   50 52.00
PMR   81.87  22 ePd    31 18.40   -0.6
      0.9s   117.90nm          6.0mb
    Z 22s      7.66um          6.0Msz
KLU   83.04  23 P      31 25.00   -0.2
MAW   83.28 203 eP     31 30.80    4.5X
    Z 19s    116.00um          7.3Msz
IMA   83.29  18 ePd    31 26.40   -0.1
TOA   83.30  23 ePd    31 27.00    0.5
KOD   83.67 282 iPd    31 30.50    0.9
      1.4s   404.65nm          6.4mb
WMQ   83.76 316 iPd    31 29.68    0.4
      1.0s   400.00nm          6.6mb
    Z 28s     31.80um          6.5MszX
                ePP    34 38.87
                iS     41 54.00
TIK   83.84 351 iPd    31 27.50   -1.5
                eS     41 53.00
HYB   84.09 289 eP     31 31.40    0.0
      1.0s   295.00nm          6.5mb
                eS     41 55.50
GBA   84.36 285 P      31 33.30    0.6
COL   84.40  20 ePd    31 30.70   -1.2
                eS     42 03.74
                eSKS   42 06.06
FBA   84.40  20 iPd    31 30.00   -1.9
SIT   85.44  30 eP     31 39.20    2.0
BRW   86.22  13 ePd    31 40.70   -0.1
FHC   86.66  48 eP     31 45.60    1.9
PCC   86.98  51 eP     31 46.30    1.0
GCC   87.16  52 eP     31 47.00    0.9
BRK   87.17  51 ePc    31 47.30    1.1
                e      33 38.00
                e      34 22.80
                eS     42 25.00
                ePS    43 16.00
                e      48 56.00
                eSSS   51 38.00
                eLQ    54 32.80
                eLR    58 52.00
BKS   87.19  51 eP     31 42.00   -4.3X
      1.6s   525.00nm          6.5mb
    Z 20s     46.00um          6.9Msz
    N 20s     13.00um
    E 20s     39.00um
                ePP    35 18.00
                eS     42 26.00
                eSS    47 14.00
                eSSS   51 40.00
                eLQ    54 26.00
                eLR    57 56.00
ZSP   87.19  51 eP     31 47.50    1.2
PRS   87.47  53 ePc    31 48.50    0.8
MHC   87.51  52 eP     31 48.30    0.3
SAO   87.52  52 eP     31 49.90    2.0
ARN   87.60  52 P      31 48.00   -0.3
WDC   87.66  48 eP     31 48.80    0.3
NDI   87.72 299 iP     31 48.00   -1.0
LLA   87.88  52 ePc    31 51.30    1.6
PRI   87.98  53 eP     31 51.20    0.9
SYP   88.15  55 eP     31 52.00    0.8
ORV   88.17  49 ePc    31 50.00   -1.0
COR   88.18  44 ePd    31 51.73    0.9
                eS     42 46.21
MIN   88.29  49 eP     31 52.00    0.3
SBC   88.35  55 ePd    31 52.73    0.8
                eS     42 46.84
CMB   88.65  51 eP     31 53.17   -0.2
POO   88.70 289 eP     31 55.50    1.6
FRI   88.93  52 ePd    31 54.70    0.1
SCI   88.97  56 eP     31 57.20    2.2
CIS   89.18  56 eP     31 58.00    2.0
PGC   89.19  40 eP     32 00.00    4.4X
PAS   89.53  55 ePd    31 57.78    0.2
                ePP    35 29.73
                eS     42 54.86
                esS    43 00.16
                eSS    48 49.00
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                eSSS   52 15.00
                iLg    55 22.00
                eLR    58 08.00
ISA   89.61  54 ePd    31 58.42    0.4
MWC   89.63  55 eP     31 58.00   -0.3
LON   89.75  42 ePd    31 57.26   -1.2
                ePP    35 23.42
                eHPP   35 24.91
SBB   89.92  55 eP     32 00.00    0.5
RMW   89.94  42 P      32 00.00    0.7
CPE   90.14  57 eP     32 02.80    2.4
RVR   90.14  56 eP     32 00.00   -0.4
CLC   90.34  54 eP     32 01.00   -0.4
KVN   90.62  51 P      32 02.00   -0.8
GSC   90.87  54 eP     32 04.00    0.2
IKP   90.91  57 eP     32 06.80    2.7
KSH   91.01 310 P      32 06.00    1.6
INK   91.03  20 ePd    32 02.10   -1.6
      2.0s   602.00nm          6.6mb
TNP   91.10  52 ePd    32 04.00   -1.0
      1.0s     0.10nm          3.1mb X
TPC   91.24  56 eP     32 05.00   -0.6
PNT   91.80  40 eP     32 08.00    0.3
      1.0s    79.00nm          6.0mb
GLA   92.05  57 eP     32 10.00    0.7
FRU   92.69 313 ePd    32 12.00    0.0
NEW   93.19  42 ePd    32 12.78   -1.4
      1.2s     0.11nm          3.1mb X
CRZF  94.51 221 iPc    32 31.00   10.7X
MSU   95.08  52 P      32 24.00    0.6
LRM   95.93  45 eP     32 26.40   -0.7
EDM   96.38  37 eP     32 29.00    0.3
QUE   96.79 299 iP-    32 30.30   -1.0
      1.0s   404.13nm          6.9mb
                eSKS   43 03.00
                eS     43 24.50
YKA   97.00  28 eP     32 28.90   -2.3
      1.6s    31.30nm          5.7mb
MBC   97.55  14 eP     32 33.50    0.0
      1.0s    25.00nm          5.8mb
BW06  97.61  48 ePd    32 33.00   -1.8
AIA   98.39 163 eP     32 42.10    4.5X
ALQ   99.20  56 eP     32 42.00    0.0
      1.0s    15.00nm          5.6mb
    Z 22s     55.56um          7.0Msz
ANMO  99.20  56 P      32 42.50    0.5
    Z 22s     52.78um          7.0Msz
GOL  100.47  51 Pdiff  32 53.00    5.1X
    Z 22s     40.00um          6.9Msz
GLD  100.59  51 Pdiff  32 53.00    4.7X
    Z 22s     41.71um          6.9Msz
RSSD 101.72  47 Pdiff  33 03.00    9.7X
    Z 22s     69.84um          7.1Msz
FFC  103.17  36 ePdiff 32 59.00   -0.1
      1.5s    35.00nm          5.9mb
MEO  105.65  57 e(Pdif 33 13.50    2.8X
TUL  107.94  55 Pdiff  33 06.90  -13.9X
    Z 22s     62.20um          7.1Msz
    N 19s     10.06um
    E 21s     45.90um
                LQ     03 54.40
                LR     09 08.00
KBS  109.17 354 ePdiff 33 30.00    4.7X
CCM  111.49  53 ePdiff 33 40.46    3.9X
                ePP    38 17.12
                eHPP   38 20.93
                ePS    47 43.52
SLM  112.23  52 PKP    37 40.00    3.7X
    Z 22s     60.24um          7.1Msz
APA  112.31 340 ePdiff 33 44.90    5.4X
KEV  112.99 344 ePKP   37 36.00   -0.8
                e      38 28.00
                e      44 28.00
                e      47 56.00
                e      49 24.00
DAG  113.17 359 ePKP   37 35.00   -2.0
      0.9s     7.56nm
SOD  114.56 342 ePKP   37 45.00    5.0X
LNV  115.16 135 ePKP   37 49.00    6.9X
NPA  115.46 248 ePKP   37 55.80   12.6X
PEL  116.11 134 ePKP   37 47.50    3.4X
RSCP 116.25  55 PKP    37 43.00   -1.2
    Z 22s     51.85um          7.1Msz
OBN  116.41 327 ePdiff 33 56.00   -2.0
    Z 30s     45.50um          6.9MszX
PUL  117.41 334 ePKP   37 50.00    4.4X
KAF  117.78 337 ePKP   37 43.60   -2.6X
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      0.9s     28.10nm
DVD   119.26  86 ePdiff34 19.80    8.2X
NUR   119.37 336 iPKP   37 47.80  -1.5
      0.8s     23.40nm
   Z  24s     17.70um         6.6MszX
                 e      39 16.00
                 e      49 12.00
                 LR     28 30.00
SEK   119.66 229 iPKPc  37 55.00   3.9X
      1.0s     60.00nm
HVD   119.97 226 ePKP   37 55.60   4.0X
      1.9s     40.00nm
                 i      48 02.50
BLA   120.11  53 PKP    37 55.00   3.5X
BLA   120.11  53 ePdiff34 24.80    9.8X
   Z  22s     38.52um          7.0Msz
NNA   120.26 110 ePKP   37 55.00   2.6X
      1.2s     35.94nm
   Z  20s      4.08um          6.1Msz
LHS   120.27  56 PKP    37 50.00  -1.8
BLF   120.30 228 ePKP   37 54.50   2.2
SLR   120.49 232 ePKP   37 51.50  -1.2
      1.0s     80.00nm
SLR   120.49 232 iPKPc  37 53.50   0.8
      1.5s    110.00nm
                 i      47 59.90
PRY   120.50 231 iPKPc  37 54.50   1.8
      1.5s     60.00nm
                 i      39 32.00
AAE   121.25 275 ePKP   37 54.80   0.1
SCP   121.25  48 ePKP   37 52.69  -0.9
                 ePP    39 23.78
                 eHPP   39 25.16
SIM   121.47 317 ePdiff34 24.00    3.2X
UPA   122.18  86 (Pdiff34 40.00   15.3X
   Z  20s      9.22um          6.4Msz
CER   122.44 220 iPKPc  37 58.00   1.9
      1.4s     10.00nm
UPP   122.48 338 ePdiff34 29.00    4.1X
UPP   122.48 338 iPKP   38 07.10  11.9X
                 iPP    39 22.00
                 iPKKP  49 14.00
BUL   122.88 238 iPKPd  37 59.20   1.8
                 ipP    38 03.50
                 iSKS   49 34.00
MDSJ  123.07 301 PKPd   37 59.59   2.2
GHZJ  123.17 300 PKPc   37 58.31   0.7
JARJ  123.23 302 PKPd   37 59.50   1.8
LPA   123.26 144 ePKP-  38 10.00  12.5X
   Z  20s      9.93um          6.5Msz
                 ePP    39 28.00
BURJ  123.35 302 PKPd   38 01.11   3.2X
KRI   123.45 242 iPKPc  37 45.50 -13.1X
                 ipP    38 02.50
                 iSKS   49 17.50
ARE   123.46 117 ePKP   37 56.00  -2.8X
SALJ  123.49 302 PKPd   37 59.77   1.6
MASJ  123.51 301 PKPd   38 00.11   1.8
HBVT  123.54  43 PKP    37 56.00  -1.8
MKRJ  123.60 301 PKPd   37 57.19  -1.3
MML   123.64 302 ePKP   38 00.00   1.5
NB2   123.78 342 PKP    37 57.20  -0.6
      0.9s     31.80nm
LISJ  123.79 301 PKPd   38 00.17   1.5
DSI   123.82 301 ePKP   38 00.50   1.7
PNJ   123.92  47 PKPd   37 59.30   0.6
                 SKS    47 48.90
BBTK  124.00 312 iPKPd  37 58.00  -1.0
                 i      39 40.00
AKU   124.29 359 ePKP   38 02.80   4.2X
      1.1s     45.57nm
                 i      49 33.10
MBH   124.53 299 ePKP   38 02.00   1.7
HRV   125.22  44 ePdiff34 37.57   -0.1X
                 eSKS   45 16.32
                 ePS    49 56.12
GPA   125.65 313 ePKP   38 06.40   4.3X
CBM   125.66  38 PKP    38 01.40  -0.5X
REY   125.87   1 iPKP   38 06.90   5.2X
HRT   125.93 314 ePKP   38 02.00  -0.7
VRI   125.93 320 ePKPc  38 03.50   1.0
ALT   126.20 311 ePKP   38 07.00   3.7X
ITU   126.30 314 ePKP   38 08.00   4.7X
CVO   126.30 321 ePKP   38 08.00   4.8X
CNCB  126.36 119 ePKP   37 57.00  -7.8X
                 i      38 04.70
LPB   126.38 119 PKPc   38 03.80  -0.9

                 SKS    45 15.00
                 SS     57 12.00
ZOBO  126.48 119 Pdiffc35 02.00   17.4X
                 i      38 11.00
                 SKS    45 17.00
ZOBO  126.48 119 ePKPd  38 04.10  -1.0
                 ePP    40 04.81
                 eHPP   40 05.92
                 eSKP   41 28.96
MLR   126.59 320 ePKP   38 02.50  -1.4
KHL   126.86 311 ePKP   38 03.70  -0.9
BUC   126.97 319 ePKP   38 02.00  -2.4X
BMR   127.04 324 ePKPd  38 07.00   2.5X
BUC1  127.04 319 ePKPd  38 02.00  -2.6X
                 e      39 32.80
ELL   127.05 309 ePKP   38 03.00  -2.0
KCT   127.07 313 iPKP   38 05.30   0.5
UZH   127.22 325 iPdiff34 46.00   -0.3X
CMP   127.26 320 iPKPc  38 06.00   0.9
BNT   127.34 314 ePKP   38 06.30   1.0
EDC   127.39 314 ePKP   38 06.00   0.6
COP   127.41 337 ePKP   38 07.00   2.1
   Z  21s     18.28um          6.7Msz
                 i      40 08.00
                 eSKS   50 03.00
JMB   127.46 317 ePKP   38 04.00  -1.5
HLW   127.54 300 ePKP   38 06.00   0.0
                 i      40 04.00
TNR   127.56 321 ePKPd  38 11.00   5.4X
COZ   127.67 321 ePKP   38 07.00   1.0
KRA   127.71 328 ePdiff34 57.00    8.5X
                 e      38 06.70
                 e      40 05.00
                 e      50 14.00
PVL   127.99 318 ePKP   38 09.00   2.6X
MUD   128.02 339 ePKP   38 08.00   2.0
      1.0s     28.00nm
                 e      40 08.00
DHLJ  128.15 301 PKPd   38 00.29  -6.8X
YER   128.17 310 ePKP   38 03.00  -4.1X
DEV   128.29 322 ePKPd  38 10.00   3.1X
KDZ   128.59 316 ePKP   38 10.00   2.3
EZN   128.68 314 ePKP   38 08.70   0.9
PLD   128.88 317 ePKP   38 07.00  -1.2
PGB   129.05 318 ePKP   38 11.00   2.4
RZN   129.05 316 iPKPd  38 07.00  -1.8
                 i      40 21.00
KSP   129.07 330 ePKP   38 05.00  -3.3X
      1.8s    166.00nm
                 ic     38 13.20
                 e      40 14.00
TIM   129.37 323 iPKPc  38 10.00   1.0
BRN   129.44 334 ePKP   38 10.50   1.6
VTS   129.66 318 iPKP   38 09.00  -0.9
BUD   129.69 326 e(PKP)38 09.00   -0.5
MMB   129.76 317 ePKP   38 11.00   1.1
SRO   129.89 326 ePKP   38 08.90  -1.0
KKB   130.07 317 ePKP   38 11.00   0.5
CLL   130.30 333 iPKP   38 10.20  -0.4
      2.5s    330.00nm
   Z  21s     17.00um          6.7Msz
                 e      38 31.00
                 iPP    40 22.00
                 e      40 38.00
UZD   130.45 325 e(PKP)38 12.00    1.0
PRU   130.48 331 ePKP   38 10.50  -0.5
   Z  23s     23.70um         6.8MszX
   N  23s     28.30um
   E  22s     14.40um
                 e      38 17.80
                 i      38 30.00
                 PP     40 24.00
                 PKS    41 38.00
                 ePS    50 30.00
                 eSS    57 40.00
VAY   130.66 317 iPKP   38 11.00  -0.6
                 i      40 28.00
                 i      41 47.40
VKA   130.69 328 ePKP   38 11.00  -0.4
      6.5s   2668.00nm
   Z  24s     12.50um         6.5MszX
                 ic     38 12.60
                 i      38 34.90
                 i(PP)  40 33.30
                 ipPP   40 44.10
                 LR     36 27.00
WIN   130.74 229 iPKPc  38 13.60   1.0

      1.5s    164.00nm
SDV   130.92  87 ePKP   38 11.80  -1.3
SKO   131.11 318 ePdiff35 06.00    2.1
SKO   131.11 318 iPKPc  38 12.40   0.0
      2.2s    243.00nm
                 i      38 18.50
                 i      38 23.60
                 i      38 32.00
                 i      38 42.20
                 i      38 56.40
                 i      40 28.50
                 i      40 53.00
                 i      41 45.00
                 i      41 49.50
                 e      43 13.00
                 i      49 45.80
                 i      52 34.00
                 i      58 14.50
                 i      58 53.00
                 i      59 28.00
                 i      59 57.00
                 i      03 44.00
MOX   131.40 333 ePdiff35 09.00    4.1X
MOX   131.40 333 ePKP   38 13.00   0.3
   Z  22s     23.20um          6.8Msz
   N  21s     20.50um
   E  20s      9.00um
KHC   131.52 330 PKPc   38 13.50   0.5
      1.5s     89.00nm
   Z  22s     31.50um          7.0Msz
   N  22s     19.30um
   E  22s     19.50um
                 e      40 40.00
WIT   131.79 338 e(PKP)38 18.50    5.2X
TOV   131.83  86 ePKP   38 13.50  -1.1
WET   131.85 331 ePKP   38 14.00   0.4
   Z  19s     19.00um          6.8Msz
OHR   131.94 318 ePKP   38 10.00  -4.1X
      2.0s    581.00nm
                 i      38 19.10
                 e      41 33.00
                 i      49 47.30
KMR   131.95 329 iPKP-  38 13.30  -0.5
                 iPP    40 37.00
                 i      40 57.30
GRF   132.25 332 iPKPc  38 14.70   0.3
   Z  22s     25.00um          6.9Msz
                 e      38 20.20
                 e      38 27.10
                 e      38 46.10
TTG   132.29 320 ePKP   38 14.00  -0.6
PTJ   132.33 326 ePKPc  38 13.70  -1.0
ZAG   132.36 325 ePKPc  38 15.80   1.1
WTS   132.39 337 ePKP   38 14.00  -0.5
      1.0s     39.00nm
                 e      38 28.50
                 ePP    40 38.00
SIV   132.59 122 PKP    38 08.20  -7.8X
                 i      38 16.80
EKA   132.60 346 PKP    38 18.00   3.2X
      1.3s     53.70nm
BHG   132.81 329 ePKP   38 11.30  -4.2X
DBN   132.91 338 ePKP   38 16.00   0.5
   Z  22s     25.60um          6.9Msz
                 e      38 32.00
                 ePP    40 38.00
                 ePPS   52 33.00
                 eSS    58 30.00
                 eSSS   03 00.00
VBY   132.96 325 ePKPc  38 17.10   1.3
                 e      49 50.00
KBA   132.99 328 e(PKP)38 12.00   -4.1X
                 i      38 21.20
                 i      38 22.70
                 e      40 27.00
                 i      40 44.50
                 i      49 49.40
                 i      50 40.40
LJU   133.03 327 ePKP   38 15.00  -0.9
                 e      41 40.00
BNS   133.05 336 ePKPc  38 14.30  -1.5
   Z  27s     42.10um         7.0MszX
                 ed     40 45.90
TNS   133.09 334 ePKP   38 14.80  -1.2
CEY   133.27 326 ePKP   38 17.00   0.5
FUR   133.30 331 iPKPc  38 16.90   0.5
   Z  19s     12.00um          6.6Msz
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09d 16h

VOY	133.38	327	ePKP	38	15.30	-1.4			1.3s	75.80nm					TIO	155.58	331	iPKP	38	54.00	-0.3
			ePP	41	10.60		BGF	138.29	335	ePKP	38	20.10	-5.8X				i	39	27.00	
			ePKS	41	47.00		PLDF	138.43	334	PKP	38	22.56	-3.7X		KIC	163.66	259	PKPc	39	04.24	0.8
FVI	133.60	328	PKP	38	19.50	2.5X	VAO	138.47	142	ePKP	38	21.70	-5.3X		LIC	163.90	258	PKP	39	04.40	0.7
HVAR	133.63	322	ePKP	38	14.90	-2.3				e	38	31.10			TIC	163.99	259	PKP	39	04.42	0.6
TRI	133.65	327	ePKP	38	18.00	0.9				i	38	36.30			LKO	164.94	270	PKP	39	05.14	0.5
			e	39	42.00					i	38	40.60			MBO	174.15	320	iPKPd	39	11.10	1.3
			e	52	38.00		LPF	138.51	340	ePKP	38	20.60	-5.6X			S.D. = 1.1 on 334 of 467 obs.						
			e	03	46.00			1.4s	187.35nm													
			LR	23	16.00		MAF	138.67	335	ePKP	38	21.30	-5.3X		FEB 09, 1991 16h 30m 32.53± 0.11s						
ENN	133.70	337	ePKP	38	16.50	-0.5		1.4s	69.70nm						9.858 S ± 3.0km 159.174 E ± 2.6km						
	1.0s	60.00nm					TCF	138.76	336	ePKP	38	21.20	-5.6X		DEPTH = 10.0km (geophysicist)						
			e	38	31.00			1.3s	90.25nm						5.9mb (46 obs.) 6.4Msz (2 obs.)						
			ePP	40	43.50		PYM	138.86	334	PKP	38	22.38	-4.7X		SOLOMON ISLANDS (193)						
			e(SKP)	42	05.00		LSF	139.07	336	ePKP	38	21.40	-5.9X		Complex event observed on broadband displacement seismograms.						
ABH	133.73	335	ePKP	38	17.49	0.3		1.5s	141.00nm													
MEM	133.79	336	PKP	38	18.30	1.1	LBL	139.17	334	PKP	38	23.64	-3.8X									
			e	40	48.30		MFF	139.42	338	ePKP	38	22.30	-5.6X									
UCC	134.27	338	PKP	38	19.00	0.9		1.3s	101.10nm						HNR	0.87	61	iP	30	47.00	-2.3
			e	40	54.00		PAG	139.82	77	ePKP	38	29.00	-0.6					iS	31	05.00	
			SP	51	17.00		RJF	139.85	335	ePKP	38	19.90	-8.8X		PVC	11.83	132	iPc	33	26.00	1.6
OGA	134.31	330	iPKPc	38	19.10	0.5		1.3s	43.30nm						DZM	14.01	151	iP	33	52.90	-0.5
GWF	134.38	334	PKP	38	18.74	0.3		Z 21s	42.50um				7.2Msz		MNDI	15.80	282	eP	34	21.00	4.0X
MGP	134.53	75	PKP	38	16.00	-3.5X	CAF	139.92	335	ePKP	38	20.70	-8.2X		RMO	19.26	209	iPd	35	00.00	-0.1
SNF	134.53	338	PKPc	38	19.50	0.9	BMA	140.35	145	ePKP	38	25.50	-4.9X		JAY	19.75	290	ePc	35	05.50	-0.2
			ed	40	50.90					e	38	35.00				1.0s	692.50nm			5.9mb	
CTI	134.55	328	PKP	38	20.70	1.7	LFF	140.46	336	ePKP	38	21.50	-8.3X		VUN	20.38	116	iPc	35	13.20	0.8
DOU	134.75	337	PKP	38	19.40	0.4		0.9s	34.40nm						SVA	20.42	116	eP	35	13.80	1.1
	Z 22s	19.10um				6.8Msz	LPO	140.49	335	ePKP	38	21.50	-8.4X		COO	21.70	197	eP	35	25.00	-0.8
			e	40	51.00			1.1s	48.85nm						OLP	21.83	218	eP	35	28.00	1.0
			SP	51	15.00		BCAO	140.56	265	iPKPc	38	22.80	-8.2X		CMS	24.83	208	eP	35	57.00	0.6
			e	54	17.00			0.7s	171.00nm						CNB	26.87	198	eP	36	16.00	0.5
WLS	134.92	334	PKP	38	19.58	0.0				id	38	29.00			GUA	27.21	328	eP	36	19.10	0.4
CDF	134.96	334	PKP	38	19.41	-0.2				id	38	44.30				1.0s	720.00nm			6.3mb	
FEL	135.03	333	PKP	38	19.84	0.0				id	41	41.10			PJG	27.28	328	eP	36	19.50	0.3
ECH	135.16	334	PKP	38	19.58	-0.4	EPF	142.19	334	ePKP	38	23.90	-9.2X		KNA	30.20	256	eP	36	45.00	-0.6
SJG	135.41	74	ePKP	38	19.00	-2.3	BAO	143.03	133	ePKPd	38	30.50	-4.8X		TOO	30.23	202	eP	36	46.00	0.3
SAL	135.43	329	PKP	38	28.20	7.7X	BDF	143.07	133	ePKPd	38	29.12	-6.3X		BFD	31.07	206	eP	36	54.00	1.0
MOF	135.44	333	PKP	38	20.52	-0.1				eHPP	41	42.53			WARB	34.80	238	iPc	37	25.10	-0.6
ARV	135.50	325	PKP	38	23.60	2.9X				ePP	41	43.85				0.5s	84.00nm			5.9mb	
BBS	135.56	333	PKP	38	20.52	-0.3	ESEL	143.53	329	ePKP	38	39.70	4.3X		DAV	37.46	295	eP	37	48.00	-0.3
BSF	135.61	333	PKP	38	20.95	0.0	EBR	143.89	332	iPKP	38	32.00	-3.9X		MBL	39.43	249	iPd	38	03.30	-1.4
TDS	135.62	318	PKP	38	25.00	3.9X				ePP	42	04.00				0.7s	98.00nm			5.6mb	
CPD	135.64	74	PKP	38	20.00	-1.7	EMON	144.60	343	ePKP	38	39.60	2.5		MEKA	41.82	241	eP	38	24.30	-0.1
VITF	135.67	334	PKP	38	21.12	0.3	ETOR	145.02	335	ePKP	38	36.90	-1.1		BKB2	42.89	279	iPc	38	37.50	4.3X
HAU	135.67	334	ePKP	38	14.40	-6.5X	STS	145.45	344	ePKP	38	42.00	3.5X		TSM	43.27	287	ePd	38	40.00	3.7X
	1.1s	29.30nm					ERUA	145.50	342	ePKP	38	40.40	1.7		NANU	43.61	248	eP	38	39.10	0.1
	Z 21s	40.00um				7.1Msz	ECHE	145.55	332	ePKP	38	39.10	0.2			0.7s	78.00nm			5.6mb	
MDI	135.73	329	PKP	38	21.00	0.0	GUD	146.02	337	ePKP	38	40.30	0.5		MRWA	44.70	238	eP	38	47.20	-0.6
ETA	135.73	347	ePKP	38	33.90	13.1X	TOL	146.63	336	ePKPd	38	41.75	1.1			0.3s	8.00nm			5.1mb	
	1.5s	200.00nm								iPKKP	38	57.00			OCP	44.93	302	eP	39	05.00	15.3X
SGO	135.80	320	PKP	38	24.30	3.0				ePKS	41	37.00			KKM	45.62	289	ePd	38	56.00	0.7
SFI	135.84	326	PKP	38	19.80	-1.5				eHPP	42	17.67				1.1s	137.00nm			5.8mb	
CRE	135.98	326	PKP	38	25.10	3.3X				ePP	42	18.83			BAG	46.25	304	eP	39	00.60	0.2
SDI	136.07	322	PKP	38	23.70	1.8				eSKS	45	30.00			KAGJ	49.00	327	eP	39	22.20	0.7
VAI	136.13	330	PKP	38	22.00	0.2				ePPS	54	07.00			KAKJ	49.19	340	P	39	23.00	0.2
AZI	136.13	323	PKP	38	25.90	4.0X				iSS	01	55.00			WKYJ	49 22	334	P	39	23.40	0.2
ECP	136.25	347	ePKP	38	26.70	4.9X	PTO	147.08	343	ePKP	38	34.50	-6.7X		IIDJ	49.36	337	P	39	24.50	0.2
	1.1s	189.00nm								ePS	52	23.00			CHJJ	49.46	338	P	39	24.70	-0.3
FIR	136.26	326	ePKP	38	22.00	-0.1	EPLA	147.23	339	ePKP	38	43.30	1.7		TKSJ	49.70	332	P	39	27.50	0.7
MNS	136.34	324	PKP	38	23.30	0.9	EBAN	147.97	334	ePKP	38	46.30	3.5X		AFR	50.06	105	iP	39	29.20	-0.6
PPD	136.40	137	ePKP	38	21.40	-1.7	ENIJ	148.24	331	ePKP	38	46.20	2.9X			1.0s	115.00nm			5.8mb	
			e	38	26.70		ECOG	148.61	333	ePKP	38	47.50	3.5X		KUMJ	50.09	328	eP	39	30.50	0.7
			e	38	36.40		AFC	148.62	333	ePKP	38	46.80	2.7X		TSRJ	50.18	335	P	39	31.00	0.5
SOI	136.63	316	PKP	38	26.50	3.5X	EHOR	148.87	336	ePKP	38	48.70	4.5X		MAT	50.19	338	iPd	39	29.80	-0.8
ORO	136.69	330	PKP	38	24.70	1.6	MAL	149.44	333	iPKP-	38	44.00	-1.1			1.6s	386.67nm			6.1mb	
RSL	137.29	332	PKP	38	24.38	0.1	EPRU	149.60	335	ePKP	38	50.10	4.7X		PAE	50.25	105	iP	39	30.70	-0.6
LOR	137.30	335	ePKP	38	18.10	-5.9X	EVAL	149.67	337	ePKP	38	50.00	4.5X			1.0s	75.00nm			5.6mb	
	1.7s	147.05nm					LIJA	149.73	335	ePKP	38	51.50	5.8X		PPT	50.25	105	iP	39	31.00	-0.3
	Z 21s	30.00um				7.0Msz	ALJ	150.00	335	ePKP	38	55.00	8.9X			1.0s	90.00nm			5.7mb	
LPL	137.37	331	ePKP	38	18.80	-5.7X	GIBL	150.01	336	ePKP	38	52.00	6.0X		MTMJ	50.38	338	P	39	31.70	-0.4
	1.2s	53.55nm					EJIF	150.13	335	ePKP	38	52.80	6.6X		PPN	50.39	105	iP	39	31.90	-0.4
LPG	137.37	331	ePKP	38	19.00	-5.6X	CNIL	150.45	335	ePKP	38	57.00	10.4X			1.0s	40.00nm			5.3mb	
LBF	137.48	335	ePKP	38	18.50	-5.9X	OJEN	150.46	334	ePKP	38	57.00	10.2X		NIIJ	50.53	339	P	39	33.20	0.1
GRC	137.60	336	PKP	38	23.59	-1.0	PLAT	150.54	335	ePKP	38	52.00	5.2X		TVO	50.57	105	iP	39	33.60	-0.2
SSF	137.61	335	ePKP	38	18.40	-6.2X	PDCR	151.24	141	ePKP	38	47.40	-1.0			1.0s	195.00nm			6.0mb	
	1.2s	87.75nm								e	38	51.80			TBI	50.77	112	iP	39	35.80	0.7
FLN	137.69	340	ePKP	38	18.60	-6.1X				e	40	26.30				1.2s	135.00nm			5.8mb	
	1.4s	113.25nm								e	42	31.80			YONJ	50.97	333	P	39	36.60	0.1
	Z 22s	67.50um				7.3Msz	PDA	151.97	8	iPKPc	38	59.20	10.3X		YAMJ	51.02	341	P	39	37.00	0.2
LDF	137.72	340	ePKP	38	18.70	-6.1X	IFR	152.42	331	iPKPc	38	51.00	1.1		SHNJ	51.22	330	P	39	36.90	-1.4
	1.3s	72.20nm								i	38	57.50			SHNJ	51.22	330	eP	39	38.00	-0.3
BNI	137.74	331	PKP	38	28.30	3.2X				i	39	10.50			OFUJ	51.34	343	P	39	38.70	-0.5
SMF	137.80	335	ePKP	38	19.00	-6.0X				i	50	25.00			PMO	51.85	101	iP	39	43.40	0.0
	1.1s	46.40nm					AVE	153.65	334	ePKP	38	52.00	0.6			1.0s	125.00nm			5.8mb	
AVF	137.89	335	ePKP	38	19.20	-5.9X				i	39	14.50			VAH	52.10	102	iP	39	45.00	-0.3
GRR	138.14	340	ePKP	38	19.70	-5.8X				i	50	26.00				1.0s	55.00nm			5.4mb	

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TPT	52.11	101	iP	39	45.30	-0.2	FBA	84.32	20	iPd	43	04.20	-1.5	KRA	127.67	328	ePKP	49	39.60	-0.2
	1.0s	100.00nm			5.7mb			0.8s	96.55nm			6.1mb		KSP	129.03	330	iPKPc	49	42.50	0.2
KIP	52.28	53	ePd	39	41.29	-5.3X				ipP	43	14.60	33kmX	SRO	129.85	326	ePKP	49	43.40	-0.6
RUV	52.34	102	iP	39	46.80	-0.4				esP	43	17.00		CLL	130.26	333	i(PKP)	49	44.80	0.2
	1.0s	80.00nm			5.6mb		GBA	84.38	285	P	43	08.20	1.3		1.3s	24.00nm				
OPA	52.42	53	eP	39	47.00	-0.7	BRW	86.14	13	ePd	43	15.40	0.8	PRU	130.44	331	ePKPd	49	48.30	3.3X
			epP	39	57.50	36kmX	FHC	86.58	48	eP	43	19.00	1.5				e	49	58.50	
QZH	52.55	312	Pc	39	49.50	0.9	PCC	86.91	51	eP	43	19.40	0.3				e	50	16.00	
AOMJ	53.09	342	P	39	52.60	0.3	GCC	87.09	52	eP	43	20.70	0.7	SDV	130.88	87	iPKPc	49	46.30	-0.9
HOOJ	53.98	345	P	39	59.30	0.5	BRK	87.10	51	eP	43	20.80	0.8	KHC	131.48	330	PKP	49	47.40	0.3
KUSJ	54.33	347	P	40	00.60	-0.8	BKS	87.12	51	iPd	43	20.80	0.7	TOV	131.79	86	ePKP	49	48.20	-0.5
MRRJ	54.61	344	P	40	03.30	-0.1		0.9s	116.00nm			6.1mb		WET	131.80	331	iPKPc	49	48.00	0.3
SSE	54.63	320	Pc	40	03.80	0.0	ZSP	87.12	51	eP	43	21.20	1.1	GRF	132.20	332	iPKPc	49	48.50	0.1
	0.8s	230.00nm			6.3mb		PRS	87.40	53	eP	43	22.30	0.8	WTS	132.33	337	ePKP	49	48.50	0.0
			pP	40	14.20	34kmX	MHC	87.44	52	eP	43	23.00	1.1	EKA	132.54	346	PKPd	49	49.10	0.3
SAP	55.12	344	eP	40	08.00	0.8	SAO	87.45	52	eP	43	22.50	0.7		1.0s	14.20nm				
GZH	55.53	307	Pd	40	11.60	1.1	ARN	87.53	52	P	43	22.80	0.6	ENN	133.65	337	ePKP	49	51.00	-0.1
ASAJ	55.78	346	eP	40	12.30	0.4	WDC	87.58	48	iPd	43	23.00	0.7		0.9s	21.00nm				
QIZ	56.47	301	P	40	18.00	0.6	LLA	87.81	52	eP	43	24.30	0.8	MEM	133.74	337	PKP	49	51.60	0.4
NJ2	56.76	319	Pd	40	20.00	0.8	PRI	87.91	53	iPd	43	25.30	1.2	SNF	134.48	338	PKP	49	52.40	-0.3
	1.0s	400.00nm			6.4mb		SYP	88.08	55	eP	43	26.00	1.0	DOU	134.69	337	PKP	49	54.50	1.4
KGM	56.85	279	ePd	40	19.80	-0.4	ORV	88.10	49	ePd	43	25.20	0.4	CDF	134.91	334	ePKP	49	52.60	-1.1
WHN	58.87	315	Pd	40	34.00	0.0	BCH	88.15	54	P	43	26.20	0.9		1.1s	17.10nm				
	1.0s	100.00nm			5.9mb		MIN	88.21	49	eP	43	25.80	0.3	BSF	135.56	334	ePKP	49	53.80	-1.2
			pP	40	42.00	26kmX	CMB	88.58	51	ePd	43	27.20	0.0		1.1s	31.75nm				
IPM	59.68	281	ePd	40	39.60	-0.4	ABL	88.76	54	P	43	29.00	0.6	HAU	135.62	334	ePKP	49	54.00	-1.0
	1.2s	105.70nm			5.8mb		FRI	88.86	52	iPd	43	29.00	0.5		1.0s	16.00nm				
DL2	59.79	327	Pd	40	40.30	0.1	PAS	89.46	55	eP	43	32.00	0.6	PPD	136.43	137	ePKP	49	57.00	-0.3
	1.2s	600.00nm			6.6mb		ISA	89.54	54	eP	43	31.00	-0.8	LOR	137.25	335	ePKP	49	57.30	-0.8
MDJ	60.46	336	iPd	40	44.20	-0.6	MWC	89.57	55	eP	43	32.00	-0.2		1.3s	43.30nm				
	1.2s	500.00nm			6.5mb		LON	89.68	42	P	43	31.50	-0.7	LPL	137.32	331	ePKP	49	59.20	0.6
CN2	61.57	333	iPd	40	51.80	-0.5	SBB	89.85	55	eP	43	33.00	-0.3		1.1s	19.55nm				
	1.0s	400.00nm			6.5mb		RMW	89.86	42	P	43	33.00	-0.1	LPG	137.33	331	ePKP	49	59.40	0.7
			epP	41	03.00	38kmX	RVR	90.07	56	eP	43	35.00	0.7		0.9s	14.75nm				
GYA	62.47	307	iPd	40	59.20	0.4	BONR	90.16	52	P	43	35.50	0.5	SSF	137.56	335	ePKP	49	58.10	-0.6
	1.4s	200.00nm			6.1mb		PEC	90.23	56	ePd	43	35.20	0.2		1.3s	54.15nm				
NNT	63.11	290	eP	41	02.70	-0.3				e(pP)	43	46.60	36kmX	GRR	138.09	340	ePKP	50	00.30	0.7
			e	58	34.00		CLC	90.27	54	eP	43	35.00	-0.2		1.1s	29.30nm				
BJI	63.62	324	eP	41	06.00	0.0	KVN	90.55	51	P	43	37.20	0.6	BGF	138.24	335	ePKP	49	59.20	-0.8
	1.5s	270.00nm			6.2mb		GSC	90.80	54	eP	43	38.00	0.3		0.8s	13.45nm				
SMY	63.64	10	ePd	41	06.60	0.7	INK	90.95	20	eP	43	37.00	-0.5	LPF	138.46	340	ePKP	50	01.30	1.0
TIY	64.41	320	eP	41	11.00	-0.3	TNP	91.03	52	P	43	39.60	0.8		1.1s	58.60nm				
XAN	64.63	315	iPd	41	12.50	-0.3		0.9s	64.45nm			6.0mb		TCF	138.71	336	ePKP	50	00.20	-0.7
KHT	64.84	291	iPd	41	14.50	0.1	TPC	91.17	56	eP	43	40.00	0.6		1.4s	50.10nm				
ADK	64.92	16	iP	41	14.00	-0.3	PNT	91.72	40	iPc	43	41.50	0.0	RJF	139.80	335	ePKP	50	04.00	1.2
	1.0s	375.00nm			6.5mb			1.1s	46.00nm			5.8mb			1.1s	31.75nm				
			epP	41	23.80	31kmX	GLA	91.98	57	eP	43	44.00	0.9	LFF	140.41	336	ePKP	50	04.40	0.5
KMI	65.03	304	Pd	41	13.00	-2.8	NEW	93.12	42	P	43	47.00	-1.0		1.1s	39.05nm				
	2.0s	580.00nm			6.4mb			1.0s	31.25nm			5.7mb		BCAO	140.60	265	iPKPc	49	57.10	-8.1X
CHG	65.86	296	iPd	41	21.20	0.2	MSU	95.01	52	P	43	58.00	0.8		0.7s	6.00nm				
	1.1s	191.46nm			6.2mb		LRM	95.86	45	eP	44	01.20	0.2	ECRI	143.65	337	ePKP	50	07.40	-2.3
CD2	66.81	310	iPd	41	27.10	0.2	QUE	96.79	299	eP	44	05.00	-0.4	EMON	144.54	343	iPKPc	50	09.90	-1.3
HHC	66.85	322	Pd	41	27.50	0.5	YKA	96.92	28	eP	44	03.30	-1.7	ETOR	144.97	335	iPKPd	50	11.40	-0.7
	1.2s	200.00nm			6.2mb			0.9s	11.10nm			5.4mb		STS	145.39	344	iPKPc	50	12.50	-0.1
BTO	67.64	321	P	41	32.80	0.8	MBC	97.48	14	eP	44	07.50	0.2	ERUA	145.44	342	iPKPc	50	13.00	0.3
HIA	68.28	333	ePd	41	34.89	-0.9		0.7s	11.00nm			5.6mb		ECHE	145.50	332	iPKPd	50	12.90	-0.1
LZH	69.25	315	iPd	41	43.50	1.3	BW06	97.54	48	P	44	08.50	-0.1	GUD	145.96	337	ePKP	50	14.30	0.4
	1.0s	450.00nm			6.6mb			1.0s	17.50nm			5.6mb		TOL	146.58	336	iPKPc	50	17.00	2.3X
Z	18s	18.50um			6.4Msz		ALQ	99.13	56	eP	44	15.00	-0.9				ePKKP	50	35.00	
N	13s	7.16um						0.9s	7.35nm			5.3mb		EPLA	147.18	339	ePKP	50	18.40	2.7X
E	15s	9.28um					MEO	105.58	57	ePKP	48	52.20	-5.9X	EBAN	147.92	334	iPKPd	50	19.90	3.0X
			pP	41	53.50	32kmX	KAF	117.73	337	iPKP	49	18.80	-1.5	ENIJ	148.19	331	iPKPc	50	20.10	2.7X
SDN	73.17	23	eP	42	04.00	-1.1		0.9s	16.20nm					ECOG	148.57	333	ePKP	50	20.60	2.5X
	0.7s	1475.58nm			7.2mb X		NUR	119.32	336	iPKP	49	22.70	-0.6	AFC	148.57	333	iPKPd	50	20.40	2.2
GTA	73.65	316	iPd	42	09.40	1.0		0.9s	26.00nm					EHOR	148.82	336	iPKPd	50	22.40	4.1X
	1.2s	290.00nm			6.2mb		CVL	121.40	51	PKP	49	26.50	-1.6	EPRU	149.55	335	iPKPd	50	24.40	4.9X
Z	22s	20.10um			6.4Msz		NAI	121.58	262	iPKPc	49	32.00	2.6X	EVAL	149.61	338	iPKPd	50	24.60	5.1X
E	19s	23.30um						1.0s	53.00nm					LIJA	149.68	335	ePKP	50	25.50	5.7X
SVW	79.13	21	iPd	42	39.90	1.1	HBVT	123.46	43	PKP	49	30.80	-1.0	GIBL	149.96	336	ePKP	50	25.50	5.4X
TTA	80.29	19	iPd	42	45.60	0.6	MML	123.63	302	iPKPc	49	32.90	0.3	EJIF	150.08	335	iPKPc	50	25.90	5.6X
	1.0s	58.70nm			5.5mb		NB2	123.72	342	PKP	49	30.70	-1.2	CNIL	150.40	335	ePKP	50	27.00	6.3X
SLKM	80.70	23	iP	42	46.40	-0.7		1.0s	32.00nm					PLAT	150.49	335	ePKP	50	27.00	6.1X
			ipP	42	56.50	32kmX	TBR	123.73	47	PKP	49	31.50	-1.0	KIC	163.70	259	PKPc	50	37.96	0.3
PMR	81.79	22	iPd	42	52.40	-0.3	PNJ	123.85	47	PKPd	49	31.70	-1.0		1.4s	83.00nm				
			epP	43	02.20	31kmX	AKU	124.22	359	iPKP	49	33.10	0.5	LIC	163.95	258	PKPc	50	38.12	0.2
KLU	82.96	23	P	42	58.00	-1.0		1.0s	24.00nm						1.4s	88.00nm				
RND	83.03	21	iPd	42	58.20	-1.1	PRNI	124.34	300	iPKPc	49	33.90	-0.1	TIC	164.04	260	PKPc	50	38.26	0.2
			e	46	05.50		BNH	124.58	42	PKP	49	33.00	-1.0		1.4s	72.50nm				
IMA	83.22	18	iPd	43	00.80	0.5	RMN	124.63	300	iPKPc	49	34.30	-0.3	LKO	164.98	270	PKP	50	39.24	0.4
	0.8s	31.50nm			5.6mb		HRV	125.15	44	ePdiff	46	09.09	-2.4X		S.D. = 0.8		on 201 of 225 obs.			
TOA	83.22	23	iPd	43	01.40	1.1	CBM	125.58	38	e(PKP)	49	34.00	-1.9	----------						
	0.8s	212.90nm			6.4mb					ePKP	49	42.90		% FEB 09, 1991 16h 53m 52.16± 0.70s						
KOD	83.69	281	eP	43	05.20	1.3	CNCB	126.37	119	PKP	49	37.70	-1.3	38.701 N ± 6.3km 15.875 E ±11.0km						
WMQ	83.73	316	iPd	43	03.50	0.2	LPB	126.39	119	(Pdiff	46	35.00	16.9X	DEPTH = 10.0km (geophysicist)						
HYB	84.10	289	ePd	43	05.70	0.1	LPB	126.39	119	PKP	49	37.10	-1.8	SICILY						(398)
	1.2s	207.10nm			6.2mb			1.0s	56.00nm											
			e	43	16.00	32kmX	MLR	126.56	320	ePKPc	49	36.00	-2.0	MSI	0.56	207	P	54	03.90	0.5

09d 16h

		eSg	54	10.50		
ATN	0.63	211 P	54	05.20	0.4	
		eSg	54	12.90		
SOI	0.64	167 Pc	54	05.40	0.4	
		eSg	54	14.50		
TDS	1.02	20 P	54	12.70	1.2	
		eSg	54	26.00		
MNO	1.21	231 P	54	14.60	-0.2	
		eSg	54	31.20		
GIB	1.62	245 P	54	20.00	-0.9	
		eSn	54	39.50		
MEU	1.76	205 P	54	21.80	-1.2	
		eSg	54	43.50		
SGO	1.91	347 P	54	25.40	0.5	
		eSn	54	47.70		
FAI	2.25	231 P	54	31.00	1.1	
BRT	2.40	25 P	54	30.50	-1.6	

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

FEB 09, 1991 18h 12m 31.29± 0.34s
9.916 S ± 6.1km 159.056 E ± 5.9km
DEPTH = 10.0km (geophysicist)
4.9mb (5 obs.)
SOLOMON ISLANDS (193)

VSG	0.92	45 iP	12	48.50	-0.5	
		iS	12	56.00		
HNR	1.00	61 iPc	12	49.50	-0.8	
		iS	12	57.00		
SVO	1.07	45 iP	12	51.70	0.3	
		iS	13	03.00		
DZM	14.01	150 iPc	15	53.40	1.1	
RMQ	19.15	209 iPc	16	57.40	0.0	
QIS	21.52	238 eP	17	23.00	0.2	
COO	21.61	197 eP	17	23.00	-0.7	
CMS	24.73	208 eP	17	54.00	-0.1	
WB2	25.83	244 iPd	18	04.00	-0.7	
ASPA	27.63	237 iPd	18	20.20	-1.0	
CHG	65.78	296 eP	23	19.00	-0.2	
GUN	80.06	301 P	24	44.40	0.8	
	1.0s	16.00nm			4.9mb	
PKI	80.36	300 P	24	45.50	0.3	
	0.9s	7.00nm			4.7mb	
KKN	80.53	300 P	24	46.46	0.5	
	0.8s	6.00nm			4.7mb	
DMN	80.63	300 P	24	47.22	0.7	
	0.9s	18.00nm			5.1mb	
GKN	81.14	300 P	24	49.48	0.4	
	0.8s	17.00nm			5.1mb	
GBA	84.28	285 Pc	25	04.70	-0.5	
PDCR	151.31	141 ePKP	32	26.60	5.2X	

S.D. = 0.7 on 17 of 18 obs.

FEB 09, 1991 18h 58m 12.22± 0.34s
38.656 N ± 2.8km 31.786 E ± 3.1km
DEPTH = 55.6 ± 5.6 km
3.8mb (1 obs.)
TURKEY (366)

ALT	1.37	287 iPg	58	35.70	0.3	
BBTK	1.41	32 iPd	58	36.00	0.0	
BCK	1.52	219 iPn	58	36.90	-0.7	
KHL	1.81	260 iPn	58	40.90	-0.6	
GPA	1.99	325 iPn	58	44.50	0.4	
ELL	2.42	219 iPn	58	50.90	0.7	
HRT	2.71	324 iPn	58	53.70	-0.5	
GBZT	2.79	320 ePn	58	56.20	0.8	
KSL	3.08	215 ePn	59	00.00	0.5	
KCT	3.09	302 iPn	59	00.20	0.5	
CIN	3.10	251 ePn	59	00.00	0.2	
KAS	3.11	29 ePn	59	07.00	7.0X	
YER	3.16	242 iPn	59	00.30	-0.4	
ISK	3.19	320 iPn	59	01.20	0.1	
ITU	3.25	320 ePn	59	02.00	0.2	
		iSg	59	59.00		
BNT	3.44	301 iPn	59	05.20	0.6	
EDC	3.47	300 iPn	59	05.00	0.0	
PPCY	3.79	173 eP	59	11.00	1.5	
CSS	3.89	161 eP	59	10.00	-0.9	
SMG	4.01	258 ePn	59	12.00	-0.6	
KVT	4.08	52 ePn	59	13.70	0.2	
PRK	4.34	280 ePn	59	17.00	-0.2	
EZN	4.40	287 iPn	59	18.30	0.3	
ALN	4.96	299 ePc	59	25.56	-0.4	
		iS	59	44.12		
RDO	5.41	299 ePn	59	32.00	-0.3	
JMB	5.49	316 eP	59	33.00	-0.4	
KDZ	5.72	304 iPd	59	37.00	0.3	
RZN	6.20	301 iPd	59	43.00	-0.6	
PLD	6.41	305 iPd	59	46.00	-0.3	
		S	59	51.00		
PVL	6.68	315 eP	59	50.00	0.0	
SRS	6.76	294 ePc	59	50.68	-0.5	
MMB	6.83	298 ePd	59	52.00	-0.3	
		i	01	10.00		
PGB	6.98	306 eP	59	53.00	-1.3	
KNT	7.28	293 ePc	59	58.24	-0.1	
LIT	7.34	284 ePc	00	00.20	0.8	
VAY	7.56	294 ePn	00	02.00	-0.3	
VTS	7.62	304 iP	00	04.00	0.8	
		i	00	06.00		
MLR	8.09	329 eP	00	19.00	9.3X	
GKN	44.88	87 P	06	22.72	-0.4	
	0.9s	19.00nm			4.9mb X	
DMN	45.43	87 P	06	27.58	0.0	
	0.8s	17.00nm			5.0mb X	
KKN	45.48	87 P	06	27.52	-0.4	
	0.6s	8.00nm			4.7mb X	
PKI	45.68	87 P	06	29.42	-0.3	
	1.0s	7.00nm			4.5mb X	
GUN	45.89	87 P	06	30.92	-0.5	
	0.9s	11.00nm			4.8mb X	
FRB	60.35	330 eP	08	18.00	0.7	
YKA	75.63	345 eP	09	53.60	1.1	
	0.7s	0.90nm			3.8mb	

S.D. = 0.6 on 43 of 45 obs.

& FEB 09, 1991 19h 40m 36.69s
60.436 N 144.664 W
DEPTH = 0.1km
3.5mb (1 obs.)
SOUTHERN ALASKA (2)
<AEIC>.

TGL	0.96	70 eP	40	54.96	-1.0	
		eS	41	10.26		
VLZ	1.08	311 iP	40	56.68	-1.1	
		eS	41	12.86		
GLB	1.09	22 eP	40	56.93	-1.2	
		eS	41	13.29		
VZW	1.12	305 iP	40	57.46	-1.2	
		eS	41	13.35		
KLU	1.22	331 iP	40	59.38	-1.1	
		eS	41	15.26		
GLI	1.28	291 eP	40	59.63	-1.7	
		eS	41	17.73		
BALM	1.29	61 eP	41	00.10	-1.5	
		eS	41	20.07		
MID	1.32	221 eP	41	00.50	-1.4	
YAH	1.45	92 eP	41	03.81	-0.6	
		eS	41	24.25		
KNIM	1.53	268 eP	41	02.58	-2.7	
MTU	1.56	255 eP	41	03.77	-2.0	
TZL	1.66	348 eP	41	07.23	0.1	
CTGM	1.72	71 eP	41	07.13	-1.1	
TOA	1.83	337 iPd	41	10.60	0.9	
SCM	1.91	318 eP	41	09.69	-1.1	
		eS	41	36.46		
KNK	2.09	300 eP	41	12.34	-1.2	
SDG	2.14	349 eP	41	14.06	-0.1	
SEW	2.41	264 eP	41	14.56	-3.4	
GHO	2.47	305 eP	41	17.66	-1.2	
PLRM	2.47	300 eP	41	17.76	-1.0	
PMR	2.47	300 ePd	41	20.10	1.3	
PMS	2.53	291 eP	41	18.32	-1.5	
BCPM	2.56	99 eP	41	19.46	-0.6	
		eS	41	54.22		
PAX	2.57	352 eP	41	19.93	-0.5	
PNL	2.75	104 eP	41	21.20	-1.7	
SLKM	2.75	274 eP	41	19.67	-3.3	
PWA	2.81	298 eP	41	22.96	-0.8	
HQN	3.07	106 eP	41	25.22	-2.2	
SUA	3.14	292 eP	41	26.34	-2.1	
DOT	3.24	5 eP	41	29.39	-0.4	
NNL	3.33	266 eP	41	28.33	-2.8	
CUT	3.34	309 eP	41	30.71	-0.5	
CNPM	3.43	257 eP	41	31.52	-1.0	
RND	3.58	328 eP	41	34.63	0.0	
SKT	3.67	298 eP	41	32.94	-2.9	
SPU	3.70	285 eP	41	32.60	-3.7	
NCG	3.78	288 eP	41	34.17	-3.5	
R[illegible]	3.83	275 eP	41	34.05	-4.3	
C[illegible]	3.84	285 eP	41	34.54	-3.9	
B[illegible]	3.87	286 eP	41	34.33	-4.5	
REF	3.98	274 eP	41	35.63	-4.9	
RDN	4.01	275 eP	41	36.18	-4.7	
TRF	4.03	321 eP	41	40.12	-1.0	
FBA	4.71	344 eP	41	53.30	2.7	
IMA	6.96	328 eP	42	24.60	2.1	
YKA	14.45	69 eP	44	10.90	6.7	
	0.6s	0.70nm			3.5mb	

46 obs. associated

FEB 09, 1991 19h 49m 57.22± 0.52s
9.996 S ±11.3km 159.110 E ± 9.9km
DEPTH = 10.0km (geophysicist)
SOLOMON ISLANDS (193)

VSG	0.95	39 iP	50	15.00	-0.3	
		iS	50	25.00		
HNR	1.00	56 iP	50	16.00	-0.1	
		iS	50	29.00		
SVO	1.09	40 iP	50	18.00	0.3	
		iS	50	33.00		
RMQ	19.11	209 eP	54	23.00	0.2	
QIS	21.52	239 eP	54	49.00	0.3	
WB2	25.85	245 iP	55	29.90	-0.9	
GUN	80.14	301 P	02	10.02	0.0	
PKI	80.44	300 P	02	11.46	-0.1	
KKN	80.62	300 P	02	12.36	0.0	
DMN	80.71	300 P	02	13.10	0.2	
GKN	81.22	300 P	02	15.30	-0.1	
GBA	84.35	285 P	02	32.00	0.5	

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

• FEB 09, 1991 20h 18m 42.33± 0.79s
39.653 N ±13.4km 74.874 E ±24.2km
DEPTH = 33.0km (normal)
4.2mb (4 obs.)
SOUTHERN XINJIANG, CHINA (321)

NDI	11.11	169 eP	21	23.00	1.0	
GKN	14.16	142 P	22	01.98	-0.8	
KKN	14.65	141 P	22	08.20	-1.0	
DMN	14.71	142 P	22	09.48	-0.6	
GUN	14.85	139 P	22	11.84	-0.1	
PKI	14.89	141 P	22	12.78	0.3	
NB2	43.78	321 P	26	44.80	-1.5	
	0.7s	2.30nm			4.1mb	
MBC	64.02	4 ePc	29	14.90	0.6	
	0.5s	4.00nm			4.8mb	
INK	70.27	11 eP	29	54.00	0.3	
YKA	77.92	4 eP	30	38.00	0.0	
	0.6s	1.40nm			4.2mb	
WRA	81.17	125 P	30	58.00	1.8	
	0.7s	1.60nm			4.1mb	

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

• FEB 09, 1991 20h 46m 31.13± 0.94s
43.510 N ±15.0km 3.079 E ± 7.3km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
ML 2.5 (LDG).

CAF	1.59	333 Pg	46	59.00	-0.4	
		Sg	47	20.10		
LPO	1.80	311 Pg	47	03.00	0.6	
		Sg	47	27.10		
CDR	1.96	84 eP	47	04.30	-0.5	
		e	47	29.60		
		e	47	52.40		
EPF	2.06	257 Pg	47	06.00	-0.2	
		Sg	47	33.00		
LRG	2.39	90 Pg	47	11.40	0.5	
MAF	2.74	353 Pg	47	20.20	4.3X	
		Sg	47	55.60		
TCF	2.85	348 Pg	47	22.80	5.4X	
		Sg	48	00.40		

S.D. = 0.7 on 5 of 7 obs.

? FEB 09, 1991 20h 47m 02.56± 2.77s
43.655 N ±48.9km 3.150 E ±23.1km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
ML 2.7 (LDG).

CAF	1.49	329 Pg	47	29.40	0.0	
		Sg	47	50.50		
LPO	1.75	307 Pg	47	33.10	0.0	
		Sg	47	57.20		
LRG	2.34	94 Pg	47	41.60	-0.1	

FRF	2.54	91	Pg	47 44.60	0.1
			Sg	48 18.00	
MAF	2.60	351	Pg	47 50.80	5.4X
			Sg	48 26.20	
TCF	2.72	346	Pg	47 53.20	6.1X
			Sg	49 30.40	
BGF	2.91	356	Pg	47 56.00	6.2X
			Sg	48 36.00	

S.D. = 0.1 on 4 of 7 obs.

& FEB 09, 1991 21h 47m 03.86s
60.325 N 151.005 W
DEPTH = 54.4km
KENAI PENINSULA, ALASKA (14)
<AEIC>.

NNL	0.32	207	iP	47 14.33	0.7
SLKM	0.43	64	iP	47 14.54	-0.2
			eS	47 23.14	
NKA	0.44	345	eP	47 16.21	1.5
BRLK	0.57	174	iP	47 15.72	-0.6
			eS	47 25.09	
RDT	0.74	290	eP	47 17.69	-0.8
HOM	0.74	206	iP	47 18.18	-0.2
			eS	47 28.47	
SEW	0.81	105	iP	47 18.41	-0.9
			eS	47 30.13	
CNPM	0.81	188	iP	47 18.68	-0.7
			eS	47 30.06	
REF	0.86	282	iP	47 19.41	-0.7
			eS	47 31.48	
RSO	0.88	280	iP	47 19.64	-0.8
			eS	47 31.84	
RS2	0.88	280	eP	47 19.66	-0.8
			eS	47 32.41	
RED	0.88	277	iP	47 19.52	-0.9
			eS	47 31.98	
RDN	0.89	283	iP	47 19.61	-0.9
			iS	47 32.16	
XLV	0.95	203	eP	47 20.03	-1.1
NCT	0.98	285	iP	47 20.95	-0.8
			eS	47 34.08	
SPU	1.00	330	iP	47 21.39	-0.6
			eS	47 35.55	
CKL	1.09	324	iP	47 22.70	-0.5
			eS	47 37.50	
CRP	1.10	330	eP	47 23.66	0.2
SUA	1.15	6	eP	47 23.62	-0.4
			eS	47 39.40	
BGL	1.16	325	iP	47 23.81	-0.4
			eS	47 39.82	
PMS	1.16	37	eP	47 23.92	-0.2
			eS	47 38.73	
NCG	1.22	333	iP	47 24.73	-0.3
PWA	1.44	22	eP	47 26.32	-1.6
PLRM	1.57	35	eP	47 28.81	-0.9
			eS	47 48.00	
KNIM	1.63	88	iP	47 28.47	-2.1
KNK	1.66	48	eP	47 30.19	-0.8
			eS	47 49.95	
SKT	1.68	352	iP	47 31.07	-0.3
PDB	1.69	253	eP	47 30.58	-0.8
MTU	1.71	100	eP	47 30.30	-1.5
GHO	1.77	34	eP	47 31.81	-0.9
			eS	47 52.98	
SYI	1.86	203	iP	47 32.88	-0.9
CDD	1.94	225	eP	47 34.79	-0.2
GLI	2.01	72	eP	47 33.32	-2.6
VZW	2.31	69	eP	47 37.88	-2.3
VLZ	2.43	69	eP	47 39.28	-2.6
KLU	2.75	63	iP	47 44.65	-1.8

36 obs. associated

& FEB 09, 1991 22h 07m 36.39s
66.274 N 147.903 W
DEPTH = 0.0km
ALASKA (676)
<AEIC>.

GLM	1.31	170	eP	08 01.25	-0.3
			eS	08 20.11	
MDM	1.33	186	eP	08 01.29	-0.6
FBA	1.38	178	iPd	08 02.80	0.0
RDS	1.46	184	eP	08 03.22	-0.8
			eS	08 24.93	
NEA	1.77	197	eP	08 07.41	-1.1
WRH	1.81	183	eP	08 08.67	-0.4
HDA	1.92	168	eP	08 09.44	-1.2
IMA	2.35	268	eP	08 15.40	-1.7
MCK	2.59	190	eP	08 18.89	-1.4
RND	2.91	188	eP	08 23.49	-1.4
PAX	3.48	161	eP	08 31.64	-1.4
CUT	4.02	196	eP	08 40.65	0.1
TOA	4.25	169	eP	08 43.30	-0.6
PMR	4.73	187	eP	08 54.50	3.8
TTA	4.84	230	eP	08 50.00	-2.3
KLU	4.88	169	eP	08 52.90	0.0
INK	5.93	63	eP	09 03.00	-4.5

17 obs. associated

& FEB 09, 1991 22h 37m 22.99s
62.207 N 149.393 W
DEPTH = 47.5km
2.7mb (1 obs.)
CENTRAL ALASKA (1)
<AEIC>.

CUT	0.46	296	iP	37 33.15	-0.4
GHO	0.49	153	iP	37 33.61	-0.5
PWA	0.60	203	iP	37 35.11	-0.3
PLRM	0.63	169	iP	37 35.02	-0.8
PMR	0.63	169	iPc	37 35.60	-0.2
HUR	0.78	352	iP	37 37.10	-0.8
			eS	37 47.83	
KNK	0.91	150	iP	37 39.11	-0.6
			eS	37 52.28	
PMS	0.97	185	eP	37 39.80	-0.7
SUA	0.98	221	iP	37 40.42	-0.3
			eS	37 54.56	
SKT	1.03	258	iP	37 40.50	-0.8
			eS	37 54.68	
SCM	1.04	110	iP	37 40.47	-1.1
			eS	37 54.43	
RND	1.23	11	iP	37 43.05	-1.1
TRF	1.31	342	iP	37 44.56	-0.9
TOA	1.52	92	iPc	37 48.50	0.3
NCG	1.54	240	eP	37 47.61	-0.9
MCK	1.55	8	eP	37 47.69	-0.9
CRP	1.62	236	eP	37 50.04	0.3
SPU	1.63	232	eP	37 49.24	-0.6
BGL	1.71	238	eP	37 50.67	-0.3
NKA	1.72	212	eP	37 52.58	1.7
GLI	1.73	139	iP	37 50.63	-0.5
			S	38 12.37	
CKL	1.73	235	eP	37 50.95	-0.3
SLKM	1.75	194	eP	37 50.93	-0.5
			eS	38 12.78	
VZW	1.78	129	iP	37 51.06	-0.8
KLU	1.80	112	iP	37 51.49	-0.6
			eS	38 13.99	
VLZ	1.82	125	iP	37 51.28	-1.0
SDG	1.82	78	iP	37 52.12	-0.4
TZL	1.87	93	eP	37 53.18	0.0
PAX	1.97	65	eP	37 54.18	-0.4
			eS	38 18.84	
BWN	1.97	359	eP	37 53.46	-1.1
KNIM	2.03	156	eP	37 53.72	-1.6
THY	2.07	52	eP	37 55.67	-0.3
SEW	2.11	181	eP	37 56.02	-0.5
RDT	2.19	223	eP	37 57.04	-0.6
DDM	2.26	44	eP	38 00.01	1.3
REF	2.35	224	eP	37 59.59	-0.5
WRH	2.35	14	eP	37 58.15	-1.7
RDN	2.35	225	eP	37 59.35	-0.7
NNL	2.36	204	eP	38 01.63	1.6
NCT	2.37	227	eP	37 59.53	-0.8
NEA	2.38	3	eP	37 58.74	-1.6
RSO	2.39	224	eP	37 59.30	-1.3
RS2	2.39	224	eP	38 00.40	-0.2
RED	2.42	224	eP	38 00.67	-0.4
HDA	2.47	25	eP	37 59.96	-1.6
BRLK	2.56	197	eP	38 02.84	-0.1
RDS	2.69	11	eP	38 02.91	-1.9
			eS	38 34.50	
GLB	2.76	104	eP	38 04.52	-1.3
HOM	2.78	204	eP	38 06.03	-0.1
FBA	2.80	14	iPc	38 05.00	-1.3
MDM	2.81	10	iP	38 04.72	-1.8
			S	38 35.81	
DOT	2.83	57	eP	38 06.04	-0.8
CNPM	2.84	199	eP	38 06.74	-0.2
GLM	2.93	17	eP	38 06.19	-2.1
TMW	3.15	66	eP	38 10.12	-1.1
TTA	3.15	286	eP	38 10.30	-1.0
MID	3.16	150	eP	38 10.22	-1.2
SVW	3.17	252	ePd	38 10.70	-0.9
PDB	3.37	226	eP	38 13.10	-1.3
TGL	3.47	112	eP	38 13.87	-2.0
BALM	3.56	106	eP	38 15.39	-1.9
MCNL	3.88	221	eP	38 20.97	-0.8
CDD	3.90	214	eP	38 21.23	-0.7
SYI	3.90	204	eP	38 20.87	-1.1
CTGM	4.05	104	eP	38 22.47	-1.7
IMA	4.31	336	ePd	38 26.30	-1.5
INK	9.02	40	P	39 30.00	-3.3
YKA	16.04	74	eP	41 08.60	2.2
	0.5s		0.30nm		2.7mb

68 obs. associated

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* FEB 09, 1991 23h 59m 48.45± 0.96s
39.702 S ±19.0km 78.767 E ±14.3km
DEPTH = 10.0km (geophysicist)
4.4mb (3 obs.)
MID-INDIAN RISE (429)

ASPA	48.83	88	eP	08 35.60	-0.4
	2.2s		6.10nm		4.3mb
WRA	51.24	84	P	09 03.00	8.6X
	0.8s		2.70nm		4.2mb
WB2	51.25	84	eP	08 55.00	0.5
GBA	53.04	358	P	09 08.10	0.3
HYB	56.82	360	eP	09 35.00	-0.4
PKI	67.21	6	P	10 44.92	-0.3
	1.3s		34.00nm		5.4mb X
DMN	67.22	6	P	10 45.42	0.2
KKN	67.42	6	P	10 46.30	-0.1
	1.4s		59.00nm		5.6mb X
GKN	67.58	6	P	10 47.10	-0.2
	1.2s		57.00nm		5.6mb X
GUN	67.59	7	P	10 48.02	0.4
	1.5s		142.00nm		5.9mb X
QUE	70.40	349	eP	10 49.00	-15.7X
BCAO	70.55	293	iPd	11 05.90	0.1
	1.0s		10.00nm		4.9mb
INK	146.42	21	ePKP	19 28.50	-0.2
YKA	155.78	15	ePKP	19 52.50	9.8X
	0.4s		0.20nm		

S.D. = 0.4 on 11 of 14 obs.

FEB 10, 1991 00h 51m 16.04± 0.43s
4.698 S ± 3.7km 129.178 E ± 5.4km
DEPTH = 210.6 ± 4.6 km
5.4mb (28 obs.)
BANDA SEA (280)

AAI	1.40	316	eP	51 50.50	0.4
			eS	52 12.50	
MNI	7.48	325	iPd	53 04.00	0.5
KUPT	7.74	225	eP	53 11.50	4.7X
			eS	54 44.00	
MTN	8.32	167	iPc	53 14.40	0.0
KNA	10.99	182	eP	53 49.10	0.3
	0.3s		64.00nm		5.5mb
			eS	55 45.00	
JAY	11.71	80	ePc	53 57.20	-0.8
TSM	14.20	308	ePc	54 33.50	4.3X
WB2	15.97	162	iPc	54 50.30	-0.7
			eS	57 41.00	
KKM	16.77	309	ePd	55 01.00	0.3
	0.9s		510.40nm		6.0mb
MBL	18.71	208	eP	55 20.00	-1.1
	0.4s		21.00nm		5.0mb
ASPA	19.40	167	iPc	55 29.90	1.6
	0.4s		125.30nm		5.8mb
Z	18s		0.40um		
			eS	58 55.50	
			iScS	06 36.10	
WARB	21.50	186	eP	55 52.00	2.9X
	0.4s		15.00nm		4.9mb
NANU	22.13	215	eP	55 56.20	1.1
	0.6s		46.00nm		5.2mb
GUA	23.92	41	eP	56 12.20	-0.2
	0.7s		180.82nm		5.8mb
PJG	23.93	40	eP	56 12.10	-0.3
MEKA	24.05	204	eP	56 13.70	0.2
FORR	26.03	182	iPd	56 32.00	0.4
MRWA	27.40	206	eP	56 44.00	0.0
KLB	28.82	201	iPd	56 57.10	0.4
IPM	29.59	288	ePd	57 03.60	-0.1
	1.0s		55.40nm		5.2mb
MUN	29.74	203	eP	57 04.00	-0.8

10d 00h

NWAO	30.22	200	eP	57	08.00	-1.0
QIZ	30.31	322	eP	57	09.60	-0.3
CMS	30.90	152	eP	57	15.00	0.0
			e	58	08.00	
			e	03	30.00	
BRS	31.86	138	iP	57	22.00	-1.5
			i	58	14.00	
BFD	34.57	161	eP	57	50.00	3.5X
NST	35.16	306	eP	57	52.50	0.8
KHT	35.97	303	iPc	57	59.30	0.8
BDT	36.93	307	eP	58	06.40	-0.1
	1.0s	147.00nm			5.5mb	
WHN	37.80	339	ePc	58	15.00	1.3
	0.7s	20.00nm			4.8mb	
NJ2	37.84	346	Pc	58	15.00	1.0
CHG	37.85	309	iPc	58	15.00	0.7
	1.0s	107.50nm			5.4mb	
GYA	37.88	326	iPc	58	15.00	0.4
	1.0s	60.00nm			5.2mb	
			PcP	00	27.40	
KMI	39.23	320	Pc	58	27.00	1.1
	1.0s	90.00nm			5.3mb	
DZM	39.99	119	iPc	58	33.10	1.1
CD2	42.94	327	iPc	58	55.20	-0.7
	1.0s	40.00nm			4.9mb	
XAN	43.02	335	Pc	58	55.50	-1.0
TIY	44.98	341	Pc	59	11.60	-0.5
BJI	46.10	346	eP	59	20.00	-0.8
	0.8s	16.00nm			4.5mb	
LZH	47.00	332	iPc	59	29.00	0.8
	1.4s	99.00nm			5.0mb	
LSA	49.99	316	Pd	59	51.20	-0.3
GTA	51.57	331	iPc	00	02.80	-0.2
	1.0s	40.00nm			4.9mb	
GUN	52.84	310	P	00	12.28	-0.4
	0.7s	286.00nm			6.0mb	
PKI	53.02	310	P	00	13.30	-0.8
	0.8s	90.00nm			5.4mb	
KKN	53.23	310	P	00	14.90	-0.6
	0.8s	191.00nm			5.7mb	
DMN	53.28	310	P	00	15.48	-0.4
	0.9s	275.00nm			5.8mb	
KOD	53.59	286	eP	00	17.90	-0.5
GKN	53.83	310	P	00	19.32	-0.5
	0.7s	322.00nm			6.0mb	
GBA	54.48	290	Pc	00	22.10	-2.3
	0.9s	61.20nm			5.2mb	
HYB	54.59	295	iPc	00	24.20	-1.0
	1.0s	145.00nm			5.6mb	
			e	01	09.30	
POO	59.19	295	iPc	00	58.70	1.2
NDI	59.95	307	iPc	01	01.00	-1.5
	0.6s	46.67nm			5.4mb	
WMQ	61.03	327	iPc	01	09.50	-0.2
	1.0s	100.00nm			5.5mb	
			sP	02	17.00	
			eS	09	10.50	
QUE	68.81	305	iPc	02	00.30	0.3
	1.0s	595.00nm			6.3mb	
TAB	87.25	308	e(P)	03	42.00	1.8
NAI	92.26	269	iP	04	08.00	3.8X
KEV	98.59	340	eP	04	43.00	11.4X
KAF	100.15	332	iPdiff	04	37.30	-1.4X
	0.5s	2.10nm			4.8mb	
YKA	106.05	26	ePKP	09	15.20	-0.8
	0.5s	0.40nm				
FRB	119.68	9	ePKP	09	41.00	-0.9
ALQ	120.57	52	ePKP	09	45.00	0.2
KIC	134.11	274	PKP	09	57.70	-13.4X
LKO	134.89	279	PKP	10	13.14	0.6
MBO	145.29	289	iPKP	10	33.50	2.4X
BMA	152.01	193	(PKP)	10	50.00	8.5X
LPB	152.86	141	ePKP	10	45.00	1.7
ZOBO	153.04	141	ePKP	10	45.00	1.3
			i	12	07.00	
PPD	153.43	179	(PKP)	10	44.00	0.6
			e	10	52.50	
			e	11	15.60	
SIV	157.08	154	PKP	10	47.50	-0.9
	S.D. = 0.9	on	59 of	69	obs.	

• FEB 10, 1991 01h 01m 51.64± 0.83s
38.385 N ± 6.7km 21.835 E ±11.2km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 3.0 (ATH).

EVR	0.53	358	ePg	02	00.80	-1.6
VLS	1.00	258	ePg	02	10.50	-0.1
ITM	1.21	177	ePb	02	13.70	-0.4
NEO	1.42	49	ePb	02	16.50	-1.0
VLI	1.88	152	ePb	02	24.50	0.4
KZN	1.92	359	ePn	02	25.40	0.7
OHR	2.84	344	ePn	02	42.00	4.1X
VAY	2.99	11	ePn	02	42.00	2.1
	S.D. = 1.5	on	7 of	8	obs.	

• FEB 10, 1991 01h 14m 00.93± 0.93s
32.202 S ±10.2km 67.168 W ± 9.8km
DEPTH = 33.0km (normal)
4.0mb (1 obs.)
MENDOZA PROVINCE, ARGENTINA (139)

CFA	1.09	303	ePc	14	18.50	-1.4
RTLL	1.41	308	iPd	14	25.00	0.5
RTCB	1.56	297	ePc	14	27.50	0.7
RTRS	2.82	315	iPd	14	49.30	4.7X
			eS	15	27.80	
PEL	3.11	251	eP	14	50.00	1.1
			iS	15	30.00	
PCH	3.15	242	iP	14	51.40	1.9
			i	15	34.00	
SAN	3.19	246	eP	14	49.00	-1.0
			iS	15	34.60	
TACH	3.48	244	iPd	14	55.00	0.8
			iS	15	44.00	
LCCH	3.92	250	eP	14	58.00	-2.2
			iS	15	01.00	
			iS	15	44.00	
LNV	3.97	243	eP	15	00.50	-0.5
			i	15	10.50	
			iS	15	50.00	
SLA	7.59	12	e(P)	15	53.09	0.9
ZOBO	15.89	357	eP	17	47.00	2.7X
	Z 18s	0.10um				
			i	17	50.70	
			LR	24	30.00	
SIV	17.06	20	P	17	58.20	-0.5
KIC	70.63	69	P	25	14.90	-0.5
YKA	101.74	340	ePdiff	27	50.20	-1.0X
	0.9s	0.40nm			4.0mb	
HYB	145.75	107	ePKP	33	38.50	0.3
	S.D. = 1.3	on	13 of	16	obs.	

% FEB 10, 1991 01h 21m 02.91± 0.92s
38.371 N ± 7.5km 22.236 E ±10.1km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 2.9 (ATH).

EVR	0.64	329	ePn	21	15.50	-0.3
NEO	1.21	39	ePb	21	26.00	0.5
ITM	1.21	192	ePb	21	26.80	1.3
VLS	1.31	262	ePb	21	27.00	-0.1
VLI	1.74	161	ePn	21	32.00	-1.4
	S.D. = 1.4	on	5 of	5	obs.	

FEB 10, 1991 01h 43m 06.43± 0.42s
38.679 N ± 8.8km 70.226 E ± 9.9km
DEPTH = 33.0km (normal)
4.9mb (19 obs.)
AFGHANISTAN-USSR BORDER REGION (717)
Felt (III) at Rogun,
Komsomolabod and Obigarm, USSR.

QUE	8.89	199	eP	45	14.50	-1.3
NDI	11.54	148	eP	45	53.00	1.1
	0.5s	14.08nm			5.4mb	
GKN	16.05	127	P	46	49.88	-1.6
	0.7s	292.00nm			5.5mb	
KKN	16.61	126	P	46	56.46	-2.0
	0.5s	37.00nm			4.8mb	
DMN	16.62	127	P	46	57.00	-1.8
	0.6s	87.00nm			5.1mb	
PKI	16.84	127	P	47	00.42	-1.2
	0.6s	37.00nm			4.7mb	
GUN	16.90	125	P	47	00.32	-2.1
	0.9s	119.00nm			5.0mb	
POO	20.32	170	eP	47	45.00	2.5
HYB	22.40	159	eP	48	05.50	2.0
	1.0s	40.00nm			4.8mb	
GBA	25.78	164	P	48	37.60	1.6
LZH	26.75	85	e(P)	48	47.00	1.9
	1.5s	17.00nm			4.4mb	
			i	49	25.00	
			i	49	37.50	
MLR	33.22	296	eP	49	42.00	-0.5
KAF	35.47	326	iP	50	00.70	-0.7
	0.6s	5.50nm			4.7mb	
NUR	35.71	323	eP	50	02.30	-1.2
	0.6s	12.90nm			5.0mb	
KRA	37.04	305	ePd	50	13.70	-1.1
SOD	37.51	334	iP	50	18.30	-0.2
KEV	38.56	338	eP	50	39.00	11.8X
HFS	40.99	320	eP	50	46.40	-1.0
	0.5s	27.10nm			5.2mb	
	Z 16s	0.09um			3.7MszX	
			LR	07	27.00	
KHC	41.24	304	P	50	51.50	1.8
NB2	42.28	322	P	50	57.20	-0.9
	0.6s	11.70nm			4.8mb	
EKA	50.31	315	P	52	01.00	-0.6
	1.2s	17.80nm			5.0mb	
BCAO	57.89	247	ePc	52	56.30	-1.4
	0.8s	7.00nm			4.8mb	
MBC	65.19	3	ePd	53	46.80	0.8
	0.7s	11.00nm			5.1mb	
INK	71.86	9	eP	54	28.00	0.6
FRB	72.80	342	eP	54	33.00	-0.1
YKA	79.10	2	eP	55	08.80	0.2
	0.6s	2.50nm			4.4mb	
SCH	79.85	336	eP	55	14.00	1.1
WRA	83.66	122	P	55	34.00	0.8
	0.6s	4.20nm			4.8mb	
ASPA	86.00	125	iPd	55	46.60	1.8
	1.9s	10.60nm			4.7mb	
FFC	86.73	355	iPc	55	49.20	1.2
	0.7s	7.00nm			5.0mb	
	S.D. = 1.4	on	29 of	30	obs.	

• FEB 10, 1991 02h 19m 30.08± 2.46s
33.390 S ±17.3km 178.533 W ±15.0km
DEPTH = 109.0 ± 23.2 km
5.1mb (1 obs.)
SOUTH OF KERMADEC ISLANDS (179)

HBZ	4.93	211	eP	20	44.50	1.4
PUZ	5.35	208	eP	20	49.10	0.2
			eS	22	00.80	
NOZ	5.91	207	eP	20	56.30	-0.3
WLZ	6.53	225	eP	21	06.10	1.0
MTW	9.09	210	eP	21	37.40	-2.6
WDW	9.40	211	eP	21	40.50	-3.6X
TCW	9.68	214	eP	21	44.30	-3.6X
KHZ	10.97	212	eP	22	01.80	-3.2X
DZM	17.41	307	iPd	23	26.90	-0.7
BRS	25.42	276	iPc	24	50.70	1.6
			i	25	17.00	
RMQ	29.09	275	iPd	25	22.90	0.5
QIS	39.19	278	eP	26	48.00	-1.0
ASPA	42.59	270	iPc	27	16.50	-0.5
	0.7s	26.00nm			5.1mb	
			i	28	16.60	
			i	28	44.40	
			eS	33	35.90	
WB2	43.83	276	iPc	27	26.30	-0.7
FORR	44.86	258	eP	27	35.50	0.4
FRI	88.93	43	e(P)	32	13.80	0.5
CMB	89.28	42	e(P)	32	14.50	-0.5
BCAO	147.09	213	iPKPc	39	06.00	6.0X
	0.5s	23.00nm				
			id	39	14.40	
			ic	40	08.00	
KAF	147.18	339	ePKP	38	59.30	0.6
	0.6s	6.70nm				
NUR	148.93	338	iPKP	39	04.80	3.3X
	0.4s	6.20nm				
NB2	151.62	350	PKP	39	11.70	6.1X
	0.7s	10.80nm				
HFS	152.06	347	ePKP	39	11.90	5.7X
	1.0s	24.50nm				
KIC	152.49	167	PKP	39	20.00	11.8X
	S.D. = 1.2	on	15 of	23	obs.	

% FEB 10, 1991 03h 46m 03.99± 3.26s
38.398 N ± 9.2km 31.736 E ±29.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.2 (ISK).

BCK	1.30	224	iPg	46	28.00	-0.2

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ALT     1.43 298 iPn    46 29.10  -1.0
KHL     1.74 268 ePn    46 35.20   0.7
GPA     2.19 330 ePn    46 41.00   0.1
HRT     2.90 327 ePn    46 51.00  -0.1
KCT     3.21 306 ePn    46 56.00   0.6
ISK     3.37 323 iPn    46 57.90   0.2
BNT     3.54 305 ePn    47 00.00  -0.2
EDC     3.58 304 ePn    47 00.50  -0.1
      S.D. = 0.6  on   9 of   9 obs.
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&  FEB 10, 1991  03h 49m 41.11s
   60.640 N          147.556 W
   DEPTH =  17.1km
 SOUTHERN ALASKA                 (  2)
      <AEIC>.

KNIM    0.31 197 iP     49 47.55  -0.2
                eS      49 52.97
GLI     0.33  43 iP     49 47.95  -0.3
                iS      49 53.44
VZW     0.65  49 iP     49 52.70  -0.9
VLZ     0.78  50 eP     49 54.71  -1.0
                eS      50 05.20
KNK     0.89 331 iP     49 56.40  -1.3
                eS      50 08.21
SEW     1.08 241 iP     49 59.41  -1.6
                eS      50 13.70
PMS     1.15 303 iP     50 00.43  -1.8
                eS      50 15.38
KLU     1.17  42 iP     50 01.24  -1.3
                eS      50 15.93
PLRM    1.22 322 eP     50 01.45  -1.9
                iS      50 17.71
GHO     1.32 330 eP     50 03.25  -1.5
                eS      50 20.10
SLKM    1.32 265 eP     50 03.16  -1.6
                eS      50 20.36
PWA     1.52 313 eP     50 06.11  -1.4
TOA     1.61  24 eP     50 09.17   0.2
TZL     1.74  35 eP     50 11.05   0.2
SUA     1.76 299 eP     50 09.54  -1.6
NKA     1.81 275 eP     50 11.76   0.0
BRLK    1.88 244 eP     50 11.08  -1.7
NNL     1.95 254 eP     50 12.80  -1.1
GLB     1.99  65 eP     50 13.68  -0.8
                eS      50 37.88
SDG     2.12  26 eP     50 16.25  -0.1
CNPM    2.16 240 eP     50 14.68  -2.1
CUT     2.20 325 eP     50 15.61  -1.7
SPU     2.26 286 eP     50 15.71  -2.7
TGL     2.33  85 eP     50 17.74  -1.6
SKT     2.34 307 eP     50 17.04  -2.4
NCG     2.37 291 eP     50 17.59  -2.3
CKL     2.40 286 eP     50 17.84  -2.5
BGL     2.44 287 eP     50 18.63  -2.3
REF     2.55 269 eP     50 19.64  -2.9
RDN     2.57 269 eP     50 19.70  -3.2
RSO     2.57 268 eP     50 20.07  -2.9
RS2     2.58 268 eP     50 20.34  -2.6
BALM    2.58  79 eP     50 21.60  -1.4
RED     2.59 267 eP     50 20.01  -3.0
NCT     2.65 271 eP     50 20.36  -3.6
TRF     3.10 337 eP     50 29.73  -0.6
      36 obs. associated
-------------------------------------
   FEB  10, 1991  05h 19m 18.74± 0.40s
   38.540 N ± 3.6km    29.370 E ± 5.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      MD 3.5 (ISK).

KHL     0.25 151 iPg    19 23.70  -0.3
                eSg     19 27.70
ALT     0.77  48 iPg    19 33.20  -0.7
                iSg     19 44.20
CIN     1.38 228 eP     19 43.00  -1.0
BCK     1.44 138 iPn    19 45.50   0.5
YER     1.65 212 iPn    19 48.30   0.4
ELL     1.84 166 iPn    19 51.10   0.4
KCT     1.88 336 ePn    19 51.50   0.3
GPA     1.89  22 iPn    19 51.60   0.2
BNT     2.13 329 iPn    19 54.80  -0.1
EDC     2.15 328 iPn    19 55.00  -0.1
GBZT    2.25   1 ePn    20 14.00  17.5X
HRT     2.29   6 ePn    19 57.40   0.2
EZN     2.69 299 ePn    20 03.00   0.1
BBTK    2.94  63 iPc    20 13.00   6.6X
      S.D. = 0.5  on  12 of  14 obs.
-------------------------------------
   FEB  10, 1991  05h 19m 58.55± 0.60s
   37.700 N ± 5.6km    15.252 E ± 4.6km
   DEPTH =  10.0km  (geophysicist)
 SICILY                          (398)

ATN     0.49  20 Pd     20 08.50   0.0
                eSg     20 17.50
MNO     0.50 298 Pc     20 08.60  -0.1
                eSg     20 17.70
MSI     0.56  25 Pd     20 09.80   0.0
MEU     0.65 203 Pd     20 11.00  -0.6
                eSg     20 20.00
SOI     0.74  59 Pc     20 13.60   0.6
                eSg     20 25.00
GIB     1.01 287 Pc     20 17.40  -0.4
                eSg     20 33.00
MCT     1.29 267 P      20 23.00   0.5
FAI     1.32 252 Pd     20 23.50   0.5
USI     1.92 302 P      20 31.10  -0.4
CVT     1.95 270 P      20 31.50  -0.5
TDS     2.13  23 P      20 34.30  -0.4
ERC     2.13 280 P      20 35.80   1.1
SGO     2.85   1 P      20 44.70  -0.2
      S.D. = 0.6  on  13 of  13 obs.
-------------------------------------
*  FEB  10, 1991  07h 40m 22.99± 1.04s
   37.700 N ± 9.9km    15.156 E ± 7.8km
   DEPTH =  10.0km  (geophysicist)
 SICILY                          (398)

MNO     0.43 302 P      40 31.60  -0.3
                eSg     40 39.00
MEU     0.62 197 P      40 35.30  -0.3
                eSg     40 45.00
SOI     0.80  62 P      40 38.60   0.1
                eSg     40 50.50
GIB     0.94 288 P      40 41.70   0.7
                eSg     40 54.40
MCT     1.21 267 P      40 44.00  -1.6
FAI     1.25 251 P      40 47.70   1.4
      S.D. = 1.4  on   6 of   6 obs.
-------------------------------------
%  FEB  10, 1991  09h 00m 59.47± 1.63s
   77.285 N ±15.1km    19.879 E ±27.9km
   DEPTH =  10.0km  (geophysicist)
 SVALBARD REGION                 (643)
      MD 3.8 (BER).

KBS     2.33 319 ePn    01 38.30   0.0
                ePg     01 43.70
                eSg     02 10.00
KEV     7.83 162 iP     02 57.20   1.2
                iS      04 18.30
KTK1    8.37 172 eP     03 03.42  -0.2
                eS      04 32.52
LOF     9.38 195 eP     03 17.72   0.2
SOD    10.16 165 eP     03 27.00  -1.3
                eS      05 12.00
NRA0   16.86 194 P      04 56.70   0.0
      S.D. = 1.0  on   6 of   6 obs.
-------------------------------------
?  FEB  10, 1991  10h 58m 44.11± 3.37s
   37.562 N ±24.4km    20.532 E ±27.2km
   DEPTH =  10.0km  (geophysicist)
 IONIAN SEA                      (399)
      MD 3.1 (ATH).

ITM     1.18 109 ePn    59 06.00  -0.1
EVR     1.69  36 iPnd   59 14.00   0.2
KEK     2.22 345 ePn    59 22.20   0.7
KZN     2.91  19 ePn    59 32.00   0.7
OHR     3.55   3 ePn    59 39.00  -1.4
      S.D. = 1.2  on   5 of   5 obs.
-------------------------------------
*  FEB  10, 1991  12h 01m 39.75± 1.00s
   41.869 N ±10.7km    19.913 E ± 6.6km
   DEPTH =  10.0km  (geophysicist)
 ALBANIA                         (391)
      ML 2.8 (TIR).

LACI    0.28 213 iPgd   01 44.80  -0.8
                iSg     01 50.30
SDA     0.34 296 ePg    01 47.20   0.4
                iSg     01 53.00
PHP     0.43 114 ePg    01 48.30  -0.3
BCI     0.51  13 ePg    01 56.40   6.3X
TIR     0.52 184 ePg    01 55.00   4.7X
OHR     1.01 138 ePg    02 00.20   1.3
                eSg     02 15.00
SKO     1.14  84 ePg    02 00.50  -0.7
                eSg     02 15.50
      S.D. = 1.2  on   5 of   7 obs.
-------------------------------------
   FEB  10, 1991  12h 42m 37.60± 0.12s
    8.745 N ± 2.8km    39.854 W ± 2.0km
   DEPTH =  10.0km  (geophysicist)
  5.9mb ( 79 obs.) 5.9Msz ( 42 obs.)
 CENTRAL MID-ATLANTIC RIDGE      (406)
      Ms 5.8 (BRK), 5.6 (PAS).
      Mo=1.6*10**18 Nm (PPT). Complex
      event observed on broadband
      displacement seismograms.
      FAULT PLANE SOLUTION: P-Waves
       NP1:Strike=180 Dip=83 Slip=   0
       NP2:       270     90       187
       Principal Axes:
        T              Plg= 5  Azm= 45
        P                   5       135
      Comment: The focal mechanism is
        moderately well controlled and
        corresponds to right-lateral
        strike slip faulting. The
        preferred fault plane is NP2.
      RADIATED ENERGY
       No. of sta:  6  Focal mech.  F
       Energy       1.0±0.4*10**14 Nm
      MOMENT TENSOR SOLUTION
      Dep  21           No. of sta: 11
      Moment Tensor;  Scale 10**18 Nm
        Mrr=-0.30       Mtt= 0.30
        Mff= 0.00       Mrt= 0.08
        Mrf=-0.08       Mtf= 1.86
       Principal axes:
        T  Val=  2.02  Plg= 0  Azm=317
        N       -0.29      85       50
        P       -1.73       5      227
      Best Double Couple:Mo=1.9*10**18
       NP1:Strike=  2 Dip=87 Slip=-177
       NP2:       272     87       -3
      CENTROID, MOMENT TENSOR    (HRV)
      Data Used: GDSN
      L.P.B.: 23S, 61C
      Centroid Location:
      Origin Time       12:42:39.8 0.5
      Lat  8.30N 0.05 Lon  39.58W 0.03
      Dep  15.0 FIX Half-duration  3.6
      Moment Tensor;   Scale 10**17 Nm
        Mrr=-1.59 0.16  Mtt=-0.16 0.22
        Mff= 1.75 0.23  Mrt= 1.10 0.57
        Mrf= 0.70 0.61  Mtf=-8.57 0.16
       Principal Axes:
        T  Val=  9.42  Plg= 1  Azm= 48
        N       -1.33      79      313
        P       -8.08      11      138
      Best Double Couple:Mo=8.8*10**17
       NP1:Strike=183 Dip=81 Slip=  -7
       NP2:       274     83      -171

SOB1   17.87 183 eP     46 50.00   2.0
PDCR   21.15 178 eP     47 24.10  -1.2
                i       47 27.90
                e       47 41.20
TRN    21.32 277 eP     47 26.44  -0.6
TPP    21.36 276 eP     47 27.92   0.5
FCV    21.45 284 eP     47 27.54  -0.8
SVV    21.45 284 eP     47 28.25  -0.1
SVB    21.48 284 eP     47 28.12  -0.5
TCE    21.67 277 eP     47 30.46  -0.1
DEG    22.01 292 eP     47 33.50  -0.5
                eTT     09 40.00
BBL    22.18 290 eP     47 35.00  -0.7
SEG    22.44 292 eP     47 38.00  -0.3
PAG    22.50 291 eP     47 38.50  -0.4
                eTT     10 00.00
MBO    23.12  74 iP     47 45.50   0.6
BAO    25.53 198 ePc    48 08.40   0.1
BDF    25.53 198 iPc    48 07.72  -0.6
                eS      52 37.08
CPD    26.95 293 P      48 21.00  -0.4
LPR    26.99 293 P      48 21.00  -0.7
SJG    27.18 293 eP     48 23.00  -0.5
PORP   27.61 292 P      48 27.00  -0.4
```

10d 12h

MGP	28.01	292	P	48 30.00	-1.0
MCP	28.15	293	P	48 29.00	-3.2X
TOV	29.56	274	eP	48 44.00	-1.1
SDV	30.41	273	eP	48 52.30	-0.5
JFO	30.47	186	eP	48 54.10	1.0
BMA	31.53	188	eP	49 02.80	0.5
			e	49 11.30	
VAO	32.31	192	eP	49 09.10	-0.1
			e	50 00.00	
SIV	32.33	221	iPc	49 09.60	0.2
PPD	32.58	200	eP	49 12.10	0.6
			e	49 20.60	
BMG	32.94	270	iPd	49 16.00	1.1
LKO	33.83	86	Pc	49 20.90	-1.6
	1.0s	36.50nm			5.3mb
BOG	34.21	265	iPc	49 38.00	11.8X
			iS	54 57.00	
TIC	34.58	91	P	49 27.36	-1.6
LIC	34.61	92	P	49 27.88	-1.4
Z	18s	5.00um			5.3Msz
KIC	34.88	91	Pc	49 30.18	-1.4
			S	55 04.00	
CCH	36.73	225	iPc	49 47.50	0.0
ZOBO	37.43	228	ePc	49 53.15	-0.5
			e	50 15.17	
			iPP	51 20.30	
			S	55 47.00	
			LR	00 28.00	
TIO	37.54	49	iPc	49 54.60	0.6
			i	51 11.40	
LPB	37.57	228	iPc	49 54.40	-0.3
	1.1s	506.33nm			6.2mb
			S	55 46.00	
			LR	00 00.00	
CNCB	37.67	228	iPc	49 51.30	-4.3X
PSO	38.05	261	eP	50 00.00	1.2
AVE	38.63	46	iPc	50 03.50	0.6
			i	50 44.00	
			i	51 33.50	
ARE	40.09	231	iPc	50 14.50	-1.1
IFR	40.38	47	iPc	50 18.50	0.8
CNIL	41.22	43	eP	50 27.00	2.7X
PLAT	41.28	43	eP	50 27.00	2.1
EVAL	41.45	41	eP	50 27.40	1.2
SLA	41.62	216	ePc	50 26.00	-1.9
EJIF	41.66	43	eP	50 29.80	1.9
LIJA	41.94	43	eP	50 32.00	1.6
EPRU	42.10	43	eP	50 33.10	1.5
NNA	42.15	241	iPc	50 30.50	-1.7
	1.0s	66.00nm			5.3mb
Z	22s	4.07um			5.3Msz
PTO	42.50	35	eP	50 34.80	0.1
			eS	57 00.00	
EHOR	42.56	42	eP	50 36.50	1.2
EZAM	43.11	34	eP	50 39.90	0.2
EPLA	43.33	38	eP	50 42.50	0.9
ECOG	43.39	43	eP	50 43.40	1.2
AFC	43.39	43	eP	50 43.50	1.2
HRV	43.65	326	eP	50 45.06	1.0
			eS	57 14.87	
			eSS	00 21.51	
EBAN	43.71	42	eP	50 45.40	0.7
ANT	43.96	222	eP	50 46.00	-0.8
ERUA	44.14	35	eP	50 49.20	1.1
PNJ	44.15	322	iP	50 50.80	2.6X
			PP	52 33.80	
ENIJ	44.16	45	eP	50 49.10	0.7
TBR	44.33	322	P	50 49.50	-0.2
TOL	44.49	40	ePc	50 51.43	0.4
	2.0s	705.88nm			6.2mb
			ec	50 53.74	
			e	51 26.02	
			ePP	52 35.00	
			eS	57 29.41	
			eSS	00 33.49	
SGS	44.67	309	P	50 54.00	1.5
CBN	44.71	317	eP	50 52.00	-0.7
			e	52 42.00	
GUD	44.86	39	eP	50 54.70	0.6
CBM	45.04	333	P	50 55.00	-0.2
CVL	45.33	316	P	50 58.00	0.3
LHS	45.42	311	P	50 58.00	-0.5
JSC	45.68	310	P	51 00.40	-0.1
HBVT	45.69	327	P	50 59.50	-1.0
ETOR	46.28	40	eP	51 05.90	0.6
BLA	46.33	314	eP	51 06.50	0.8
	1.0s	50.00nm			5.5mb
Z	21s	13.05um			5.9Msz
ECHE	46.33	42	eP	51 07.00	1.3
SCP	46.40	320	ePd	51 07.71	1.6
LPA	46.66	201	iPc+	51 09.20	1.0
	1.0s	192.00nm			6.1mb
Z	20s	7.09um			5.6Msz
			eS	58 00.00	
ECRI	46.99	38	eP	51 12.20	1.3
EBR	47.92	41	eP	51 18.00	-0.1
			eS	58 18.00	
TKL	48.12	311	P	51 20.00	0.2
BTH	48.69	38	P	51 25.10	1.1
			pP	51 31.60	22kmX
			e	52 07.40	
			PcP	52 53.00	
			S	58 25.00	
EPF	48.97	39	eP	51 27.40	1.1
	1.3s	253.85nm			6.1mb
CLE	49.13	319	iP	51 28.80	1.4
MLS	49.40	39	P	51 30.13	0.6
VAL	49.41	24	eP	51 29.00	-0.4
			S	58 36.00	
RSCP	49.46	310	P	51 30.00	-0.1
MDZ	49.77	212	eP	51 30.00	-2.5
LFF	50.25	37	eP	51 36.40	0.4
LPO	50.38	37	eP	51 37.40	0.4
	1.1s	163.60nm			5.9mb
MFF	50.67	35	eP	51 39.30	0.1
	1.5s	308.15nm			6.0mb
SCH	50.71	340	ePd	51 38.20	-1.2
	1.1s	127.00nm			5.8mb
RJF	50.91	37	eP	51 41.00	0.0
	1.5s	229.80nm			5.9mb
Z	19s	15.75um			6.1Msz
PEL	50.95	214	iPc	51 41.00	-0.5
LPF	51.03	33	eP	51 41.80	0.0
	1.4s	287.55nm			6.0mb
CAF	51.04	38	eP	51 42.40	0.4
SAN	51.17	213	ePc	51 42.50	-0.7
ECP	51.19	26	eP	51 43.20	0.2
GRR	51.34	32	eP	51 44.10	-0.1
	2.0s	291.55nm			5.9mb
LSF	51.43	36	eP	51 45.20	0.2
TACH	51.48	213	eP	51 44.70	-0.8
ETA	51.63	25	eP	51 39.70	-6.6X
LCCH	51.69	214	iPd	51 46.50	-0.5
FLN	51.76	32	eP	51 47.20	-0.2
	1.9s	281.85nm			5.9mb
Z	20s	15.25um			6.0Msz
TCF	51.85	36	eP	51 48.30	0.1
LDF	51.85	33	eP	51 47.70	-0.4
	1.4s	130.70nm			5.7mb
LBL	51.91	38	P	51 49.07	0.5
MAF	52.02	36	eP	51 49.50	0.0
PYM	52.03	37	P	51 49.99	0.3
BGF	52.36	36	eP	51 51.70	-0.3
PLDF	52.51	37	P	51 53.40	0.1
SSB	52.72	38	P	51 55.24	0.4
CDR	52.73	41	ePc	51 54.50	-0.3
AVF	52.78	36	eP	51 55.00	-0.1
ELC	52.81	311	P	51 54.00	-1.5
SMF	52.99	37	eP	51 56.60	-0.1
	1.5s	175.00nm			5.8mb
LRG	53.01	41	eP	51 57.00	0.1
	1.5s	339.50nm			6.1mb
Z	18s	13.75um			6.0Msz
SSF	53.02	36	eP	51 56.60	-0.3
	1.6s	220.75nm			5.8mb
LMR	53.06	41	eP	51 57.20	0.0
	1.5s	167.15nm			5.8mb
FRF	53.25	41	eP	51 58.50	-0.1
	1.4s	174.25nm			5.8mb
LBF	53.25	36	eP	51 58.40	-0.3
	1.4s	150.30nm			5.8mb
LOR	53.33	36	eP	51 58.80	-0.4
	1.2s	113.05nm			5.7mb
Z	22s	11.80um			5.9Msz
CALN	53.49	41	P	52 00.70	0.1
REVF	53.79	41	P	52 02.28	-0.4
AURF	53.83	41	P	52 03.17	0.2
TOUF	53.84	41	P	52 02.97	-0.2
SBF	53.89	41	eP	52 03.50	0.1
FVM	53.94	311	P	52 03.00	-0.8
BNI	53.94	40	P	52 06.60	2.8X
AUTN	53.95	41	P	52 04.08	0.1
SAOF	54.02	41	P	52 04.35	0.0
LPL	54.19	39	eP	52 06.30	0.5
	1.4s	128.50nm			5.8mb
LPG	54.19	39	eP	52 06.40	0.5
	1.7s	261.00nm			6.0mb
RSL	54.21	39	P	52 05.75	-0.1
BHB	54.22	40	P	52 05.37	-0.4
PGF	54.38	43	P	52 06.44	-0.7
CCM	54.57	311	eP	52 09.24	0.8
			iS	59 47.83	
			eSS	03 22.61	
EMS	54.57	39	ePc	52 08.70	0.1
EKA	54.77	25	P	52 08.00	-1.6
	2.1s	194.20nm			5.8mb
DIX	54.87	39	ePc	52 11.20	0.3
ORO	55.02	39	P	52 13.00	1.2
VITF	55.05	36	P	52 10.81	-0.9
LOMF	55.12	37	P	52 12.18	-0.2
HAU	55.15	36	eP	52 11.70	-0.9
	1.2s	107.10nm			5.8mb
Z	21s	9.50um			5.8Msz
MMK	55.20	39	ePc	52 13.40	0.1
DOU	55.25	33	P	52 12.50	-0.7
Z	19s	7.60um			5.8Msz
			S	59 57.00	
SNF	55.31	33	iPd	52 12.25	-1.3
BSF	55.33	37	P	52 13.11	-0.9
UCC	55.50	32	P+	52 14.00	-1.0
			S	00 05.00	
MOF	55.54	37	P	52 14.39	-1.1
BBS	55.58	37	P	52 15.07	-0.6
VAI	55.62	39	P	52 17.20	1.3
ECH	55.73	36	P	52 15.75	-1.0
OXX	55.89	285	(P)	52 19.00	0.5
CDF	55.89	36	P	52 16.50	-1.5
WLS	55.94	36	P	52 17.11	-1.2
FAI	55.96	51	P	52 22.30	3.8X
MCT	56.03	50	P	52 22.50	3.3X
FEL	56.07	37	eP	52 19.22	-0.1
ZLA	56.12	38	ePc	52 19.40	-0.2
LLS	56.21	38	ePc	52 20.10	-0.3
STR	56.26	36	P	52 19.84	-0.7
MEM	56.29	33	iPc	52 19.70	-0.9
SLE	56.31	37	ePc	52 20.40	-0.5
ENN	56.32	33	ePc	52 19.50	-1.4
	2.5s	784.00nm			6.3mb
			e	54 30.00	
VDL	56.33	39	ePc	52 20.50	-0.8
GWF	56.37	36	P	52 20.25	-1.1
FIR	56.38	43	eP	52 22.00	0.6
SAX	56.59	38	ePc	52 22.80	-0.5
DBN	56.65	31	eP	52 22.00	-1.2
Z	20s	2.50um			5.3Msz
			eS	00 16.00	
PGD	56.73	43	P	52 19.40	-4.8X
CRE	56.79	43	P	52 25.80	1.2
SFI	56.83	43	P	52 25.20	0.5
OSS	56.84	39	ePc	52 23.80	-1.1
MNS	56.84	45	P	52 26.30	1.4
MNO	56.92	50	P	52 28.70	3.0X
BNS	57.11	33	ePc	52 23.30	-3.2X
Z	20s	7.90um			5.8Msz
			e(S)	00 32.00	
AZI	57.23	45	P	52 29.50	1.9
AQU	57.33	45	P	52 30.40	2.0
SDI	57.41	46	P	52 30.20	1.3
ARV	57.41	43	P	52 29.70	0.8
WTS	57.44	32	ePc	52 28.50	-0.3
	2.5s	631.00nm			6.2mb
			e	54 36.50	
TNS	57.44	35	ePc	52 28.10	-0.9
OGA	57.46	39	eP	52 28.50	-0.9
			i	52 41.30	
TUL	57.48	307	ePc	52 27.70	-1.7
	1.0s	97.40nm			5.8mb
Z	23s	13.89um			6.0MszX
			eS	00 07.80	
			LR	08 49.50	
CTI	57.52	40	P	52 30.80	1.1
SOTA	57.72	39	iPc	52 29.90	-1.2
	0.7s	103.00nm			6.0mb
			i	52 38.70	
			i	52 42.40	
PPM	57.74	287	(P)	52 32.50	0.4
WIT	57.80	31	eP	52 29.00	-2.3
			e	54 33.00	
DUI	57.85	46	P	52 34.70	2.7X
SOI	57.99	50	P	52 33.80	0.9
VVI	57.99	41	P	52 34.40	1.5

BCAO	58.12	90	iPd	52	34.00	-0.2	BERA	61.57	48	eP	52	57.90	0.4	PVL	66.03	47	iPd	53	25.00	-1.7
	1.3s	296.00nm			6.2mb		LACI	61.62	47	eP	52	58.80	1.0	PRK	66.06	51	eP	53	26.50	-0.4
		i	52	41.70			TIR	61.66	48	eP	52	59.00	0.8	ALN	66.14	49	ePc	53	27.32	-0.1
		i	56	44.50			ZST	61.78	40	e(PKP)	52	58.00	-0.8	CMP	66.22	44	ePc	53	30.00	2.0
FUR	58.16	38	iPc	52	33.40	-0.6				e	55	18.00		SMG	66.28	53	eP	53	28.00	-0.4
	2.0s	815.00nm			6.4mb		PLE	61.83	45	iPd	52	56.23	-3.2X	KAP	66.30	55	eP	53	27.50	-1.1
FVI	58.46	40	P	52	37.40	1.4	PVY	62.05	46	iPd	53	01.91	1.0	UPP	66.51	28	iP	53	29.00	-0.4
III	58.52	286	(P)	52	38.00	0.8	BCI	62.06	47	eP	53	00.40	-0.4				iS	02	20.00	
FRB	58.60	346	ePc	52	35.80	-1.0	IVA	62.06	46	iPd	53	01.56	0.6	BUC	66.79	45	ePc	53	28.50	-3.1X
	1.1s	99.00nm			5.8mb		PHP	62.16	47	iPd	53	01.50	0.0	JMB	66.80	48	iPd	53	31.00	-0.7
TDS	58.63	49	P	52	39.20	1.8	COP	62.16	30	eP	53	01.00	-0.2	MLR	66.89	44	ePc	53	31.00	-1.4
CRX	58.74	287	(P)	52	39.00	0.1	Z	22s	6.52um			5.7Msz		FFC	66.97	326	iPd	53	31.30	-1.2
TRI	58.76	41	ePc	52	35.60	-2.6				eS	01	28.00			1.1s	81.00nm			5.8mb	
		e(SP)	00	42.00			UZD	62.21	42	iP	53	02.00	0.2	CVO	67.12	44	eP	53	33.00	-0.7
		eLR	10	16.00			KSP	62.23	37	ePc	53	00.50	-1.3	ARG	67.13	54	eP	53	33.00	-0.9
TRI	58.76	41	P	52	39.30	1.1		2.2s	284.00nm			6.1mb		YER	67.36	53	eP	53	34.30	-1.1
GRF	58.79	36	iPc	52	37.60	-0.8	OHR	62.29	48	eP	53	02.20	-0.3	EDC	67.43	50	iP	53	35.00	-0.7
	2.0s	419.00nm			6.2mb			2.0s	363.00nm			6.2mb		BNT	67.47	50	iP	53	35.50	-0.5
Z	22s	3.50um			5.4Msz		ITM	62.34	53	iPc	53	02.00	-0.8	VRI	67.51	44	ePc	53	36.50	0.4
		e	52	45.70			SRO	62.42	40	e(PKP)	53	02.30	-0.8	PSN	68.15	46	iPd	53	40.00	-0.2
		eS	00	42.00						e	55	17.30		KSL	68.30	55	eP	53	40.10	-1.1
AKU	58.83	10	iP	52	38.90	0.6	EVR	62.58	51	eP	53	04.70	0.2	ITU	68.39	49	eP	53	40.00	-1.7
	1.9s	357.89nm			6.2mb		BUD	62.77	41	iP	53	04.50	-0.9	PV09	68.40	308	eP	53	42.50	0.2
Z	18s	6.87um			5.8Msz		KZN	62.83	49	eP	53	05.50	-0.6	KHL	68.46	52	iP	53	41.40	-0.9
ACX	58.88	284	(P)	52	39.50	0.0	SKO	62.95	47	iP	53	06.00	-0.8	ELL	68.62	54	iP	53	43.40	0.0
VOY	58.96	41	ePc	52	39.40	-0.3		1.7s	241.00nm			6.1mb		DAG	68.94	5	iPd	53	44.00	-0.4
BHG	58.96	39	iPc	52	38.50	-1.1	Z	15s	2.90um			5.6MszX			0.7s	36.30nm			5.7mb	
	2.0s	495.00nm			6.3mb		N	14s	2.05um					Z	18s	4.54um			5.8Msz	
KBA	59.00	40	iPc	52	39.30	-0.8	E	17s	1.65um					ALT	68.99	52	eP	53	46.50	0.9
	1.3s	214.00nm			6.1mb					i	53	14.70		BCK	69.22	53	eP	53	45.60	-1.4
		i	52	47.70						iPPP	57	11.00		BW06	69.22	312	ePc	53	45.70	-1.5
		i	54	02.30						iS	01	40.00			1.0s	46.67nm			5.6mb	
CEY	59.20	41	eP	52	40.60	-0.7				iPS	01	52.50				e	53	52.50		
LJU	59.38	41	ePc	52	42.00	-0.5				iSS	05	46.00				i	54	12.80		
MOX	59.43	35	iP	52	42.00	-0.8				iSSS	08	53.00		LWI	69.29	96	iPc	53	50.80	2.8X
	2.3s	419.00nm			6.2mb					LR	23	28.00		HLW	69.41	61	eP	53	49.00	0.8
Z	21s	5.40um			5.7Msz		8EO	62.96	44	eP	53	06.00	-0.7				epP	53	57.00	26kmX
N	20s	3.10um					VLI	63.06	53	iPd	53	07.50	0.0				eS	03	00.00	
E	18s	3.90um					LIT	63.33	49	ePc	53	08.36	-0.9	BLE	69.77	131	iPc	53	50.00	-0.3
HOF	59.44	36	eP	52	42.30	-0.6	GRG	63.44	49	ePd	53	09.20	-0.8		1.5s	60.00nm			5.5mb	
	2.0s	281.00nm			6.0mb		VAY	63.64	48	iP	53	11.00	-0.3	NUR	70.01	28	iP	53	50.60	-0.6
Z	18s	6.00um			5.8Msz			2.0s	436.00nm			6.3mb			0.9s	19.30nm			5.2mb	
MEO	59.46	305	iPd	52	41.70	-1.6				i	53	19.30		Z	22s	8.60um			6.0Msz	
WET	59.54	37	eP	52	42.60	-1.0	TIM	63.73	43	iPc	53	12.00	0.3				e	03	04.00	
	2.0s	286.00nm			6.1mb		KNT	63.85	48	iPc	53	12.08	-0.6				e	07	28.00	
Z	18s	10.00um			6.0Msz		WIN	63.86	120	iPc	53	13.50	0.3				LR	19	10.00	
VBY	59.67	42	ePc	52	44.00	-0.5		1.5s	80.00nm			5.7mb		CER	70.03	130	iPd	53	50.50	-1.4
KMR	59.87	39	iP+	52	45.20	-0.7	Z	18s	20.30um			6.3Msz			1.4s	10.00nm			4.8mb	X
		i	53	02.20			VAM	63.87	55	eP	53	12.50	-0.4	DAU	70.23	310	P	53	53.50	0.1
KHC	59.95	38	iPc	52	45.30	-1.1	PLG	64.10	49	eP	53	13.50	-0.9	AGMR	70.46	68	eP	53	56.50	1.8
	1.5s	108.00nm			5.8mb		KRA	64.15	38	eP	53	14.90	0.4	AKRL	70.62	68	eP	53	57.60	2.0
Z	20s	7.10um			5.8Msz			1.6s	224.00nm			6.1mb		AAHD	70.66	68	eP	53	58.00	2.1
N	20s	2.00um					Z	20s	2.90um			5.5Msz		AGAL	70.73	68	eP	53	58.00	1.7
E	20s	3.20um					E	22s	5.50um					ASW	70.77	68	eP	53	56.00	-0.6
		e	52	53.40						e	53	22.90				eS	03	16.00	
		S	01	00.00						e	53	37.10		MSU	70.78	308	P	53	57.00	0.3
ZAG	60.25	42	ePKP	52	48.30	-0.2				e	01	57.00		AKSR	70.90	68	eP	53	59.00	1.6
PTJ	60.26	42	ePKP	52	48.60	-0.1	PAIG	64.19	50	ePd	53	13.24	-1.7	KAF	71.27	27	iP	53	57.90	-1.0
CLL	60.51	35	iPc	52	49.20	-0.9	NB2	64.26	25	P	53	13.60	-1.5		0.8s	18.70nm			5.3mb	
	2.2s	250.00nm			6.0mb			1.3s	86.90nm			5.8mb		CSS	71.27	56	eP	54	07.00	7.5X
Z	18s	6.00um			5.8Msz		SRS	64.35	49	ePc	53	15.72	-0.3	TRO	71.29	18	iP	53	59.50	0.6
		e	52	57.00			VTS	64.37	47	iPd	53	17.00	0.7	LRM	71.66	315	eP	54	02.10	0.2
		eS	01	12.00			MMB	64.54	48	iPd	53	18.00	0.7	MBH	72.49	62	iPc	54	07.30	0.4
PRU	60.87	37	ePc	52	52.00	-0.6	HFS	64.87	26	eP	53	17.70	-1.3	GLA	72.71	302	eP	54	09.00	0.9
Z	17s	3.10um			5.5MszX			1.8s	414.30nm			6.3mb		ATZ	72.83	58	iPc	54	09.70	0.9
N	17s	2.10um					Z	17s	5.62um			5.8MszX		SOD	73.03	22	iP	54	08.70	-0.5
E	17s	3.30um								LR	12	28.00					i	54	16.30	
		e	53	00.50			DEV	64.90	43	ePd	53	20.00	0.6	GLH	73.16	59	iPc	54	11.70	1.0
		S	01	13.00			PGB	65.05	47	iPc	53	20.00	-0.6	BHL	73.17	57	P	54	09.00	-1.8
HCY	60.96	46	iPd	52	51.56	-1.8	APE	65.17	53	eP	53	20.20	-1.2				S	03	41.00	
MUD	60.96	29	ePd	52	53.00	0.0	PLD	65.36	48	iPd	53	23.00	0.6	EDM	73.17	323	iPc	54	10.20	-0.2
	1.6s	140.00nm			5.8mb		RSSD	65.49	315	P	53	22.00	-1.6	BUL	73.19	114	iPc	54	13.40	2.2
		i	53	10.00				1.0s	51.52nm			5.7mb			0.9s	15.13nm			5.1mb	
BRN	61.10	34	ePc	52	54.30	0.2	Z	22s	8.99um			5.9Msz					ipP	54	23.80	34kmX
BRY	61.11	46	eP	52	54.34	-0.2	GLD	65.55	310	P	53	24.00	0.0	KVT	73.68	50	eP	54	14.10	0.5
BDV	61.15	46	iPd	52	53.71	-1.0	Z	20s	6.00um			5.8Msz		TPC	73.74	303	eP	54	15.00	0.9
VKA	61.31	39	iPc	52	54.80	-0.9	GOL	65.66	310	P	53	24.00	-0.8	HVD	73.80	125	iPc	54	13.50	-1.1
	2.2s	690.00nm			6.4mb			1.2s	55.33nm			5.6mb			1.0s	160.00nm			6.0mb	
Z	21s	6.30um			5.7Msz		Z	20s	5.00um			5.7Msz		KEV	73.93	19	iP	54	13.80	-0.6
		i	53	02.10			BMR	65.73	41	ePd	53	26.00	1.3				i	54	21.00	
		i	55	08.40			TNR	65.78	44	ePd	53	25.00	-0.1				e	03	46.00	
		i	55	13.10			KDZ	65.80	48	iPd	53	25.00	-0.3	PRY	74.21	121	iPd	54	20.50	3.4X
		LR	16	03.00			RDO	65.80	49	eP	53	25.00	-0.3		1.5s	60.00nm			5.4mb	
ULC	61.37	47	iPd	52	48.03	-8.2X	ALQ	65.88	304	ePc	53	25.20	-1.0	GSC	74.37	304	ePd	54	18.00	0.2
NKY	61.41	46	iPd	52	55.38	-1.2		1.8s	151.14nm			5.9mb					eS	03	57.40	
TTG	61.50	46	iPc	52	56.21	-0.8	Z	20s	3.72um			5.6Msz					eSKS	04	16.43	
SDA	61.56	47	eP	52	58.80	1.4	DIM	65.96	48	iPd	53	27.00	0.7				eSS	08	39.11	

10d 12h

SLR	74.53	120	iPc	54	16.00	-2.9X
	0.9s	116.00nm			5.9mb	
	Z 20s	12.60um			6.2Msz	
KBS	74.54	9	iPd	54	19.50	1.6
PEC	74.66	303	P	54	20.00	0.5
TNP	74.73	307	P	54	20.00	0.0
	1.0s	82.50nm			5.7mb	
SEK	74.78	122	iPc	54	20.25	-0.1
	0.9s	125.00nm			5.9mb	
RVR	74.84	303	eP	54	21.00	0.6
CLC	75.01	305	eP	54	22.00	0.5
NEW	75.05	318	eP	54	20.60	-0.8
	1.0s	140.00nm			5.9mb	
		i		54	27.20	
YKA	75.26	332	eP	54	19.10	-3.1X
	1.0s	16.10nm			5.0mb	
MWC	75.40	303	eP	54	24.00	0.1
KVN	75.43	308	P	54	23.90	-0.1
PAS	75.50	303	eP	54	20.00	-4.2X
		ePPP		59	16.00	
		eSKS		04	11.00	
		eSS		09	24.00	
		e		12	32.00	
		eSSS		13	39.00	
		eLg		16	23.00	
		eLR		18	08.00	
BONR	75.58	307	P	54	25.90	0.9
ISA	75.73	305	ePc	54	26.42	0.8
		eS		04	11.40	
		eS		04	11.85	
		eSKS		04	26.63	
AIA	76.00	190	eP	54	23.20	-3.1X
BFT	76.03	119	iPc	54	29.00	1.4
	0.7s	77.00nm			5.9mb	
ABL	76.35	304	P	54	30.00	0.7
FRI	76.71	306	ePd	54	30.80	-0.1
PNT	76.75	319	eP	54	31.00	0.0
	1.4s	250.00nm			6.1mb	
SYP	76.99	303	eP	54	34.00	1.3
NAI	77.01	93	eP	54	34.00	0.6
BCH	77.05	304	P	54	34.00	0.9
CMB	77.23	307	eP	54	34.40	0.5
PRI	77.50	305	eP	54	36.50	1.0
AAE	77.51	83	eP	54	39.70	3.5X
LLA	77.71	306	ePd	54	37.90	1.4
PRS	78.06	305	eP	54	39.60	1.1
ORV	78.06	309	ePd	54	39.20	0.8
SAO	78.11	306	eP	54	41.00	2.3
MIN	78.12	309	ePd	54	39.10	0.2
ARN	78.16	306	P	54	40.00	1.0
LON	78.18	316	P	54	40.00	1.0
MHC	78.24	306	ePd	54	41.30	1.7
LBFM	78.32	310	P	54	40.00	0.0
BKS	78.69	307	ePc	54	42.80	0.9
	1.0s	52.00nm			5.5mb	
Z	20s	3.90um			5.7Msz	
N	20s	3.30um				
E	20s	3.30um				
		eS		04	44.00	
		eSS		09	50.00	
		eLQ		15	12.00	
		eLR		19	56.00	
BRK	78.71	307	e(P)	54	43.20	1.2
WDC	78.83	310	eP	54	41.50	-1.1
MBC	79.06	346	eP	54	44.50	1.3
	1.5s	327.00nm			6.1mb	
BMW	79.16	316	P	54	44.50	0.1
COR	79.27	314	ePc	54	44.24	-0.6
		eS		04	47.89	
		eSKS		05	22.66	
PGC	79.27	318	eP	54	45.00	0.2
	1.1s	129.00nm			5.9mb	
FHC	79.92	310	P	54	50.00	1.5
	0.9s	100.00nm			5.8mb	
TAB	81.68	53	e(P)	55	00.00	2.0
NPA	81.87	107	eP	55	10.40	11.2X
KER	82.63	56	eP	55	03.00	0.0
INK	83.30	338	ePc	55	06.00	0.4
	1.3s	331.00nm			6.4mb	
FBA	89.61	336	eP	55	36.00	-0.7
	0.9s	43.75nm			5.7mb	
		i		55	45.30	
KLU	89.93	333	P	55	39.70	1.4
RND	90.57	335	e(P)	55	40.80	-0.4
		i		55	49.70	
PMR	91.34	333	P	55	46.00	1.4
	1.4s	79.55nm			5.9mb	

	Z 18s	3.33um			5.8Msz	
IMA	91.43	338	ePd	55	46.30	1.1
	1.4s	62.50nm			5.8mb	
SLKM	92.23	332	ePd	55	57.40	8.5X
		i		56	10.00	
QUE	99.90	57	eP	56	35.20	10.6X
NDI	108.85	56	ePKP	01	27.00	17.5X
GTA	119.23	35	PKP	01	30.00	0.8
	Z 20s	4.60um			6.1Msz	
	E 17s	3.10um				
		SS		19	12.00	
LSA	119.33	49	ePKP	01	30.00	-0.1
	Z 22s	4.30um			6.0Msz	
BTQ	123.58	27	ePKP	01	39.50	2.1
LZH	123.83	35	ePKP	01	33.00	-5.1X
	Z 24s	1.87um			5.7MszX	
	N 17s	1.49um				
		PKS		05	10.00	
		SKKS		10	10.00	
		SS		20	10.00	
HHC	124.06	26	ePKP	01	39.00	0.6
	Z 18s	6.00um			6.3Msz	
	N 18s	3.70um				
	E 19s	4.40um				
		PP		03	28.00	
CN2	126.03	13	ePKP	01	42.00	0.1
	Z 22s	4.30um			6.1Msz	
	N 18s	1.40um				
	E 18s	0.80um				
		epPKP		02	48.00	
		ePP		03	34.00	
MDJ	126.04	9	PKP	01	49.00	7.1X
		SS		20	40.00	
BJI	126.63	23	ePKP	01	43.50	0.3
	Z 24s	3.18um			5.9MszX	
	N 17s	1.41um				
TIY	127.02	28	ePKP	01	45.00	0.9
	Z 20s	4.60um			6.2Msz	
	N 24s	7.40um				
	E 20s	4.30um				
		PP		03	41.00	
CD2	127.36	40	ePKP	01	45.80	0.9
	Z 22s	5.50um			6.2Msz	
	N 20s	4.40um				
		ePP		03	53.40	
SNY	127.43	16	ePKP	01	45.00	0.4
	Z 24s	2.50um			5.8MszX	
	N 15s	1.00um				
	E 16s	1.40um				
XAN	128.16	33	PKP	01	46.00	-0.4
	N 18s	2.70um				
		PP		03	49.00	
TIA	130.31	25	ePKP	01	49.90	-0.4
KMI	130.39	46	ePdiff	58	56.42	15.8X
		ePP		04	08.39	
		iSKP		05	14.88	
		eSKS		08	52.47	
		eSKKS		11	03.25	
KMI	130.39	46	PKPd	01	50.50	-0.6
CHG	131.00	56	ePKP	01	53.10	1.0
CHTO	131.00	56	ePKP	01	52.55	0.4
GYA	132.24	42	PKP	01	55.80	1.4
NST	133.53	59	ePKP	02	01.50	4.6X
WHN	133.75	31	ePKP	02	00.00	3.0X
	Z 20s	2.50um			5.9Msz	
		ePP		04	24.00	
NJ2	134.62	26	PKPc	02	02.80	4.2X
	Z 22s	2.30um			5.9Msz	
SSE	136.42	24	ePKP	02	01.70	-0.3
	Z 20s	4.10um			6.2Msz	
	N 20s	2.80um				
	E 20s	3.90um				
		PP		04	42.00	
		SS		22	43.00	
SNG	137.55	69	ePKP	02	05.20	0.5
QIZ	139.33	47	ePKP	02	14.20	6.4X
	N 19s	3.00um				
		PP		05	03.00	
TAU	145.39	189	ePKP	02	20.00	2.3
NWAO	[illegible]94	142	ePKP	02	22.00	-0.1
	Z [illegible]s	2.00um			5.9Msz	
	N s	1.10um				
	E 0s	1.40um				
BAG	148.38	38	ePKP	02	26.00	2.5X
TOO	150.90	189	e(PKP)	02	33.00	6.4X
DZM	151.46	239	iPKPd	02	35.30	7.4X
BFD	151.61	184	ePKP	02	37.00	9.4X

CNB	152.24	196	ePKP	02	39.00	10.3X
ADE	153.87	177	ePKP	02	31.50	0.5
TSM	154.50	61	ePKP	02	43.00	10.7X
DAV	158.59	43	ePKP	02	43.00	5.5X
RMQ	160.55	204	ePKP	02	40.00	0.7
ASPA	164.00	159	ePKP	02	41.90	-1.0
WB2	167.54	154	iPKPd	02	46.10	0.3
QIS	168.24	178	ePKP	02	55.00	8.8X
		e		03	54.00	

S.D. = 0.9 on 386 of 429 obs.

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* FEB 10, 1991 12h 57m 34.15± 1.57s
30.637 S ± 9.9km 72.075 W ±12.7km
DEPTH = 53.6 ± 14.4 km
4.8mb (5 obs.)
OFF COAST OF CENTRAL CHILE (134)

RTRS	2.31	79	iPc	58	09.10	-1.3
IHA	2.41	171	eP	58	11.80	-0.1
PEL	2.76	155	iPc	58	16.50	-0.5
		i		58	22.50	
		iS		59	03.00	
LCCH	2.86	172	iP	58	16.80	-1.6
		i		58	53.00	
		iS		59	10.80	
RTCB	2.94	108	ePc	58	20.00	0.5
SAN	3.05	157	ePd	58	21.60	0.5
		iS		59	12.50	
RTLL	3.17	103	ePd	58	22.10	-0.7
RTCV	3.27	113	e(P)	58	25.00	0.9
CFA	3.43	107	ePd	58	26.80	0.4
		eS		59	09.00	
MDZ	3.54	130	eP	58	30.00	1.9
		i		58	46.00	
		i		59	25.00	
SLA	8.28	46	e(P)	59	35.00	0.5
ARE	14.12	2	eP	00	29.00	-24.2X
VAO	23.63	77	eP	02	39.50	-1.8
		e		02	49.60	
TUL	69.85	340	eP	08	04.30	-36.8X
	1.0s	20.20nm				
ALQ	72.83	331	eP	08	57.00	-2.2
	1.5s	17.36nm			4.8mb	
LKO	75.19	69	P	09	10.72	-2.4X
GOL	76.51	334	eP	09	21.00	0.6
	0.8s	5.58nm			4.6mb	
MSU	78.30	329	eP	09	30.10	-0.1
TNP	80.31	325	eP	09	43.20	2.1
	1.0s	4.50nm			4.4mb	
BW06	80.76	333	eP	09	43.90	0.5
	1.9s	30.88nm			4.9mb	
KVN	81.50	325	eP	09	40.20	-7.0X
BCAO	92.76	87	ePd	10	43.00	0.7
	0.7s	6.00nm			5.1mb	
		i		10	55.10	
YKA	98.87	341	eP	10	55.70	-13.2X
	0.4s	0.50nm				
QUE	144.80	80	ePKP	17	05.90	-1.3
KOD	145.16	119	ePKP	17	05.80	-2.5X
POO	146.88	103	ePKP	17	19.00	8.3X
GBA	147.21	114	PKP	17	21.00	9.8X
HYB	150.22	109	ePKP	17	21.00	5.1X
GKN	159.53	92	PKP	17	27.80	-0.4
DMN	159.84	93	PKP	17	28.30	-0.4
KKN	160.04	92	PKP	17	29.60	0.8
PKI	160.09	93	PKP	17	28.60	-0.4
GUN	160.58	93	PKP	17	30.80	1.3

S.D. = 1.2 on 24 of 33 obs.

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* FEB 10, 1991 12h 58m 56.42± 2.52s
37.770 N ±15.1km 16.633 E ±19.7km
DEPTH = 33.0km (normal)
IONIAN SEA (399)

SOI	0.55	304	Pd	59	09.10	1.4
		eSg		59	14.40	
MSI	0.95	297	Pd	59	13.00	-0.5
		eSg		59	21.30	
ATN	1.00	293	Pd	59	13.60	-0.6
		eSg		59	22.70	
MEU	1.51	244	P	59	21.80	0.2
MNO	1.54	277	P	59	21.70	-0.4
		eSn		59	34.80	
TDS	1.90	353	P	59	31.30	4.2X
GIB	2.07	277	P	59	28.40	-1.3
FAI	2.40	259	Pd	59	34.90	0.6
		eSn		59	55.90	

SGO 2.97 340 P 59 42.90 0.7
eSn 00 12.40
BAI 3.35 3 P 59 47.00 -0.7
S.D. = 1.0 on 9 of 10 obs.

• FEB 10, 1991 13h 30m 13.33± 0.98s
22.434 S ±10.1km 68.766 W ±13.2km
DEPTH = 120.5 ± 11.8 km
4.5mb (2 obs.)
NORTHERN CHILE (123)

ANT 1.98 230 iP 30 47.00 0.0
iS 31 08.50
CCH 5.60 27 P 31 37.20 1.3
CNCB 5.64 8 P 31 37.00 0.3
S 33 40.00
LPB 5.90 6 ePc 31 40.00 -0.2
0.9s 33.61nm 4.6mb
i 32 10.10
ZOBO 6.16 6 P 31 42.80 -1.1
(S) 32 30.00
VAO 20.12 96 eP 34 39.60 -0.3
BAO 20.76 75 ePd 34 45.50 -1.0
TUL 63.41 336 e(P) 40 31.00 -1.2
KIC 68.84 73 P 41 08.00 0.9
YKA 92.11 341 eP 43 10.80 1.3
0.7s 1.80nm 4.4mb
WRA 132.22 210 PKP 49 18.00 2.7X
0.8s 2.20nm
GBA 146.75 99 PKP 49 45.00 3.5X
S.D. = 1.2 on 10 of 12 obs.

FEB 10, 1991 14h 15m 19.85± 0.27s
14.005 N ± 2.9km 144.743 E ± 3.3km
DEPTH = 155.7 ± 2.5 km
5.5mb (81 obs.)
MARIANA ISLANDS (216)
mb 5.9 (BRK). Mo=6.0•10••17 Nm
(PPT). Felt (IV) in northern
Guam.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 19S, 44C
Centroid Location:
Origin Time 14:15:25.2 0.3
Lat 14.00N 0.03 Lon 144.73E 0.02
Dep 154.4 1.1 Half-duration 3.7
Moment Tensor; Scale 10••18 Nm
Mrr=-0.04 0.02 Mtt=-0.10 0.03
Mff= 0.14 0.03 Mrt= 0.37 0.02
Mrf=-0.07 0.02 Mtf=-1.15 0.03
Principal Axes:
T Val= 1.24 Plg=13 Azm= 47
N -0.06 72 269
P -1.18 12 139
Best Double Couple:Mo=1.2•10••18
NP1:Strike=183 Dip=72 Slip= 1
NP2: 93 89 162

PJG 0.43 164 iPc 15 42.40 -0.4
GUMO 0.43 164 P 15 42.00 -0.8
GUA 0.49 161 iPc+ 15 42.40 0.4
eS 15 59.00
JAY 16.89 194 ePd 19 10.50 1.9
0.8s 177.10nm 5.5mb
RAB 19.52 157 iPd 19 39.00 1.5
1.0s 4800.00nm 6.9mb X
iS 23 20.00
DAV 20.05 252 eP 19 44.00 1.1
1.8s 1573.43nm 6.2mb
MNDI 20.06 183 eP 19 43.00 -0.2
OCP 22.94 274 eP 20 09.00 -2.3
SHK 23.17 334 ePc 20 13.90 0.5
MAT 23.19 347 P 20 13.00 -0.7
MNI 23.31 239 ePd 20 15.00 0.1
PMG 23.38 174 iPd 20 15.00 -0.7
1.0s 1000.00nm 6.3mb
AAI 24.05 224 ePd 20 11.50 -10.6X
0.6s 74.70nm
ANP 24.50 301 e(P) 20 40.00 13.6X
OZH 26.90 298 eP 20 48.00 -0.2
0.9s 60.00nm 5.2mb
Z 16s 4.51um 5.1MszX
N 13s 4.00um
S 25 11.00
SSE 27.74 312 iPc 20 54.00 0.2
1.0s 420.00nm 6.1mb

HNR 27.74 146 eP 20 55.00 -0.9
eS 25 16.00
TSM 28.04 252 ePc 21 03.00 4.4X
ed 27 38.00
SAP 29.10 355 eP 21 07.00 -0.8
NJ2 29.71 312 Pc 21 14.00 0.7
1.0s 200.00nm 5.8mb
Z 14s 1.80um 4.9MszX
N 10s 1.70um
E 11s 2.30um
PP 22 15.00
iS 25 58.00
ScP 27 40.50
MTN 29.89 207 eP 21 14.20 -0.8
0.3s 93.00nm 6.0mb
GZH 31.05 292 Pc 21 26.00 0.8
Z 28s 4.20um 5.0MszX
N 12s 1.90um
E 12s 2.70um
PP 22 30.00
S 26 20.00
MKS 31.52 234 iPc 21 31.00 1.6
DL2 32.12 325 iPc 21 35.00 0.7
1.6s 370.00nm 5.9mb
Z 20s 2.20um 4.8Msz
N 12s 2.20um
pP 22 07.00 150kmX
S 26 36.00
WHN 32.44 306 iPc 21 38.70 1.5
1.5s 400.00nm 6.0mb
Z 16s 1.80um 4.9MszX
N 12s 4.00um
E 12s 2.00um
pP 22 08.00 135kmX
S 26 42.00
MDJ 33.13 340 iPc 21 43.00 0.0
1.5s 200.00nm 5.6mb
Z 20s 5.10um 5.2Msz
N 13s 4.10um
S 26 50.00
TIA 33.18 317 eP 21 43.50 -0.1
Z 20s 3.70um 5.1Msz
N 16s 5.40um
S 26 52.00
ScP 27 51.50
SNY 33.25 331 iPc 21 43.00 -1.1
1.6s 100.00nm 5.3mb
Z 20s 4.40um 5.2Msz
N 13s 3.90um
E 11s 1.80um
PP 22 57.00
iS 26 51.00
KNA 33.52 209 eP 21 46.00 -0.6
QIZ 33.79 283 Pc 21 50.00 0.9
1.4s 100.00nm 5.3mb
pP 22 22.00 148kmX
PP 23 08.50
S 27 00.00
sS 28 00.00
SS 29 13.00
CN2 33.98 335 Pc 21 50.10 -0.3
1.0s 40.00nm 5.1mb
PP 23 10.00
S 27 00.00
ScP 27 53.00
QIS 34.71 188 iPd 21 56.50 -0.3
0.5s 86.00nm 5.7mb
eS 27 12.00
i 32 20.00
WB2 35.25 197 iPd 22 00.00 -1.4
iS 27 17.90
BJI 36.04 321 iPc 22 08.50 0.7
1.2s 450.00nm 6.1mb
Z 18s 4.40um 5.3Msz
N 18s 5.83um
eS 27 32.00
eScP 28 02.00
TIY 37.15 315 iPc 22 18.60 1.3
1.0s 500.00nm 6.2mb
Z 17s 4.20um 5.3MszX
N 15s 4.50um
pP 22 49.00 135kmX
S 27 54.00
GYA 37.67 295 iPc 22 24.00 2.1
1.4s 400.00nm 5.9mb
Z 20s 1.60um 4.8Msz
N 14s 4.30um
E 14s 1.80um
pP 22 57.00 150kmX
PcP 24 35.60
S 28 04.40
ScP 28 08.80
PcS 28 27.40
ScS 32 17.60
XAN 38.04 308 iPc 22 25.50 0.7
0.9s 200.00nm 5.8mb
N 10s 3.70um
E 10s 3.10um
pP 22 58.00 148kmX
S 28 07.00
ASPA 38.91 196 iPd 22 31.40 -0.6
0.8s 150.90nm 5.8mb
iScP 28 12.80
eS 28 13.80
iScS 32 26.20
BKM 39.09 143 iPc 22 34.50 1.0
PVC 39.19 143 iPc 22 35.30 1.0
HHC 39.38 319 iPd 22 37.00 1.2
1.2s 500.00nm 6.1mb
pP 23 08.00 139kmX
sP 23 25.00
PP 24 16.00
BTO 40.24 318 iPc 22 44.00 1.1
3.0s 1500.00nm 6.2mb
N 13s 1.90um
E 18s 3.40um
pP 23 14.00 134kmX
ePP 24 21.50
S 28 40.00
SS 31 33.00
RMO 40.44 174 iPd 22 44.00 -0.5
i 23 22.00
e 28 18.00
KMI 40.94 292 Pc 22 51.00 2.0
1.5s 180.00nm 5.5mb
Z 20s 1.80um 4.9Msz
E 10s 0.40um
pP 23 24.00 149kmX
S 28 48.00
iS 28 53.00
sS 29 49.00
CD2 41.18 301 iPc 22 51.60 1.0
0.6s 200.00nm 5.9mb
Z 13s 4.30um 5.5MszX
E 11s 2.70um
pP 23 24.00 145kmX
S 28 52.00
sS 29 48.00
LOE 41.48 280 eP 22 53.00 -0.3
e 28 23.00
BRS 41.88 169 iPc 22 57.00 0.6
PCT 41.94 276 eP 22 59.20 2.2
KGM 42.63 258 eP 23 03.00 0.4
MBL 42.66 215 iPd 23 02.30 -0.4
LZH 42.67 309 iPc 23 04.50 1.6
1.5s 720.00nm 6.1mb
pP 23 37.50 148kmX
sP 23 52.50
S 29 09.00
sS 30 10.00
SS 32 18.00
NST 43.10 278 eP 23 08.00 1.6
WARB 43.66 204 iPd 23 11.30 0.5
0.4s 45.00nm 5.4mb
e 29 27.50
NNT 43.78 274 iPd 23 14.00 2.1
SNG 43.85 266 eP 23 13.20 0.7
0.8s 65.67nm 5.3mb
e 28 34.40
eS 30 34.00
IPM 44.08 262 ePc 23 14.60 0.2
0.9s 48.60nm 5.1mb
e 28 34.10
BDT 44.09 280 eP 23 14.00 -0.4
CHG 44.10 283 iPc 23 15.00 0.5
1.5s 43.06nm 4.8mb
KHT 44.65 277 eP 23 20.70 1.8
COO 44.85 171 iPc 23 20.10 -0.2
0.9s 110.00nm 5.5mb
i 28 39.00
SMY 45.14 25 ePd 23 24.00 1.8
Z 18s 3.33um 5.3Msz
CMS 45.24 179 iPd 23 23.00 -0.2
e 28 40.00

10d 14h

SVA		46.09	133	eP	23	30.80	0.7			1.4s	130.68nm		5.7mb		BONR	86.88	52	P	27	49.20	0.5
NANU		46.26	219	iPd	23	31.30	-0.1		NDI	63.84	295	iPc	25	37.00	-1.1		ABL	86.97	55	P	27	49.60	0.5
GTA		46.81	311	iPc	23	37.00	1.2			1.0s	55.00nm		5.4mb				ISA	87.35	54	eP	27	50.00	-0.7
		1.0s	220.00nm			5.7mb			KSH	64.89	307	P	25	46.00	1.2		SOD	87.44	340	iP	27	48.90	-1.5
	Z	20s	3.30um			5.3Msz				E 14s	3.10um						TNP	87.67	51	P	27	52.60	0.2
	N	13s	2.40um									pP	26	19.00	136kmX			1.0s	117.50nm			5.8mb
				pP	24	08.00	136kmX		GBA	65.15	279	Pc	25	44.50	-2.1		CLC	88.00	54	eP	27	54.00	0.2
				sP	24	26.00				0.7s	8.00nm		4.7mb				MWC	88.06	55	eP	27	54.00	-0.3
				ScP	28	44.20			KOD	65.70	275	eP	25	51.40	0.8		SBB	88.12	55	eP	27	56.70	2.3
				S	30	14.00			IMA	65.92	23	ePd	25	49.60	-1.3		TRO	88.49	344	eP	27	54.50	-0.9
				sS	31	14.00				1.2s	30.30nm		5.1mb				RVR	88.67	55	eP	27	57.00	0.0
				ScS	33	12.00			PMR	66.48	28	ePc	25	51.90	-2.4		GSC	88.76	54	eP	27	58.00	0.5
FORR		47.38	200	eP	23	39.50	-0.6			0.9s	35.00nm		5.2mb				LRM	88.77	43	eP	27	57.10	-0.5
MEKA		47.74	212	eP	23	42.30	-0.7			Z 20s	1.50um		5.2Msz				PEC	88.87	55	P	27	58.00	0.0
ADK		48.77	31	ePc	23	51.60	1.0		BRW	66.97	17	ePd	25	56.50	-0.8			1.4s	187.50nm			5.9mb
		1.2s	170.70nm			5.6mb			POO	67.83	285	iPd	26	03.50	-0.1		DAG	88.88	356	ePd	27	55.20	-1.9
ADE		49.04	187	iPd	23	53.00	0.1					iS	35	50.00				0.6s	16.67nm			5.2mb	
		0.8s	276.12nm			6.0mb			FBA	67.90	25	ePd	26	00.90	-2.3		CPE	89.20	56	eP	28	01.50	2.0
CNB		49.24	175	iPc	23	55.10	0.6			1.1s	19.20nm		4.8mb				TPC	89.69	55	eP	28	02.00	0.2
		1.0s	200.00nm			5.8mb			KLU	67.96	29	P	26	02.40	-1.3		IKP	90.06	56	eP	28	05.40	1.8
BSI		49.38	265	eP	23	55.00	-0.8		TOA	67.96	28	ePd	26	02.90	-0.8		KAF	90.29	336	iP	28	01.20	-2.7
COOL		50.07	207	eP	23	59.50	-1.3		AFR	71.80	114	iP	26	29.90	2.3			0.8s	14.80nm			5.1mb	
BFD		50.95	182	iPd	24	09.20	1.9			0.8s	40.00nm		5.2mb				DUG	90.32	48	P	28	04.80	0.1
		0.6s	203.00nm			6.0mb			PPT	71.99	114	iP	26	31.00	2.2		GLA	90.98	56	eP	28	08.00	0.2
MRWA		51.16	213	eP	24	08.00	-1.1			0.8s	20.00nm		4.9mb				MSU	91.33	50	P	28	10.00	0.5
		0.4s	12.00nm			5.0mb			PAE	72.02	114	iP	26	31.20	2.3		DAU	91.38	48	P	28	09.60	-0.2
TOO		51.30	179	iPd	24	11.40	1.4			0.8s	20.00nm		4.9mb				FFC	91.53	32	eP	28	08.30	-1.5
		0.9s	411.00nm			6.1mb			PPN	72.10	114	iP	26	31.70	2.3			1.2s	53.00nm			5.5mb	
				e	29	06.50				0.8s	25.00nm		5.0mb				BW06	91.76	45	P	28	11.30	-0.1
LSA		51.70	297	iPc	24	14.00	0.2		PMO	72.59	111	iP	26	34.70	2.4			1.0s	21.67nm			5.2mb	
	Z	22s	2.13um			5.1Msz				0.8s	45.00nm		5.3mb							pP	28	25.90	50kmX
				pP	24	48.00	148kmX		QUE	72.66	298	eP	26	32.60	-0.2		NUR	91.82	335	iP	28	09.10	-1.9
BAL		51.91	211	eP	24	13.30	-1.4		TPT	72.84	111	iP	26	36.10	2.4			0.9s	15.50nm			5.1mb	
		0.3s	11.00nm			5.1mb				0.8s	30.00nm		5.1mb				VNDA	91.88	176	iPd	28	12.10	1.3
KLB		52.21	209	iPd	24	15.30	-1.6		VAH	72.91	111	iP	26	36.40	2.3		SBA	92.54	175	iPc	28	16.90	3.0X
		0.5s	46.00nm			5.5mb				0.8s	10.00nm		4.6mb				RSSD	94.95	42	P	28	25.20	-0.8
MUN		53.28	210	iPc	24	23.70	-1.0		RUV	73.12	111	iP	26	37.70	2.4			1.0s	40.67nm			5.7mb	
		0.7s	63.00nm			5.5mb				0.8s	25.00nm		5.0mb				UPP	95.05	336	iP	28	23.50	-2.4
NWAO		53.56	209	iPc	24	25.70	-1.1		INK	74.03	23	ePc	26	37.20	-2.6		GOL	95.84	47	P	28	30.40	0.1
		0.6s	47.00nm			5.5mb				0.9s	50.00nm		5.2mb					Z 20s	0.90um			5.2Msz	
	Z	20s	1.40um			5.0Msz			TBI	74.28	119	iP	26	50.60	8.6X		HFS	96.36	338	eP	28	29.00	-2.9
GUN		56.21	294	P	24	46.20	-0.4			1.0s	105.00nm		5.5mb					0.9s	11.40nm			5.3mb	
PKI		56.62	294	P	24	48.80	-0.7		MBC	77.90	14	ePd	27	00.10	-1.3			Z 18s	1.33um			5.5Msz	
TAU		56.68	178	iPd	24	49.50	0.4			1.0s	54.00nm		5.2mb							LR	06	45.00	
WMQ		56.76	313	iPc	24	50.50	0.6		PGC	80.81	42	eP	27	17.00	-0.4		NB2	96.62	339	P	28	31.10	-2.0
		1.2s	300.00nm			6.1mb			BMW	81.37	44	P	27	20.60	0.1			0.9s	7.40nm			5.1mb	
	Z	22s	2.20um			5.2Msz			GMW	81.46	43	P	27	21.20	0.3		ALQ	96.88	52	ePc	28	35.00	0.0
				pP	25	26.00	152kmX		FHC	81.94	50	ePc	27	24.50	0.9			1.0s	12.50nm			5.3mb	
				S	32	33.00			RMW	82.13	43	P	27	24.20	-0.3					e	29	08.00	
				sS	33	34.00			LON	82.27	44	P	27	24.80	-0.4		KRA	99.98	327	eP	28	46.20	-2.2
DMN		56.89	294	P	24	50.80	-0.5		YKA	82.55	27	eP	27	23.80	-2.4					e	32	39.50	
GKN		57.31	294	P	24	53.40	-0.7			1.1s	29.40nm		5.0mb				KSP	101.34	330	ePdiff	28	48.00	-6.4X
SDN		58.85	33	ePd	25	02.10	-2.0		WDC	83.06	50	iPc	27	29.60	0.3					e	31	13.50	
		0.8s	315.00nm			6.3mb			PNT	83.14	41	ePc	27	29.00	-0.6					e	33	06.80	
WLZ		59.14	152	P	25	07.00	0.7			1.0s	87.00nm		5.5mb				MEO	102.83	49	ePdiff	29	01.30	-0.1
TAZ		59.89	151	P	25	12.60	1.3		NWRM	83.26	52	P	27	30.60	0.3		GRF	104.55	331	ePdiff	29	06.80	-1.9
CNZ		60.23	153	P	25	14.50	0.6		LBFM	83.38	49	P	27	31.50	0.3			2.1s	17.00nm			5.7mb	
HBZ		60.24	150	P	25	12.70	-1.1		KBS	83.78	352	eP	27	32.00	-0.2					e	32	25.60	
		0.8s	178.00nm			6.0mb			MIN	83.81	50	ePc	27	32.70	-0.6		ABH	106.10	333	ePKP	33	40.67	13.8X
NGZ		60.24	153	P	25	14.70	0.7		ZSP	83.85	53	ePc	27	33.70	0.4		MEM	106.23	334	PKP	33	31.30	4.3X
PUZ		60.59	150	P	25	14.90	-1.3		PCC	83.86	53	ePc	27	33.40	0.1					e	34	16.50	
NOZ		60.91	151	Pd	25	17.60	-0.7		BRK	83.87	53	ePc	27	33.80	0.4		SCH	106.43	18	ePKP	33	27.00	-0.4
THZ		61.27	156	Pd	25	19.30	-1.5		BKS	83.88	53	iPc	27	33.80	0.3		SNF	107.03	335	ePKP	33	47.70	19.1X
KIW		61.33	154	Pd	25	20.10	-1.1			1.1s	285.00nm		6.0mb							e	34	22.00	
TCW		61.36	155	Pd	25	20.30	-1.0					iS	37	39.00			BSF	107.94	332	ePKP	33	30.20	-0.4
MNG		61.37	154	Pd	25	20.40	-1.0					eLQ	48	42.00			HAU	108.01	332	ePKP	33	30.30	-0.3
MRW		61.55	155	Pd	25	21.40	-1.2		ORV	84.07	51	ePc	27	34.20	-0.2			Z 22s	1.15um			5.4Msz	
CAW		61.60	154	Pd	25	21.90	-1.1		GCC	84.26	53	eP	27	35.70	0.3		LPL	109.65	330	ePKP	33	33.90	-0.1
WEL		61.62	155	P	25	21.00	-2.1		MHC	84.46	53	ePc	27	37.20	0.6			1.0s	9.00nm				
				S	33	31.00			ARN	84.55	53	P	27	37.60	0.7		LPG	109.65	330	ePKP	33	34.00	-0.1
WDW		61.70	154	Pd	25	22.30	-1.3		SAO	84.75	54	ePc	27	38.00	0.1			1.1s	11.00nm				
PGZ		61.72	153	Pd	25	22.60	-1.1		PRS	84.91	54	ePc	27	39.40	0.7		LOR	109.68	333	ePKP	33	33.70	0.0
		1.2s	709.00nm			6.5mb			NEW	85.00	42	P	27	38.90	-0.1			1.1s	11.00nm				
MTW		61.83	154	Pd	25	23.00	-1.4			1.0s	170.00nm		5.8mb					Z 21s	1.52um			5.5Msz	
LTZ		61.90	157	Pd	25	23.70	-1.3					pP	27	52.50	46kmX		SSF	110.00	333	ePKP	33	34.50	0.2
MOW		61.94	154	P	25	23.90	-1.3		LLA	85.18	54	ePc	27	40.70	0.7		FLN	110.32	336	ePKP	33	34.40	-0.5
BLW		61.99	154	Pd	25	24.30	-1.2		CMB	85.27	52	iPc	27	40.80	0.3			Z 22s	1.52um			5.5Msz	
KHZ		62.08	156	Pd	25	24.10	-1.9		PRI	85.51	54	ePc	27	42.80	1.0		GRR	110.77	336	ePKP	33	35.50	-0.2
		0.9s	174.00nm			6.0mb			EDM	85.89	36	ePc	27	42.50	-0.7		LPF	111.13	336	ePKP	33	36.30	-0.1
MSZ		62.08	161	Pd	25	26.10	0.1		FRI	86.05	53	iPc	27	44.50	0.2			0.8s	12.10nm				
MQZ		62.84	158	P	25	29.90	-1.2		KEV	86.09	342	iP	27	43.40	-0.5		TCF	111.16	333	ePKP	33	36.60	0.0
MHZ		62.86	161	P	25	30.10	-1.2			0.9s	47.30nm		5.3mb					1.1s	15.85nm				
SVW		63.35	28	ePc	25	33.00	-1.4		BCH	86.20	55	P	27	46.10	0.9		RSCP	111.46	42	PKP	33	36.40	-1.1
		0.9s	28.90nm			5.2mb			SYP	86.45	55	eP	27	47.00	0.5		LSF	111.49	333	ePKP	33	36.90	-0.3
HYB		63.53	283	ePc	25	35.50	-0.7		RKT	86.74	115	iP	27	51.60	3.8X		MFF	111.92	335	ePKP	33	37.90	0.0
				e	25	43.60				1.2s	75.00nm		5.5mb				TKL	112.58	41	PKP	33	39.50	-0.1
TTA		63.84	26	eP	25	38.10	0.6		KVN	86.75	51	P	27	47.80	-0.1		CVL	114.31	36	PKP	33	42.30	-0.6

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KRI   117.64 258 iPKPc 33 37.00 -13.0X
BUL   118.95 255 iPKPd 33 55.50   3.1X
TOL   119.03 333 ePKP  33 53.00   1.2
SLR   119.60 248 iPKPc 33 54.00   0.5
       0.9s    29.41nm
BCAO  123.59 285 iPKPc 34 01.10  -0.2
       0.7s    30.00nm
                i     35 05.50
                i     37 11.30
IFR   124.69 329 iPKPd 34 04.00   0.9
AVE   125.97 331 iPKPd 34 06.00   0.6
TIO   127.85 329 iPKP  34 09.50   0.3
WIN   129.77 252 iPKPd 34 14.50   1.3
       0.7s    13.70nm
SDV   138.17  59 ePKP  34 18.80 -10.5X
TOV   138.37  57 ePKP  34 21.50  -8.0X
LKO   142.40 307 PKP   34 33.46  -3.2X
SAN   142.50 127 ePKP  34 33.50  -2.8X
PEL   142.60 127 iPKPc 34 34.10  -2.4X
       0.5s    63.38nm
KIC   143.58 302 PKP   34 35.72  -2.9X
TIC   143.65 302 PKP   34 35.84  -2.9X
LIC   143.89 302 PKP   34 36.86  -2.3
RTRS  144.63 123 ePKPc 34 41.00   1.1
RTCB  144.70 125 ePKP  34 40.50   0.3
ARE   144.98  99 iPKPc 34 42.60   1.3
RTLL  145.02 125 e(PKP)34 41.00   0.3
CFA   145.10 126 ePKPd 34 41.10   0.3
ZOBO  148.21  98 PKPc  34 48.00   1.1
       0.9s   108.13nm
                SKS   42 29.00
                LR    24 20.00
LPB   148.24  99 PKPc  34 46.80   0.1
       0.9s   201.68nm
                eLR   17 30.00
CNCB  148.35  99 iPKPc 34 48.20   1.1
                i     34 52.50
SLA   149.61 115 e(PKP)34 48.00  -0.4
CCH   150.09 101 PKP   34 50.00   0.6
SIV   154.99  98 PKPc  34 56.60   0.6
VAO   165.75 131 ePKP  35 09.30   1.8
                e     36 09.80
BAO   167.58  99 ePKPc 35 10.00   0.9
BMA   167.92 137 ePKP  35 11.00   1.9
                e     36 19.50
JFO   169.14 136 ePKP  35 12.70   2.8X
SOB1  172.71  50 ePKP  35 14.80   3.1X
                e     36 40.50
PDCR  175.96  69 ePKP  35 12.80   0.2
                i     36 53.10
                e     40 44.20
                e     47 21.10
                e     47 28.50
     S.D. = 1.1  on 240 of 261 obs.
-------------------------------------
?  FEB  10, 1991  15h 34m 42.93± 2.45s
    5.367 S ±21.6km  131.606 E ±25.1km
    DEPTH =  76.4 ± 26.8 km
    4.6mb (  2 obs.)
 BANDA SEA                          (280)

AAI     3.79 296 eP    35 40.20   0.1
                eS    36 20.50
MTN     7.45 184 eP    36 32.00   0.9
                eS    37 53.00
KNA    10.69 195 eP    37 14.50  -0.8
       0.2s    29.00nm          5.9mb X
                eS    39 07.00
WB2    14.73 170 eP    38 05.00  -3.7X
                eS    40 40.00
QIS    16.98 153 eP    38 36.50  -0.6
                eS    41 35.00
ASPA   18.33 173 iPc   38 53.60  -0.1
       0.4s    38.80nm          5.0mb
                eS    42 10.00
MBL    19.41 215 eP    39 05.00  -0.9
WARB   21.24 192 eP    39 26.00   1.4
       0.4s     5.00nm          4.2mb
                eS    43 14.00
     S.D. = 1.2  on   7 of   8 obs.
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*  FEB  10, 1991  16h 28m 52.99± 2.11s
    11.287 N ± 8.8km  125.471 E ±11.9km
    DEPTH =  65.0 ± 18.4 km
    4.9mb (  7 obs.)
 SAMAR, PHILIPPINE ISLANDS          (251)

QCP     5.43 308 eP    30 36.00  22.8X
BAG     6.96 318 eP    30 34.90   0.1
SSE    20.11 349 Pc    33 24.30   0.2
       0.7s    20.00nm          4.6mb
IPM    25.10 257 ePc   34 15.20   1.8
BJI    29.80 346 eP    34 55.50  -0.3
QIS    34.56 156 eP    35 37.00  -0.6
ASPA   35.70 167 iPc   35 47.10  -0.2
       0.5s     8.30nm          4.9mb
                iPcP  38 14.40
GUN    40.58 300 P     36 28.40   0.0
PKI    40.89 299 P     36 30.40  -0.5
       0.8s    34.00nm          5.2mb
KKN    41.06 299 P     36 32.00  -0.2
       0.8s    30.00nm          5.1mb
DMN    41.16 299 P     36 32.60  -0.5
GKN    41.66 300 P     36 36.00  -1.1
SOD    83.05 337 iP    41 12.70   0.3
INK    83.63  22 eP    41 16.00   0.7
KAF    84.37 332 iP    41 19.00  -0.1
       0.4s     4.40nm          4.9mb
MBC    84.90  13 eP    41 22.50   0.9
       0.7s     4.00nm          4.6mb
NUR    85.53 331 eP    41 24.60  -0.4
       0.5s     5.30nm          4.9mb
LIC   127.76 287 PKP   47 53.80   0.0X
     S.D. = 0.8  on  16 of  18 obs.
-------------------------------------
    FEB  10, 1991  16h 37m 08.63± 0.43s
    43.183 N ± 5.2km    0.579 W ± 3.4km
    DEPTH =  10.0km  (geophysicist)
 PYRENEES                           (378)
      ML 2.8 (LDG).

ESCF    0.10 178 Pg    37 11.06  -0.4
                Sg    37 12.38
MADF    0.18 258 Pg    37 13.11   0.4
                Sg    37 16.11
JAU     0.21 133 Pg    37 13.25  -0.1
ISSF    0.22 226 Pg    37 12.92  -0.6
                Sg    37 16.06
BTH     0.28 102 iPgd  37 15.00   0.5
ELYF    0.30 268 Pg    37 15.39   0.4
                Sg    37 19.83
BOH     0.33 256 Pg    37 15.43   0.0
                Sg    37 19.81
EPF     0.69 102 Pg    37 22.60   0.3
                Sg    37 31.80
LPO     1.97  40 Pg    37 47.40   5.0X
                Sg    38 11.80
LFF     2.00  28 Pg    37 48.40   5.6X
                Sg    38 14.40
CAF     2.58  47 Pn    37 51.60   0.4
                Sg    38 31.20
RJF     2.60  35 Pg    37 59.40   8.0X
                Sg    38 32.40
LSF     3.42  25 Pn    38 02.90  -0.1
                Sn    38 41.00
                Sg    38 58.00
TCF     3.69  32 Pg    38 18.80  11.9X
                Sn    38 47.60
                Sg    39 06.80
MAF     3.78  35 Pn    38 07.20  -1.0
                Sg    39 10.20
BGF     4.16  35 Pg    38 27.20  13.6X
                Sg    39 21.40
     S.D. = 0.5  on  11 of  16 obs.
-------------------------------------
    FEB  10, 1991  16h 55m 26.63± 0.71s
    40.721 N ± 7.6km   15.815 E ± 5.8km
    DEPTH =  10.0km  (geophysicist)
 SOUTHERN ITALY                     (390)

SGO     0.42 247 P     55 35.00  -0.2
                eSg   55 40.30
BAI     0.89  63 P     55 43.00  -0.7
                eSg   55 57.00
BRT     1.07  81 P     55 47.30   0.6
                eSg   56 02.80
TDS     1.13 159 P     55 48.10   0.2
                eSn   56 02.80
SDI     1.80 304 P     55 58.30   0.3
SOI     2.65 176 P     56 09.90  -0.3
OHR     3.80  82 e(Pn) 56 35.00   8.5X
     S.D. = 0.6  on   6 of   7 obs.
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    FEB  10, 1991  17h 29m 40.73± 1.46s
    8.864 S ± 5.9km  124.308 E ± 9.6km
    DEPTH = 138.8 ± 15.2 km
    5.0mb ( 14 obs.)
 TIMOR                              (289)

MKS     6.01 307 iPc   31 10.00   1.4
MTN     7.78 121 iPc   31 28.80  -3.7X
KNA     8.11 148 eP    31 32.10  -4.9X
       0.2s    46.00nm          5.8mb X
                eS    32 56.00
MBL    12.96 199 eP    32 38.00  -2.9X
       0.3s     7.00nm          4.6mb
                eS    34 57.00
WB2    14.69 140 iPd   32 57.70  -5.3X
                eS    35 29.00
NANU   16.02 211 eP    33 19.00  -0.5
       0.3s     5.00nm          4.3mb
                eS    36 04.00
ASPA   17.35 149 iPd   33 33.30  -2.6
       1.0s    77.60nm          5.0mb
                iS    36 33.50
WARB   17.37 173 eP    33 35.00  -1.1
       0.4s    28.00nm          4.9mb
                eS    36 38.00
MEKA   18.48 197 eP    33 48.80   0.0
                eS    37 07.00
QIS    18.80 130 iPd   33 52.10  -0.1
       0.5s    37.00nm          5.0mb
                eS    37 09.00
MRWA   21.70 200 eP    34 22.00   0.4
FORR   22.16 171 eP    34 26.50   0.5
       0.4s    37.00nm          5.1mb
KLB    23.42 194 eP    34 39.50   1.2
MUN    24.20 197 eP    34 46.50   0.8
NWAO   24.82 194 eP    34 52.00   0.4
RMQ    29.05 130 eP    35 31.00   0.9
CMS    30.12 141 eP    35 41.00   1.6
BFO    32.67 152 eP    36 05.00   3.4X
KHT    34.67 312 iPc   36 20.30   1.3
CHG    37.18 318 eP    36 42.00   1.9
GYA    39.07 334 P     36 56.40   0.4
KMI    39.78 329 eP    37 05.00   3.0X
WHN    40.33 347 eP    37 07.50   1.4
NJ2    41.02 353 Pc    37 12.70   1.0
CD2    44.19 334 eP    37 37.20  -0.4
XAN    45.10 342 Pc    37 44.00  -0.8
TIY    47.65 347 iPd   38 04.00  -0.8
LZH    48.69 338 eP    38 13.00   0.0
       1.0s    22.00nm          4.9mb
LSA    49.88 322 P     38 21.80  -0.8
GBA    51.60 295 P     38 34.00  -1.2
GUN    52.13 316 P     38 39.00  -0.5
       0.8s    44.00nm          5.3mb
HYB    52.21 300 eP    38 38.00  -1.8
PKI    52.25 315 P     38 39.60  -0.7
       0.6s    21.00nm          5.1mb
CN2    52.42   1 eP    38 40.00  -0.9
KKN    52.47 315 P     38 41.20  -0.6
       0.7s    18.00nm          5.0mb
DMN    52.48 315 P     38 41.60  -0.4
       0.7s    14.00nm          4.9mb
GKN    53.05 315 P     38 45.20  -0.8
       0.6s    13.00nm          5.0mb
GTA    53.14 336 P     38 46.20  -0.2
       0.8s    10.00nm          4.7mb
MDJ    53.44   5 iPc   38 48.20  -0.2
       1.0s    80.00nm          5.5mb
QUE    67.36 308 eP    40 23.30  -0.1
YKA   111.87  25 ePKP  48 01.70   1.4
       0.4s     0.20nm
     S.D. = 1.1  on  35 of  41 obs.
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    FEB  10, 1991  18h 34m 38.07± 0.99s
    14.136 N ± 4.6km   61.174 W ±12.1km
    DEPTH =  10.0km  (geophysicist)
 WINDWARD ISLANDS                   ( 95)
      ML 2.2 (FDF). MD 2.4 (TRN).

SLW     0.26 116 eP    34 43.48  -0.1
                eS    34 47.28
SLB     0.33 157 iP    34 45.05   0.0
                eS    34 50.10
BIM     0.39  15 eP    34 46.88   0.8
MVM     0.50  33 iPc   34 47.88  -0.3
                S     34 54.80
FDF     0.59   2 eP    34 49.58  -0.5
       0.1s     0.25nm
```

10d 18h

		S	34 57.90			
SVV	0.81	183 eP	34 53.88	0.0		
		eS	35 03.56			
S.D. = 0.6	on	6 of	6 obs.			

FEB 10, 1991 19h 32m 53.46± 0.53s
39.600 N ± 4.9km 23.652 E ± 5.7km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
ML 3.3 (ATH).

PAIG	0.33	4 ePc	33 00.32	0.1		
		eS	33 05.88			
NEO	0.44	229 iPbc	33 01.70	-0.8		
PLG	0.79	348 ePn	33 09.00	0.2		
LIT	1.03	300 iPc	33 13.02	0.2		
		eS	33 29.52			
THE	1.16	333 ePd	33 15.40	0.3		
SRS	1.52	358 ePc	33 21.36	0.7		
		eS	33 42.80			
EVR	1.59	245 ePn	33 21.20	-0.5		
KZN	1.61	297 ePn	33 20.50	-1.6		
ATH	1.63	178 iPbc	33 24.80	2.6		
GRG	1.66	325 ePc	33 22.76	0.0		
KNT	1.66	340 iPc	33 23.28	0.5		
		eS	33 48.92			
VAY	1.91	335 ePn	33 27.40	1.1		
PRK	2.06	99 ePn	33 31.00	2.5		
EZN	2.07	83 ePn	33 32.70	4.0X		
RDO	2.11	42 ePn	33 27.50	-1.7		
ALN	2.24	54 ePd	33 29.84	-1.3		
OHR	2.65	306 ePn	33 37.50	0.4		
ITM	2.77	210 ePb	33 41.50	2.8X		
SKO	2.90	325 ePn	33 34.00	-6.6X		
APE	2.93	149 ePn	33 38.80	-2.1		
VLI	2.93	191 ePn	33 41.00	0.1		
EDC	3.32	76 ePn	33 46.00	-0.5		
BNT	3.36	76 ePn	33 56.30	9.2X		
S.D. = 1.3	on	19 of	23 obs.			

* FEB 10, 1991 19h 48m 55.42± 1.33s
51.993 N ±30.0km 177.085 E ± 8.3km
DEPTH = 73.5 ± 10.5 km
4.0mb (3 obs.)
RAT ISLANDS, ALEUTIAN ISLANDS (6)

SMY	1.97	293 eP	49 27.40	0.1		
ADK	3.86	89 eP	49 53.30	-0.2		
YKA	36.66	46 eP	55 56.90	0.8		
	0.4s	0.70nm		3.9mb		
NB2	66.75	353 P	59 39.50	-0.9		
	0.4s	0.30nm		3.6mb		
GUN	69.24	289 P	59 57.20	0.5		
	0.6s	8.00nm		4.8mb		
KKN	69.68	289 P	59 59.40	0.1		
PKI	69.77	289 P	59 59.00	-0.9		
GKN	69.90	290 P	00 00.60	0.1		
DMN	69.92	289 P	00 01.20	0.4		
S.D. = 0.8	on	9 of	9 obs.			

FEB 10, 1991 19h 55m 08.54± 0.39s
21.088 S ± 7.8km 179.101 W ± 3.5km
DEPTH = 618.9 ± 5.1 km
5.0mb (27 obs.)
FIJI ISLANDS REGION (181)

SVA	3.75	322 iPc	56 34.60	0.5		
VUN	3.83	323 iP	56 34.50	-0.1		
NDF	4.64	315 eP	56 40.80	0.5		
DZM	13.48	263 iPc	58 03.20	1.5		
TBI	27.51	100 iP	00 10.80	1.1		
	1.0s	120.00nm		5.5mb		
AFR	27.88	88 iP	00 12.40	-0.5		
	0.8s	70.00nm		5.3mb		
PAE	28.04	88 iP	00 13.60	-0.6		
	0.8s	20.00nm		4.8mb		
PPT	28.06	88 iP	00 14.10	-0.4		
	0.8s	40.00nm		5.1mb		
PPN	28.20	88 iP	00 15.20	-0.5		
	0.8s	25.00nm		4.9mb		
TVO	28.32	89 iP	00 16.20	-0.6		
	0.8s	65.00nm		5.3mb		
RMQ	29.85	253 iPd	00 30.40	1.7		
	0.5s	27.00nm		5.1mb		
PMO	30.25	84 iP	00 32.70	-0.4		
	0.8s	30.00nm		5.0mb		
VAH	30.43	84 iP	00 34.20	-0.4		
	0.8s	25.00nm		4.9mb		
TPT	30.51	84 iP	00 35.00	-0.3		
	0.8s	40.00nm		5.1mb		
RUV	30.67	84 iP	00 36.30	-0.3		
	0.8s	65.00nm		5.3mb		
PMG	34.48	285 iPd	01 07.00	-1.6		
TOO	34.72	234 ePd	01 12.00	1.6		
OIS	38.52	263 iPd	01 41.00	-0.6		
ADE	39.44	240 eP	01 50.00	1.1		
ASPA	43.39	257 iPd	02 20.20	0.1		
	0.6s	113.30nm		5.5mb		
		iScP	06 49.20			
		iS	08 02.90			
		eScS	11 11.10			
WB2	43.49	263 iPd	02 20.30	-0.7		
FORR	48.08	247 iPd	02 55.50	-0.3		
	0.4s	82.00nm		5.6mb		
MTN	48.14	271 eP	02 55.00	-1.4		
	0.3s	81.00nm		5.7mb		
KNA	49.57	267 iPd	03 06.10	-0.8		
	0.3s	34.00nm		5.3mb		
WARB	49.67	253 iPd	03 07.20	-0.4		
	0.4s	30.00nm		5.1mb		
AAI	54.02	281 eP	03 36.50	-2.4		
MBL	56.63	258 iPd	03 56.00	-0.8		
	0.4s	23.00nm		4.8mb		
MEKA	56.83	251 eP	03 57.20	-0.9		
KL8	56.87	245 iPd	03 57.70	-0.7		
	0.3s	20.00nm		4.8mb		
NWAO	57.19	244 eP	04 00.30	-0.2		
BAL	57.88	246 eP	04 04.80	-0.4		
MUN	58.14	245 eP	04 07.10	0.1		
MRWA	58.67	248 eP	04 10.10	-0.4		
	0.4s	5.00nm		4.1mb		
NANU	60.25	255 iPd	04 21.00	0.0		
	0.4s	16.00nm		4.6mb		
SSE	77.28	311 eP	06 01.20	-0.8		
PRS	78.95	44 eP	06 11.30	0.6		
BKS	79.32	42 iPd	06 13.20	0.6		
	0.7s	19.00nm		4.7mb		
MHC	79.38	43 eP	06 13.50	0.4		
NJ2	79.46	310 Pd	06 14.00	0.5		
SBB	80.38	47 eP	06 17.00	-1.3		
MDJ	80.41	326 eP	06 17.70	-0.4		
FRI	80.42	44 eP	06 18.50	0.2		
ISA	80.48	46 eP	06 19.00	0.2		
CMB	80.59	43 ePc	06 19.20	-0.1		
WDC	80.78	40 eP	06 20.20	0.1		
ORV	80.80	41 eP	06 20.40	0.2		
CLC	81.16	46 eP	06 22.00	-0.2		
TPC	81.29	48 eP	06 23.00	0.1		
GSC	81.41	47 eP	06 24.00	0.5		
GLA	81.59	50 eP	06 25.00	0.6		
WHN	81.97	307 eP	06 26.80	0.5		
SNY	82.00	321 iPc	06 26.00	-0.2		
CN2	82.14	323 Pd	06 26.00	-0.8		
IPM	82.22	278 ePd	06 29.40	1.5		
	0.6s	47.30nm		5.2mb		
TNP	82.67	45 iP	06 30.10	0.2		
	1.1s	15.91nm		4.5mb		
SNG	83.57	280 eP	06 36.10	1.5		
BJI	85.59	316 eP	06 44.00	0.2		
GYA	86.05	300 P	06 46.60	0.1		
TIY	86.91	312 iPd	06 50.20	-0.1		
XAN	87.67	308 Pd	06 54.00	0.1		
PNT	87.72	34 eP	06 54.00	0.3		
	0.8s	8.00nm		4.5mb		
ALQ	88.57	52 ePc	06 58.00	-0.2		
	1.0s	5.00nm		4.3mb		
KMI	88.70	297 Pc	07 00.00	1.0		
CHG	89.48	290 iPd	07 03.90	1.5		
	0.9s	16.81nm		5.0mb		
LZH	92.31	308 eP	07 14.50	-0.9		
	0.8s	12.00nm		5.0mb		
GTA	96.55	310 eP	07 34.00	-0.4		
KAF	135.42	343 ePKP	13 18.20	-2.1X		
	0.5s	4.30nm				
NUR	137.20	343 ePKP	13 24.00	0.3		
	0.3s	3.70nm				
NB2	139.43	352 PKP	13 17.50	-10.3X		
	0.7s	1.90nm				
HFS	139.95	350 ePKP	13 19.40	-9.3X		
	0.4s	2.30nm				
EKA	145.67	4 PKP	13 39.00	0.4		
	1.4s	27.20nm				
GLH	147.05	298 ePKP	13 45.00	3.4X		
JVI	147.46	297 iPKPd	13 45.70	3.4X		
KSP	147.93	342 iPKP	13 45.60	3.2X		
		i	13 50.60			
MLR	148.14	326 ePKP	13 45.00	1.9		
RMN	148.32	294 iPKPd	13 47.60	3.8X		
CLL	148.38	345 iPKPd	13 46.50	3.4X		
	0.8s	21.00nm				
WTS	148.81	353 ePKP	13 47.50	3.8X		
	0.7s	14.00nm				
PRU	149.20	343 PKP	13 49.30	4.9X		
		e	13 56.50			
SRO	149.86	336 ePKP	13 50.20	4.8X		
ZST	149.98	338 e(PKP)	13 51.00	5.4X		
ENN	150.12	354 ePKP	13 50.50	4.8X		
	1.0s	12.00nm				
		e	13 59.00			
KHC	150.24	343 PKP	13 51.60	5.6X		
GRF	150.30	346 ePKP	13 51.60	5.5X		
		e	14 07.00			
ABH	150.79	351 ePKP	13 52.60	5.8X		
DOU	150.90	355 PKP	13 52.90	6.0X		
CDF	152.26	351 ePKP	13 55.80	6.8X		
	0.5s	2.90nm				
FLN	152.37	2 ePKP	13 55.50	6.5X		
	0.7s	6.60nm				
LDF	152.54	1 ePKP	13 55.80	6.5X		
GRR	152.73	3 ePKP	13 56.60	7.0X		
HAU	152.79	352 ePKP	13 56.60	6.9X		
BSF	152.90	351 ePKP	13 56.90	6.9X		
LPF	153.07	3 ePKP	13 57.40	7.4X		
	0.7s	6.60nm				
LOR	153.77	355 ePKP	13 59.00	8.0X		
	0.7s	3.30nm				
S.D. = 0.8	on	69 of	94 obs.			

FEB 10, 1991 20h 06m 12.58± 0.66s
48.102 N ±11.9km 154.907 E ± 9.3km
DEPTH = 33.0km (normal)
5.1mb (38 obs.) 4.4Msz (7 obs.)
KURIL ISLANDS (22)

MDJ	17.79	268 eP	10 19.60	0		
CN2	20.86	269 Pd	10 51.40	-2.5		
Z	14s	2.60um		4.8MszX		
N	13s	0.40um				
E	13s	0.30um				
		epP	11 05.00	60kmX		
		eS	14 43.00			
SNY	22.93	266 iPc	11 14.70	0.1		
	1.0s	20.00nm		4.6mb		
Z	17s	1.10um		4.4MszX		
N	17s	1.20um				
DL2	25.66	261 P	11 41.00	0.2		
	1.2s	100.00nm		5.3mb		
Z	16s	0.30um		3.9MszX		
BJI	28.72	268 eP	12 09.00	0.3		
Z	18s	0.76um		4.3Msz		
E	16s	0.60um				
HHC	31.43	273 P	12 32.20	-0.7		
TIY	32.42	267 Pd	12 41.80	0.3		
Z	22s	0.80um		4.4Msz		
N	15s	1.10um				
BTO	32.58	274 eP	12 41.60	-1.3		
LZH	39.07	271 eP	13 37.50	-0.7		
	1.0s	48.00nm		5.2mb		
Z	18s	0.49um		4.4Msz		
N	15s	0.44um				
INK	39.86	33 eP	13 43.70	-0.4		
GTA	39.97	278 Pd	13 45.80	0.2		
	1.0s	10.00nm		4.5mb		
Z	16s	1.20um		4.8MszX		
E	15s	1.10um				
CD2	42.21	265 P	14 04.40	0.5		
MBC	42.91	21 eP	14 09.50	0.5		
GYA	43.19	258 P	14 12.60	0.5		
WMQ	45.58	291 iPd	14 31.00	0.0		
Z	16s	0.80um		4.8MszX		
		sP	14 44.50			
KMI	46.68	260 Pc	14 40.00	-0.1		
	2.5s	66.00nm		5.2mb		
YKA	49.11	38 eP	14 56.90	-1.4		
	1.1s	3.10nm		4.2mb		
LSA	51.41	273 Pc	15 16.80	-0.1		
PNT	53.44	54 eP	15 36.00	4.8X		
CHG	53.61	257 iPc	15 33.60	0.8		
	1.0s	13.75nm		4.9mb		
GUN	56.09	275 P	15 51.20	-0.1		
	0.5s	26.00nm		5.5mb		

KKN 56.57 276 P 15 54.60 0.0
0.6s 30.00nm 5.5mb
PKI 56.63 275 P 15 55.60 0.5
0.6s 18.00nm 5.3mb
DMN 56.81 276 P 15 56.40 0.1
0.5s 20.00nm 5.4mb
GKN 56.86 276 P 15 56.40 -0.2
SOD 58.43 339 eP 16 05.00 -1.8
FFC 58.92 41 eP 16 09.00 -1.4
0.7s 8.00nm 5.0mb
NDI 61.32 282 eP 16 26.70 -0.5
KAF 62.72 336 eP 16 34.30 -1.8
0.5s 2.50nm 4.6mb
FRB 63.37 20 eP 16 38.00 -2.3
NUR 64.50 335 iP 16 46.20 -1.5
0.5s 4.70nm 4.8mb
OUE 66.92 290 eP 17 03.30 -0.7
NB2 67.33 342 P 17 04.90 -1.0
0.5s 3.60nm 4.7mb
HFS 67.61 340 eP 17 06.40 -1.2
0.4s 10.00nm 5.3mb
HYB 68.18 272 eP 17 11.00 -0.8
WRA 70.20 201 P 17 24.00 0.0
0.8s 1.20nm 4.0mb X
GBA 71.65 270 P 17 33.20 0.3
ASPA 73.89 200 eP 17 57.60 11.8X
1.1s 6.90nm
KRA 74.81 332 iPd 17 50.90 0.0
0.5s 32.00nm 5.6mb
KSP 75.22 334 iPd 17 53.40 0.1
1.0s 31.00nm 5.3mb
EKA 75.30 347 Pd 17 53.90 0.2
0.6s 8.80nm 4.9mb
CLL 75.72 336 iPc 17 55.60 -0.5
1.2s 49.00nm 5.4mb
WIT 75.89 341 eP 17 58.50 1.5
PRU 76.49 335 P 18 01.50 1.0
WTS 76.62 340 eP 18 01.00 -0.1
0.9s 17.00nm 5.1mb
MLR 76.65 326 ePd 18 01.00 -0.6
MOX 76.70 337 eP 18 02.00 0.4
1.0s 37.00nm 5.4mb
HOF 76.93 337 iPd 18 03.20 0.3
1.0s 18.00nm 5.1mb
CMP 77.17 326 ePc 18 02.00 -2.4
SRO 77.29 332 eP 18 05.50 0.6
ZST 77.33 333 iP 18 06.50 1.4
KHC 77.54 335 iP 18 06.90 0.6
1.0s 2.50nm 4.2mb
Z 18s 0.40um 4.8Msz
GRF 77.67 337 iPc 18 07.70 0.7
1.2s 40.00nm 5.3mb
Z 20s 0.20um 4.4Msz
WET 77.72 336 iPd 18 08.60 1.3
1.0s 50.00nm 5.5mb
ENN 77.97 340 ePc 18 08.50 -0.1
1.0s 34.00nm 5.3mb
MEM 78.10 340 P 18 09.70 0.4
ABH 78.42 339 eP 18 11.28 0.1
DOU 78.89 341 Pc 18 14.50 0.8
id 18 21.60
BHG 79.01 335 eP 18 15.60 1.2
KBA 79.46 334 iPc 18 18.30 1.2
1.0s 44.60nm 5.4mb
id 18 19.10
PTJ 79.74 332 iPd 18 18.90 0.5
CDF 79.85 339 eP 18 19.40 0.4
1.1s 19.55nm 5.0mb
SQTA 79.94 336 iPc 18 20.40 0.9
1.1s 42.60nm 5.4mb
id 18 20.60
i 18 35.00
OGA 80.31 336 iPd 18 23.00 1.4
1.0s 21.00nm 5.1mb
HAU 80.46 339 eP 18 22.10 -0.1
Z 21s 0.17um 4.4Msz
BSF 80.51 339 eP 18 22.50 -0.1
SKO 81.34 327 eP 18 26.00 -0.9
VAY 81.48 326 eP 18 28.00 0.4
LOR 81.72 341 eP 18 29.00 0.2
0.6s 4.05nm 4.6mb
Z 20s 0.30um 4.7Msz
LBF 81.97 340 eP 18 30.00 -0.1
0.5s 2.55nm 4.5mb
SSF 82.00 341 eP 18 30.50 0.3
AVF 82.29 341 eP 18 32.10 0.4
0.7s 6.05nm 4.8mb

SMF 82.32 340 eP 18 32.30 0.4
OHR 82.33 327 eP 18 31.20 -0.9
BGF 82.62 341 eP 18 34.20 0.7
0.5s 3.65nm 4.7mb
LPL 82.69 338 eP 18 35.10 1.0
0.9s 9.00nm 4.8mb
LPG 82.70 338 eP 18 35.30 1.0
0.9s 11.45nm 5.0mb
MAF 83.00 341 eP 18 36.30 0.8
0.6s 4.05nm 4.7mb
TCF 83.01 341 eP 18 36.00 0.4
LSF 83.20 342 eP 18 36.60 0.1
MFF 83.20 343 eP 18 37.00 0.5
LFF 84.61 342 eP 18 44.50 0.9
S.D. = 0.9 on 80 of 82 obs.

? FEB 10, 1991 20h 29m 22.45± 1.38s
49.114 N ±25.0km 154.090 E ±24.5km
DEPTH = 33.0km (normol)
4.4mb (7 obs.)
KURIL ISLANDS (221)

YKA 48.65 38 eP 38 02.00 -2.6
1.0s 1.30nm 3.9mb
GUN 55.47 274 P 38 55.40 -1.2
KKN 55.94 274 P 38 59.40 -0.5
PKI 56.00 274 P 39 00.10 -0.4
DMN 56.18 274 P 39 01.60 0.0
GKN 56.22 275 P 39 00.20 -1.6
0.5s 9.00nm 5.1mb
NB2 66.20 341 P 40 09.50 0.9
0.8s 2.30nm 4.3mb
HFS 66.47 340 eP 40 11.20 0.9
0.4s 0.90nm 4.2mb
WRA 70.96 200 P 40 40.00 1.5
1.5s 0.80nm 3.6mb
KSP 74.08 334 eP 40 58.00 1.5
CLL 74.58 336 iPd 41 00.90 1.5
1.1s 10.00nm 4.7mb
BRG 74.72 335 iP 41 02.40 2.2X
PRU 75.34 334 P 41 06.30 2.5X
KHC 76.39 335 P 41 12.00 2.2X
KBA 78.31 334 iPd 41 23.80 3.1X
1.0s 8.00nm 4.7mb
i 41 33.30
S.D. = 1.6 on 11 of 15 obs.

• FEB 10, 1991 21h 16m 26.49± 0.66s
51.632 N ±15.5km 173.673 W ± 7.8km
DEPTH = 33.0km (normol)
4.8mb (12 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS. (7)

ADK 1.89 279 eP 16 57.30 0.3
IMA 17.65 27 eP 20 33.00 1.8
INK 25.44 34 eP 21 51.00 -1.3
PNT 33.83 72 ePd 23 08.00 0.6
0.5s 2.00nm 4.3mb
SES 38.35 66 eP 23 46.00 0.3
FFC 41.36 56 iPc 24 10.70 0.2
0.5s 8.00nm 4.7mb
SSE 51.20 273 P 25 29.70 1.2
1.0s 12.00nm 4.8mb
GTA 58.41 295 P 26 19.80 -1.3
0.4s 10.00nm 5.3mb
CD2 62.03 285 P 26 45.80 -0.1
GYA 63.46 280 P 26 55.60 0.1
KAF 65.50 350 eP 27 06.40 -1.6
0.4s 1.50nm 4.4mb
NUR 67.25 350 eP 27 18.00 -1.1
0.4s 2.10nm 4.6mb
HFS 68.43 356 eP 27 26.00 -0.6
0.5s 1.30nm 4.3mb
LSA 70.33 293 iPd 27 39.80 0.5
GUN 74.69 296 P 28 05.20 0.3
0.6s 29.00nm 5.5mb
KKN 75.12 296 P 28 07.40 0.2
0.6s 11.00nm 5.0mb
PKI 75.21 296 P 28 08.00 0.1
0.8s 12.00nm 4.9mb
GKN 75.31 296 P 28 08.20 0.0
0.6s 24.00nm 5.4mb
DMN 75.35 296 P 28 09.00 0.4
OUE 82.73 310 eP 28 49.30 0.9
WRA 84.49 228 P 28 56.00 -1.1
0.4s 1.40nm 4.5mb
HYB 87.08 294 eP 29 09.70 -0.4

POO 88.80 299 iPc 29 19.00 0.6
S.D. = 0.9 on 23 of 23 obs.

% FEB 10, 1991 21h 29m 09.84± 3.48s
60.154 N ±20.3km 5.124 E ±25.8km
DEPTH = 10.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 1.7 (BER).

ASK 0.33 6 ePg 29 17.08 0.4
eSg 29 21.76
ODD1 0.79 107 eP 29 25.87 0.6
eS 29 36.48
SUE 0.92 349 eP 29 27.22 -0.2
eS 29 39.97
HYA 1.14 27 eP 29 31.36 0.2
eS 29 45.60
NRA0 3.23 77 Pn 30 00.70 -0.9
Pg 30 07.00
Lg 30 53.10
S.D. = 0.8 on 5 of 5 obs.

% FEB 10, 1991 23h 23m 30.30± 0.68s
42.393 N ± 5.6km 19.374 E ± 5.1km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.9 (TTG).

TTG 0.09 294 iPgd 23 34.44 1.6
iSg 23 37.52
BDV 0.42 255 iPgc 23 38.92 0.0
iSg 23 46.27
ULC 0.44 192 iPgd 23 39.19 -0.1
iSg 23 45.94
PVY 0.49 65 iPgc 23 39.97 -0.3
iSg 23 48.07
NKY 0.50 327 iPgc 23 40.30 -0.2
iSg 23 48.05
IVA 0.62 39 iPgd 23 43.05 0.3
iSg 23 52.02
HCY 0.65 275 iPgd 23 42.82 -0.5
iSg 23 52.25
BRY 0.80 310 iPgd 23 44.97 -0.9
iSg 23 57.49
PLE 0.94 1 iPgd 23 48.30 0.1
iSg 24 02.12
S.D. = 0.8 on 9 of 9 obs.

& FEB 10, 1991 23h 29m 25.60s
59.944 N 151.495 W
DEPTH = 50.8km
KENAI PENINSULA, ALASKA (14)
<AEIC>.

NNL 0.14 45 iP 29 34.47 2.3
HOM 0.30 195 eP 29 34.51 -0.3
eS 29 42.29
BRLK 0.36 120 iP 29 35.08 -0.4
eS 29 42.66
CNPM 0.44 163 iP 29 35.76 -0.6
eS 29 43.55
XLV 0.50 193 eP 29 35.82 -1.2
RDT 0.78 325 iP 29 39.86 -0.7
RED 0.80 307 iP 29 40.22 -0.6
eS 29 51.46
NKA 0.81 9 eP 29 42.44 1.5
REF 0.81 313 eP 29 40.44 -0.8
eS 29 52.10
RSO 0.82 310 eP 29 40.57 -0.7
eS 29 52.30
RS2 0.82 310 eP 29 40.59 -0.7
eS 29 52.48
SLKM 0.85 48 eP 29 40.88 -0.7
RDN 0.85 313 iP 29 40.85 -0.8
iS 29 52.77
NCT 0.95 312 eP 29 42.21 -0.7
eS 29 55.25
SEW 1.04 80 eP 29 42.88 -1.2
SPU 1.27 348 eP 29 46.92 -0.5
eS 30 03.79
CKL 1.32 342 eP 29 47.68 -0.5
iS 30 05.23
PDB 1.37 265 iP 29 48.05 -0.6
eS 30 05.84
BGL 1.40 342 eP 29 48.93 -0.2
SYI 1.42 199 eP 29 47.97 -1.3
NCG 1.50 348 eP 29 50.51 -0.1

10d 23h

PMS 1.62 35 eP 29 52.71 0.5
KNIM 1.92 76 eP 29 55.00 -1.5
SKT 2.04 360 eP 29 58.42 0.2
KNK 2.10 44 eP 29 57.99 -1.0
KLU 3.15 58 iP 30 12.40 -1.6
26 obs. associated

FEB 10, 1991 23h 36m 27.40± 0.38s
39.946 N ± 4.5km 19.793 E ± 3.3km
DEPTH = 5.0km (geophysicist)
3.5mb (2 obs.)
GREECE-ALBANIA BORDER REGION (392)
MD 3.6 (ATH). ML 3.4 (TIR).

VLO 0.57 337 iPgd 36 37.70 -1.1
iSg 36 48.10
LSK 0.65 72 ePg 36 38.80 -1.7
iSg 36 49.90
BERA 0.77 9 iPgc 36 41.20 -1.5
iSg 36 54.80
KBN 1.03 49 ePg 36 45.90 -1.5
iSg 37 01.50
OHR 1.39 33 iPn 36 53.90 0.3
iSg 37 15.20
LQ 37 19.80
LR 37 19.90
LCI 1.46 286 P 36 53.50 -0.9
eSn 37 14.00
KZN 1.56 76 eP 36 58.00 2.1
eS 37 22.00
PHP 1.81 16 iPnc 36 58.40 -1.0
iSn 37 24.40
EVR 1.87 123 eP 37 01.80 1.4
VLS 1.87 160 eP 36 59.00 -1.4
LIT 2.08 85 ePd 37 04.76 1.4
eS 37 32.36
BRT 2.18 296 P 37 08.00 3.1X
eSn 37 37.50
GRG 2.23 62 iPd 37 06.56 0.9
eS 37 36.84
SKO 2.38 31 iPn 37 07.80 0.1
0.6s 127.00nm
i 37 16.50
iSn 37 38.50
i 37 39.50
iSg 37 45.00
LQ 37 46.80
LR 37 47.00
BAI 2.52 299 P 37 11.00 1.4
THE 2.52 73 ePc 37 09.96 0.3
eS 37 41.96
VAY 2.52 56 iPn 37 10.20 0.5
iSg 37 42.30
LQ 37 54.00
LR 37 59.30
KNT 2.66 62 ePd 37 11.80 0.1
TDS 2.68 265 P 37 13.60 1.7
PLG 2.83 80 eP 37 14.50 0.3
PAIG 2.99 89 ePc 37 15.84 -0.5
eS 37 51.64
SRS 3.12 67 ePd 37 18.16 -0.1
eS 37 55.28
ITM 3.23 148 eP 37 19.00 -0.8
SOI 3.46 238 P 37 22.30 -0.7
SGO 3.49 282 P 37 23.50 0.1
ATN 3.81 243 P 37 26.80 -1.3
VLI 4.06 142 eP 37 31.20 -0.3
MEU 4.75 235 P 37 37.00 -4.5X
eSn 38 30.30
SDI 4.86 293 P 37 43.50 0.5
FVI 8.38 325 P 38 33.60 1.3
CTI 8.53 318 P 38 34.90 0.4
HFS 20.57 351 eP 41 04.50 -4.9X
0.5s 1.10nm 3.5mb
NB2 21.78 349 P 41 17.70 -4.1X
0.7s 1.40nm 3.5mb
S.D. = 1.1 on 29 of 33 obs.

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* FEB 10, 1991 23h 39m 02.61± 3.57s
51.550 N ±24.0km 16.060 E ±22.0km
DEPTH = 9.3 ± 4.2 km
POLAND (548)
ML 3.7 (VKA).

KSP 0.72 168 iP 39 16.40 -0.5
iS 39 25.40
PRU 1.84 212 iPn 39 35.30 0.8
Pg 39 37.30
e 39 39.50
Sn 39 53.70
Sg 40 01.00
CLL 1.93 264 iPn 39 35.50 -0.3
iPg 39 38.20
iSg 40 05.00
KRA 2.88 120 eP 39 57.90 8.5X
eS 40 36.00
KHC 2.90 214 iPn 39 49.40 -0.3
Pg 39 56.00
Sn 40 25.00
Sg 40 38.00
HOF 2.92 247 iPnc 39 49.90 -0.2
MOX 2.94 254 ePn 39 50.50 0.1
iPg 39 59.00
iSg 40 38.00
WET 3.15 221 iPnc 39 53.50 0.2
VKA 3.29 177 e(Pn) 39 56.00 0.6
iPg 40 04.70
iSg 40 47.40
ZST 3.42 168 e(Pn) 40 54.00 56.8X
i 41 06.20
SRO 4.02 158 eP 40 43.30 37.8X
e 41 08.80
e 41 26.30
KBA 4.81 203 iPnc 40 16.80 -0.3
0.6s 38.80nm
i 40 25.40
i 41 14.80
i 41 34.30
i 41 42.70
TNS 5.00 258 ePnc 40 19.80 0.3
eSn 41 43.60
SOTA 5.37 218 iPnc 40 24.50 -0.4
S.D. = 0.5 on 11 of 14 obs.

& FEB 11, 1991 00h 00m 06.10s
35.980 N 89.950 W
DEPTH = 14.0km
TENNESSEE (506)
<SLM-P>. MD 3.0 (SLM). Felt (II) at Blytheville and Gosnell, Arkonsas.

ECD 0.08 6 iPc 00 08.96 -0.2
WGAR 0.23 237 iPd 00 11.57 0.2
eS 00 15.20
HATI 0.30 48 iP 00 12.52 0.0
OHTN 0.39 64 iPd 00 13.58 -0.6
CBD 0.41 36 iPc 00 14.45 -0.2
MFTN 0.49 68 iPd 00 15.35 -0.5
LDMO 0.53 36 iPc 00 16.50 -0.2
PGA 0.55 279 iPc 00 16.63 -0.3
eS 00 23.77
OGTN 0.58 40 iPc 00 17.32 -0.1
NRMS 0.58 30 eP 00 17.58 0.0
JHP 0.59 231 eP 00 17.41 -0.2
eS 00 25.36
ACTN 0.63 55 iP 00 18.59 0.2
NMMO 0.69 28 eP 00 19.37 0.1
DWM 0.90 24 eP 00 22.84 -0.2
DON 1.19 1 ePc 00 27.74 -0.2
OLY 1.33 249 eP 00 29.20 -0.9
ELC 1.43 24 eP 00 31.40 -0.1
PWLA 1.83 122 eP 00 36.20 -1.2
FVM 2.04 349 eP 00 41.00 0.7
RSCP 3.58 95 eP 01 05.00 2.6
GBTN 4.67 92 eP 01 19.00 1.1
TKL 5.03 92 e(P) 01 25.00 2.1
22 obs. associated

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* FEB 11, 1991 00h 01m 29.10± 1.39s
30.321 S ± 7.0km 72.717 W ±15.7km
DEPTH = 33.0km (normal)
3.9mb (1 obs.)
OFF COAST OF CENTRAL CHILE (134)

RTRS 2.82 88 iPc 02 12.80 0.0
IHA 2.85 161 eP 02 14.30 1.1
LCCH 3.29 163 eP 02 20.50 0.9
RTCB 3.56 110 ePc 02 23.80 0.3
SAN 3.58 151 eP 02 21.00 -2.7
i 03 12.00
RTLL 3.79 106 iPd 02 26.10 -0.5
RTCV 3.90 114 e(P) 02 29.60 1.4
CFA 4.05 110 ePd 02 30.10 -0.3
MDZ 4.17 129 eP 02 38.80 6.7X
i 03 26.80
i(S) 03 46.00
LPB 14.36 18 eP 04 53.00 0.5
ZOBO 14.61 18 eP 04 55.00 -0.8
0.9s 4.33nm 3.9mb
Z 16s 0.22um 4.8MszX
LR 09 25.00
SIV 17.81 39 P 05 37.20 1.0
PPD 20.89 72 eP 06 09.50 -1.5
VAO 24.10 79 eP 06 43.10 0.2
S.D. = 1.3 on 13 of 14 obs.

? FEB 11, 1991 00h 29m 50.71± 2.80s
51.742 N ±28.2km 173.967 E ±35.0km
DEPTH = 33.0km (normal)
4.1mb (3 obs.)
NEAR ISLANDS, ALEUTIAN ISLANDS (5)

SMY 0.99 5 eP 30 08.70 0.4
IMA 21.67 36 e(P) 34 43.00 2.9X
FBA 23.55 41 eP 35 04.00 5.5X
KLU 23.75 50 eP 35 04.00 3.5X
YKA 38.22 45 eP 37 07.60 -1.1
0.7s 0.90nm 3.7mb
NEW 42.93 66 eP 37 47.00 -0.7
TNP 48.82 78 eP 38 35.00 0.2
0.7s 1.33nm 4.1mb
BW06 50.43 68 eP 38 48.50 1.4
GOL 54.82 69 eP 39 23.50 3.6X
NB2 66.72 351 P 40 40.00 -0.1
0.7s 1.90nm 4.3mb
S.D. = 1.1 on 6 of 10 obs.

? FEB 11, 1991 00h 51m 09.30± 4.63s
31.847 S ±24.3km 177.231 W ±33.7km
DEPTH = 137.7 ± 34.7 km
4.7mb (3 obs.)
KERMADEC ISLANDS REGION (177)

HBZ 6.82 211 eP 52 49.80 1.8
PUZ 7.23 210 eP 52 52.80 -0.9
eS 54 25.50
NOZ 7.79 208 eP 53 02.40 1.3
PGZ 10.20 209 eP 53 33.70 0.5
MTW 10.98 210 eP 53 39.80 -3.7X
MRW 11.39 212 eP 53 48.00 -0.8
S 56 00.00
KHZ 12.86 212 eP 54 05.30 -2.7
DZM 17.49 300 iPc 55 05.60 -0.6
BRS 26.41 272 iPd 56 37.00 2.2
QIS 40.09 276 eP 58 32.00 -0.9
ASPA 43.71 268 iPc 59 02.60 0.2
0.9s 13.10nm 4.6mb
WB2 44.81 273 eP 59 09.50 -1.7
WRA 44.82 273 P 59 21.00 9.7X
0.3s 3.30nm 4.5mb
FORR 46.28 256 eP 59 24.00 1.4
0.4s 24.00nm 5.2mb
KAF 146.13 340 iPKP 10 31.30 -1.4
0.7s 12.60nm
NUR 147.89 340 iPKP 10 37.10 1.5
0.7s 10.50nm
BCAO 148.97 212 iPKPd 10 47.10 8.3X
0.9s 13.00nm
i 11 13.00
NB2 150.27 352 PKP 10 43.20 3.9X
0.9s 6.10nm
HFS 150.79 349 ePKP 10 43.70 3.7X
0.4s 1.10nm
S.D. = 1.7 on 14 of 19 obs.

FEB 11, 1991 02h 18m 49.01± 0.57s
41.116 N ± 4.9km 22.337 E ± 4 6km
DEPTH = 5.0km (geophysicist)
YUGOSLAVIA (383)
MD 2.0 (THE). ML 2.0 (SKO).

GRG 0.17 163 ePd 18 53.22 0.7
eS 18 54.82
VAY 0.27 41 iPg 18 55.00 0.5
iSg 18 58.60
KNT 0.43 84 ePc 18 57.34 -0.2
eS 19 02.54
THE 0.68 135 ePc 19 01.66 -0.9
eS 19 10.34
FNA 0.80 246 eP 19 05.60 0.5

```
SRS      0.95   90 iPc    19 06.54   -1.0
                 iS     19 18.58
LIT      1.02  173 iPd    19 09.02    0.2
                 eS     19 22.78
MMB      1.15   65 ePgd   19 11.00    0.0
OHR      1.16  270 ePn    19 10.00   -1.2
PAIG     1.57  139 ePc    19 18.22    0.7
                 eS     19 38.46
VTS      1.61   24 eP     19 19.00    0.7
RZN      1.88   72 eP     19 24.00    1.8X
     S.D. = 0.8  on  11 of  12 obs.
-------------------------------------------
*  FEB  11, 1991  03h 09m 21.81± 1.59s
   41.262 N ±12.1km   22.330 E ± 9.0km
   DEPTH =   5.0km  (geophysicist)
 YUGOSLAVIA                          (383)
     MD 1.6 (THE).

VAY      0.19   72 ePg    09 24.20   -1.5
GRG      0.31  170 ePd    09 26.96   -1.1
                 eS     09 29.36
KNT      0.44  103 ePc    09 32.28    1.6
                 eS     09 37.40
THE      0.79  142 ePd    09 37.36   -0.3
                 eS     09 46.20
FNA      0.87  237 ePc    09 39.44    0.5
SRS      0.96   98 ePd    09 41.24    0.6
LIT      1.17  174 iPc    09 44.28    0.2
     S.D. = 1.3  on   7 of   7 obs.
-------------------------------------------
?  FEB  11, 1991  03h 34m 31.10± 7.01s
   46.013 N ±37.5km    2.834 E ±30.0km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                              (538)
     ML 1.5 (LDG).

MAF      0.28  318 Pg     34 37.80    0.8
                 Sg     34 39.40
TCF      0.51  303 Pg     34 40.70   -0.8
                 Sg     34 44.00
BGF      0.54    1 Pg     34 41.90   -0.2
                 Sg     34 46.40
LSF      0.94  285 Pg     34 49.20    0.2
                 Sg     34 59.00
     S.D. = 1.2  on   4 of   4 obs.
-------------------------------------------
?  FEB  11, 1991  03h 35m 25.51± 1.56s
   61.455 S ±20.1km  159.936 E ±67.3km
   DEPTH =  10.0km  (geophysicist)
   4.7mb (  2 obs.)
 BALLENY ISLANDS REGION              (702)

VNDA    16.15  179 P      39 11.80   -1.9
SBA     16.62  175 iPc    39 21.70    2.0
SPA     28.71  180 iPd    41 24.60    0.0
      1.0s     15.00nm          4.7mb
                 i      42 09.10
ASPA    41.77  323 iPc    43 16.80    0.4
      1.1s     17.40nm          4.7mb
WB2     45.17  325 eP     43 43.80   -0.2
ZOBO    93.68  134 P      48 47.00    3.0X
     Z  24s      0.15um          4.4MszX
                 LR     18 10.00
MBC    146.41   25 ePKP   55 04.50   -0.4
      0.5s      3.00nm
     S.D. = 1.6  on   6 of   7 obs.
-------------------------------------------
&  FEB  11, 1991  03h 53m 15.62s
   61.955 N          152.258 W
   DEPTH = 148.5km
 SOUTHERN ALASKA                     (  2)
     <AEIC>.

SKT      0.35   85 iP     53 35.18    0.5
                 eS     53 50.00
NCG      0.56  175 iP     53 36.40   -1.1
BGL      0.70  185 iP     53 37.46   -0.9
CKL      0.76  183 iP     53 37.96   -0.8
                 eS     53 55.43
SPU      0.78  173 iP     53 37.71   -1.1
SUA      0.87  124 eP     53 39.21   -0.4
                 eS     53 56.97
CUT      1.04   63 iP     53 40.25   -0.6
PWA      1.17  104 eP     53 41.65   -0.4
                 eS     54 00.87
NKA      1.31  158 eP     53 44.47    1.1
RDT      1.39  183 iP     53 43.56   -0.7
NCT      1.44  193 eP     53 44.20   -0.6
RDN      1.47  190 iP     53 44.72   -0.5
PMS      1.47  118 eP     53 44.35   -0.8
                 eS     54 05.73
REF      1.49  188 eP     53 45.00   -0.5
RS2      1.52  189 eP     53 45.49   -0.3
RSO      1.52  189 eP     53 45.42   -0.4
PLRM     1.53  102 eP     53 44.29   -1.4
                 eS     54 06.21
RED      1.56  189 eP     53 45.73   -0.4
GHO      1.59   95 eP     53 45.61   -0.9
                 eS     54 07.64
HUR      1.59   49 eP     53 45.71   -0.7
                 eS     54 08.19
SLKM     1.75  145 iP     53 47.66   -0.6
                 eS     54 10.19
TRF      1.76   30 eP     53 47.76   -0.6
KNK      1.89  105 eP     53 48.75   -1.1
                 eS     54 14.18
RND      2.14   46 eP     53 52.04   -0.8
BRLK     2.30  162 eP     53 55.45    0.8
PDB      2.37  204 eP     53 55.30   -0.2
CNPM     2.49  168 eP     53 56.55   -0.5
GLI      2.71  111 eP     53 58.07   -1.6
KNIM     2.72  124 eP     53 57.55   -2.3
KLU      3.05   96 eP     54 03.08   -1.1
WRH      3.15   35 eP     54 04.24   -1.2
TZL      3.23   85 eP     54 05.58   -0.8
     32 obs. associated
-------------------------------------------
?  FEB  11, 1991  04h 15m 21.73± 4.32s
   34.888 N ±49.7km   26.173 E ±11.4km
   DEPTH =  10.0km  (geophysicist)
 CRETE                               (370)
     MD 3.6 (ATH).

NPS      0.59  309 iPgc   15 33.00   -0.7
KAP      1.05   51 ePb    15 41.50   -0.1
VAM      1.70  288 ePb    15 51.00   -0.5
VLI      3.20  306 ePn    16 14.40    1.3
     S.D. = 1.6  on   4 of   4 obs.
-------------------------------------------
*  FEB  11, 1991  05h 20m 21.42± 0.89s
   21.009 S ± 9.7km   68.801 W ±24.6km
   DEPTH = 183.1 ± 30.8 km
 CHILE-BOLIVIA BORDER REGION         (124)

ANT      3.07  209 iP     21 11.50    0.0
                 eS     21 44.00
CNCB     4.25   11 iPc    21 27.70    0.7
LPB      4.50    9 iPc    21 29.10   -1.0
      0.9s    134.45nm
                 (S)    22 21.00
ZOBO     4.76    8 Pc     21 33.80    0.2
      0.4s     58.98nm
                 S      22 29.00
ARE      5.19  330 eP     21 39.00    0.0
                 iS     22 36.50
SIV      8.87   57 iPc    22 21.50   -5.6X
VAO     20.34  100 eP     24 45.20    0.0
     S.D. = 0.9  on   6 of   7 obs.
-------------------------------------------
   FEB  11, 1991  05h 30m 28.96± 0.65s
   41.133 N ± 5.7km   22.372 E ± 4.7km
   DEPTH =   5.0km  (geophysicist)
 YUGOSLAVIA                          (383)
     MD 2.1 (THE). ML 1.9 (SKO).

GRG      0.18  173 ePc    30 33.64    1.0
                 eS     30 35.60
VAY      0.24   38 iPg    30 34.40    0.6
                 iSg    30 38.70
KNT      0.40   86 ePd    30 36.96    0.0
                 iS     30 42.68
THE      0.67  138 ePc    30 41.88   -0.5
                 eS     30 52.76
FNA      0.83  245 eP     30 44.60   -1.0
SRS      0.92   91 ePd    30 46.33   -0.7
                 eS     30 59.16
LIT      1.04  175 ePc    30 49.20    0.2
                 eS     31 03.84
OHR      1.19  269 ePg    30 52.00    0.4
                 eSg    31 08.00
PAIG     1.56  140 ePd    30 57.48    0.1
     S.D. = 0.7  on   9 of   9 obs.
-------------------------------------------
?  FEB  11, 1991  06h 17m 13.57± 0.91s
   41.090 N ± 9.7km   22.386 E ± 8.8km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                          (383)

GRG      0.13  175 ePd    17 16.76    0.0
                 eS     17 19.28
VAY      0.27   31 ePg    17 19.20    0.0
KNT      0.39   79 iPc    17 21.69    0.1
                 iS     17 27.41
FNA      0.82  249 ePc    17 29.60    0.0
SRS      0.91   88 ePd    17 27.72   -3.3X
     S.D. = 0.1  on   4 of   5 obs.
-------------------------------------------
   FEB  11, 1991  06h 55m 00.99± 0.60s
   41.113 N ± 5.2km   22.345 E ± 4.3km
   DEPTH =   5.0km  (geophysicist)
 YUGOSLAVIA                          (383)
     ML 1.9 (SKO).

GRG      0.16  165 ePc    55 04.58    0.2
                 eS     55 07.06
VAY      0.27   39 iPg    55 06.80    0.4
                 iSg    55 11.00
KNT      0.42   83 ePd    55 09.38   -0.1
                 eS     55 15.18
THE      0.67  135 ePd    55 14.26   -0.2
                 eS     55 22.30
FNA      0.80  246 ePc    55 16.66   -0.5
SRS      0.94   89 ePc    55 18.66   -0.8
                 eS     55 31.30
LIT      1.02  174 ePd    55 20.66    0.0
                 eS     55 35.90
OHR      1.17  270 ePg    55 23.50    0.2
                 eSg    55 40.00
PAIG     1.56  139 ePc    55 30.14    0.7
                 eS     55 52.02
     S.D. = 0.5  on   9 of   9 obs.
-------------------------------------------
%  FEB  11, 1991  07h 07m 01.55± 0.81s
   40.282 N ± 9.2km   27.925 E ± 5.5km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
     MD 2.9 (ISK).

BNT      0.07  357 iPg    07 03.90   -0.1
EDC      0.08  324 iPg    07 04.00    0.0
KCT      0.33   96 ePg    07 08.40    0.0
                 iSg    07 13.80
ISK      1.16   47 iPg    07 23.50    0.2
EZN      1.31  250 iPn    07 25.80    0.0
HRT      1.43   67 iPn    07 27.50   -0.1
     S.D. = 0.2  on   6 of   6 obs.
-------------------------------------------
   FEB  11, 1991  07h 25m 50.39± 0.82s
   41.121 N ± 5.9km   22.344 E ± 6.0km
   DEPTH =   5.0km  (geophysicist)
 YUGOSLAVIA                          (383)
     ML 1.4 (SKO).

GRG      0.17  165 ePc    25 54.02    0.1
                 eS     25 56.58
VAY      0.26   40 iPg    25 56.20    0.5
                 iSg    26 00.20
KNT      0.42   84 ePc    25 58.82    0.0
                 eS     26 04.10
THE      0.68  136 ePd    26 04.42    0.5
FNA      0.81  246 eP     26 06.40   -0.2
                 eS     26 17.80
SRS      0.94   90 ePc    26 08.02   -0.8
                 eS     26 20.90
LIT      1.03  174 ePd    26 10.34    0.1
                 eS     26 26.17
PAIG     1.57  139 ePc    26 18.82   -0.1
                 eS     26 41.22
     S.D. = 0.5  on   8 of   8 obs.
-------------------------------------------
%  FEB  11, 1991  07h 40m 25.79± 1.04s
   46.291 N ±13.3km    2.720 E ± 9.1km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                              (538)
     ML 1.9 (LDG).

MAF      0.13  237 Pg     40 29.40    0.5
                 Sg     40 32.00
BGF      0.28   18 Pg     40 32.20    0.5
                 Sg     40 36.80
TCF      0.35  270 Pg     40 32.60   -0.5
```

11d 07h

Sg 40 37.50
AVF 0.66 41 Pg 40 38.70 -0.3
Sg 40 47.60
SMF 0.85 65 Pg 40 42.00 -0.2
Sg 40 52.50
S.D. = 0.7 on 5 of 5 obs.

FEB 11, 1991 08h 07m 46.09± 0.76s
35.872 N ± 7.4km 140.152 E ± 7.6km
DEPTH = 75.1 ± 6.3 km
4.2mb (4 obs.)
NEAR EAST COAST OF HONSHU, JAPAN(228)

KAKJ 0.33 3 iPd 07 57.90 -0.2
S 08 05.50
CHJJ 0.95 281 iPd 08 04.10 -0.5
S 08 16.40
NIIJ 1.65 326 iPd 08 13.10 -0.5
eS 08 33.10
MAT 1.71 294 eP 08 14.00 -0.4
eS 08 34.00
IIDJ 1.87 259 iP+ 08 17.80 1.2
S 08 40.10
MTMJ 2.03 291 P 08 19.30 0.4
eS 08 42.80
YAMJ 2.30 358 P 08 22.50 0.0
TSRJ 3.41 266 P 08 37.90 -0.1
OFUJ 3.42 20 iP+ 08 37.50 -0.6
S 09 16.00
WKYJ 4.09 248 P 08 47.40 -0.1
AOMJ 4.68 2 eP 08 56.40 0.6
TKSJ 5.36 251 P 09 05.10 -0.1
YONJ 5.50 265 eP 09 06.30 -0.9
KUMJ 8.41 249 eP 09 53.90 6.5X
KAGJ 9.03 241 eP 09 57.30 1.3
CN2 13.78 310 eP 11 01.00 1.7
SSE 16.52 259 eP 11 38.00 3.7X
BJI 19.34 290 eP 12 07.50 -0.6
FBA 50.63 32 P 16 40.00 1.0
WB2 55.78 187 eP 17 16.00 -1.5
MBC 57.92 16 eP 17 32.00 -0.2
ASPA 59.51 187 iPc 17 44.50 0.8
1.2s 5.00nm 4.5mb
GBA 60.11 265 P 17 47.00 -1.0
YKA 65.32 30 eP 18 20.70 -1.2
0.8s 0.70nm 3.6mb
NB2 74.86 337 P 19 18.80 -1.1
0.8s 2.70nm 4.2mb
LRM 75.69 44 eP 19 26.00 0.8
FRB 78.13 13 eP 19 38.00 0.0
ALO 86.12 49 eP 20 21.70 1.4
1.0s 2.50nm 4.2mb
S.D. = 0.9 on 26 of 28 obs.

FEB 11, 1991 08h 23m 46.72± 0.98s
38.606 N ± 4.7km 25.848 E ±10.6km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
MD 3.6 (ATH), 3.2 (ISK).

PRK 0.72 27 ePb 24 00.00 -0.9
IZM 1.13 100 iPg 24 08.00 0.1
eSg 24 24.20
SMG 1.19 139 ePb 24 08.80 0.0
EZN 1.27 17 iPn 24 10.40 0.1
APE 1.55 189 ePb 24 14.60 0.1
CIN 2.03 119 eP 24 21.00 -0.4
EDC 2.34 41 ePn 24 26.10 0.3
BNT 2.37 42 ePn 24 26.60 0.3
KCT 2.54 49 ePn 24 29.10 0.4
S.D. = 0.5 on 9 of 9 obs.

FEB 11, 1991 09h 01m 11.01± 0.16s
36.514 N ± 3.8km 70.141 E ± 2.7km
DEPTH = 216.6km (5 depth phases)
4.8mb (56 obs.)
HINDU KUSH REGION (718)
Felt (II) at Khorog, USSR.

KSH 5.47 56 Pd 02 33.50 1.0
S 03 36.00
QUE 6.85 204 iPd 02 51.00 0.7
0.9s 107.56nm 5.0mb
eS 04 05.60
NDI 9.82 141 iPd 03 27.50 -1.2
0.5s 232.39nm 5.7mb
GKN 14.90 121 P 04 31.40 -1.3
WMO 15.26 56 iPc 04 36.80 -0.1
0.8s 200.00nm 5.6mb
sP 05 34.00
iS 07 24.00
DMN 15.47 121 P 04 38.96 -0.8
0.3s 340.00nm 6.3mb X
KKN 15.48 120 P 04 38.74 -1.0
PKI 15.70 120 P 04 41.66 -1.0
0.3s 483.00nm 6.3mb X
GUN 15.83 118 P 04 43.18 -1.0
0.6s 985.00nm 6.5mb X
POO 18.21 169 iPd 05 11.40 1.0
1.0s 215.00nm 5.6mb
iS 08 34.50
LSA 18.85 105 iP 05 19.00 1.6
HYB 20.43 156 iPd 05 33.20 0.3
0.6s 263.30nm 5.9mb X
i 05 35.00 7kmX
eS 09 16.50
RYD 23.35 246 iPc 06 03.00 1.7
GTA 23.53 74 iPc 06 04.40 1.4
0.8s 10.00nm 4.5mb
pP 06 46.10 220km
sP 07 12.60
ScS 16 44.40
AFIF 26.26 249 iPd 06 32.00 3.8X
KOD 26.99 164 iPd 06 35.60 0.5
0.7s 54.79nm 5.4mb
LZH 27.09 81 eP 06 36.00 0.3
1.0s 18.00nm 4.7mb
PP 07 32.50
CD2 28.42 91 Pd 06 48.40 0.8
1.0s 40.00nm 5.1mb
SRAT 30.07 239 iPd 07 04.00 1.6
DHJN 30.10 239 iPd 07 04.00 1.3
KMTA 30.19 240 iPd 07 05.00 1.6
CHG 30.84 117 eP 07 09.00 0.1
BTO 31.26 70 eP 07 13.00 0.5
XAN 31.61 83 P 07 15.00 -0.5
BDT 31.92 119 eP 07 17.50 -0.7
HHC 32.41 69 eP 07 23.00 0.6
GYA 32.55 97 iPc 07 24.00 0.2
PP 08 38.40
PcP 10 05.00
S 12 22.00
ScP 13 26.60
PcS 13 50.00
ScS 17 23.80
TIY 33.54 75 eP 07 32.00 -0.2
VRI 33.62 300 iPd 07 33.00 0.3
MLR 34.17 299 eP 07 39.00 1.5
NNT 35.69 124 eP 07 51.30 1.0
BJI 36.00 70 eP 07 54.00 1.2
1.0s 18.00nm 4.6mb
PcP 10 14.50
ScP 13 38.50
WHN 37.08 86 Pc 08 02.80 0.8
0.8s 20.00nm 4.8mb
KAF 37.24 327 iP 08 03.40 0.5
0.5s 34.80nm 5.2mb
NUR 37.41 324 iP 08 04.70 0.3
0.4s 73.70nm 5.6mb
KRA 38.25 307 iPd 08 12.40 0.9
0.8s 47.00nm 5.1mb
SOD 39.43 335 iP 08 21.40 0.4
GZH 39.49 98 Pd 08 22.70 0.8
NJ2 40.16 82 Pc 08 28.30 1.0
0.9s 100.00nm 5.3mb
ScP 13 55.00
SNG 40.32 129 eP 08 28.80 0.0
KEV 40.53 339 eP 08 28.00 -2.0
0.8s 64.50nm 5.2mb
KSP 40.58 308 eP 08 31.20 0.6
UPP 40.63 322 iPd 08 31.00 0.1
i 10 02.70 498kmX
SNY 41.21 66 Pc 08 35.60 -0.3
0.8s 50.00nm 5.1mb
PRU 41.73 307 eP 08 41.50 1.5
BRG 42.07 308 iPd 08 43.80 1.0
0.8s 24.00nm 4.7mb
e 09 30.00 217km
i 14 01.60
CN2 42.22 62 eP 08 45.00 1.0
SSE 42.36 82 Pd 08 45.50 0.2
0.8s 30.00nm 4.8mb
KHC 42.41 306 eP 08 46.50 0.9
IPM 42.59 131 ePd 08 47.90 0.5
0.7s 67.70nm 5.2mb
HFS 42.63 322 eP 08 46.80 -0.4
0.4s 77.30nm 5.5mb
Z 17s 0.07um 3.6MszX
LR 29 40.00
CLL 42.64 309 iPd 08 47.70 0.3
KBA 42.78 303 iPd 08 50.20 1.4
1.1s 5.80nm 4.0mb
i 09 39.30 232kmX
e 10 35.00
MOX 43.56 308 eP 08 56.00 1.1
GRF 43.90 307 eP 08 59.30 1.7
0.9s 8.00nm 4.2mb
NB2 43.95 323 P 08 57.20 -0.7
MDJ 45.00 60 eP 09 06.00 -0.3
CDF 46.64 305 eP 09 19.30 0.0
BSF 47.06 305 eP 09 22.10 -0.5
MEM 47.11 309 Pc 09 20.70 -2.1
HAU 47.32 305 eP 09 24.10 -0.4
0.5s 2.90nm 3.9mb
LPG 47.55 302 eP 09 26.60 -0.1
0.7s 6.60nm 4.1mb
LPL 47.56 302 eP 09 26.40 -0.2
0.7s 7.70nm 4.2mb
LBF 49.10 304 eP 09 37.30 -0.9
0.5s 2.90nm 4.0mb
SMF 49.27 304 eP 09 39.00 -0.5
0.8s 10.75nm 4.3mb
AVF 49.56 304 eP 09 41.10 -0.6
0.7s 8.80nm 4.3mb
BGF 49.96 304 eP 09 43.80 -0.9
0.7s 5.50nm 4.2mb
MAF 50.23 303 eP 09 46.40 -0.4
0.7s 7.15nm 4.3mb
TCF 50.45 304 eP 09 48.20 -0.3
0.8s 8.75nm 4.3mb
CAF 50.90 302 eP 09 51.90 0.0
0.5s 4.35nm 4.2mb
LSF 50.92 304 eP 09 51.10 -0.9
0.5s 4.35nm 4.2mb
RJF 51.17 302 eP 09 53.90 0.0
LDF 51.42 307 eP 09 54.60 -1.1
0.5s 5.10nm 4.3mb
LPO 51.57 302 eP 09 56.50 -0.4
FLN 51.61 307 eP 09 55.90 -1.2
0.6s 5.40nm 4.3mb
EKA 51.80 316 Pd 09 57.70 -0.7
1.0s 15.00nm 4.5mb
LFF 51.80 302 eP 09 58.10 -0.5
0.5s 5.10nm 4.3mb
GRR 51.94 307 eP 09 58.50 -1.1
0.6s 7.20nm 4.4mb
MFF 51.94 304 eP 09 58.60 -1.0
LPF 52.15 306 eP 09 59.80 -1.3
EPF 52.64 300 eP 10 04.60 -0.2
0.6s 4.50nm 4.2mb
MAT 53.59 68 iPd 10 10.70 -1.2
0.8s 28.36nm 4.9mb
YAMJ 54.35 66 P 10 17.00 -0.3
DAG 54.55 344 iPd 10 17.70 -0.6
0.7s 54.79nm 5.3mb
ipP 11 06.00 216km
OFUJ 55.21 64 eP 10 22.20 -1
BCAO 57.02 249 iPc 10 35.00 -1
0.7s 30.00nm 5.1m
i 11 22.90 212
MBC 67.35 2 ePc 11 44.30
0.9s 55.00nm 5.3m
pP 12 35.50 219 m
BRW 67.47 15 eP 11 45.40 0.6
IMA 72.32 17 ePc 12 14.40 0.0
0.8s 20.80nm 4.9mb
KIC 74.10 266 P 12 24.60 -0.7
0.6s 7.00nm 4.6mb
MBL 74.11 132 eP 12 24.00 -1.1
TIC 74.15 267 P 12 25.00 -0.6
0.6s 5.00nm 4.4mb
TTA 74.25 20 eP 12 26.70 1.2
LIC 74.41 266 P 12 26.30 -0.8
0.6s 7.00nm 4.6mb
FBA 74.64 16 ePc 12 28.30 0.7
0.8s 35.20nm 5.1mb
FRB 74.84 342 eP 12 29.00 0.3
RND 75.69 17 P 12 32.70 -1.0
RSO 77.17 20 P 12 41.70 -0.3
PMR 77.17 18 ePc 12 41.70 0.0
0.7s 15.30nm 4.8mb

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TOA     77.44   17 ePd    12 45.30    2.0
        1.0s    145.70nm           5.7mb
SLKM    77.81   19 P      12 44.70   -0.7
BALM    79.24   15 P      12 53.40    0.2
YKA     81.26    2 eP     13 03.00   -0.5
        0.8s     15.40nm           4.8mb
SCH     81.81  336 eP     13 07.00    0.4
ASPA    84.83  124 iPd    13 21.00   -1.3
        0.5s     31.00nm           5.3mb
FORR    86.26  133 iPc    13 28.10   -1.0
FFC     88.87  355 eP     13 42.00    0.5
        0.7s     13.00nm           5.0mb
EDM     90.58    2 iPd    13 50.50    1.0
SES     93.46    1 eP     14 03.00    0.2
PNT     94.11    6 eP     14 06.00    0.3
        0.6s      5.00nm           4.8mb
NEW     95.35    5 P      14 11.50    0.0
        0.7s      7.20nm           5.0mb
RSSD    99.57  356 P      14 30.80   -0.1
        0.7s      2.94nm           4.8mb
BW06   101.08  360 Pdiff   14 36.00   -1.5
GOL    104.05  356 Pdiff   15 00.00    9.2X
PV09   105.36  359 e(PKP)  19 04.50   -5.0X
LTZ    121.70  122 PKP     19 39.50   -0.6
KHZ    122.44  121 PKP     19 40.60   -0.8
     S.D. = 0.9  on 114 of 117 obs.
-------------------------------------------
*  FEB  11, 1991  09h 38m 45.47± 1.93s
   6.446 S ±12.7km  130.024 E ±13.2km
   DEPTH = 183.6 ± 19.3 km
   4.4mb (  2 obs.)
 BANDA SEA                          (280)

MTN      6.45  170 iPd    40 19.80    0.6
        0.3s    323.00nm           6.1mb X
KUPT     7.34  239 eP     40 31.50    0.5
KNA      9.33  187 iPc    40 56.60   -0.5
        0.2s     33.00nm           5.4mb X
                  eS     42 34.00
WB2     14.06  163 eP     41 56.00   -2.0
                  eS     44 24.60
QIS     16.83  147 eP     42 33.00    1.0
                  eS     45 25.00
ASPA    17.52  168 iPd    42 40.30    0.2
        0.4s     11.40nm           4.6mb
                  eS     45 48.20
MBL     17.64  213 eP     42 40.40   -0.9
                  eS     46 49.00
WARB    19.89  189 eP     43 06.00    1.3
        0.4s      4.00nm           4.3mb
                  eS     46 44.00
NANU    21.26  220 eP     43 18.50    0.2
GUN     54.61  311 P      47 57.60   -0.2
PKI     54.79  310 P      47 58.60   -0.5
KKN     55.00  310 P      48 00.40    0.0
DMN     55.04  310 P      48 01.00    0.2
GKN     55.59  310 P      48 04.80    0.1
     S.D. = 0.9  on  14 of  14 obs.
-------------------------------------------
%  FEB  11, 1991  10h 20m 01.63± 0.69s
   16.262 N ± 6.9km   61.377 W ± 5.1km
   DEPTH =  10.0km  (geophysicist)
 LEEWARD ISLANDS                    ( 92)
     ML 2.2 (FDF).

SFG      0.17   93 eP     20 05.92    0.4
                  S      20 08.70
SEG      0.19  319 ePc    20 05.80    0.0
                  S      20 08.20
DEG      0.31   81 ePc    20 07.74   -0.3
                  S      20 12.30
DOG      0.33  225 ePd    20 08.60    0.2
                  S      20 13.40
PAG      0.37  232 eP     20 09.10   -0.2
                  S      20 14.50
BBL      0.74  188 eP     20 16.10   -0.1
     S.D. = 0.3  on   6 of   6 obs.
-------------------------------------------
   FEB  11, 1991  10h 31m 11.09± 0.24s
    5.362 N ± 4.9km   82.510 W ± 5.4km
   DEPTH =  10.0km  (geophysicist)
   5.1mb ( 22 obs.)  4.9Msz (  2 obs.)
 SOUTH OF PANAMA                    ( 83)
     CENTROID, MOMENT TENSOR        (HRV)
     Data Used: GDSN
     L.P.B.: 16S, 30C
     Centroid Locatian:
     Origin Time        10:31:11.6 1.4
     Lat  5.14N 0.10 Lon  82.34W 0.07
     Dep  15.0 FIX Half-durotion  1.8
     Moment Tensor;   Scale 10**16 Nm
       Mrr=-1.01 0.59  Mtt=-0.06 0.46
       Mff= 1.07 0.75  Mrt= 0.00 0.00
       Mrf= 0.00 0.00  Mtf=10.00 0.57
      Principal Axes:
       T  Val= 10.52  Plg= 0  Azm=133
       N       -1.01      90       180
       P       -9.51       0        43
     Best Double Couple:Mo=1.0*10**17
      NP1:Strike=178 Dip=90 Slip=-180
      NP2:       268     90         0

UPA      4.65   39 iPd-   32 23.30    0.2
        0.9s    756.30nm
                  i      33 15.30
COTA     6.50  140 P      32 49.00   -0.7
PSO      6.63  128 eP     32 51.50    0.1
YANA     6.71  144 eP     32 52.20   -0.4
GGP      6.75  144 P      32 53.00   -0.2
OTO      6.81  144 eP     32 54.40    0.4
CAYA     6.92  139 P      32 56.00    0.4
VC1      7.23  145 eP     33 01.00    1.0
BOG      8.44   95 eP     33 20.00    3.2X
                  iS     34 56.00
FUO      8.73   89 eP     33 21.50    0.7
BMG      9.53   79 iPc    33 35.00    3.4X
SDV     12.29   73 iP     34 11.50    2.1
                  iS     36 30.80
TOV     13.35   70 eP     34 24.50    1.2
TPX     13.49  315 (P)    34 28.00    2.9X
NNA     18.13  162 iP     35 26.00    1.1
        1.0s     90.00nm           4.9mb
OXX     18.15  311 (P)    35 28.00    2.8X
IIT     20.53  313 (P)    35 55.00    2.3
PPM     20.79  312 (P)    35 57.00    1.3
III     21.01  309 (P)    35 58.00    0.4
ARE     24.27  154 eP     36 33.00    3.1X
ZOBO    25.78  147 iPc    36 45.30    0.7
        0.8s     22.57nm           4.9mb
      Z 21s       3.14um           4.8Msz
                  S      41 17.00
                  LR     44 05.00
LPB     26.01  147 Pd     36 46.00   -0.6
        1.0s     40.00nm           5.1mb
      Z 18s       3.44um           4.9Msz
                  (S)    41 36.00
                  LR     44 20.00
CNCB    26.30  147 P      36 49.00   -0.5
                  i      36 53.50
SIV     30.01  135 Pc     37 22.40   -0.1
RSCP    30.22  355 P      37 22.00   -2.2
BLA     31.76    3 P      37 38.00    0.3
MEO     32.84  335 iPd    37 45.80   -1.3
FVM     33.26  349 ePd    37 49.00   -1.8
        1.2s     73.53nm           5.5mb
                  e(pP)  38 19.70 142kmX
ALO     36.82  326 ePc    38 21.10   -0.4
        1.2s     39.84nm           5.1mb
GLD     39.90  332 ePc    38 48.00    0.9
                  ePP    40 27.00
GOL     39.92  332 P      38 47.50    0.0
        1.5s     60.53nm           5.0mb
GLA     40.79  317 eP     38 56.00    1.6
PV09    40.89  328 P      38 56.00    0.6
BAR     41.87  315 eP     39 04.00    0.8
TPC     42.23  317 eP     39 07.00    0.8
PEC     42.87  316 P      39 12.20    0.7
        1.0s     11.33nm           4.6mb
RSSD    42.99  337 ePc    39 12.60    0.1
        1.4s     78.59nm           5.2mb
                  i      41 03.70
RVR     43.08  316 eP     39 14.00    0.9
CBM     43.24   14 P      39 14.80    0.6
GSC     43.43  318 eP     39 17.00    1.0
MWC     43.68  316 eP     39 19.00    0.8
PAS     43.72  316 eP     39 19.00    0.7
SBB     43.77  316 eP     39 19.00    0.2
CLC     44.25  318 eP     39 23.00    0.3
BW06    44.30  331 P      39 23.00   -0.1
        1.0s     16.67nm           4.9mb
VAO     44.73  130 eP     39 25.80   -0.9
ISA     44.75  317 eP     39 27.00    0.3
TNP     45.34  321 P      39 31.60    0.1
        1.0s     16.25nm           4.9mb

PDCR    46.64  113 eP     39 40.30   -1.6
PRS     47.09  316 eP     39 45.30    0.1
CMB     47.35  319 eP     39 46.90   -0.3
LRM     47.96  332 eP     39 51.90   -0.2
BKS     48.49  318 eP     39 56.10    0.0
        1.4s     54.00nm           5.4mb
ORV     48.91  320 eP     39 59.80    0.5
                  e      41 07.30
SES     50.86  337 ePc    40 14.00   -0.1
        1.4s     98.00nm           5.6mb
SCH     50.92   12 eP     40 13.00   -1.4
FFC     51.67  346 eP     40 19.00   -1.1
        1.4s     38.00nm           5.1mb
NEW     51.93  331 ePd    40 21.40   -0.9
        1.0s     16.00nm           4.9mb
                  e(pP)  40 54.50 143kmX
PNT     53.86  331 eP     40 36.00   -0.5
        1.3s     74.00nm           5.5mb
FRB     59.14    7 ePc    41 10.70   -3.3X
YKA     61.72  344 eP     41 29.10   -2.6
        0.8s     15.40nm           5.2mb
MBC     73.69  351 eP     42 46.50    0.1
        1.0s     34.00nm           5.4mb
RND     74.77  335 P      42 53.20    0.2
FBA     74.84  336 P      42 52.70   -0.6
        1.3s     23.58nm           5.1mb
RSO     75.68  331 P      42 58.00   -0.4
TIC     77.00   84 P      43 07.06    0.5
LIC     77.02   85 P      43 07.08    0.4
SVW     77.20  332 P      43 05.80   -0.9
        1.1s     68.75nm           5.7mb
KIC     77.30   85 P      43 08.76    0.6
        0.7s      4.50nm           4.6mb
EKA     79.55   35 P      43 22.00    2.3
        1.5s     24.90nm           5.0mb
NB2     87.16   29 P      43 58.00   -0.5
        1.2s     11.40nm           5.0mb
GKN    144.59   20 PKP    50 48.22   -2.3
        0.9s     53.00nm
KKN    145.00   19 PKP    50 49.90   -1.4
        0.9s     74.00nm
GUN    145.08   18 PKP    50 50.70   -0.9
        0.9s    138.00nm
DMN    145.11   19 PKP    50 50.48   -1.1
        0.9s     87.00nm
PKI    145.24   19 PKP    50 50.30   -1.6
        1.0s     45.00nm
HYB    150.64   39 ePKP   50 55.00   -5.3X
GBA    152.59   46 PKP    51 11.00    7.9X
     S.D. = 1.0  on  70 of  78 obs.
-------------------------------------------
?  FEB  11, 1991  10h 39m 55.41± 1.22s
   50.312 N ±17.5km   18.923 E ± 8.9km
   DEPTH =  10.0km  (geophysicist)
 POLAND                             (548)
     ML 3.0 (KRA).

KRA      0.70  111 iPgc   40 09.20   -0.1
                  iSg    40 20.20
KSP      1.76  289 ePn    40 26.50    0.4
        0.7s     53.00nm
                  iPg    40 28.80
                  iS     40 52.30
ZST      2.43  210 eP     40 36.00    0.2
                  e      41 17.00
                  e      41 31.00
PRU      2.84  265 ePn    40 41.00   -0.6
                  Pg     40 47.00
                  Sg     41 23.50
BRG      3.22  282 iPg    40 57.00   10.0X
                  iSg    41 39.00
KHC      3.66  253 ePg    40 58.70    5.3X
                  eSg    41 51.50
CLL      3.88  287 ePg    41 12.00   15.6X
                  eSg    42 04.00
     S.D. = 0.7  on   4 of   7 obs.
-------------------------------------------
%  FEB  11, 1991  10h 41m 09.62± 1.16s
   39.102 N ± 8.7km   27.613 E ±14.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)
     MD 2.8 (ISK).

IZM      0.75  201 ePg    41 24.50    0.1
                  iSg    41 35.50
EZN      1.23  306 ePn    41 32.20   -0.3
EDC      1.26    9 ePn    41 34.50    1.5
```

11d 10h

```
BNT      1.28  11 iPn    41 32.60  -0.7
KCT      1.28  26 iPn    41 32.70  -0.7
     S.D. = 1.3  on   5 of   5 obs.
-------------------------------------
?  FEB  11, 1991   10h 43m 10.79± 0.97s
   38.624 N ± 8.8km     0.633 W ± 8.9km
   DEPTH =  10.0km  (geophysicist)
 SPAIN                              (377)
      mbLg 2.6 (MDD). Felt (III) at
      Castalla.

ACU      0.21 123 iPgc  43 15.20  -0.1
                  eSg   43 18.50
EALH     0.98 219 ePg   43 30.00   0.5
                  eSg   43 43.60
ECHE     1.00 345 ePg   43 30.00   0.2
                  eSg   43 44.00
EBAN     2.52 260 ePn   43 51.80  -0.6
     S.D. = 0.9  on   4 of   4 obs.
-------------------------------------
   FEB  11, 1991   11h 09m 28.76± 0.70s
    6.759 S ± 5.5km   130.191 E ± 9.9km
   DEPTH =  96.2 ±  6.8 km
   5.1mb (  8 obs.)
 BANDA SEA                          (280)

MTN      6.12 171 eP    10 58.80   0.5
KUPT     7.33 242 eP    11 17.50   2.5
                  eS    12 33.00
KNA      9.04 189 iPd   11 37.00  -1.4
       0.3s   256.00nm          6.5mb X
                  eS    13 11.00
WB2     13.72 163 eP    12 36.00  -4.4X
                  eS    14 59.10
QIS     16.47 147 e(P)  13 16.00   0.5
                  i     16 05.10
ASPA    17.18 168 iPc   13 23.00  -1.3
       0.4s    83.10nm          5.3mb
                  eS    16 23.80
WARB    19.61 190 eP    13 52.00  -0.1
       0.4s    25.00nm          4.9mb
                  eS    17 20.00
NANU    21.13 220 eP    14 07.60   0.0
                  e     14 21.00
MEKA    22.65 208 eP    14 21.00  -1.6
                  e     14 40.00
FORR    24.05 184 eP    14 36.60   0.5
                  i     14 45.80
                  eS    19 06.00
MRWA    26.05 209 eP    14 56.10   1.3
                  e     15 21.00
RMQ     26.41 140 eP    15 07.00   8.8X
BDT     38.97 308 eP    16 46.70  -0.7
CHG     39.93 310 eP    16 56.00   0.6
MAT     43.72   9 eP    17 27.00   0.9
LZH     49.28 332 eP    18 09.00  -1.0
       1.6s    15.00nm          4.7mb
     Z  11s     0.27um          4.5MszX
CN2     50.51 356 eP    18 19.20   0.3
GTA     53.85 331 eP    18 44.60   0.4
       0.8s    10.00nm          4.9mb
GUN     54.94 311 P     18 52.06  -0.6
       0.4s    18.00nm          5.5mb
PKI     55.11 310 P     18 52.96  -0.9
       0.5s     7.00nm          4.9mb
KKN     55.33 310 P     18 54.56  -0.7
       0.4s    12.00nm          5.2mb
DMN     55.36 310 P     18 54.94  -0.6
GKN     55.92 310 P     18 58.34  -1.1
       0.4s    19.00nm          5.5mb
WMQ     63.30 327 P     19 50.60   0.9
                  S     28 11.00
YKA    107.45  26 ePKP  27 45.20  -0.1
       0.5s     0.50nm
TNP    111.89  52 (PKP) 27 55.80   1.0
ALQ    121.01  53 ePKP  28 13.30   1.0
KIC    135.24 272 PKP   28 40.00   0.1
LIC    135.51 272 PKP   28 40.50   0.1
TIC    135.53 273 PKP   28 40.30  -0.1
BMA    150.21 191 ePKP  29 11.70   6.2X
     S.D. = 1.0  on  28 of  31 obs.
-------------------------------------
*  FEB  11, 1991   11h 20m 03.13± 0.50s
   21.588 N ± 9.5km  142.825 E ±16.9km
   DEPTH = 300.0km  (geophysicist)
   4.0mb (  3 obs.)
 MARIANA ISLANDS REGION             (215)

MAT     15.43 346 (P)   23 28.00   0.4
WB2     42.10 192 iPc   27 27.80  -0.2
ASPA    45.81 191 iPd   27 58.00   0.5
       0.6s     4.80nm          4.0mb
FBA     61.92  27 P     29 52.90  -0.3
GBA     62.46 274 Pc    29 57.10  -0.4
       0.6s     1.80nm          3.9mb
MBC     71.04  15 eP    30 50.50   0.4
YKA     76.71  28 eP    31 22.10  -0.5
       0.6s     3.00nm          4.2mb
SES     83.37  38 eP    31 58.00   0.0
TNP     84.39  51 P     32 03.80   0.2
     S.D. = 0.4  on   9 of   9 obs.
-------------------------------------
?  FEB  11, 1991   12h 31m 21.99± 3.71s
   39.416 N ± 9.0km   26.843 E ±40.4km
   DEPTH =   5.0km  (geophysicist)
 TURKEY                             (366)
      MD 2.8 (ISK).

IZM      1.07 162 ePg   31 42.60   0.0
                  eSg   31 58.10
EDC      1.22  40 ePn   31 45.00  -0.1
                  eSg   32 03.00
BNT      1.25  41 iPn   31 45.50  -0.2
KCT      1.43  54 ePn   31 49.10   0.4
KHL      2.36 117 ePn   32 02.00  -0.1
     S.D. = 0.3  on   5 of   5 obs.
-------------------------------------
   FEB  11, 1991   14h 17m 26.29± 0.82s
   38.695 N ±10.4km  119.679 W ± 6.1km
   DEPTH =   5.0km  (geophysicist)
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      MD 2.8 (GM).

CMB      0.86 220 iPc   17 42.40  -1.0
KVN      1.28  73 iPc   17 49.90  -0.8
BONR     1.31 124 eP    17 51.80   0.6
ORV      1.66 302 e(P)  17 56.50   0.4
ARN      1.99 228 eP    18 01.50   0.5
TNP      2.03 107 eP    18 02.00   0.3
     S.D. = 0.9  on   6 of   6 obs.
-------------------------------------
?  FEB  11, 1991   14h 27m 01.67± 1.70s
   71.573 N ±30.1km   11.832 W ±26.6km
   DEPTH =  10.0km  (geophysicist)
   3.5mb (  2 obs.)
 JAN MAYEN ISLAND REGION            (639)

JMI      1.19 121 eP    27 22.41  -1.5
JNW      1.23 115 iP    27 25.77   1.3
                  eS    27 42.11
JNE      1.28 116 eP    27 25.57   0.2
                  eS    27 43.33
DAG      5.55 343 iPc   28 25.90  -0.4
       0.4s    13.56nm          5.0mb X
                  ipP   29 25.70
KAF     17.38 104 eP    31 08.50   3.2X
       0.8s     2.00nm          3.3mb
YKA     36.19 310 eP    34 06.00   0.4
       0.9s     0.90nm          3.6mb
     S.D. = 1.5  on   5 of   6 obs.
-------------------------------------
   FEB  11, 1991   15h 43m 43.60± 0.19s
   44.871 N ± 1.7km    6.704 E ± 1.6km
   DEPTH =  14.0 ±  1.4 km
   4.6mb (  6 obs.)
 FRANCE                             (538)
      ML 5.1 (GRF), 4.7 (LDG), 4.7
      (ZUR). MD 4.6 (STR), 4.5 (TRI).

RRL      0.08  49 Pc    43 44.99  -1.9
BNI      0.18 354 Pd    43 48.60   0.4
                  eSg   43 52.00
FOUF     0.35 171 iPgd  43 49.58  -1.3
                  i     43 50.01
                  eSg   43 53.71
BHB      0.40  94 Pc    43 50.71  -1.2
                  S     43 56.38
PZZ      0.46 142 P     43 51.65  -1.5
                  S     44 58.00
RSP      0.48  54 Pd    43 52.39  -1.0
DOI      0.53 133 Pc    43 54.80   0.5
                  iSg   44 06.00
LPG      0.63   3 Pg    43 55.20  -0.8
                  Sg    44 06.00
LPL      0.65   2 Pg    43 55.60  -0.7

LSD      0.67  28 Pd    43 55.59  -1.1
                  S     44 04.64
STV      0.77 144 Pd    43 57.04  -1.2
                  S     44 07.15
RSL      0.82 356 Pg    43 58.49  -0.7
ENR      0.82 141 Pd    43 58.00  -1.2
TOUF     0.94 155 Pg    44 00.71  -0.6
                  Sg    44 14.50
ROB      1.01 124 Pc    44 01.78  -0.7
                  S     44 16.66
AUTN     1.02 149 Pg    44 02.11  -0.5
                  Sg    44 17.02
SAOF     1.07 145 Pg    44 03.08  -0.4
                  Sg    44 18.37
AURF     1.08 155 Pg    44 03.31  -0.3
                  Sg    44 19.68
CALN     1.13 173 Pg    44 04.74   0.3
SBF      1.14 152 Pg    44 04.39  -0.2
ORO      1.18  50 P     44 06.00   0.7
                  eSg   44 24.50
ORX      1.18  49 Pc    44 04.13  -1.2
                  S     44 19.35
CKI      1.21 111 P     44 07.10   1.3
                  eSg   44 26.00
EMS      1.21   7 iPd   44 05.70  -0.2
REVF     1.23 157 Pg    44 06.39   0.3
VILF     1.24 215 Pg    44 08.85   2.5X
                  Sg    44 26.30
FIN      1.26 121 Pc    44 05.92  -0.8
IMI      1.28 138 Pc    44 06.38  -0.7
DIX      1.31  22 iPd   44 07.10  -0.5
FRF      1.31 182 Pn    44 07.80   0.4
TAVF     1.34 201 Pg    44 09.75   1.9
PCP      1.35 103 Pc    44 07.86  -0.2
CDR      1.37 210 e(Pg)d44 09.20   0.9
                  i     44 10.00
LRG      1.44 190 Pn    44 10.30   1.2
                  Pg    44 11.30
                  Sg    44 30.30
MMK      1.48  36 iPc   44 10.20   0.2
PUYF     1.52 209 Pg    44 13.30   2.9X
                  Sg    44 34.24
PRAF     1.53 226 Pn    44 12.40   1.8
                  Pg    44 14.74
                  Sg    44 37.47
LMR      1.54 185 Pn    44 11.70   1.0
                  Pg    44 12.50
                  Sg    44 33.80
TREF     1.57 218 Pg    44 14.76   3.7X
                  Sg    44 37.69
BERF     1.72 205 Pg    44 17.04   3.7X
                  Sg    44 39.26
GELF     1.75 212 Pg    44 17.48   3.8X
                  Sg    44 41.45
VAI      1.76  55 P     44 15.50   1.6
                  eSg   44 38.50
BOB      1.96  92 P     44 19.50   2.8X
                  eSg   44 43.00
MDI      2.31  66 P     44 22.60   0.9
                  eSg   44 50.00
PLDF     2.43 298 Pn    44 24.19   0.6
LBL      2.48 280 Pn    44 24.76   0.7
LOMF     2.48   2 Pn    44 25.25   1.0
                  Pg    44 30.29
VDL      2.52  49 ePd   44 25.60   0.6
LLS      2.56  38 ePc   44 26.50   1.0
BBS      2.65  12 Pn    44 27.35   0.6
                  Pg    44 33.35
                  Sg    45 09.07
SMF      2.68 313 Pn    44 28.00   1.0
                  Sg    45 10.00
PYM      2.75 290 Pn    44 28.50   0.3
SAL      2.80  73 P     44 30.20   1.5
LBF      2.84 319 Pn    44 29.80   0.4
                  Sg    45 15.00
PGF      2.86 144 Pn    44 29.00  -0.6
                  Sn    45 02.40
ZLA      2.86  24 ePc   44 30.90   1.2
BDI      2.90 105 Pd    44 31.60   1.4
                  eSn   45 04.50
MME      2.94 102 P     44 33.00   2.1
                  eSn   45 07.50
BSF      2.96   1 Pn    44 31.13   0.0
PII      2.97 111 P     44 32.60   1.5
                  eSn   45 08.10
MOF      3.00   6 Pn    44 31.59   0.0
                  Pg    44 40.69
```

SAX	3.01	37	ePc	44	34.40	2.5X
OSS	3.01	52	ePd	44	32.70	0.8
AVF	3.03	311	Pn	44	33.00	1.1
			Sg	45	21.20	
LOR	3.11	321	Pn	44	33.60	0.5
			Pg	44	44.40	
			Sn	45	10.40	
			Sg	45	24.00	
SSF	3.13	316	Pn	44	34.00	0.7
FEL	3.14	16	eP	44	34.13	0.5
HAU	3.15	356	Pn	44	34.00	0.4
			Pg	44	43.20	
			Sn	45	11.60	
			Sg	45	24.00	
SLE	3.15	23	ePd	44	33.40	-0.3
BGF	3.19	303	Pn	44	35.00	0.8
			Sg	45	27.20	
MAF	3.21	296	Pn	44	35.40	0.9
			Sg	45	27.60	
CAF	3.30	273	Pn	44	36.80	1.0
			Pg	44	47.40	
ECH	3.36	5	Pn	44	36.58	-0.1
VITF	3.38	352	Pn	44	37.35	0.4
FIR	3.44	107	ePn	44	37.00	-0.8
			i(Sn)	45	16.00	
TCF	3.46	296	Pn	44	38.80	0.7
			Sg	45	35.60	
CDF	3.56	6	Pn	44	39.28	-0.4
WLS	3.57	7	Pn	44	39.36	-0.4
OGA	3.62	55	ePn	44	41.70	1.1
CTI	3.67	70	P	44	42.40	1.1
			eSn	45	24.90	
RJF	3.70	279	Pn	44	42.50	0.9
HYF	3.71	312	Pn	44	43.00	1.3
			Sg	45	44.40	
PGD	3.73	104	P	44	43.30	1.1
ETER	3.80	229	iPc	44	42.90	0.0
SFI	3.81	103	P	44	45.00	2.0
LSF	3.89	293	Pn	44	44.60	0.4
			Sg	45	46.60	
SOTA	3.92	52	iPc	44	46.10	1.4
	0.8s	435.00nm				
			i	44	49.80	
			i	45	32.30	
			i	45	40.30	
LPO	3.93	269	Pn	44	45.40	0.6
			Pg	44	58.40	
MOTA	3.93	49	iPc	44	45.50	0.5
	0.7s	212.00nm				
			i	44	48.30	
			i	44	52.70	
CRE	3.97	106	P	44	46.80	1.4
			eSn	45	31.00	
MAO	4.05	126	P	44	47.50	1.0
			eSn	45	32.70	
SCE	4.11	56	iPnc	44	48.80	1.3
GWF	4.16	8	Pn	44	46.95	-1.0
VVI	4.18	73	P	44	50.50	2.2
WTTA	4.18	53	iPc	44	49.40	0.8
	0.7s	274.00nm				
			i	45	01.90	
WATA	4.19	52	iPc	44	49.80	1.2
	0.8s	277.00nm				
			i	44	52.40	
RSM	4.23	101	P	44	50.50	1.6
LFF	4.24	273	Pn	44	50.00	0.9
			Pg	45	03.80	
			Sn	45	38.60	
STU	4.26	23	ePn	44	49.00	-0.5
	0.6s	40.00nm				
			ePg	45	04.00	
MLS	4.49	247	Pn	44	52.35	-0.3
FUR	4.56	42	iPnc	44	55.80	2.0
FVI	4.59	66	Pd	44	54.50	0.4
			eSn	45	45.50	
ASS	4.66	111	P	44	56.30	1.1
ARV	4.69	105	P	44	56.10	0.5
RUP	4.84	3	eP	44	57.78	0.1
EPF	4.95	250	Pn	44	58.80	-0.5
			Pg	45	17.50	
MNS	5.00	118	P	45	01.30	1.4
ABH	5.05	6	eP	45	00.60	0.0
TRI	5.05	78	e(Pn)	44	58.50	-2.1
			i(Sn)	45	57.60	
MFF	5.10	292	Pn	45	01.60	0.3
			Sg	46	26.40	
KBA	5.13	62	iPc	45	01.60	-0.3

	0.9s	231.00nm				5.8mb X
			id	45	02.70	
			i	45	07.70	
			i	45	12.90	
			i	45	27.60	
			i	46	01.90	
			i	46	11.00	
BHG	5.14	54	iPnd	45	03.30	1.4
VOY	5.19	75	iPnd	44	59.90	-2.8
			eSn	46	00.40	
BTH	5.28	253	iPgc	45	02.80	-1.2
			e	45	07.00	
			iS	45	22.70	
			i	45	23.00	
			i	45	23.60	
BTH	5.28	253	Pn	45	07.80	3.8X
			Pg	45	22.70	
			e	45	23.60	
			Sg	46	32.00	
			Lg	46	44.00	
			LR	47	18.00	
GRC1	5.28	37	ePn	45	01.90	-2.1
			ePg	45	23.30	
			eSg	46	33.60	
RMP	5.34	123	P	45	04.00	-0.7
RDP	5.38	123	P	45	04.50	-0.8
DOU	5.42	345	iPd	45	05.80	-0.1
	Z 10s	1.30um				
			S	46	04.70	
			PcP	52	22.90	
JAU	5.43	253	Pn	45	06.04	-0.1
RIY	5.46	82	ePn	45	03.30	-3.1X
AOU	5.48	115	P	45	07.40	0.7
TNS	5.48	12	ePnc	45	05.90	-0.9
			eSn	46	43.50	
CEY	5.52	78	ePn	45	05.00	-2.3
			eSn	46	07.50	
ESCF	5.55	254	Pn	45	07.10	-0.7
LJU	5.63	75	ePn	45	07.00	-1.9
			eSn	46	12.60	
AZI	5.68	118	P	45	09.50	-0.1
MADF	5.69	255	Pn	45	08.73	-1.0
ISSF	5.72	254	Pn	45	08.36	-1.9
MEM	5.76	356	iPd	45	10.27	-0.3
			i	45	35.69	
			iS	46	14.73	
ESEL	5.83	210	eP	45	12.00	0.4
BOH	5.84	255	Pn	45	10.35	-1.5
SNF	5.88	345	iPd	45	12.10	-0.1
			S	46	16.20	
ENN	5.92	355	iPd	45	12.20	-0.7
	0.6s	149.00nm				5.9mb X
			e	46	14.00	
			e	46	52.00	
LDF	5.99	311	Pn	45	13.60	-0.3
WET	6.01	42	ePn	45	12.50	-1.7
KMR	6.04	56	iPn+	45	14.00	-0.6
			iSn	46	25.20	
			i	46	28.90	
SDI	6.08	119	P	45	15.00	-0.2
VBY	6.08	81	iPnd	45	12.90	-2.2
			iSn	46	21.80	
EBR	6.10	231	ePn	45	15.00	-0.4
			eSg	46	41.00	
BNS	6.11	3	iPnc	45	14.30	-1.2
	0.9s	291.00nm				6.1mb X
			i(S)	47	03.50	
			i(S)	47	07.20	
UCC	6.14	346	eP	45	16.80	0.9
			iS	46	26.00	
LPF	6.21	303	Pn	45	16.60	-0.4
FLN	6.28	311	Pn	45	17.80	-0.2
			Sg	47	03.00	
GRR	6.28	307	Pn	45	17.40	-0.6
KHC	6.34	45	iPn	45	18.00	-0.9
			e	45	23.00	
			e	46	21.30	
			Sn	46	33.20	
			Sg	47	15.00	
HOF	6.47	31	ePn	45	17.60	-3.1X
ZAG	6.61	78	ePn	45	19.00	-3.6X
MOX	6.66	28	iPn	45	24.00	0.7
			iPg	45	48.00	
			iSn	46	41.00	
			iSg	47	19.00	
ECRI	7.05	255	eP	45	27.20	-1.6
WTS	7.13	1	iPd	45	29.60	-0.3

	0.9s	34.00nm				5.5mb
			e	46	59.00	
HVAR	7.22	100	i(Pn)	45	26.90	-4.4X
PRU	7.38	43	Pn	45	32.70	-0.7
			e	45	34.80	
			e	45	38.80	
VKA	7.44	59	iPnc	45	32.10	-2.2
			i	45	38.70	
			iPgPg	46	08.70	
			i	46	29.70	
			i	46	44.30	
			iSn	46	51.10	
ETOR	7.60	241	eP	45	36.50	-0.[illegible]
CLL	7.70	31	ePn	45	39.00	1.2
	1.1s	12.00nm				5.0mb
			ePg	46	14.00	
			iSg	47	58.00	
BRG	7.73	36	iPn	45	36.00	-2.3
			i	46	10.00	
ECHE	7.76	230	iPd	45	38.80	0.0
ZST	7.90	61	eP	45	38.00	-2.8
			i	46	05.00	
			i	46	25.00	
			i	48	35.00	
TIH	8.07	71	iP	45	40.80	-2.2
UZD	8.49	74	e(P)	46	04.00	15.1X
SRO	8.55	66	eP	45	46.50	-3.3X
			e	48	07.30	
KSP	8.79	44	eP	45	52.20	-0.8
	0.9s	44.00nm				5.8mb X
			iSn	47	37.00	
			iSg	48	37.10	
GUD	9.03	246	eP	45	55.20	-1.4
EVIA	9.28	231	eP	45	59.10	-0.8
TOL	9.39	242	iP	46	01.00	-0.4
			eS	48	49.00	
PSZ	9.61	67	e(P)	46	02.00	-2.5
SPC	10.20	60	eP	46	09.20	-3.5X
KRA	10.35	55	eP	46	11.30	-3.3X
			e	46	23.90	
			e	48	01.30	
			e	48	38.40	
BZS	10.55	81	eP	46	19.00	1.8
EPLA	10.59	248	eP	46	15.30	-2.6
SKO	11.10	100	ePn	46	20.50	-4.4X
EKA	12.22	332	Pd	46	38.40	-1.6
	0.5s	12.80nm				5.4mb
MLR	13.59	81	eP	47	10.00	11.7X
NB2	16.42	8	P	47	37.40	2.5X
	1.0s	2.70nm				3.3mb X
NUR	18.96	28	eP	48	07.40	1.0
	0.5s	2.70nm				3.7mb
BBTK	19.86	96	eP	48	17.00	-0.1
KAF	20.69	27	eP	48	24.90	-0.5
	0.6s	5.30nm				4.1mb
SOD	24.90	18	eP	49	09.00	2.1
GKN	62.62	77	P	54	09.92	0.0
YKA	63.18	334	eP	54	11.80	-1.1
	0.8s	1.10nm				4.1mb
DMN	63.19	77	P	54	14.64	0.8
KKN	63.20	77	P	54	13.86	0.1
PKI	63.43	77	P	54	15.78	0.3
GUN	63.54	76	P	54	16.88	0.7
GBA	66.89	94	P	54	37.50	0.0
FBA	68.77	349	(P)	54	50.00	1.4
KOD	69.22	96	eP	54	53.30	0.8
CHG	78.52	75	eP	55	48.00	2.0

S.D. = 1.1 on 170 of 189 obs.

? FEB 11, 1991 15h 45m 30.80± 3.60s
44.845 N ± 8.1km 6.716 E ±26.6km
DEPTH = 5.0km (geophysicist)
FRANCE (538)
ML 1.7 (GEN).

RRL	0.09	33	P	45	32.81	-0.2
			S	45	34.05	
BHB	0.39	90	P	45	38.40	-0.2
			S	45	44.48	
PZZ	0.44	141	P	45	39.68	0.1
RSP	0.49	51	P	45	41.02	0.4

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

FEB 11, 1991 15h 53m 14.21± 0.48s
68.008 N ± 6.8km 18.648 W ± 7.3km
DEPTH = 10.0km (geophysicist)
4.4mb (17 obs.)

11d 15h

ICELAND REGION (637)

AKU	2.34	175	iP	53 51.70	-1.6
	0.8s	232.84nm			
REY	4.11	200	e(P)	54 17.40	-0.9
EKA	14.62	143	P	56 49.00	6.4X
	1.1s	13.90nm		4.5mb	
APO	15.81	102	eP	57 01.00	2.8
	1.2s	38.20nm		4.5mb	
KEV	16.25	63	eP	57 08.00	4.4X
SOD	16.91	71	iP	57 13.10	1.1
KAF	19.46	86	iP	57 42.50	-0.9
	0.7s	6.30nm		4.0mb	
NUR	19.84	91	iP	57 45.80	-1.7
	0.8s	19.20nm		4.5mb	
FRB	20.35	282	eP	57 54.00	1.2
ENN	21.07	133	iPd	57 59.50	-0.9
MEM	21.24	133	P	58 01.00	-1.1
FLN	21.35	145	eP	58 03.70	0.4
	0.9s	16.40nm		4.4mb	
Z	19s	0.15um		3.4Msz	
LDF	21.59	145	eP	58 04.40	-1.3
	0.9s	11.45nm		4.3mb	
LPF	21.93	147	eP	58 07.80	-1.3
	0.7s	11.00nm		4.4mb	
CLL	22.72	121	eP	58 18.00	1.1
MOX	22.86	124	eP	58 20.00	1.7
		e		58 28.00	
CDF	23.58	133	eP	58 26.90	1.4
LOR	23.75	140	eP	58 28.30	1.3
	0.7s	3.30nm		4.0mb	
Z	19s	0.25um		3.7Msz	
SSF	23.86	140	eP	58 29.50	1.5
BGF	24.18	142	eP	58 31.70	0.6
	0.9s	9.85nm		4.4mb	
TCF	24.29	143	eP	58 32.60	0.4
	1.0s	9.00nm		4.3mb	
SMF	24.33	140	eP	58 33.30	0.7
	0.7s	4.40nm		4.2mb	
PRU	24.36	121	eP	58 38.70	5.8X
MAF	24.43	143	eP	58 33.60	0.0
	0.8s	6.05nm		4.3mb	
KHC	24.80	123	eP	58 42.30	5.1X
RJF	25.07	145	eP	58 39.80	0.1
	0.7s	8.80nm		4.6mb	
Z	21s	0.20um		3.6Msz	
MBC	28.03	330	eP	59 14.00	7.2X
YKA	36.65	309	eP	00 21.40	-0.6
	0.7s	2.00nm		4.0mb	
FFC	38.75	293	eP	00 41.00	1.3
	0.7s	8.00nm		4.5mb	
FBA	42.57	331	P	01 12.00	0.9
BJI	67.06	36	eP	04 09.00	-0.2
	1.2s	12.00nm		5.0mb	
GKN	69.14	67	P	04 21.26	-1.3
KKN	69.56	67	P	04 24.22	-0.9
	0.7s	8.00nm		5.0mb	
GUN	69.65	66	P	04 25.04	-0.9
DMN	69.66	67	P	04 25.16	-0.7
PKI	69.80	67	P	04 25.48	-1.3
CHG	82.43	58	eP	05 37.10	-0.6
S.D. = 1.2		on	32 of	37 obs.	

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* FEB 11, 1991 16h 33m 31.23± 1.00s
36.946 N ± 9.0km 5.627 W ± 8.4km
DEPTH = 10.0km (geophysicist)
STRAIT OF GIBRALTAR (385)
mbLg 2.2 (MDD).

LIJA	0.18	105	eP	33 37.00	1.7
ALJ	0.27	176	eP	33 37.00	0.0
GIBL	0.29	245	eP	33 37.00	-0.3
EPRU	0.32	86	iPgd	33 36.40	-1.4
			eSg	33 38.50	
EJIF	0.51	165	ePg	33 45.00	3.4X
			eSg	33 53.30	
EHOR	0.92	19	ePg	33 50.00	1.2
			eSg	34 02.10	
EVAL	1.10	306	ePn	33 57.50	5.7X
			eSn	34 14.40	
EBAN	1.90	50	ePn	34 02.90	-1.1
			eSn	34 25.00	
S.D. = 1.6		on	6 of	8 obs.	

FEB 11, 1991 16h 54m 01.55± 0.35s
5.457 S ± 5.9km 152.420 E ± 7.9km
DEPTH = 37.1km (2 depth phases)
4.9mb (10 obs.) 4.3Msz (2 obs.)

NEW BRITAIN REGION (192)

RAB	1.28	349	iP+	54 24.80	1.5
PMG	6.53	233	eP	55 39.00	1.2
OIS	19.50	219	iPd	58 27.90	-0.8
	0.5s	12.00nm		4.4mb	
RMQ	21.21	189	eP	58 45.00	-1.4
DZM	21.38	142	iPc	58 48.10	-0.2
BRS	21.82	179	eP	58 48.00	-4.6X
			eS	02 36.00	
ASPA	25.41	223	iPc	59 29.00	1.4
	0.7s	21.90nm		4.8mb	
Z	18s	0.90um		4.3Msz	
WHN	51.07	317	ePc	03 03.20	0.6
CN2	54.74	336	eP	03 29.00	-0.7
			pP	03 40.00	37km
TIY	56.81	322	eP	03 43.80	-1.1
Z	16s	0.40um		4.6MszX	
XAN	56.84	317	Pc	03 43.80	-1.3
CHG	57.93	296	eP	03 53.00	0.1
CD2	58.88	311	P	03 59.00	-0.4
HHC	59.36	325	eP	04 02.40	-0.3
BTO	60.10	324	P	04 07.50	-0.2
LZH	61.44	316	Pc	04 17.00	0.0
	1.2s	29.00nm		5.3mb	
Z	20s	0.19um		4.2Msz	
			pP	04 28.00	37km
			PcP	04 57.50	
GTA	65.88	318	Pc	04 46.60	0.6
	1.0s	10.00nm		4.9mb	
			PcP	05 17.40	
GUN	72.14	301	P	05 25.14	-0.1
PKI	72.44	301	P	05 26.86	-0.2
KKN	72.61	301	P	05 27.48	-0.4
DMN	72.71	301	P	05 27.44	-1.1
GKN	73.22	301	P	05 31.04	-0.3
WMQ	75.97	318	P	05 43.00	-3.7X
PDB	77.36	25	P	05 53.00	-1.1
SVW	77.56	23	ePc	05 56.30	1.1
	0.7s	23.30nm		5.3mb	
PMR	80.44	24	ePd	06 09.90	-0.8
	0.7s	12.30nm		5.0mb	
IMA	81.20	19	ePc	06 15.70	0.8
	1.1s	12.80nm		4.8mb	
KLU	81.73	25	P	06 17.00	-0.6
TQA	81.91	25	P	06 18.50	0.0
FBA	82.63	22	ePc	06 21.60	-0.6
	0.7s	14.20nm		5.1mb	
BRW	83.49	15	ePd	06 27.90	1.5
QUE	88.81	300	eP	06 54.10	0.4
MBC	94.84	14	eP	07 20.50	0.1
	1.0s	6.00nm		5.0mb	
YKA	96.18	28	eP	07 26.20	-0.5
	0.7s	2.70nm		4.8mb	
SES	98.34	40	eP	07 47.00	10.2X
VAO	145.96	147	ePKP	13 39.90	0.7
BAO	150.88	136	e(PKP)	13 49.00	1.9
S.D. = 0.9		on	34 of	37 obs.	

? FEB 11, 1991 16h 59m 37.97± 4.21s
36.834 N ±33.3km 30.301 E ±30.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.2 (ISK).

ELL	0.33	255	iPg	59 44.70	-0.1
BCK	0.67	20	iPg	59 51.30	0.0
			iSg	00 01.00	
KHL	1.61	338	ePn	00 06.50	-0.1
YER	1.64	281	ePn	00 07.20	0.1
S.D. = 0.2		on	4 of	4 obs.	

FEB 11, 1991 17h 53m 33.39± 0.58s
37.716 N ± 5.3km 29.328 E ± 6.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.2 (ISK).

KHL	0.63	14	iPg	53 45.30	-0.7
			iSg	53 55.30	
YER	1.01	235	ePn	53 52.00	-0.6
BCK	1.03	104	iPn	53 52.70	-0.3
ELL	1.07	154	iPn	53 54.20	0.6
ALT	1.47	24	ePn	54 00.00	0.0
IZM	1.77	293	ePn	54 04.30	0.0
KCT	2.14	344	ePn	54 17.20	0.4
BNT	2.86	338	ePn	54 20.40	0.6
S.D. = 0.6		on	8 of	8 obs.	

? FEB 11, 1991 20h 14m 18.23± 0.79s
68.026 N ±32.1km 19.060 W ±20.7km
DEPTH = 10.0km (geophysicist)
4.5mb (3 obs.)
ICELAND REGION (637)

FRB	20.19	282	eP	18 55.00	-0.2
CLL	22.86	121	eP	19 21.00	-1.3
	2.1s	50.00nm		4.7mb	
MOX	23.00	124	eP	19 25.00	1.3
YKA	36.52	309	eP	21 24.70	-0.2
	1.0s	1.30nm		3.7mb	
FFC	38.60	293	ePc	21 42.80	0.3
	1.3s	21.00nm		4.7mb	
FBA	42.48	330	(P)	22 14.50	0.1
S.D. = 1.1		on	6 of	6 obs.	

? FEB 11, 1991 21h 50m 55.02± 1.19s
23.643 S ±22.7km 115.565 W ±18.8km
DEPTH = 10.0km (geophysicist)
4.7mb (3 obs.) 4.4Msz (1 obs.)
EASTER ISLAND CORDILLERA (684)

LPB	44.98	90	eP	59 13.00	0.0
Z	24s	0.39um		4.3MszX	
			LR	12 08.00	
CNCB	45.00	90	P	59 13.30	-0.1
ZOBO	45.03	90	Pc	59 13.70	0.1
	1.3s	11.83nm		4.7mb	
Z	22s	0.47um		4.4Msz	
			S	06 22.00	
			LR	12 24.00	
SIV	51.58	92	eP	00 04.00	0.1
ANMO	58.90	9	P	00 56.00	-0.8
TNP	61.42	359	P	01 14.00	0.1
CMB	61.52	356	ePc	01 15.30	0.9
GOL	63.73	9	P	01 28.40	-1.0
WDC	64.22	354	eP	01 31.70	-0.5
SES	73.82	3	eP	02 32.00	0.7
FFC	78.91	8	eP	03 01.00	1.1
	1.1s	15.00nm		4.9mb	
YKA	85.84	0	eP	03 35.20	-0.3
	0.9s	3.80nm		4.6mb	
KMI	145.16	280	ePKP	10 35.00	-0.3
CHG	147.53	268	ePKP	10 44.60	5.6X
GUN	160.23	287	PKP	11 00.00	3.4X
S.D. = 0.7		on	13 of	15 obs.	

FEB 11, 1991 22h 10m 56.81± 0.88s
43.159 N ± 6.4km 26.025 E ± 7.7km
DEPTH = 10.0km (geophysicist)
BULGARIA (359)

PVL	0.51	277	iPd	11 07.00	-0.1
			Sg	11 16.00	
JMB	0.80	149	ePg	11 12.00	-0.4
			iSg	11 23.00	
DIM	1.17	198	iPd	11 19.00	0.4
			Sg	11 37.00	
PLD	1.44	223	iPgc	11 22.00	-0.9
			iSg	22 43.00	
PGB	1.50	247	eP	11 29.00	5.2X
			Sg	11 46.00	
KDZ	1.57	197	iP	11 26.00	1.2
			iS	11 48.00	
RZN	1.76	214	eP	11 28.00	0.3
			Sg	11 52.00	
VTS	2.15	256	iP	11 34.00	0.7
			iS	12 03.00	
ALN	2.26	180	ePd	11 38.46	3.7X
			eS	12 10.22	
MMB	2.31	228	eP	11 36.00	0.4
			eS	12 14.00	
MLR	2.33	359	eP	11 36.00	0.1
SRS	2.73	222	iPc	11 40.06	-1.4
			i	11 47.42	
KNT	3.06	230	ePc	11 45.86	-0.3
			eS	12 35.02	
VAY	3.15	236	ePn	11 55.70	8.3X
S.D. = 0.8		on	11 of	14 obs.	

FEB 11, 1991 22h 17m 36.96± 0.74s
23.814 N ± 5.6km 121.671 E ± 7.9km
DEPTH = 10.0km (geophysicist)

4.3mb (2 obs.)
TAIWAN (244)
ML 4.4 (BJI).

TWD	0.27	345	iPd	17	43.20	0.5
			eS	17	46.70	
TWF1	0.57	217	ePc	17	49.00	0.4
			eS	17	57.90	
TWC	0.81	12	iPc	17	53.60	1.0
			eS	18	05.80	
TWQ	0.89	301	ePc	17	55.10	1.0
			eS	18	08.00	
TWK	1.21	244	iPd	18	01.00	1.4
			eS	18	18.70	
TWZ	1.28	356	eP	18	01.40	0.7
ANP	1.37	354	eP	18	04.00	1.8
QZH	3.02	292	Pn	18	24.90	-0.8
			Sn	19	00.50	
SSE	7.27	357	P	19	25.00	-0.7
Z	10s		0.60um			
E	12s		0.30um			
GZH	7.68	266	eP	19	30.50	-1.1
			eS	20	54.00	
NJ2	8.58	344	Pd	19	43.00	-1.0
			sP	19	59.50	
			S	21	16.50	
GYA	13.85	284	P	20	55.40	-0.3
			S	23	23.40	
XAN	15.10	315	eP	21	12.00	0.0
TIY	15.95	332	eP	21	23.00	-0.1
Z	10s		0.60um			
GTA	24.16	315	eP	22	53.00	-1.3
	1.0s		10.00nm			4.4mb
GUN	32.39	285	P	24	00.00	-9.5X
WB2	45.22	163	eP	25	57.00	0.8
INK	73.40	22	ePd	29	09.50	-1.2
YKA	83.14	23	eP	30	03.20	-0.9
	0.8s		1.70nm			4.3mb

S.D. = 1.0 on 18 of 19 obs.

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* FEB 11, 1991 22h 22m 11.37± 0.99s
24.512 N ±15.1km 123.391 E ±11.4km
DEPTH = 33.0km (normal)
4.4mb (2 obs.)
SOUTHWESTERN RYUKYU ISLANDS (246)

TWC	1.41	274	ePd	22	35.10	0.2
			eS	22	53.20	
TWG	2.71	232	ePc	22	53.30	-0.3
WB2	45.46	165	eP	30	29.00	-0.2
ASPA	48.96	167	iPd	30	57.20	0.5
	0.4s		8.90nm			5.1mb
YKA	81.88	23	eP	34	28.30	-0.2
	0.8s		0.60nm			3.7mb

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

? FEB 11, 1991 23h 43m 27.08± 0.94s
26.401 N ±17.7km 44.565 W ±17.9km
DEPTH = 10.0km (geophysicist)
4.9mb (11 obs.)
NORTH ATLANTIC RIDGE (403)

FRB	40.49	344	eP	51	07.00	-0.3
SIV	45.09	203	P	51	43.00	-2.4
ZOBO	48.20	211	P	52	15.60	5.0X
	1.3s		11.83nm			4.8mb
Z	22s		0.08um			3.6MszX
			LR	07	20.00	
FFC	50.18	320	iPd	52	24.70	0.0
	0.9s		19.00nm			5.1mb
NB2	50.82	31	P	52	28.50	-1.0
	1.0s		3.60nm			4.3mb
ANMO	53.18	295	P	52	50.00	2.1
	1.5s		77.78nm			5.4mb
ALQ	53.18	295	eP	52	50.00	2.1
	1.7s		24.04nm			4.9mb
BW06	54.66	305	P	52	58.80	0.1
	1.0s		15.50nm			5.0mb
LRM	56.48	309	eP	53	12.40	0.6
EDM	56.73	318	ePd	53	13.50	0.2
YKA	57.74	329	eP	53	17.90	-2.2
	1.0s		3.70nm			4.4mb
NEW	59.42	312	P	53	32.20	0.0
	0.7s		29.20nm			5.5mb
MBC	60.94	345	eP	53	42.00	-0.1
BCAO	63.99	98	iPc	54	05.90	2.6
	0.6s		6.00nm			5.0mb
INK	65.38	336	ePd	54	10.70	-0.8
FBA	71.79	334	P	54	50.30	-1.1
	0.8s		6.90nm			4.8mb
PMR	73.71	331	P	55	02.80	0.2
LWI	76.15	100	iPc	55	22.00	4.3X
SVW	76.70	332	P	55	19.80	0.0
	0.8s		17.24nm			5.2mb

S.D. = 1.4 on 17 of 19 obs.

? FEB 11, 1991 23h 49m 52.22± 0.94s
16.268 N ± 9.3km 61.368 W ± 7.1km
DEPTH = 10.0km (geophysicist)
LEEWARD ISLANDS (92)
ML 1.7 (FDF).

SEG	0.19	316	eP	49	56.40	0.0
			S	49	59.50	
DEG	0.30	81	eP	49	58.48	0.0
			S	50	02.70	
DOG	0.34	226	eP	49	59.26	0.1
PAG	0.38	232	eP	50	00.00	-0.1
			S	50	05.30	

S.D. = 0.1 on 4 of 4 obs.

? FEB 11, 1991 23h 57m 31.34± 1.08s
28.890 S ±22.2km 178.066 W ±32.0km
DEPTH = 33.0km (normal)
KERMADEC ISLANDS REGION (177)

RAO	0.38	160	P	57	40.20	0.0
			S	57	52.00	
WB2	43.99	271	iPd	05	37.60	0.1
NUR	144.88	341	iPKP	17	04.00	-1.9
	0.9s		23.70nm			
NB2	147.25	352	PKP	17	10.80	0.9
	0.5s		1.30nm			
HFS	147.76	349	ePKP	17	11.60	0.9
	0.4s		1.40nm			
BCAO	151.02	216	ePKPd	17	25.00	7.9X
	0.6s		3.00nm			

S.D. = 1.6 on 5 of 6 obs.

? FEB 12, 1991 00h 30m 25.66± 3.93s
3.089 S ±57.0km 80.405 W ±29.1km
DEPTH = 33.0km (normal)
PERU-ECUADOR BORDER REGION (110)

TUNG	2.57	50	iP	31	06.00	-0.2
			S	31	28.00	
VC1	3.15	39	iPd	31	15.00	0.4
			S	31	46.90	
CAYA	3.97	38	P	31	26.20	-0.1
			eS	32	11.60	
COTA	3.98	31	P	31	26.20	-0.2
YKA	70.36	344	eP	41	38.00	0.0
	0.5s		0.20nm			3.4mb

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

? FEB 12, 1991 00h 54m 55.09± 1.06s
16.502 S ±41.6km 69.540 W ±12.3km
DEPTH = 202.6 ± 10.4 km
PERU-BOLIVIA BORDER REGION (118)

ZOBO	1.38	81	iPd	55	30.00	1.1
LPB	1.38	91	iPd	55	28.00	-0.8
			iS	55	52.00	
CNCB	1.53	102	iPd	55	31.50	1.3
			iS	55	56.00	
ARE	1.87	271	iPd	55	32.50	-0.7
			iS	56	00.30	
CCH	3.37	106	Pc	55	50.00	0.0
			S	56	32.70	
SIV	8.15	88	P	56	49.40	-2.0
NNA	8.38	301	iPd	56	54.50	0.2
	0.4s		13.56nm			4.6mb
			eS	58	24.20	
BAO	20.73	91	eP	59	22.00	0.7
KIC	67.98	76	P	05	35.00	0.3

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

FEB 12, 1991 01h 17m 13.31± 0.51s
39.412 N ± 5.0km 27.838 E ± 6.0km
DEPTH = 12.5 ± 4.7 km
TURKEY (366)
MD 3.4 (ISK), 3.3 (ATH).

EDC	0.93	1	iPg	17	31.50	0.6
			iSg	17	44.50	
BNT	0.95	4	iPg	17	32.20	1.1
			iSg	17	44.70	
IZM	1.11	204	iPn	17	33.90	0.0
PRK	1.23	263	ePb	17	36.00	0.1
EZN	1.24	290	iPn	17	37.30	1.2
KHL	1.71	129	iPn	17	43.00	0.0
ALT	1.80	101	ePn	17	45.20	0.8
CIN	1.82	174	eP	17	48.00	3.4X
GBZT	1.85	41	ePn	17	48.00	3.0X
SMG	1.87	205	ePn	17	47.50	2.2
ISK	1.90	29	iPn	17	45.70	0.0
HRT	1.99	44	ePn	17	47.20	0.1
ALN	2.02	318	ePd	17	48.72	1.2
			ic	17	51.48	
			eS	18	18.72	
GPA	2.09	64	ePn	17	49.70	1.1
YER	2.30	171	ePn	17	51.70	0.1
RDO	2.47	315	ePn	17	55.00	1.1
KDZ	2.90	321	iP	18	01.00	1.0
			iS	18	47.00	
DIM	3.16	327	eP	1B	06.00	2.3X
RZN	3.29	315	iPd	18	03.00	-2.8
			(S)	18	58.00	
SRS	3.67	299	ePd	18	14.96	4.0X
BBTK	3.82	82	eP	1B	25.50	12.2X
			eS	19	17.00	
KNT	4.16	296	ePd	18	19.00	1.0
PGB	4.19	320	eP	18	18.00	-0.4
			S	19	26.00	
GRG	4.44	292	iPc	18	27.24	5.3X
OHR	5.65	290	ePn	18	3B.50	-0.6

S.D. = 1.1 on 19 of 25 obs.

? FEB 12, 1991 01h 29m 46.20± 0.83s
31.472 S ±18.2km 68.473 W ±27.8km
DEPTH = 90.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.14	1	iPd	29	59.40	-0.1
CFA	0.24	124	eP	30	00.00	0.2
			S	30	11.70	
RTCB	0.28	267	iPc	30	00.10	0.3
			eS	30	11.10	
RTCV	0.39	188	eP	30	00.20	-0.2
RTRS	1.55	327	iPc	30	12.90	-0.1
			eS	30	33.90	

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

FEB 12, 1991 01h 35m 06.00± 0.53s
6.986 S ± 3.3km 129.777 E ± 5.6km
DEPTH = 121.3 ± 5.0 km
5.3mb (17 obs.)
BANDA SEA (280)

AAI	3.64	334	ePd	36	08.00	6.5X
MTN	5 97	167	eP	36	33.80	0.4
KNA	8.77	186	iPd	37	10.40	-0.9
	0.3s		267.00nm			6.5mb X
			eS	38	42.00	
WB2	13.62	161	eP	3B	10.60	-4.9X
			eS	40	30.60	
TSM	16.14	313	ePd	38	54.90	7.7X
ASPA	17.05	167	iPd	38	56.90	-1.6
	0.4s		163.40nm			5.7mb
Z	18s		0.40um			4.3Msz
			eS	41	57.30	
MBL	17.06	213	eP	38	5B.70	0.1
			eS	41	57.00	
PMG	17.37	99	e(P)	39	02.00	-0.3
KKM	1B.73	313	ePd	39	19.00	0.8
	0.8s		93.80nm			5.2mb
WARB	19.32	189	iPd	39	24.40	0.1
	0.4s		31.00nm			5.0mb
			eS	42	48.00	
NANU	20.70	220	iPc	39	39.70	1.4
	0.3s		9.00nm			4.6mb
			eS	43	24.00	
MEKA	22.26	207	eP	39	55.00	1.2
			eS	44	03.00	
FORR	23.79	184	iPc	40	08.50	-0.1
QLP	23.86	146	eP	40	09.70	0.4
			eS	44	30.00	
BAL	26.50	206	eP	40	34.00	0.1
KLB	26.93	203	eP	40	38.00	0.2
MUN	27.90	205	eP	40	45.50	-1.0
NWAO	28.32	203	eP	40	50.00	-0.3

12d 01h

```
ADE    29.04 165 iPd   40 56.60  -0.2
       0.9s    42.02nm          5.1mb
BRS    29.80 136 iPc   41 02.60  -1.0
                 i     41 21.00
                 i     41 34.00
BFD    32.22 161 ePd   41 26.50   1.8
                 e     47 44.00
TOO    33.63 157 iPd   41 38.10   1.2
       0.6s    13.00nm          4.9mb
KHT    37.74 305 eP    42 12.90   1.1
SSE    38.75 348 Pc    42 21.00   0.9
       1.0s    59.00nm          5.3mb
BDT    38.79 309 iPc   42 20.20  -0.4
       0.7s   133.20nm          5.8mb
CHG    39.77 311 iPc   42 29.90   1.2
       1.0s    88.50nm          5.5mb
GYA    40.10 327 P     42 32.00   0.5
WHN    40.14 339 Pc    42 33.00   1.5
       1.0s    50.00nm          5.3mb
NJ2    40.19 346 Pc    42 33.00   1.0
CD2    45.17 328 eP    43 12.00  -0.5
XAN    45.33 335 iPc   43 12.80  -0.9
       0.8s    70.00nm          5.5mb
YAMJ   45.93  11 eP    43 19.20   0.9
OFUJ   47.14  13 eP    43 28.20   0.4
TIY    47.32 341 Pc    43 29.20  -0.2
BJI    48.45 346 eP    43 38.00   0.1
       1.0s    71.00nm          5.4mb
SNY    48.91 354 Pc    43 41.00  -0.4
       0.8s    17.00nm          4.9mb
LZH    49.29 332 iPc   43 45.50   0.8
       1.4s    93.00nm          5.5mb
                 pP    44 07.00  88kmX
                 sP    44 22.50
HHC    50.46 342 P     43 53.40  -0.1
CN2    50.70 356 Pd    43 54.40  -0.6
MDJ    51.36 360 eP    44 00.00   0.0
GTA    53.85 331 iPc   44 19.00   0.2
       0.8s    50.00nm          5.5mb
                 sP    45 02.70
GUN    54.78 311 Pc    44 25.80  -0.2
PKI    54.95 311 P     44 26.40  -0.8
KKN    55.16 311 P     44 28.00  -0.6
DMN    55.20 311 P     44 28.00  -0.9
GKN    55.76 311 P     44 32.40  -0.4
GBA    55.84 292 P     44 32.00  -1.4
HYB    56.11 296 eP    44 34.00  -1.4
NDI    61.80 308 iPc   45 12.50  -1.9
WMQ    63.26 327 iPc   45 24.20   0.3
       2.0s   300.00nm          5.9mb
QUE    70.61 305 eP    46 10.80   0.2
FBA    93.07  25 P     48 05.00  -1.8
INK    98.93  22 ePd   48 33.00  -0.3
MBC   101.65  13 ePdiff48 45.50   0.1
       0.5s     2.00nm          5.1mb
YKA   107.84  26 ePKP  53 19.00  -1.2
       0.6s     0.40nm
MEM   116.40 324 PKP   53 37.00   0.2
BSF   116.96 321 ePKP  53 37.70  -0.5
       0.6s     4.50nm
SNF   117.45 324 PKP   53 38.40  -0.5
LPG   117.80 318 ePKP  53 40.00  -0.1
       0.5s     4.00nm
LPL   117.81 318 ePKP  53 39.90  -0.2
       0.5s     5.45nm
LOR   119.02 321 ePKP  53 41.80  -0.2
       0.5s     1.80nm
LBF   119.05 321 ePKP  53 42.00  -0.1
       0.5s     2.90nm
SMF   119.27 320 ePKP  53 42.70   0.2
SSF   119.32 321 ePKP  53 42.60   0.0
       0.5s     3.65nm
AVF   119.52 321 ePKP  53 42.70  -0.2
       0.4s     1.15nm
BGF   119.94 320 ePKP  53 43.90   0.1
       0.5s     6.90nm
MAF   120.25 320 ePKP  53 44.30  -0.1
TCF   120.45 320 ePKP  53 44.90   0.1
       0.6s     2.70nm
LSF   120.89 321 ePKP  53 45.30  -0.3
       0.6s     3.60nm
FLN   121.00 324 ePKP  53 45.60  -0.1
CAF   121.09 319 ePKP  53 46.50   0.4
       0.6s     2.70nm
ALQ   121.48  53 ePKP  53 45.50  -1.8
LPF   121.67 323 ePKP  53 47.10   0.1
       0.7s     6.60nm
LPO   121.76 319 ePKP  53 47.80   0.5
MFF   121.79 322 ePKP  53 47.30   0.1
       0.5s     5.85nm
LFF   121.94 319 ePKP  53 48.20   0.6
       0.6s     3.60nm
EPF   122.99 318 ePKP  53 50.60   0.8
       0.5s     2.20nm
KIC   134.83 272 PKP   54 13.30   0.1
ARE   148.60 138 ePKP  54 43.00   5.4X
BMA   149.91 191 ePKP  54 45.00   5.8X
                 e     54 51.40
VAO   150.03 186 ePKP  54 42.80   3.4X
CNCB  150.55 144 PKP   54 43.00   2.1
CCH   151.13 147 PKP   54 49.50   8.1X
SIV   154.77 155 PKP   54 46.50   0.3
      S.D. = 0.8  on  77 of  84 obs.
-------------------------------------
*  FEB 12, 1991  02h 15m 57.98± 0.96s
   31.070 S ±10.6km   69.573 W ±12.4km
   DEPTH = 110.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA     (137)

RTCB    0.78 122 iPc   16 17.20  -0.2
                 eS    16 33.00
RTRS    0.90   6 iPd   16 18.50   0.1
RTLL    0.98 106 iPd   16 19.00  -0.3
RTCV    1.19 132 ePd   16 21.90   0.4
CFA     1.26 115 iPd   16 22.50   0.1
                 eS    16 40.20
PEL     2.27 204 eP    16 35.00  -0.1
                 iS    17 02.50
      S.D. = 0.3  on   6 of   6 obs.
-------------------------------------
*  FEB 12, 1991  03h 23m 34.24± 2.16s
   36.764 N ±12.0km   71.142 E ±15.9km
   DEPTH = 190.8 ± 22.7 km
   4.3mb (  6 obs.)
 AFGHANISTAN-USSR BORDER REGION  (717)

NDI     9.54 146 iPc   25 48.50   0.0
       0.5s    49.30nm          5.1mb
GKN    14.35 124 P     26 50.20   0.1
KKN    14.92 123 P     26 57.00  -0.2
DMN    14.92 124 P     26 57.40   0.1
PKI    15.15 123 P     27 00.00  -0.2
GUN    15.25 121 P     27 01.20  -0.3
HYB    20.35 159 eP    27 59.10   1.7
GBA    23.74 165 P     28 30.00  -0.3
                 S     33 10.00
HFS    42.93 322 eP    31 15.00  -0.3
       0.6s     5.80nm          4.3mb
NB2    44.24 323 P     31 25.10  -0.8
       0.7s     5.10nm          4.2mb
MBC    67.07   3 ePc   34 09.00   0.8
       0.7s     6.00nm          4.5mb
INK    73.63   9 eP    34 48.00   0.3
FBA    74.18  16 P     34 51.90   0.9
YKA    80.98   3 eP    35 28.10   0.0
       0.5s     1.20nm          3.9mb
ASPA   84.31 125 eP    35 44.20  -1.6
       0.5s     3.80nm          4.4mb
      S.D. = 0.8  on  15 of  15 obs.
-------------------------------------
&  FEB 12, 1991  03h 29m 38.94s
   61.778 N        150.650 W
   DEPTH =  52.3km
 SOUTHERN ALASKA                 (  2)
      <AEIC>.

SUA     0.32 188 iP    29 48.70   0.0
                 eS    29 56.75
PWA     0.39 109 iP    29 48.98  -0.2
                 eS    29 57.87
SKT     0.46 296 iP    29 49.34  -0.7
                 eS    29 58.12
CUT     0.65  16 iP    29 51.54  -0.7
                 eS    30 01.64
PLRM    0.75 104 eP    29 52.42  -1.1
                 eS    30 03.89
PMS     0.75 135 eP    29 53.27  -0.3
                 eS    30 05.11
NCG      .81 243 eP    29 53.53  -1.0
                 eS    30 05.81
GHO     0.82  90 iP    29 53.95  -0.6
                 eS    30 06.36
CRP     0.89 235 eP    29 55.25  -0.3
                 eS    30 07.98
SPU     0.90 229 eP    29 54.94  -0.7
                 eS    30 07.59
BGL     0.98 239 eP    29 56.30  -0.5
CKL     1.00 235 eP    29 56.17  -0.8
                 S     30 10.17
NKA     1.08 196 eP    29 59.11   1.2
KNK     1.11 108 eP    29 57.88  -0.6
                 eS    30 12.61
SLKM    1.29 171 eP    30 00.23  -0.8
                 eS    30 17.42
HUR     1.29  21 iP    30 00.51  -0.5
                 eS    30 17.22
RDT     1.48 216 iP    30 02.70  -0.9
RDN     1.63 220 eP    30 04.91  -0.9
                 eS    30 26.30
REF     1.63 218 eP    30 05.22  -0.7
                 eS    30 26.15
NCT     1.65 223 eP    30 05.34  -0.7
                 eS    30 26.56
RSO     1.67 219 eP    30 05.72  -0.7
RS2     1.67 219 eP    30 05.78  -0.7
TRF     1.69   6 eP    30 05.86  -0.8
RED     1.71 218 iP    30 06.13  -0.8
GLI     1.94 116 eP    30 07.13  -2.9
KNIM    2.02 134 eP    30 08.48  -2.6
VZW     2.10 108 eP    30 10.49  -1.8
MCK     2.11  21 eP    30 11.69  -0.8
TOA     2.14  79 eP    30 11.84  -1.1
VLZ     2.17 105 eP    30 11.07  -2.2
KLU     2.28  95 eP    30 12.78  -2.1
CNPM    2.28 188 eP    30 15.26   0.4
SVW     2.48 256 eP    30 15.66  -2.1
PAX     2.69  61 eP    30 20.51  -0.3
      34 obs. associated
-------------------------------------
%  FEB 12, 1991  04h 11m 15.03± 2.84s
   44.768 N ± 8.8km    8.847 E ±27.2km
   DEPTH =  33.0km  (normol)
 NORTHERN ITALY                  (545)
      ML 2.4 (GEN).

PCP     0.31 224 P     11 23.53   0.5
                 S     11 29.38
CKI     0.53 230 Pc    11 27.80   1.7
                 eSg   11 34.40
FIN     0.72 220 P     11 28.56  -0.2
                 S     11 37.58
ROB     0.84 236 P     11 29.91  -0.6
QRX     1.06 325 P     11 33.72   0.0
                 S     11 47.63
IMI     1.10 219 P     11 33.72  -0.5
BHB     1.13 274 P     11 34.74   0.1
                 S     11 48.97
ENR     1.16 243 P     11 33.97  -1.1
                 S     11 48.20
STV     1.21 245 P     11 35.22  -0.5
                 S     11 49.61
PZZ     1.27 259 P     11 37.38   0.6
      S.D. = 0.9  on  10 of  10 obs.
-------------------------------------
?  FEB 12, 1991  04h 24m 52.53± 2.21s
   31.568 S ±18.3km   68.078 W ±38.1km
   DEPTH =  90.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA     (137)

CFA     0.14 254 iPc   25 05.80   0.0
                 eS    25 16.50
RTLL    0.41 305 iPc   25 06.80  -0.1
RTCV    0.49 233 ePc   25 07.60   0.1
RTCB    0.62 277 e(P)  25 08.50  -0.1
RTRS    1.83 319 ePd   25 23.10   0.1
      S.D. = 0.2  on   5 of   5 obs.
-------------------------------------
*  FEB 12, 1991  04h 27m 04.54± 0.72s
   51.212 N ±17.7km  178.523 W ± 7.8km
   DEPTH =  33.0km  (normol)
   4.8mb (  7 obs.)
 ANDREANOF ISLANDS, ALEUTIAN IS. (  7)

ADK     1.33  59 iPc   27 28.10   1.2
SVW    16.06  43 eP    30 52.50   3.2X
RSO    17.07  47 eP    31 05.00   2.8X
SLKM   18.27  48 eP    31 17.00   0.2
IMA    19.50  31 eP    31 31.60   0.0
       1.2s    12.10nm          4.1mb
                 e     31 34.30
FBA    20.97  38 e(P)  31 46.50  -0.3
```

		i	31 49.90		
MBC	33.70	22 eP	33 43.50	-0.5	
YKA	35.22	46 eP	33 56.40	-0.9	
	0.5s	0.60nm		3.8mb X	
BW06	46.19	72 eP	35 27.50	-0.5	
	0.8s	3.57nm		4.4mb	
PV09	49.03	77 eP	35 50.00	-0.3	
GOL	50.56	73 eP	36 02.50	0.5	
	0.6s	2.60nm		4.4mb	
GUN	72.08	292 P	38 28.28	0.5	
	0.4s	87.00nm		6.1mb X	
KKN	72.52	293 P	38 30.64	0.5	
	0.6s	33.00nm		5.5mb	
PKI	72.61	292 P	38 30.96	0.1	
	0.6s	22.00nm		5.3mb	
GKN	72.73	293 P	38 31.64	0.3	
	0.6s	35.00nm		5.5mb	
DMN	72.76	293 P	38 31.98	0.4	
GBA	88.09	289 Pd	39 51.80	-1.2	
	0.5s	1.30nm		4.5mb	
	S.D. = 0.7	on 15 of 17 obs.			

& FEB 12, 1991 06h 05m 12.55s
59.592 N 152.783 W
DEPTH = 83.0km
SOUTHERN ALASKA (2)
<AEIC>.

AUP	0.40	235 eP	05 25.75	-0.3	
AUH	0.41	236 eP	05 26.34	0.2	
		eS	05 35.20		
AUI	0.42	232 eP	05 25.78	-0.3	
		eS	05 35.12		
XLV	0.56	104 eP	05 26.83	-0.5	
		eS	05 37.92		
HOM	0.58	83 eP	05 27.28	-0.2	
		eS	05 39.14		
PDB	0.74	286 eP	05 28.12	-1.0	
		eS	05 39.93		
CNPM	0.79	94 iP	05 28.92	-0.7	
		eS	05 41.40		
CDD	0.80	214 eP	05 28.83	-0.9	
RED	0.83	0 iP	05 29.42	-0.7	
		eS	05 42.65		
RSO	0.87	1 iP	05 30.21	-0.6	
		eS	05 43.92		
RS2	0.87	1 eP	05 30.16	-0.6	
		eS	05 44.73		
NNL	0.88	58 eP	05 30.75	0.2	
MCNL	0.89	243 eP	05 29.99	-0.8	
		eS	05 43.37		
REF	0.90	3 eP	05 30.34	-0.7	
		eS	05 44.36		
RDN	0.92	1 eP	05 30.65	-0.7	
		iS	05 44.76		
NCT	0.98	356 eP	05 31.06	-0.8	
		eS	05 45.52		
BRLK	0.98	79 eP	05 30.74	-1.1	
		eS	05 45.14		
RDT	1.00	11 iP	05 31.22	-0.9	
SYI	1.01	168 iP	05 31.35	-0.7	
		eS	05 45.46		
NKA	1.39	33 iP	05 37.78	0.9	
SLKM	1.58	53 eP	05 38.33	-1.1	
		eS	05 57.91		
CKL	1.63	8 eP	05 39.31	-0.8	
		eS	06 00.00		
SPU	1.64	12 iP	05 39.42	-0.8	
		eS	05 59.93		
BGL	1.69	6 eP	05 38.97	-2.0	
SEW	1.76	72 eP	05 41.58	-0.2	
		eS	06 00.48		
NCG	1.84	9 eP	05 42.41	-0.7	
SVW	2.07	318 eP	05 44.81	-1.3	
SUA	2.13	27 eP	05 46.54	-0.4	
PMS	2.30	43 eP	05 48.32	-0.9	
SKT	2.47	14 eP	05 50.96	-0.6	
PWA	2.51	33 eP	05 50.91	-1.2	
MTU	2.62	79 eP	05 52.01	-1.6	
KNIM	2.65	71 eP	05 51.36	-2.6	
PLRM	2.70	40 eP	05 52.65	-1.9	
KNK	2.81	48 eP	05 54.08	-2.2	
GHO	2.90	39 eP	05 55.82	-1.6	
VZW	3.43	62 eP	06 01.79	-3.0	
	37 obs. associated				

FEB 12, 1991 06h 42m 12.64± 1.06s
43.433 N ± 7.1km 5.431 E ± 8.8km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
MD 2.8 (STR).

GELF	0.05	183 Pg	42 14.55	-0.3	
TREF	0.19	350 Pg	42 16.36	-0.6	
PUYF	0.22	63 Pg	42 16.59	-0.8	
BERF	0.22	122 Pg	42 17.56	0.0	
PRAF	0.42	333 Pg	42 21.35	0.2	
VILF	0.47	26 Pg	42 21.62	-0.5	
TAVF	0.49	68 Pg	42 21.92	-0.7	
DOI	1.69	50 P	42 45.20	2.7	
		eSn	43 08.10		
BNI	1.85	28 P	42 49.00	4.2X	
		eSn	43 13.50		
	S.D. = 1.4	on 8 of 9 obs.			

FEB 12, 1991 07h 05m 49.87± 0.49s
44.059 N ± 4.1km 6.711 E ± 4.6km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.3 (LDG), 2.1 (GEN).

STV	0.48	67 P	05 59.19	-0.4	
		S	06 05.77		
FRF	0.50	185 Pg	06 00.00	0.0	
		Sg	06 07.60		
PZZ	0.53	32 P	06 00.00	-0.6	
		S	06 07.04		
ENR	0.54	72 P	06 00.23	-0.5	
		S	06 07.38		
SBF	0.56	110 Pg	06 01.20	-0.1	
		Sg	06 09.40		
LRG	0.66	203 Pg	06 02.80	-0.1	
LMR	0.74	191 Pg	06 04.20	-0.2	
		Sg	06 15.00		
CDR	0.78	241 eP	06 05.10	0.0	
		e	06 16.90		
IMI	0.86	100 P	06 08.07	1.5	
ROB	0.87	74 P	06 06.57	0.0	
BHB	0.88	27 P	06 06.11	-0.6	
FIN	1.09	82 P	06 10.84	0.5	
PCP	1.40	69 P	06 15.46	-0.1	
LPL	1.46	1 Pg	06 17.60	1.2	
PGF	2.25	131 Pn	06 27.20	-0.6	
		Sn	06 53.50		
	S.D. = 0.7	on 15 of 15 obs.			

? FEB 12, 1991 08h 04m 57.82± 0.96s
42.266 N ± 8.9km 13.234 E ± 8.1km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

AQU	0.15	55 P	05 01.00	-0.4	
		eSg	05 05.70		
AZI	0.32	151 P	05 04.60	0.2	
		eSg	05 08.10		
MNS	0.43	286 P	05 06.00	-0.6	
		eSg	05 14.20		
ASS	0.91	333 P	05 16.00	0.8	
	S.D. = 1.1	on 4 of 4 obs.			

? FEB 12, 1991 09h 15m 37.57± 1.40s
39.133 N ± 8.1km 27.702 E ±17.1km
DEPTH = 5.0km (geophysicist)
TURKEY (366)

IZM	0.81	205 ePg	15 53.80	0.0	
		eSg	16 05.80		
BNT	1.23	8 ePn	16 01.00	0.1	
EZN	1.27	303 ePn	16 01.60	0.0	
KGT	1.35	347 ePn	16 02.90	-0.1	
	S.D. = 0.1	on 4 of 4 obs.			

& FEB 12, 1991 09h 39m 33.90s
37.782 N 121.983 W
DEPTH = 6.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.5 (BRK).
Mo=2.7*10**13 Nm (BRK).

BKS	0.22	295 iPc	39 38.40	0.0	
		iS	39 42.10		
BRK	0.24	293 iPc	39 38.60	-0.2	
		iS	39 42.70		
ZSP	0.27	307 iPc	39 39.40	0.0	
		iS	39 44.20		
PCC	0.42	228 iPc	39 41.90	-0.5	
		iS	39 47.90		
MHC	0.52	148 iPd	39 44.30	0.0	
		iS	39 52.40		
ARN	0.56	140 ePc	39 44.90	-0.3	
GCC	0.75	181 eP	39 48.00	-0.9	
NWRM	0.98	314 eP	39 51.70	-1.2	
SAO	1.10	157 iP	39 53.50	-1.5	
CMB	1.29	78 ePd	39 56.60	-1.6	
		iS	40 13.50		
LLA	1.43	144 eP	40 00.70	0.3	
FRI	1.98	113 e(P)	40 06.40	-1.8	
	12 obs. associated				

FEB 12, 1991 09h 54m 58.39± 0.20s
40.816 N ± 2.5km 28.878 E ± 2.2km
DEPTH = 10.0km (geophysicist)
4.8mb (43 obs.) 4.6Msz (6 obs.)
TURKEY (366)
ML 5.0 (ATH). MD 4.7 (THE), 4.5 (ISK). A few people injured slightly and minor damage in the Istanbul area. Felt at Bolikesir, Bursa and Kutahya.

ISK	0.28	29 iPg	55 04.00	-0.3	
ITU	0.31	20 ePg	55 05.00	0.2	
GBZT	0.43	93 iPgc	55 07.00	-0.2	
HRT	0.60	89 iPg	55 09.00	-1.5	
BNT	0.86	238 iPg	55 15.50	0.5	
EDC	0.90	239 iPg	55 16.50	0.8	
GPA	1.21	115 iPn	55 20.50	-0.5	
KGT	1.25	254 iPn	55 22.40	0.7	
ALT	2.00	151 iPn	55 31.70	-1.0	
ALN	2.15	273 iPc	55 34.14	-0.6	
		eS	56 01.59		
EZN	2.19	244 iPn	55 35.50	0.2	
JMB	2.38	315 iP	55 39.00	0.9	
PRK	2.54	233 eP	55 40.00	-0.3	
RDO	2.55	279 eP	55 40.30	-0.1	
IZM	2.72	208 iPn	55 42.30	-0.6	
KDZ	2.74	289 iP	55 43.00	-0.2	
		iSg	56 29.00		
DIM	2.80	297 iPc	55 43.00	-1.0	
		iS	56 15.00		
PSN	2.91	350 iPc	55 45.00	-0.5	
BBTK	3.12	107 iPgd	55 48.00	-0.7	
		iSg	56 40.00		
RZN	3.26	2B7 iPc	55 50.00	-0.7	
		iSg	56 42.00		
CIN	3.27	191 ePn	55 50.00	-0.7	
PLD	3.39	294 iP	55 52.00	-0.4	
		eS	56 54.00		
PVL	3.57	313 iP	55 55.00	0.1	
		iSg	56 55.00		
BCK	3.61	158 iPn	55 54.80	-0.7	
YER	3.71	187 iPn	55 56.40	-0.6	
KAS	3.74	80 ePn	55 57.30	-0.1	
		iSg	56 36.00		
TLB	3.82	351 ePd	55 58.00	-0.5	
PGB	3.93	298 iPc	56 00.00	-0.1	
		eS	57 02.00		
MMB	3.96	283 ePc	56 00.00	-0.5	
		eS	56 58.00		
SRS	4.01	276 ePc	56 00.64	-0.6	
		eS	56 47.52		
PAIG	4.07	259 iPc	56 01.68	-0.3	
BUC1	4.11	330 eP	56 00.00	-2.5	
ELL	4.14	168 iPn	56 02.50	-0.7	
PLG	4.16	266 eP	56 02.50	-0.8	
CFR	4.40	353 eP	56 08.00	1.3	
KKB	4.49	285 P	56 08.00	0.0	
THE	4.50	270 ePd	56 07.48	-0.6	
		eS	56 59.64		
KNT	4.54	276 ePd	56 07.40	-1.3	
APE	4.56	216 eP	56 10.00	0.9	
VTS	4.60	295 iPc	56 09.00	-0.7	
		iSg	57 26.00		
ARG	4.63	188 eP	56 11.50	1.5	
ISR	4.65	339 eP	56 12.00	1.7	
KSL	4.72	173 eP	56 11.50	0.2	
VAY	4.79	278 iPn	56 12.00	-0.4	
		i	56 16.60		
		iSn	57 16.70		
		i	57 26.40		
		iSg	57 30.50		

12d 09h

			LQ	57	42.00						e	57	46.10			LMR		16.79	286	eP	58	56.60	1.6
			LR	57	45.40						e	59	50.00					1.5s	141.00nm			4.9mb	
BRD	4.88	345	eP	56	17.00	3.4X	ZST	11.18	315	e(P)	57	42.00	0.8		RSL		16.91	294	P	59	00.17	3.5X
ATH	4.90	236	eP	56	13.00	-0.9					e	58	35.00			TNS		17.08	310	ePn	59	02.80	4.1X
GRG	4.91	274	ePc	56	13.80	-0.2					e	01	11.50			CDF		17.12	304	eP	59	00.40	1.2
LIT	4.93	264	ePc	56	12.68	-1.5					e	02	02.00					1.5s	141.00nm			4.9mb	
			eS	57	08.88		SDI	11.38	279	P	57	49.00	5.0X		BSF		17.26	301	eP	59	02.40	1.4
MLR	5.14	336	eP	56	17.50	0.2	RIY	11.52	298	eP	57	55.50	9.6X		HAU		17.59	302	eP	59	05.80	0.7
DRA	5.15	320	ePd	56	17.00	-0.3	VKA	11.64	314	e(P)	57	59.00	11.5X		MEM		18.67	309	P	59	20.30	2.1
VRI	5.29	343	ePd	56	17.50	-1.8		3.0s	291	.00nm					ENN		18.78	310	eP	59	21.50	1.9
AGG	5.34	253	eP	56	18.10	-2.1					i	58	02.40					0.9s	16.00nm			4.2mb	
CVO	5.38	339	iPd	56	20.00	-0.6					i	59	47.00			WTS		18.80	314	eP	59	21.00	1.1
KAP	5.43	195	eP	56	20.80	-0.5					i	00	15.90			LBF		18.93	297	eP	59	21.10	-0.5
KVT	5.43	85	iPn	56	20.80	-0.7					i	01	21.10					1.4s	61.00nm			4.6mb	
KZN	5.44	267	eP	56	20.50	-1.0					LR	03	00.00			SMF		18.97	296	eP	59	21.80	-0.3
FNA	5.69	272	eP	56	24.10	-1.0	AZI	11.66	281	P	57	50.00	2.2					1.5s	67.90nm			4.7mb	
EVR	5.76	253	eP	56	25.50	-0.6	LJU	11.66	301	e(P)	57	31.00	-16.8X		LOR		19.06	298	eP	59	22.60	-0.6
TNR	5.89	327	ePc	56	26.00	-1.7					e	57	50.00					1.5s	75.75nm			4.7mb	
NPS	6.11	206	eP	56	32.80	1.8					eS	00	13.00			SSF		19.26	297	eP	59	25.00	-0.7
CLO	6.16	316	ePc	56	47.50	15.9X	AOU	11.69	283	Pd	57	51.70	3.4X					1.3s	36.10nm			4.5mb	
VLI	6.19	231	eP	56	30.20	-1.8	VOY	12.07	301	e(P)	57	47.50	-6.0X		AVF		19.32	297	eP	59	24.20	-2.2
LSK	6.35	267	ePn	56	34.50	0.1	ARV	12.13	288	P	57	55.50	1.4					1.5s	73.10nm			4.7mb	
			iSn	57	46.00		MNS	12.23	283	P	57	59.00	3.5X		DOU		19.32	307	Pc	59	26.80	0.4
PTT	6.38	344	eP	56	35.00	0.4	ASS	12.29	286	Pd	57	58.30	2.0					0.5s	6.90nm			4.2mb	
GZR	6.39	318	eP	56	33.00	-1.9	RSM	12.54	290	Pd	58	02.50	2.9X		BGF		19.63	296	eP	59	29.30	-0.7
PHP	6.42	281	iPnd	56	35.10	-0.2	KMR	12.77	309	e(P)	58	04.00	1.3					0.9s	35.20nm			4.7mb	
			iSn	57	36.10						i	58	28.00			SNF		19.65	308	P	59	27.70	-2.4
IAS	6.45	352	eP	56	36.00	0.4	KBA	12.82	304	e(P)	58	02.00	-1.5			UCC		19.71	309	P+	59	26.00	-4.7X
PPCY	6.53	154	e(P)	56	36.50	-0.3		2.5s	214	.00nm			5.9mb X			DBN		19.75	313	eP	59	32.00	0.9
VAM	6.54	216	eP	56	38.50	1.5					i	58	15.90				Z	12s	3.60um				
IGT	6.67	262	ePd	56	40.32	1.5					i	02	21.20						eS	03	17.00		
DEV	6.68	321	iPd	56	45.00	6.1X					i	03	09.90			MAF		19.79	295	eP	59	29.80	-1.8
TPE	6.77	268	ePn	56	43.20	2.9X	CRE	12.86	288	P	58	06.70	2.7					1.9s	281.85nm			5.2mb	
			iSn	57	51.50		SFI	12.97	289	P	58	05.90	0.6			NUR		19.89	354	iP	59	31.50	-1.0
BERA	6.78	272	iPnd	56	42.20	1.9	FVI	12.99	302	Pd	58	07.60	2.0					0.8s	42.50nm			4.8mb	
			iSn	57	59.60		PGD	13.06	289	P	58	08.50	1.8						i	59	44.20		
BCI	6.78	286	iPnd	56	39.20	-1.2	KSP	13.30	323	eP	58	08.00	-1.7						e	03	12.00		
CSS	6.82	148	e(P)	56	37.50	-3.5X					e	01	52.50						e	04	22.00		
TIR	6.83	277	iPn	56	46.00	5.0X	FIR	13.38	289	e(P)	58	09.00	-1.7						e	05	20.00		
			iSn	57	56.50						i(S)	02	16.00			CAF		20.04	291	eP	59	32.60	-1.7
SRN	6.85	265	ePn	56	43.20	2.0	CTI	13.56	298	Pd	58	17.80	4.5X					1.9s	186.20nm			5.1mb	
			iSn	58	01.20		PRU	13.60	317	eP	58	12.00	-1.6			TCF		20.04	295	eP	59	32.60	-1.7
PVY	6.90	288	iPnd	56	43.03	0.9		Z	10s	5.10um						UPP		20.32	344	eP	59	36.20	-0.8
LACI	6.96	280	iPnc	56	47.40	4.5X		N	18s	5.00um									iS	03	16.00		
			iSn	58	27.90			E	17s	4.10um						RJF		20.44	292	eP	59	37.50	-1.0
IVA	7.01	290	iPnd	56	43.38	-0.3					e	59	09.30				Z	21s	1.63um			4.4Msz	
			iSn	57	55.37						S	00	49.00			LPO		20.66	290	eP	59	40.40	-0.3
BZS	7.15	315	ePc	56	47.00	1.5	KHC	13.63	313	P	58	14.00	-0.1					1.7s	374.95nm			5.5mb	
SDA	7.15	283	ePn	56	46.00	0.5		Z	13s	4.50um						LFF		20.98	291	eP	59	42.20	-1.8
ULC	7.33	282	iPnc	56	50.71	2.6		N	15s	4.00um								1.8s	319.35nm			5.4mb	
			iSn	58	09.94			E	15s	3.00um						KAF		21.38	357	eP	59	46.00	-1.9
BEO	7.37	306	ePn	56	45.00	-3.6X					e	58	21.40					0.9s	82.30nm			5.1mb	
	1.5s	2.15nm			4.1mb		TAB	13.76	96	eP	58	20.00	4.0X			MFF		21.69	295	eP	59	49.30	-1.9
			i(Sg)	58	55.00		MME	13.83	290	Pd	58	18.50	1.6					1.2s	56.55nm			4.9mb	
TTG	7.38	286	iPnd	56	49.78	1.0	BDI	13.88	290	P	58	19.00	1.5			SLL		21.91	339	eP	59	51.20	-2.0
			iSn	58	09.84		OGA	14.22	301	eP	58	31.90	9.9X					0.6s	2.80nm			3.9mb	
PLE	7.49	293	iPnc	56	51.30	0.9	SQTA	14.22	303	i(P)	58	20.40	-1.6			LDF		21.93	300	eP	59	51.50	-2.1
			eSn	58	05.50			1.8s	136	.00nm			5.4mb					1.1s	56.15nm			4.9mb	
NKY	7.65	288	iPnc	56	55.70	3.1X					i	58	39.00			FLN		22.20	301	eP	59	54.40	-1.8
BDV	7.68	284	iPnd	56	57.11	4.1X					i	58	59.60					0.7s	16.55nm			4.6mb	
			iSn	58	16.51		BRG	14.44	319	eP	58	22.20	-2.5				Z	22s	2.15um			4.5Msz	
HCY	7.94	285	iPnd	56	58.75	2.1		2.0s	85	.00nm			5.0mb			GRR		22.38	300	eP	59	56.60	-1.4
			iSn	58	22.01						eS	01	12.00					1.0s	32.00nm			4.7mb	
BRY	7.99	289	iPnd	56	57.93	0.5	FUR	14.53	306	iPc	58	34.40	8.5X			LPF		22.45	299	eP	59	56.30	-2.4
			iSn	58	21.00		OSS	14.74	300	ePd	58	36.80	7.9X					0.9s	29.50nm			4.8mb	
LCI	8.33	270	P	57	02.00	0.0	VDL	15.14	298	ePd	58	41.70	7.7X			NRA0		22.62	338	P	00	18.50	18.2X
BHL	8.75	140	P	57	08.00	0.0	CLL	15.18	319	eP	58	34.00	-0.3						Sn	04	38.00		
			S	59	08.00			2.2s	105	.00nm			4.8mb			NB2		22.96	338	P	00	01.20	-2.5
BRT	8.85	274	P	57	10.00	0.7	GRF	15.25	311	eP	58	38.00	2.8X					1.1s	27.20nm			4.7mb	
ADI	9.24	145	eP	57	14.00	-0.7		Z	14s	6.00um						TOL		25.03	279	eP	00	20.00	-4.0X
UZD	9.43	311	e(P)	57	18.00	0.8	SAX	15.43	301	ePd	58	41.80	3.9X						eS	04	55.00		
HVAR	9.55	288	iPn	57	19.00	0.1	VAI	15.46	296	Pd	58	43.60	5.6X			EKA		25.58	315	P	00	29.00	0.1
PSZ	9.58	321	e(P)	57	19.00	-0.3	MOX	15.52	315	eP-	58	40.00	1.3					1.7s	54.90nm			5.0mb	
TDS	9.66	267	P	57	23.50	3.1X		Z	12s	3.00um						SOD		26.64	358	iP	00	37.40	-1.2
BUD	9.72	317	e(P)	57	24.00	2.8X		N	12s	2.70um									i	00	52.00		
GLH	9.75	144	eP	57	21.00	-0.6		E	12s	2.80um						QUE		32.53	97	eP	01	36.90	5.1X
TIH	9.99	311	eP	57	31.00	6.1X	BRN	15.79	323	eP	58	43.00	0.8			KSH		35.70	76	P	02	02.00	3.1X
SRO	10.30	316	eP	57	30.50	1.3	KER	15.81	108	ePc	58	46.00	3.2X				N	12s	1.80um				
SGO	10.31	273	Pd	57	30.80	1.4	ORO	15.96	294	P	58	49.20	4.6X			BCAO		37.40	197	iPd	02	13.40	0.1
SPC	10.36	327	eP	57	29.00	-1.2	SBF	16.14	288	eP	58	49.30	2.4					0.7s	18.00nm			5.0mb	
DSI	10.61	148	eP	57	32.00	-1.5		1.1s	146	.50nm			5.0mb						i	02	21.10		
ZAG	10.64	302	ePn	57	39.50	5.7X	SLE	16.14	302	ePd	58	47.00	0.2						i	02	45.70		
PTJ	10.69	303	iPnc	57	38.20	3.6X	DIX	16.44	296	ePd	58	55.70	4.9X						i	03	13.40		
DUI	10.89	279	Pd	57	38.80	1.3	FEL	16.48	302	eP	58	53.33	2.1			NDI		41.05	92	eP	02	17.00	3.5X
VBY	10.99	300	ePc	57	44.20	5.5X	FRF	16.70	287	eP	58	55.80	1.9			WMO		42.80	66	eP	03	00.00	2.1
HLW	11.12	169	(P)	57	38.00	-2.4		1.7s	213	.20nm			5.0mb				Z	20s	1.10um			4.7Msz	
KRA	11.16	329	eP	57	39.70	-1.2	BNI	16.79	292	P	59	01.40	6.2X						PP	04	45.50		

eS 09 25.00
POO 44.34 106 eP 03 12.50 1.9
TIC 45.52 231 P 03 18.74 -1.2
KIC 45.58 230 Pc 03 19.38 -1.1
1.0s 15.50nm 4.9mb
LIC 45.86 231 P 03 21.62 -1.0
1.0s 23.50nm 5.1mb
Z 21s 0.50um 4.4Msz
GKN 47.02 88 P 03 31.64 -0.3
DMN 47.58 88 P 03 36.46 0.0
KKN 47.62 87 P 03 37.16 0.4
PKI 47.83 88 P 03 39.62 1.1
1.2s 26.00nm 5.2mb
GUN 48.01 87 P 03 41.00 1.0
GBA 50.16 108 P 03 58.00 1.9
KOD 52.48 111 eP 04 17.10 3.0X
GTA 52.86 67 P 04 18.20 1.7
1.2s 10.00nm 4.6mb
Z 20s 1.00um 4.9Msz
E 19s 1.20um
LZH 57.23 68 eP 04 49.50 1.1
1.4s 38.00nm 5.2mb
Z 22s 1.00um 4.9Msz
N 17s 0.87um
FRB 57.35 328 eP 04 49.00 0.5
BTO 59.26 61 eP 05 04.00 1.6
CD2 59.80 74 eP 05 07.60 1.4
HHC 60.16 60 eP 05 09.00 0.4
Z 15s 1.70um 5.3MszX
SCH 60.82 319 eP 05 18.00 5.3X
MBC 61.46 352 eP 05 16.00 -0.8
1.0s 6.00nm 4.7mb
TIY 62.34 63 eP 05 24.00 0.6
N 15s 0.70um
E 18s 1.00um
S 13 44.00
CHG 63.01 88 eP 05 29.00 1.1
BJI 63.60 59 eP 05 34.00 2.5
1.2s 12.00nm 5.0mb
Z 32s 0.75um 4.7MszX
eS 14 08.00
eSS 18 16.00
GYA 64.37 76 P 05 40.40 3.5X
CN2 67.28 51 eP 05 56.40 1.2
Z 15s 0.90um 5.1MszX
N 13s 0.30um
E 13s 0.20um
epP 06 02.00 18kmX
eS 14 51.00
eSS 19 15.00
NJ2 69.87 65 Pd 06 14.00 2.6
INK 70.40 353 eP 06 15.00 1.0
YKA 72.94 343 eP 06 28.00 -1.3
1.0s 2.70nm 4.3mb
IMA 73.43 1 e(P) 06 32.00 -0.2
FBA 74.59 359 P 06 39.70 0.9
1.0s 4.50nm 4.5mb
FFC 75.98 333 eP 06 52.00 5.1X
0.8s 10.00nm 5.0mb
PMR 77.93 359 e(P) 06 51.80 -5.8X
0.8s 7.76nm 4.8mb
KLU 77.96 357 e(P) 06 51.50 -6.4X
SVW 78.36 2 P 07 04.50 4.4X
0.8s 12.41nm 5.0mb
SES 82.61 335 eP 07 24.00 1.1
S.D. = 1.3 on 183 of 235 obs.

? FEB 12, 1991 10h 53m 50.81± 1.17s
22.430 S ±17.9km 114.672 W ±22.4km
DEPTH = 10.0km (geophysicist)
4.4mb (4 obs.)
EASTER ISLAND REGION (685)

LPB 44.16 91 P 02 02.00 -0.2
LR 14 50.00
CNCB 44.20 91 Pc 02 03.00 0.3
ZOBO 44.21 91 Pc 02 03.70 0.9
1.1s 3.19nm 4.1mb
Z 24s 0.30um 4.1MszX
LR 15 28.00
SIV 50.81 93 P 02 52.70 -1.1
AIA 53.68 156 eP 03 14.90 0.4
ALQ 57.59 8 eP 03 43.00 -0.4
1.0s 3.00nm 4.3mb
ANMO 57.59 8 P 03 44.50 1.1
TNP 60.24 358 P 04 03.00 1.3
GOL 62.41 8 P 04 16.20 -0.3
FFC 77.61 7 eP 05 48.00 -0.5
0.9s 10.00nm 4.9mb
YKA 84.63 0 eP 06 23.80 -1.4
1.1s 3.60nm 4.5mb
S.D. = 1.0 on 11 of 11 obs.

• FEB 12, 1991 11h 27m 05.94± 1.72s
37.191 N ±14.5km 21.572 E ±11.6km
DEPTH = 10.0km (geophysicist)
SOUTHERN GREECE (368)
MD 3.4 (ATH).

ITM 0.28 92 iPgd 27 12.00 0.1
VLI 1.19 113 ePb 27 28.00 -0.1
VLS 1.26 322 ePb 27 28.80 -0.5
EVR 1.73 6 ePg 27 40.00 3.7X
NEO 2.48 31 ePn 27 48.00 1.0
IGT 2.53 338 ePd 27 48.60 0.9
VAM 2.77 129 ePb 27 55.50 4.3X
LIT 2.99 14 ePd 27 57.28 3.0X
PAIG 3.19 31 ePd 27 57.26 0.2
GRG 3.82 9 ePd 28 06.28 0.3
SRS 4.22 21 ePd 28 10.00 -1.8
S.D. = 1.0 on 8 of 11 obs.

FEB 12, 1991 11h 31m 04.01± 0.15s
32.015 S ± 3.3km 179.750 E ± 5.0km
DEPTH = 364.9km (10 depth phases)
5.3mb (31 obs.)
SOUTH OF KERMADEC ISLANDS (179)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 22S, 53C
Centroid Location:
Origin Time 11:31: 9.9 0.3
Lat 31.63S 0.04 Lon 179.66E 0.02
Dep 370.4 1.2 Half-duration 3.0
Moment Tensor; Scale 10**17 Nm
Mrr=-3.26 0.09 Mtt=-0.80 0.15
Mff= 4.07 0.15 Mrt=-2.31 0.11
Mrf= 3.06 0.10 Mtf= 0.85 0.12
Principal Axes:
T Val= 5.17 Plg=20 Azm=270
N 0.45 25 170
P -5.62 57 34
Best Double Couple:Mo=5.4*10**17
NP1:Strike= 36 Dip=34 Slip= -39
NP2: 160 69 -117

RAO 3.41 37 P 32 06.00 -2.6
S 32 46.00
HBZ 5.70 192 P 32 34.20 1.7
0.4s 2340.00nm 6.5mb X
PUZ 6.17 191 P 32 38.90 1.1
eS 33 55.10
NOZ 6.73 192 Pd 32 45.50 1.2
WLZ 6.74 209 Pd 32 49.60 5.2X
TAZ 6.75 202 eP 32 46.80 2.4
UTU 6.80 204 eP 32 49.00 3.9X
WHH 7.35 200 eP 32 51.90 0.3
MOH 7.41 196 eP 32 52.70 0.5
HITZ 7.43 205 eP 32 54.50 2.1
RATZ 7.57 204 eP 32 55.60 1.5
KETZ 7.82 204 eP 32 58.30 1.2
TTH 7.88 197 eP 32 58.10 0.5
NGZ 7.90 204 eP 32 58.70 0.6
CNZ 7.94 204 eP 32 59.50 1.0
PGZ 9.03 197 P 33 10.20 -1.1
0.3s 1930.00nm 6.8mb X
MNG 9.25 201 eP 33 12.00 -1.9
eS 34 58.20
KIW 9.65 202 P 33 16.90 -1.8
MTW 9.74 199 P 33 17.60 -2.1
CAW 9.82 201 eP 33 18.20 -2.5
WDW 9.99 201 eP 33 20.50 -2.2
MRW 10.05 202 eP 33 20.70 -2.7
S 35 15.20
MOW 10.06 200 eP 33 21.10 -2.4
WEL 10.08 202 P 33 25.00 1.3
S 35 14.00
ScS 45 27.00
TCW 10.18 204 P 33 22.30 -2.6
CCW 10.68 203 eP 33 30.00 -0.9
THZ 11.16 207 eP 33 35.60 -1.3
KHZ 11.50 204 P 33 38.70 -2.0
0.4s 1800.00nm 6.9mb X
LTZ 12.28 207 P 33 48.20 -1.9
S 36 02.20
MQZ 12.94 204 eP 33 55.30 -2.6
eS 36 15.60
SVA 13.89 355 ePd 34 05.80 -2.6
eS 36 39.80
VUN 14.00 355 ePd 34 10.50 0.9
NDF 14.35 351 iP 34 11.00 -2.4
KRO 14.64 359 ePd 34 13.80 -2.8
MBU 15.01 356 eP 34 18.50 -2.0
NDE 15.37 358 ePd 34 21.30 -3.1X
MHZ 15.37 209 P 34 24.10 -0.2
MMCZ 15.38 210 eP 34 23.60 -0.8
DZM 15.43 307 iPc 34 26.10 1.1
iS 37 20.00
ScP 42 03.20
TLC 15.56 209 P 34 26.50 0.2
MSZ 15.66 213 eP 34 29.00 1.9
PVC 17.58 321 iPd 34 52.00 4.9X
BKM 17.67 321 iPd 34 52.80 4.7X
AFI 19.62 25 eP 35 05.00 -2.5
eS 38 20.00
RAR 21.20 65 P 35 22.00 -0.6
S 39 37.00
BRS 23.85 274 iPd- 35 50.80 3.4X
i 37 58.50
eS 39 39.00
RIV 24.04 258 eP 35 54.50 5.5X
CNB 25.46 254 iPd 36 06.10 4.1X
0.9s 164.00nm 5.4mb
e 37 19.00
iPcS 42 26.40
RMQ 27.54 274 iPc 36 23.00 2.4
TAU 27.78 238 iPc 36 25.90 3.3X
TOO 28.57 249 iPc 36 33.20 3.6X
0.9s 141.00nm 5.3mb
iPcS 42 34.90
VSG 29.30 316 eP 36 34.00 -2.1
BFD 30.92 250 iPc 36 55.70 5.6X
1.2s 153.00nm 5.2mb
e 38 09.00 396kmX
e 42 44.00
OLP 31.35 271 iPc 36 55.40 1.5
i 42 45.80
STK 32.27 260 P 37 06.00 4.3X
ADE 34.19 254 iPc 37 20.60 2.6
0.9s 176.47nm 5.4mb
PMG 37.64 299 e(P) 37 47.00 0.1
ASPA 41.14 270 iPc 38 16.60 1.1
0.7s 274.40nm 5.6mb
e 39 35.60 408kmX
i 40 35.60
iScP 43 20.40
iS 44 00.60
iScS 47 34.40
e 50 19.80
WB2 42.26 275 iPc 38 25.30 0.7
iS 43 25.60
eS 44 16.00
FORR 43.74 257 iPc 38 37.40 1.2
VNDA 46.30 185 iPc 38 59.10 3.4X
i 43 42.20
WARB 46.39 263 iPc 38 57.00 -0.1
0.4s 32.00nm 4.9mb
MTN 48.38 282 iPd 39 12.20 -0.1
0.3s 57.00nm 5.3mb
KNA 48.91 277 eP 39 17.00 0.6
COOL 49.46 255 eP 39 21.00 0.5
0.3s 6.00nm 4.5mb
KLB 52.01 253 eP 39 39.30 -0.1
0.4s 19.00nm 4.8mb
NWAO 52.04 251 eP 39 38.00 -1.5
MEKA 53.04 259 iPc 39 46.90 -0.1
MUN 53.15 252 eP 39 48.00 0.3
MBL 54.07 266 eP 39 53.50 -1.0
MRWA 54.22 255 eP 39 55.00 -0.5
NANU 57.13 262 iPc 40 16.10 0.1
SPA 58.16 180 iPc 40 26.00 3.2X
1.0s 115.00nm 5.3mb
i 44 34.70
CHJJ 77.74 327 P 42 21.70 -0.9
IIDJ 77.78 326 P 42 22.00 -0.9
MTMJ 78.73 327 P 42 27.60 -0.5
YAMJ 79.03 329 P 42 29.20 -0.3
OFUJ 79.09 331 eP 42 29.30 -0.5
IPM 82.89 280 ePc 42 49.90 -0.2
1.0s 33.90nm 5.1mb
e 44 21.20 400kmX

12d 11h

ADK 83.60 2 eP 42 52.30 -0.3
0.8s 261.70nm 6.1mb
SSE 83.75 313 P 42 53.20 -0.7
1.5s 41.00nm 5.0mb
S 52 40.00
SMY 84.53 357 eP 42 57.00 -0.3
SNG 84.64 282 eP 43 00.80 2.1
eS 52 47.00
NJ2 85.86 312 Pd 43 05.50 1.2
SYP 87.13 46 eP 43 11.00 0.5
PRS 87.52 44 ePd 43 13.30 1.1
GCC 87.63 43 ePd 43 13.50 0.8
PCC 87.73 42 eP 43 14.10 0.9
SAO 87.77 43 ePd 43 13.80 0.4
PRI 87.80 44 ePd 43 14.90 1.2
WHN 87.80 308 eP 43 14.50 0.8
SKS 53 06.00
S 53 24.00
LLA 87.96 44 ePd 43 15.10 0.8
BAR 87.98 49 eP 43 14.00 -0.5
PAS 87.99 47 eP 43 15.00 0.5
MHC 88.05 43 ePd 43 15.80 0.9
epP 44 38.80 354km
BRK 88.06 42 ePd 43 15.50 0.8
BKS 88.08 42 iPd 43 15.70 0.9
0.8s 188.00nm 6.0mb
MWC 88.11 47 eP 43 16.00 0.7
e 44 42.00 369km
PLM 88.29 48 P 43 17.00 0.8
pP 44 41.60 362km
RVR 88.38 48 eP 43 17.00 0.7
PEC 88.45 48 P 43 17.10 0.4
SBB 88.56 47 eP 43 18.00 0.8
SDN 88.64 11 eP 43 17.00 0.0
ISA 88.80 46 eP 43 19.00 0.6
DL2 88.85 318 P 43 19.50 1.1
1.7s 300.00nm 5.9mb
iSKS 53 10.00
S 53 36.00
MDJ 88.89 327 Pc 43 18.50 0.1
1.0s 60.00nm 5.4mb
iSKS 53 08.00
iS 53 35.00
FRI 88.94 44 ePd 43 19.30 0.4
epP 44 44.80 365km
FHC 89.16 39 ePd 43 21.00 1.2
CMB 89.25 43 iPd 43 20.70 0.4
epP 44 46.20 365km
TPC 89.29 48 eP 43 22.00 1.4
GLA 89.41 50 eP 43 23.00 1.8
CLC 89.44 46 eP 43 22.00 0.7
e 44 48.00 368km
GSC 89.59 47 eP 43 23.00 1.0
ORV 89.65 41 ePd 43 22.40 0.3
TIA 89.68 314 Pc 43 22.80 0.5
WDC 89.78 40 iPd 43 23.30 0.6
epP 44 48.90 365km
SNY 89.83 322 iPd 43 23.20 0.4
1.4s 60.00nm 5.3mb
MIN 90.14 41 ePd 43 24.00 -0.5
CN2 90.28 324 iPd 43 25.00 0.1
1.2s 100.00nm 5.6mb
pP 44 51.50 369km
SKS 53 13.00
S 53 47.00
GYA 90.70 301 P 43 28.40 1.0
TNP 91.15 45 P 43 29.20 -0.1
0.8s 50.74nm 5.5mb
pP 44 54.00 361km
BJI 92.74 317 eP 43 37.00 0.8
2.0s 120.00nm 5.6mb
epP 45 04.00 371km
eSKS 53 33.00
eS 54 12.00
TIY 93.53 313 eP 43 41.00 1.0
XAN 93.57 308 Pc 43 41.50 1.2
NNA 94.81 107 eP 43 46.70 0.2
0.9s 8.40nm 4.9mb
RSO 94.87 13 ePd 43 44.50 -1.4
SVW 94.94 12 eP 43 45.30 -0.7
CD2 95.33 303 eP 43 49.40 1.0
SLKM 95.42 14 eP 43 47.30 -0.8
ePP 47 39.80
HHC 95.99 315 eP 43 51.60 0.4
ALQ 96.09 53 ePd 43 51.80 -0.1
1.8s 43.18nm 5.4mb
ANMO 96.09 52 eP 43 51.50 -0.4
1.5s 125.00nm 5.9mb
ePP 47 49.80
PMR 96.63 14 eP 43 53.00 -0.5
1.3s 30.40nm 5.4mb
PNT 97.26 35 eP 43 56.00 -0.6
0.8s 8.00nm 5.0mb
BALM 97.73 18 P 43 58.50 -0.1
NEW 97.81 37 eP 43 58.00 -1.2
0.7s 6.00nm 5.0mb
ePP 48 01.70
LZH 98.15 307 eP 44 00.00 -1.2
1.8s 32.00nm 5.3mb
RND 98.32 14 eP 44 00.30 -0.9
BW06 98.64 45 P 44 02.40 -1.0
CNCB 99.02 116 P 44 07.00 0.8
i 45 52.80 464kmX
LPB 99.09 116 eP 44 06.00 -0.3
ZOBO 99.23 116 P 44 08.30 1.2
0.9s 10.81nm 5.2mb
Z 23s 0.33um 4.8MszX
LR 58 00.00
FBA 99.87 13 eP 44 07.30 -0.8
IMA 99.89 11 eP 44 08.20 -0.1
1.6s 20.50nm 5.3mb
SES 102.26 38 ePdiff44 19.00 -0.2
RSSD 102.72 46 iPdiff44 20.90 -0.7
1.0s 14.91nm 5.6mb
iPP 48 37.80
INK 105.86 16 ePdiff44 34.00 -0.6
GBA 107.43 275 PKPc 48 48.10 -1.5
0.4s 1.10nm
YKA 107.73 26 ePdiff44 42.60 -0.5
0.8s 0.80nm 5.0mb
MBC 114.41 13 ePdiff45 15.50 3.0X
MBC 114.41 13 ePKPd 49 00.40 -0.8
0.8s 26.00nm
PDCR 122.15 134 ePKP 49 17.80 0.1
QUE 123.30 287 iPKPc 49 21.40 1.6
SOB1 123.54 130 ePKP 49 23.30 2.8X
FRB 127.75 32 ePKP 49 14.00 -13.0X
SCH 128.76 43 ePKP 49 28.00 -1.3
pP 52 14.00
KTK1 140.61 347 iPKPd 49 43.79 -7.3X
TRO 140.81 350 ePKP 49 44.32 -7.0X
SOD 141.23 344 iPKP 49 45.20 -7.0X
LOF 142.96 351 ePKP 49 51.23 -3.9X
AKU 144.59 13 iPKPd 49 58.00 0.0
1.0s 264.00nm
i 53 02.40
REY 145.13 16 ePKP 49 58.40 -0.5
KAF 145.38 338 iPKP 49 58.10 -1.3
NSS 146.59 350 iPKPd 50 02.55 1.3
BCAO 147.39 217 iPKPc 50 05.00 0.8
0.4s 58.00nm
i 50 07.60
i 50 35.00
i 51 42.60
AYN 148.68 274 PKP 50 11.40 5.7X
HQL 149.59 274 PKP 50 14.00 6.9X
UPP 149.71 342 iPKPd 50 10.60 4.3X
i 50 17.30
HRI 149.76 282 ePKP 50 13.00 5.6X
PRNI 149.88 276 iPKPc 50 13.70 6.1X
BHL 149.91 283 PKP 50 13.00 5.4X
NB2 150.01 349 PKP 50 05.80 -1.0
ADI 150.16 282 ePKP 50 14.00 6.1X
HFS 150.39 346 ePKP 50 10.80 3.5X
0.6s 110.30nm
HYA 150.54 354 iPKP 50 13.32 5.8X
SUE 150.76 355 iPKPd 50 13.83 6.0X
ASK 151.30 354 iPKPd 50 15.06 6.4X
BER 151.38 354 iPKPd 50 15.21 6.4X
ODD1 151.72 353 iPKPd 50 16.30 6.9X
KMY 152.55 354 iPKPd 50 17.92 7.4X
LIC 153.96 169 PKP 50 15.08 1.3
KIC 154.13 170 PKP 50 15.32 1.3
0.9s 18.50nm
TIC 154.37 169 PKP 50 15.56 1.2
MLR 155.67 311 ePKP 50 25.00 9.6X
KRA 156.53 326 ePKP 50 16.30 0.1
e 50 46.80
SPC 156.96 324 ePKP 50 14.60 -2.4
e 50 48.40
KSP 157.56 332 ePKP 50 17.50 0.1
0.8s 50.00nm
e 50 28.00
ic 50 52.00
e 52 19.60
CLL 158.39 337 iPKP 50 18.50 0.2
2.1s 32.00nm
BRG 158.43 335 iPKP 50 18.20 -0.2
i 50 30.00
i 50 55.40
i 52 29.00
i 53 15.00
ePP 54 34.10
ZST 159.17 326 ePKP 50 19.50 0.2
e 51 00.00
WTS 159.38 348 ePKP 50 19.50 0.2
0.9s 10.00nm
KHC 159.99 333 PKP 50 21.00 0.8
WET 160.25 334 iPKPc 50 20.50 0.0
i 51 04.00
GRF 160.37 337 e(PKP)50 19.00 -1.5
Z 24s 0.10um
DOU 161.58 350 PKP 50 22.20 0.5
ic 51 08.40
KBA 161.71 329 e(PKP)50 27.00 4.8X
0.9s 16.20nm
e 50 58.00
i 51 12.40
e 53 12.00
OGA 162.83 333 iPKPc 50 23.90 0.5
i 51 15.50
LOR 164.45 350 ePKP 50 24.10 -0.5
1.3s 23.45nm
SSF 164.70 350 ePKP 50 24.80 0.0
1.0s 10.00nm
LBF 164.70 349 ePKP 50 25.00 0.1
0.8s 8.05nm
AVF 164.99 350 ePKP 50 24.80 -0.3
SMF 165.05 349 ePKP 50 24.90 -0.3
0.8s 6.70nm
BGF 165.28 352 ePKP 50 25.40 0.1
1.0s 14.00nm
MFF 165.43 360 ePKP 50 25.70 0.3
0.9s 9.85nm
TCF 165.62 353 ePKP 50 25.50 -0.2
1.1s 13.45nm
MAF 165.65 352 ePKP 50 25.40 -0.3
LSF 165.72 355 ePKP 50 25.40 -0.3
0.9s 13.10nm
RJF 166.66 355 ePKP 50 26.60 0.1
CAF 166.98 353 ePKP 50 27.20 0.4
1.0s 8.00nm
LFF 167.07 357 ePKP 50 27.00 0.2
LPO 167.30 355 ePKP 50 27.20 0.2
EPF 168.99 358 ePKP 50 28.90 0.7
1.5s 52.25nm
IFR 175.63 69 iPKPd 50 34.00 2.7
S.D. = 1.2 on 176 of 213 obs.

? FEB 12, 1991 11h 55m 09.37± 1.20s
43.081 N ±25.3km 0.545 W ± 8.1km
DEPTH = 10.0km (geophysicist)
PYRENEES (378)
MD 1.0 (STR).

ESCF 0.02 265 Pg 55 11.29 -0.1
Sg 55 12.92
JAU 0.14 108 Pg 55 12.75 0.0
Sg 55 15.26
ISSF 0.19 254 Pg 55 13.70 0.0
Sg 55 17.50
MADF 0.21 288 Pg 55 14.02 0.0
Sg 55 17.62
S.D. = 0.1 on 4 of 4 obs.

FEB 12, 1991 12h 15m 55.64± 0.54s
36.277 N ± 4.5km 5.696 W ± 6.4km
DEPTH = 10.0km (geophysicist)
STRAIT OF GIBRALTAR (385)
mbLg 3.1 (MDD).

PLAT 0.16 198 eP 16 01.00 1.6
OJEN 0.22 144 eP 16 09.00 8.6X
EJIF 0.25 46 iPgc 16 00.80 -0.2
eSg 16 07.50
GIBL 0.59 339 eP 16 09.00 1.5
LIJA 0.66 20 eP 16 09.00 0.1
EPRU 0.78 [illegible] iPgc 16 12.20 1.3
eSg 16 25.50
MAL 1.13 66 iPnd 16 17.80 1.0
iSg 16 26.20

EVAL	1.55	327	ePn	16 22.40	-0.9
			eSn	16 43.70	
EHOR	1.58	13	ePn	16 23.80	0.1
			eSn	16 47.80	
ECOG	1.98	59	ePn	16 29.90	0.2
			eSn	16 57.00	
AFC	1.98	60	ePn	16 28.90	-0.9
			eSn	16 56.00	
EBAN	2.42	38	ePn	16 36.60	0.7
			eSn	17 07.90	
IFR	2.79	170	iPd	16 40.50	-0.9
			i	17 16.00	
ENIJ	2.88	75	ePn	16 42.10	-0.4
EVIA	3.46	46	ePn	16 50.40	-0.4
			eSn	17 33.50	
EPLA	3.80	356	iPnd	16 54.50	-1.0
			eSn	17 39.00	
GUD	4.52	15	ePn	17 04.50	-1.3
			eSn	17 58.90	
TIO	5.49	194	iP	17 19.00	-0.6
			i	18 21.50	

S.D. = 1.0 on 17 of 18 obs.

? FEB 12, 1991 12h 25m 51.32± 3.55s
42.404 N ±31.8km 24.139 E ±10.7km
DEPTH = 10.0km (geophysicist)
BULGARIA (359)

SRS	1.35	198	iPc	26 16.94	0.8
			eS	26 40.57	
KNT	1.55	217	iPd	26 18.64	-0.4
			eS	26 44.36	
VAY	1.59	228	ePn	26 19.00	-0.6
GRG	1.95	223	ePc	26 25.80	1.0
ALN	2.08	136	ePd	26 26.64	0.1
PAIG	2.50	188	ePc	26 32.06	-0.6
LIT	2.62	209	ePd	26 34.08	-0.3

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

• FEB 12, 1991 12h 40m 32.16± 2.07s
37.561 N ±15.3km 20.578 E ±13.8km
DEPTH = 10.0km (geophysicist)
3.8mb (2 obs.)
IONIAN SEA (399)
ML 4.1 (TIR), 4.0 (THE).

VLS	0.61	1	eP	40 42.80	-1.8
EVR	1.66	35	eP	41 03.50	1.9
IGT	1.98	354	ePc	41 06.08	0.1
			eS	41 26.48	
AGG	2.01	43	eP	41 07.40	0.9
			eS	41 30.01	
VLI	2.06	113	ePn	41 07.00	-0.3
SRN	2.36	349	ePn	41 24.70	13.2X
ATH	2.52	80	eP	41 21.20	7.4X
LSK	2.58	0	ePn	41 13.90	-0.9
			iSn	41 58.10	
NEO	2.71	49	ePn	41 18.00	1.4
TPE	2.77	351	ePn	41 18.00	0.7
			iSn	42 08.00	
KZN	2.89	18	ePn	41 18.00	-1.2
LIT	2.94	30	ePd	41 19.44	-0.4
BERA	3.17	351	ePn	41 24.80	1.8
FNA	3.28	11	eP	41 23.20	-1.4
PAIG	3.39	45	ePd	41 26.84	0.8
OHR	3.55	3	ePn	41 30.00	1.5
			eSn	42 08.50	
			LQ	42 37.10	
GRG	3.67	22	iPc	41 30.54	0.3
TIR	3.82	352	ePn	41 38.00	5.7X
KNT	4.02	26	ePd	41 34.92	-0.2
VAY	4.06	22	ePn	41 38.40	2.8X
PHP	4.12	359	ePn	41 40.20	3.7X
LACI	4.12	351	ePn	41 40.10	3.6X
SRS	4.25	32	ePd	41 38.26	-0.1
SKO	4.46	8	ePn	41 39.50	-1.8
BCI	4.82	355	ePn	41 48.20	1.8
ALN	5.40	50	ePc	41 52.52	-2.1
MLR	8.88	25	eP	42 48.00	4.4X
HFS	23.02	351	eP	45 34.80	-3.2X
	0.8s		4.60nm		4.1mb
NB2	24.23	349	P	45 48.80	-1.0
	0.7s		1.10nm		3.6mb

S.D. = 1.3 on 21 of 29 obs.

FEB 12, 1991 12h 45m 28.51± 0.29s
51.431 N ± 6.6km 173.458 W ± 3.2km
DEPTH = 33.0km (normal)
5.0mb (50 obs.) 4.0Msz (2 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS. (7)

ADK	2.06	284	iPd	46 01.50	0.1
SDN	8.68	58	eP	47 34.80	0.2
SVW	13.81	39	eP	48 46.50	2.5X
			i	48 52.80	
RSO	14.65	44	eP	48 59.00	3.9X
SLKM	15.79	46	eP	49 09.50	-0.2
PMR	16.73	43	eP	49 23.40	1.8
RND	17.72	38	eP	49 32.90	-1.2
IMA	17.77	27	eP	49 36.20	1.5
	1.1s		10.70nm		3.9mb X
TOA	18.22	44	eP	49 40.30	0.0
FBA	18.92	35	eP	49 46.80	-1.8
	1.0s		24.40nm		4.4mb
BALM	19.60	49	eP	49 54.40	-2.3
BRW	21.33	15	eP	50 14.10	-0.2
SIT	22.76	61	e(P)	50 32.40	3.8X
INK	25.53	34	ePc	50 54.10	-1.1
	0.5s		23.00nm		5.0mb
MBC	32.33	21	eP	51 56.00	-0.1
	0.5s		4.00nm		4.6mb
PNT	33.76	72	eP	52 26.00	17.1X
	0.8s		13.00nm		
NEW	35.71	72	eP	52 25.00	-0.6
	0.7s		18.00nm		5.1mb
			e	52 42.00	
EDM	35.84	63	ePd	52 27.50	0.9
	0.5s		32.00nm		5.5mb
SES	38.31	66	eP	52 48.00	0.6
KVN	39.97	86	eP	53 02.20	0.6
BONR	40.51	87	eP	53 07.20	1.1
CN2	40.80	284	Pc	53 07.20	-0.9
Z	18s		0.40um		4.3Msz
			epP	53 21.00	53kmX
TNP	41.11	86	eP	53 11.00	0.1
	0.8s		5.88nm		4.4mb
FFC	41.36	56	eP	53 13.00	0.5
	0.6s		12.00nm		4.8mb
CLC	42.28	89	eP	53 20.00	-0.4
SBB	42.86	91	eP	53 25.00	-0.2
SNY	43.05	283	eP	53 26.20	-0.3
	1.2s		100.00nm		5.4mb
BW06	43.08	75	eP	53 26.70	-0.3
	0.8s		7.14nm		4.5mb
GSC	43.11	89	eP	53 27.00	-0.2
PLM	44.34	91	eP	53 37.50	0.2
TPC	44.36	90	eP	53 37.00	-0.3
PV09	45.87	80	eP	53 49.50	-0.1
GOL	47.44	76	eP	54 01.70	-0.2
	0.6s		4.73nm		4.7mb
			e	54 18.50	
GLD	47.50	76	e(P)	54 14.00	11.7X
BJI	48.61	285	eP	54 10.00	-0.6
ANMO	49.79	82	eP	54 18.50	-1.6
	1.0s		15.00nm		5.0mb
ALO	49.79	82	eP	54 19.00	-1.1
	1.0s		2.50nm		4.2mb
SSE	51.34	273	Pc	54 33.50	1.9
	1.0s		25.00nm		5.1mb
BTO	51.93	290	eP	54 36.00	-0.2
TIY	52.34	286	P	54 39.60	0.4
XAN	56.91	285	eP	55 12.00	-0.6
SCH	57.86	41	eP	55 18.00	-1.0
KEV	58.21	352	eP	55 21.00	-0.1
LZH	58.55	290	iPd	55 23.50	-0.7
	1.5s		42.00nm		5.3mb
			pP	55 36.50	46kmX
GTA	58.62	295	Pc	55 22.80	-1.8
	0.6s		20.00nm		5.4mb
			pP	55 32.80	33kmX
GAC	60.30	53	eP	55 36.50	0.6
	0.6s		6.00nm		4.9mb
SOD	60.56	351	iP	55 33.40	-4.0X
WMQ	62.07	306	iPc	55 46.50	-1.6
CD2	62.21	285	eP	55 48.20	-0.9
GYA	63.63	280	P	55 59.00	0.4
KAF	65.72	350	iP	56 09.90	-1.5
	0.5s		12.60nm		5.3mb
NUR	67.47	350	iP	56 21.30	-1.2
	0.4s		14.10nm		5.4mb
NB2	67.82	358	P	56 23.00	-1.8
	0.5s		2.60nm		4.6mb
HFS	68.64	356	eP	56 28.20	-1.7
	0.4s		8.60nm		5.2mb
GUN	74.89	296	P	57 08.00	-0.1
	0.5s		68.00nm		5.9mb
KKN	75.32	296	P	57 10.38	0.0
	0.6s		34.00nm		5.5mb
PKI	75.42	296	P	57 10.84	-0.3
	0.8s		33.00nm		5.4mb
GKN	75.52	297	P	57 11.12	-0.3
	0.8s		72.00nm		5.7mb
DMN	75.56	296	P	57 11.92	0.1
	0.6s		32.00nm		5.5mb
CLL	77.49	356	iPc	57 21.60	-0.2
	0.7s		21.00nm		5.3mb
			i	57 40.50	
KSP	77.77	354	iP	57 22.50	-0.9
			e	57 38.30	
BRG	77.88	355	iPc	57 23.60	-0.4
	0.7s		30.00nm		5.4mb
MOX	78.21	357	iP	57 26.00	0.2
KRA	78.25	351	eP	57 25.70	-0.3
PRU	78.73	355	eP	57 29.00	0.3
ABH	79.06	359	eP	57 30.48	0.0
SPC	79.08	351	eP	57 30.70	-0.1
GRF	79.18	357	iPc	57 32.00	0.9
	0.7s		35.00nm		5.5mb
Z	22s		0.04um		3.7Msz
KHC	79.64	355	iPc	57 34.50	0.8
	1.0s		7.00nm		4.6mb
ZST	80.34	353	e(P)	57 32.50	-4.9X
GRR	80.36	5	eP	57 37.60	0.2
CDF	80.53	360	eP	57 38.80	0.3
	0.6s		9.00nm		4.9mb
LPF	80.70	5	eP	57 39.60	0.3
	0.5s		5.85nm		4.8mb
HAU	80.94	0	eP	57 40.90	0.3
	0.7s		9.90nm		4.9mb
BSF	81.12	360	eP	57 41.80	0.2
	0.6s		10.80nm		5.0mb
KBA	81.70	355	iPc	57 46.30	1.6
	0.7s		20.60nm		5.3mb
SSF	81.85	2	eP	57 45.90	0.6
	0.5s		8.00nm		5.0mb
LBF	81.94	2	eP	57 46.10	0.3
	0.6s		5.85nm		4.8mb
AVF	82.12	2	eP	57 47.10	0.4
	0.6s		6.30nm		4.8mb
MFF	82.18	5	eP	57 47.70	0.7
	0.7s		6.60nm		4.8mb
SMF	82.28	2	eP	57 47.90	0.3
	0.8s		10.75nm		4.9mb
BGF	82.34	3	eP	57 48.30	0.4
	0.9s		9.85nm		4.9mb
TCF	82.59	3	eP	57 49.70	0.5
	0.5s		2.55nm		4.5mb
LSF	82.60	4	eP	57 49.80	0.5
	0.6s		9.00nm		5.0mb
MAF	82.67	3	eP	57 50.20	0.6
	0.5s		4.00nm		4.7mb
LPL	83.43	360	eP	57 55.20	1.4
	0.7s		4.95nm		4.7mb
LPG	83.45	360	eP	57 55.50	1.5
	0.6s		3.15nm		4.6mb
RJF	83.55	4	eP	57 54.60	0.5
LFF	83.88	4	eP	57 56.70	0.9
	0.7s		13.25nm		5.2mb
CAF	83.95	3	eP	57 57.10	0.9
	0.7s		4.40nm		4.7mb
LPO	84.16	4	eP	57 58.00	0.8
	0.7s		8.80nm		5.0mb
EPF	85.76	5	eP	58 06.20	0.8
VAY	86.58	348	eP	58 10.40	1.1
HYB	87.28	295	eP	58 14.00	0.9
ASPA	87.88	227	iPd	58 15.10	-0.6
	1.0s		5.60nm		4.8mb
POO	89.01	299	eP	58 22.50	1.1
GBA	90.97	293	Pc	58 30.40	-0.1
	0.8s		2.70nm		4.7mb
SPA	141.24	180	iPKPc	05 06.90	10.8X
	0.8s		12.50nm		

S.D. = 0.9 on 90 of 98 obs.

FEB 12, 1991 12h 47m 51.08± 1.03s
13.188 N ±12.5km 93.278 E ± 6.1km
DEPTH = 33.0km (normal)
ANDAMAN ISLANDS REGION (703)

KHT	5.40	72	eP	49 12.30	0.9
NNT	6.32	95	eP	49 24.00	-0.5

12d 12h

```
BDT      6.84  53 eP     49 31.40   -0.3
        0.5s     31.10nm          5.4mb X
CHG      7.81  44 ePc    49 45.20   -0.1
        0.9s     38.24nm          5.5mb X
GBA     15.42 273 P      51 28.00    0.1
                  S      53 58.00
PKI     16.09 334 P      51 37.08    0.2
GUN     16.19 336 P      51 38.04   -0.2
DMN     16.25 333 P      51 39.94    1.1
KKN     16.34 334 P      51 39.66   -0.2
GKN     16.80 333 P      51 44.62   -1.1
     S.D. = 0.7  on  10 of  10 obs.
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*  FEB  12, 1991  12h 59m 17.33± 2.35s
   37.935 N ±15.1km   20.714 E ±17.9km
   DEPTH =  10.0km  (geophysicist)
 IONIAN SEA                        (399)
     MD 3.4 (ATH).

VLS      0.26 338 ePg    59 22.00   -0.9
EVR      1.30  41 ePg    59 42.40    0.9
IGT      1.62 350 ePd    59 52.28    6.2X
AGG      1.67  49 eP     59 46.90    0.1
VLI      2.15 124 ePn    59 54.20    0.5
NEO      2.40  54 ePn    59 56.00   -1.3
KZN      2.51  19 ePb    00 01.00    2.2
FNA      2.89  10 eP     00 09.90    5.6X
PAIG     3.05  48 ePc    00 04.37   -2.1
OHR      3.17   1 ePn    00 15.50    7.2X
GRG      3.29  23 ePc    00 15.08    5.1X
VAY      3.67  22 ePn    00 15.70    0.3
     S.D. = 1.6  on   8 of  12 obs.
-----------------------------------------
   FEB  12, 1991  13h 01m 00.28± 0.26s
   29.670 N ± 4.9km   96.908 E ± 3.5km
   DEPTH =  17.4km  (  3 depth phases)
   4.9mb ( 20 obs.)
 INDIA-CHINA BORDER REGION         (313)
     ML 4.7 (BJI).

LSA      5.01 272 Pn     02 21.90    5.0X
                  Sn     03 16.40
CD2      6.05  77 ePn    02 33.60    2.4
                  eSn    03 42.00
KMI      6.88 130 ePn    02 44.00    0.9
      Z  10s     2.20um
                  Pg     03 03.00
                  Sn     04 00.00
LZH      8.66  41 eP     03 09.00    1.2
        1.0s     30.00nm          5.5mb
      Z  10s     1.39um           3.9MszX
GYA      9.19 108 P      03 14.20   -0.9
                  S      04 56.00
GUN      9.83 262 P      03 24.06   -0.1
        0.4s     92.00nm          6.5mb X
GTA     10.01  13 eP     03 29.60    3.2X
        0.6s     10.00nm          5.4mb
      Z  10s     1.40um           4.3Msz
      N  10s     1.10um
                  pP     03 37.40
PKI     10.32 261 P      03 29.42   -1.4
KKN     10.38 262 P      03 31.28   -0.3
DMN     10.57 262 P      03 33.52   -0.7
GKN     10.89 264 P      03 36.82   -1.7
        0.4s     63.00nm          6.2mb X
CHG     10.97 170 ePd    03 40.00    0.6
        1.1s     32.28nm          5.5mb
                  eS     07 28.00
XAN     11.10  64 P      03 40.00   -1.3
BDT     12.52 171 eP     04 02.00    1.6
KHT     14.90 174 eP     04 35.50    3.7X
WHN     15.12  82 Pc     04 35.00    0.3
                  pP     04 40.00
TIY     15.20  54 Pc     04 35.60   -0.1
      Z  12s     1.00um
      E  11s     0.60um
                  pP     04 40.00
BTO     15.27  41 eP     04 37.00    0.3
QIZ     15.83 129 P      04 47.20    3.3X
WMQ     15.92 335 P      04 51.00    6.0X
HHC     16.34  43 eP     04 50.00   -0.4
      Z  14s     1.10um
      N  10s     0.30um
NAT     17.20 171 eP     05 03.00    1.7
NDI     17.23 272 eP     04 55.50   -6.1X
TIA     18.16  64 Pd     05 13.00   -0.2
BJI     18.86  52 eP     05 21.50   -0.2

        1.0s     21.00nm          4.3mb
      Z  12s      0.60um          4.9MszX
      N  12s      0.38um
NJ2     18.99  77 eP     05 24.00    0.7
      Z  10s      0.40um
KSH     19.77 305 eP     05 38.00    5.6X
QZH     19.83  99 Pc     05 30.60   -2.4
HYB     20.75 238 eP     05 42.00   -0.7
        1.0s     40.00nm          4.8mb
                  e      05 47.00   19km
SSE     20.99  80 P      05 43.50   -1.5
        1.1s     20.00nm          4.4mb
      Z  10s      0.60um          4.3MszX
      N  14s      0.80um
                  PP     06 06.00
SNG     22.65 170 eP     05 57.30   -4.5X
POO     23.74 247 eP     06 11.50   -1.0
GBA     24.09 233 P      06 17.70    1.9
SNY     24.71  53 iPc    06 21.40   -0.2
        0.8s     70.00nm          5.3mb
IPM     25.26 170 ePd    06 27.50    0.4
OUE     25.94 279 eP     06 35.20    1.6
CN2     26.71  50 eP     06 40.00   -0.4
        1.0s     40.00nm          5.0mb
UPP     59.55 325 iP     11 05.20    0.5
WB2     61.11 139 eP     11 15.30   -2.6
                  i      11 19.60   21km
HFS     61.46 326 eP     11 17.90    0.1
        0.4s      2.50nm          4.7mb
KSP     61.91 315 eP     11 21.70    0.7
NB2     62.48 327 P      11 24.70    0.0
        0.8s      4.70nm          4.7mb
PRU     63.21 314 eP     11 35.50    5.9X
BRG     63.35 315 eP     11 31.60    1.1
CLL     63.81 316 eP     11 38.00    4.5X
ASPA    63.85 142 iPc    11 32.30   -1.8
        0.9s     10.20nm          5.0mb
KHC     64.04 313 eP     11 28.50   -6.6X
MOX     64.83 315 eP     11 45.00    4.7X
GRF     65.35 315 e(P)   11 45.50    1.9
LPG     69.61 311 eP     12 11.40    0.6
        0.7s      9.90nm          5.1mb
LPL     69.62 311 eP     12 11.50    0.7
        0.6s      9.00nm          5.1mb
SMF     71.04 313 eP     12 19.20    0.0
        0.9s      9.85nm          4.9mb
SSF     71.09 314 eP     12 19.80    0.4
        0.7s      5.50nm          4.8mb
AVF     71.29 314 eP     12 21.00    0.4
        1.0s     11.00nm          4.9mb
MBC     71.93   9 eP     12 24.50    0.5
MAF     72.02 313 eP     12 24.00   -1.0
TCF     72.22 313 eP     12 26.00   -0.2
GRR     73.22 316 eP     12 32.30    0.3
        0.9s     13.10nm          5.0mb
FBA     73.33  24 ePd    12 32.20   -0.2
        0.6s      9.85nm          5.0mb
                  e      12 36.30   13km
LPF     73.48 316 eP     12 32.80   -0.7
INK     75.46  17 ePd    12 44.50   -0.1
BCAO    77.72 268 ePd    13 03.10    4.9X
        0.5s      5.00nm          4.8mb
YKA     84.74  14 eP     13 33.80   -0.5
        0.8s      1.70nm          4.3mb
SLR     85.79 237 eP     13 40.00   -0.2
BMA    144.50 272 ePKP   20 34.60   -3.2X
     S.D. = 1.1  on  51 of  65 obs.
-----------------------------------------
?  FEB  12, 1991  13h 01m 26.44± 2.73s
   38.889 N ±14.5km   27.949 E ±29.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)

IZM      0.73 228 ePg    01 40.80    0.0
                  iSg    01 51.40
BNT      1.47 359 iPn    01 52.70   -0.2
EZN      1.57 307 ePn    01 54.20   -0.1
KGT      1.64 342 iPn    01 55.70    0.3
     S.D. = 0.4  on   4 of   4 obs.
-----------------------------------------
   FEB  12, 1991  13h 27m 33.64± 0.62s
   44.795 N ± 4.5km  111.109 W ± 6.5km
   DEPTH =   5.0km  (geophysicist)
 HEBGEN LAKE REGION                (458)
     ML 3.1 (BUT).

LTMT     0.76 250 ePd    27 48.90   -0.3

BGMT     0.79 304 iPd    27 49.40   -0.3
MEMT     0.82   7 iPc    27 49.30   -0.8
MCMT     1.24 272 iPnd    27 57.60    0.3
SXM      1.36 357 ePnc    27 59.40    0.1
HBMT     1.45 314 ePn     28 01.40    0.5
BUT      1.59 320 ePg     28 04.90    2.2X
                  iSn     28 25.10
                  eSg     28 26.70
HPI      1.79 234 eP      28 05.70    0.0
HRY      1.98 345 ePn     28 08.80    0.5
PTI      2.13 206 e(P)    28 10.00   -0.5
BW06     2.31 150 eP      28 13.50    0.3
     S.D. = 0.5  on  10 of  11 obs.
-----------------------------------------
?  FEB  12, 1991  13h 36m 40.19± 1.26s
   23.156 S ±22.6km  114.852 W ±22.1km
   DEPTH =  10.0km  (geophysicist)
   4.8mb ( 10 obs.)  4.3Msz (  1 obs.)
 EASTER ISLAND REGION              (685)

NNA     37.79  80 e(P)   44 12.00   13.4X
        0.8s      5.22nm
LPB     44.32  90 Pc     44 53.00    0.1
      Z  22s      0.37um           4.3Msz
                  LR     58 00.00
CNCB    44.35  91 iPc    44 55.00    1.7
ZOBO    44.37  90 P      44 54.20    0.7
        1.0s      7.00nm          4.5mb
      Z  23s      0.41um           4.3MszX
                  S      51 40.00
                  LR     58 15.00
SIV     50.94  92 P      45 43.30   -0.9
BAR     55.55 358 eP     46 10.00   -8.0X
TPC     56.95 359 eP     46 30.00    1.9
MWC     57.14 357 eP     46 31.00    1.4
SBB     57.59 357 eP     46 33.00    0.4
GSC     58.17 358 eP     46 38.00    1.4
ALQ     58.32   8 eP     46 37.00   -0.9
        1.1s      6.96nm          4.6mb
ANMO    58.33   8 P      46 37.60   -0.3
        1.1s     29.11nm          5.3mb
ISA     58.60 357 eP     46 41.00    1.4
CLC     58.71 357 eP     46 41.00    0.6
TNP     60.95 358 P      46 56.80    0.9
        0.7s      3.89nm          4.6mb
CMB     61.09 355 eP     46 57.40    0.7
PV09    61.56   5 P      46 59.50   -0.7
GOL     63.15   8 P      47 09.70   -1.0
        0.7s      2.67nm          4.5mb
WDC     63.81 353 eP     47 14.80    0.1
BW06    65.78   4 P      47 26.80   -1.0
        0.9s      4.66nm          4.7mb
RSSD    67.67   8 P      47 37.90   -1.9
        1.0s     12.20nm          5.0mb
LRM     68.68   2 eP     47 46.70    0.7
NEW     71.12 358 P      48 00.00   -0.6
        1.0s     21.50nm          5.2mb
PNT     72.27 357 eP     48 09.00    1.6
SES     73.30   3 eP     48 13.00   -0.5
EDM     76.06   1 ePc    48 28.00   -1.3
FFC     78.34   8 ePc    48 41.00   -0.9
        1.1s     22.00nm          5.1mb
YKA     85.35   0 eP     49 16.20   -2.0
        1.1s     11.20nm          5.0mb
INK     92.22 353 eP     49 49.00   -1.8
BCAO   131.33 105 ePKPc   55 54.00   -1.3
        0.8s      5.00nm
CHG    148.19 269 iPKPc   56 27.00    1.7
        1.1s     15.82nm
     S.D. = 1.2  on  29 of  31 obs.
-----------------------------------------
%  FEB  12, 1991  13h 45m 08.67± 0.76s
   43.639 N ±10.9km   12.157 E ± 8.7km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                     (381)

CRE      0.15 266 Pc     45 12.00   -0.2
                  eSg    45 13.90
SFI      0.36 322 P      45 15.90   -0.1
                  eSg    45 21.50
PGD      0.39 307 P      45 17.10    0.3
                  eSg    45 23.30
ARV      0.59 104 P      45 20.50   -0.1
                  eSg    45 30.40
ASS      0.68 147 Pc     45 22.30    0.1
                  eSg    45 32.90
     S.D. = 0.3  on   5 of   5 obs.
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FEB 12, 1991 13h 48m 36.08± 0.60s
44.795 N ± 4.3km 111.110 W ± 6.2km
DEPTH = 5.0km (geophysicist)
HEBGEN LAKE REGION (458)
ML 3.1 (BUT).

LTMT	0.76	250	iPd	48 51.20	-0.4
BGMT	0.79	304	iPd	48 51.80	-0.3
MEMT	0.81	7	ePc	48 51.70	-0.8
MCMT	1.24	272	ePnd	48 59.90	0.2
SXM	1.36	357	ePnc	49 01.80	0.0
LRM	1.40	318	iPnd	49 02.80	0.3
HBMT	1.45	314	ePnd	49 04.00	0.7
BUT	1.59	320	ePg	49 07.20	2.1X
			iSn	49 27.50	
			eSg	49 29.10	
HPI	1.79	234	eP	49 08.20	0.0
HRY	1.98	345	iPnc	49 11.00	0.3
PTI	2.13	206	eP	49 12.60	-0.3
BW06	2.31	150	eP	49 16.00	0.4
DAU	4.38	181	e(P)	49 54.00	8.9X

S.D. = 0.5 on 11 of 13 obs.

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* FEB 12, 1991 14h 02m 56.30± 0.98s
30.614 N ±13.0km 79.288 E ± 7.2km
DEPTH = 33.0km (normal)
4.1mb (2 obs.) 3.6Msz (1 obs.)
TIBET-INDIA BORDER REGION (305)
ML 3.7 (NDI).

NDI	2.64	224	iPn	03 39.00	1.6
GKN	5.35	118	P	04 16.88	0.8
DMN	5.91	119	P	04 24.64	0.6
KKN	5.95	117	P	04 25.00	0.4
	0.4s		75.00nm		5.6mb X
PKI	6.15	118	P	04 27.02	-0.6
	0.4s		66.00nm		5.7mb X
GUN	6.36	113	P	04 30.08	-0.4
QUE	10.66	271	eP	05 29.70	-0.3
POO	13.00	204	eP	06 05.50	4.1X
HYB	13.15	183	eP	06 01.00	-2.4
GBA	17.01	186	P	06 54.00	0.6
			S	09 44.00	
LZH	21.20	69	e(P)	07 47.00	5.5X
	1.4s		14.00nm		4.2mb
	Z 22s		0.25um		3.6Msz
FBA	78.00	19	P	14 52.20	-0.4
	1.0s		1.70nm		4.0mb

S.D. = 1.2 on 10 of 12 obs.

FEB 12, 1991 14h 16m 33.41± 0.80s
37.721 N ± 8.9km 29.060 E ± 6.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.2 (ISK).

KHL	0.70	31	ePg	16 47.10	-0.3
			eSg	16 59.40	
CIN	0.78	261	eP	16 47.00	-1.6
YER	0.85	227	iPn	16 50.50	0.6
			eSg	17 05.40	
ELL	1.18	145	iPn	16 55.70	0.1
BCK	1.24	102	iPn	16 56.40	-0.1
IZM	1.57	296	ePn	17 02.70	1.3

S.D. = 1.3 on 6 of 6 obs.

& FEB 12, 1991 14h 34m 04.80s
36.928 N 121.682 W
DEPTH = 13.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 3.0 (BRK). Felt in the Watsonville area.

SAO	0.25	130	iPd	34 09.60	-0.7
GCC	0.27	292	iPc	34 10.00	-0.7
			iS	34 14.20	
MHC	0.41	4	iPd	34 13.40	0.0
ARN	0.44	16	iPc	34 13.70	-0.1
PRS	0.65	157	iPd	34 16.70	-0.7
LLA	0.67	117	iPc	34 17.30	-0.5
PCC	0.80	316	iPc	34 19.20	-0.8
BKS	1.04	335	e(P)	34 24.00	-0.2
BRK	1.05	334	eP	34 23.60	-0.7
			eS	34 37.40	
ZSP	1.11	336	eP	34 24.18	-1.2
			iS	34 42.00	
PRI	1.13	133	eP	34 25.30	-0.5
CMB	1.51	43	e(P)	34 30.40	-1.2
FRI	1.58	87	e(P)	34 30.80	-1.7
			i	34 32.70	
			iSg	34 52.90	
NWRM	1.80	328	e(P)	34 35.00	-0.7
BCH	2.17	143	e(P)	34 37.00	-4.2
ABL	2.88	135	eP	34 49.70	-1.7
BONR	2.88	68	e(P)	34 54.50	3.0

17 obs. assaciated

? FEB 12, 1991 15h 18m 31.99± 2.96s
38.446 S ±61.8km 93.907 W ±18.5km
DEPTH = 10.0km (geophysicist)
4.8mb (3 obs.)
WEST CHILE RISE (686)

NNA	30.43	35	e(P)	25 09.00	22.1X
	0.9s		5.04nm		
CNCB	31.31	54	P	24 55.80	0.6
LPB	31.44	53	eP	24 57.00	0.7
	Z 23s		0.76um		4.3MszX
			LR	33 00.00	
ZOBO	31.63	53	P	24 57.30	-0.7
	1.4s		19.34nm		4.8mb
	Z 24s		0.68um		4.2MszX
			LR	32 50.00	
SIV	36.48	61	(P)	25 38.00	-1.2
VAO	42.73	83	eP	26 31.60	0.5
ANMO	73.94	349	P	30 09.60	0.4
	1.5s		11.81nm		4.7mb
GOL	78.48	351	P	30 35.50	0.7
TNP	79.12	341	P	30 39.80	1.5
CMB	79.92	339	P	30 40.00	-2.4
BW06	82.09	348	P	30 53.80	-0.1
	1.5s		19.07nm		5.0mb
RSSD	82.70	353	P	30 53.00	-4.0X

S.D. = 1.3 on 10 of 12 obs.

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* FEB 12, 1991 15h 30m 47.26± 0.68s
24.206 N ± 9.9km 123.729 E ± 8.9km
DEPTH = 33.0km (normal)
4.5mb (9 obs.)
SOUTHWESTERN RYUKYU ISLANDS (246)

TWC	1.76	284	ePc	31 14.60	-1.3
			eS	31 35.30	
TWF1	2.38	250	ePc	31 25.50	0.6
TWG	2.80	241	ePc	31 31.30	0.6
QZH	4.73	280	ePn	31 57.00	-1.2
	N 10s		1.30um		
XAN	16.21	311	Pc	34 36.60	2.4
	N 10s		0.90um		
	E 10s		0.40um		
TIY	16.57	327	eP	34 41.30	2.6
	Z 10s		0.80um		
	N 10s		0.60um		
BJI	17.02	340	eP	34 49.00	4.7X
	1.2s		24.00nm		4.2mb
	Z 11s		0.62um		4.3Msz
	N 10s		0.38um		
CD2	18.91	295	eP	35 07.80	0.0
HHC	19.48	331	eP	35 15.00	0.6
BTO	19.99	328	eP	35 21.50	1.6
	N 12s		0.30um		
	E 12s		0.60um		
LZH	20.83	309	eP	35 30.00	1.3
	1.5s		37.00nm		4.5mb
	Z 15s		0.24um		3.7MszX
	N 10s		0.29um		
			pP	35 39.50	36kmX
CHG	23.66	262	eP	35 58.50	1.8
GTA	25.25	313	eP	36 09.80	-2.2
	1.2s		10.00nm		4.3mb
	Z 16s		0.30um		3.9MszX
	N 15s		0.50um		
GUN	34.11	284	P	37 31.50	-0.1
PKI	34.55	284	P	37 34.60	-0.7
KKN	34.65	284	P	37 35.80	-0.3
DMN	34.81	284	P	37 37.00	-0.5
GKN	35.21	285	P	37 40.00	-0.8
WMQ	35.33	313	eP	37 39.00	-2.6
GBA	44.87	265	P	39 01.00	0.4
WB2	45.09	166	iPd	39 02.70	0.5
ASPA	48.60	168	eP	39 30.40	0.6
	0.7s		5.70nm		4.7mb
FBA	67.72	27	P	41 44.00	0.7
INK	72.33	22	eP	42 10.50	-0.7
MBC	72.72	13	eP	42 14.00	0.5
	1.0s		4.00nm		4.4mb
SLL	78.67	332	eP	42 45.00	-2.3
	1.6s		45.40nm		5.2mb
NB2	79.28	333	P	42 49.00	-1.7
	0.6s		1.30nm		4.1mb
YKA	82.04	24	eP	43 03.50	-1.7
	0.7s		5.80nm		4.7mb
FFC	92.17	25	iPc	43 56.50	1.9
	0.7s		9.00nm		5.3mb
SOB1	159.07	313	ePKP	50 43.70	-0.1

S.D. = 1.4 on 29 of 30 obs.

? FEB 12, 1991 15h 52m 25.48± 1.63s
23.358 S ±31.7km 115.525 W ±25.6km
DEPTH = 10.0km (geophysicist)
4.7mb (4 obs.)
EASTER ISLAND CORDILLERA (684)

LPB	44.94	90	eP	00 44.00	0.8
			eLR	13 20.00	
CNCB	44.97	91	iPc	00 43.00	-0.6
ZOBO	44.99	90	Pd	00 42.30	-1.5
	1.2s		7.43nm		4.5mb
	Z 24s		0.28um		4.1MszX
			LR	14 00.00	
SIV	51.55	92	(P)	01 36.00	1.9
ALQ	58.61	9	eP	02 24.00	-1.2
	1.0s		4.25nm		4.5mb
ANMO	58.62	9	P	02 24.50	-0.7
TNP	61.13	358	P	02 43.00	0.5
CMB	61.24	356	eP	02 45.70	2.7
GOL	63.44	9	P	02 57.20	-0.8
WDC	63.94	354	ePd	02 54.00	-6.9X
SES	73.53	3	eP	04 03.00	2.9X
FFC	78.63	8	eP	04 29.00	0.2
	0.9s		14.00nm		5.0mb
YKA	85.56	0	eP	05 04.00	-0.5
	1.1s		10.40nm		4.9mb
FBA	91.44	347	P	05 33.00	0.4
INK	92.35	353	eP	05 36.00	-0.7
LZH	143.77	300	ePKP	12 02.50	-0.5
	1.5s		28.00nm		
CHG	147.57	269	ePKP	12 14.90	5.3X

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

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* FEB 12, 1991 16h 44m 27.14± 1.35s
34.250 N ±14.9km 26.370 E ±12.4km
DEPTH = 10.0km (geophysicist)
CRETE (370)
MD 3.5 (ATH).

NPS	1.19	329	iPgc	44 47.00	-2.3
KAP	1.46	27	ePb	44 54.50	1.0
VAM	2.13	304	ePb	45 04.80	1.6
ARG	2.43	36	ePb	45 08.00	0.5
JVI	7.88	105	eP	46 24.00	-0.6
DSI	8.03	107	eP	46 26.00	-0.6
PRNI	8.27	116	eP	46 30.50	0.4
			eS	47 59.00	

S.D. = 1.6 on 7 of 7 obs.

? FEB 12, 1991 18h 21m 16.37± 3.02s
15.856 N ±28.3km 98.215 W ±10.7km
DEPTH = 33.0km (normal)
OFF COAST OF GUERRERO, MEXICO (65)
Felt in Oaxaca.

ACX	1.87	303	iP	21 48.00	1.3
			iS	22 10.00	
OXX	1.88	49	iP	21 47.00	0.0
			iS	22 11.00	
III	2.78	335	eP	21 59.00	-0.7
			iS	22 33.00	
IIT	3.15	358	eP	22 05.00	0.0
			iS	22 42.00	
IISM	3.22	14	eP	22 07.00	1.3
PPM	3.22	353	eP	22 06.00	-0.2
			(S)	22 41.50	
UNM	3.58	345	(P)	22 15.00	3.8X
LVVM	4.21	23	eP	22 20.00	0.1
MRX	4.76	324	(P)	22 34.00	6.3X
ANMO	20.40	340	P	25 52.20	-1.3
GOL	24.57	347	P	26 34.20	-0.6

S.D. = 1.0 on 9 of 11 obs.

12d 18h

? FEB 12, 1991 18h 56m 59.75± 2.02s
9.474 S ±28.6km 70.611 W ±23.8km
DEPTH = 395.5 ± 24.6 km
4.4mb (1 obs.)
PERU-BRAZIL BORDER REGION (112)

ARE	7.00	187	eP	58	44.00	-0.3
ZOBO	7.18	161	Pd	58	47.00	0.4
	1.0s		8.00nm			3.8mb X
			S	00	07.00	
CNCB	7.73	161	P	58	53.00	0.1
			S	00	18.00	
SIV	11.33	126	iPc	59	34.30	-0.2
GOL	58.58	329	P	06	20.00	0.9
YKA	79.36	341	eP	08	22.80	-1.0
	0.6s		4.20nm			4.4mb
INK	89.13	341	eP	09	11.50	-0.5
GBA	148.44	79	PKPc	15	56.30	-2.2
	0.5s		1.20nm			
GKN	150.29	48	PKP	16	02.78	1.5
	0.5s		7.00nm			
DMN	150.86	49	PKP	16	02.06	-0.2
KKN	150.88	48	PKP	16	03.88	1.7
PKI	151.10	48	PKP	16	02.52	-0.2
S.D. = 1.2 on 12 of 12 obs.						

? FEB 12, 1991 19h 18m 00.73± 1.60s
22.822 S ±34.9km 114.968 W ±26.1km
DEPTH = 10.0km (geophysicist)
4.7mb (1 obs.)
EASTER ISLAND REGION (685)

LPB	44.43	91	(P)	26	16.00	1.7
			eLR	29	15.00	
CNCB	44.47	91	eP	26	14.00	-0.8
ZOBO	44.48	90	P	26	14.30	-0.6
Z	24s		0.23um			4.0MszX
			LR	39	20.00	
ANMO	58.01	8	P	27	56.00	-0.3
CMB	60.75	355	eP	28	16.80	1.9
WDC	63.47	354	ePc	28	34.00	1.0
YKA	85.02	0	eP	30	35.50	-1.6
	1.3s		7.00nm			4.7mb
FBA	91.04	347	P	31	05.20	-0.8
INK	91.88	353	eP	31	08.50	-1.3
CHG	148.09	269	ePKP	37	46.50	0.8
S.D. = 1.4 on 10 of 10 obs.						

FEB 12, 1991 19h 20m 15.32± 0.86s
36.390 N ± 6.9km 28.129 E ±10.6km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)
MD 3.7 (ATH).

ARG	0.17	181	iPgd	20	19.10	-0.1
			eSg	20	22.00	
YER	0.75	9	iPg	20	28.90	-1.2
			iSg	20	43.90	
KAP	1.14	223	iPbd	20	37.00	0.3
			eSb	20	54.00	
KSL	1.21	103	ePg	20	36.70	-1.1
CIN	1.21	358	ePn	20	37.00	-0.8
			iSg	20	56.00	
KHL	2.23	30	ePn	20	55.00	2.1
SCK	2.24	61	iPn	20	53.90	0.8
S.D. = 1.5 on 7 of 7 obs.						

& FEB 12, 1991 19h 23m 43.55s
37.570 N 118.851 W
DEPTH = 8.4km
CALIFORNIA-NEVADA BORDER REGION (40)
<GM>. MD 3.0 (GM).

BONR	0.58	48	iP	23	54.80	-0.5
CMB	1.30	291	eP	24	07.20	-0.6
TNP	1.39	68	eP	24	09.70	0.3
KVN	1.59	22	eP	24	12.80	0.6
PKEM	1.81	214	eP	24	16.50	1.3
ARN	2.15	265	eP	24	19.50	-0.6
BCH	2.58	203	eP	24	26.80	0.4
7 obs. associated						

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* FEB 12, 1991 19h 34m 14.63± 1.42s
6.016 S ±11.9km 131.597 E ±27.2km
DEPTH = 33.0km (normal)
4.5mb (3 obs.)
TANIMBAR ISLANDS REGION (281)

AAI	4.10	304	iPc	35	16.50	-0.1
MTN	6.80	184	eP	35	56.80	2.0
	0.3s		207.00nm			6.5mb X
			eS	37	09.00	
KNA	10.06	196	eP	36	39.30	-0.7
			eS	38	24.00	
WB2	14.10	169	eP	37	31.70	-2.6
			eS	40	00.30	
ASPA	17.69	173	eP	38	20.30	0.0
	0.5s		10.40nm			4.2mb
			eS	41	28.70	
MBL	18.88	216	eP	38	34.00	-0.9
FORR	24.92	187	eP	39	38.50	2.3
	0.4s		8.00nm			4.7mb
GUN	55.52	310	P	43	49.76	0.1
PKI	55.72	309	P	43	51.06	0.1
	0.6s		3.00nm			4.5mb
KKN	55.92	309	P	43	51.98	-0.4
DMN	55.97	309	P	43	52.98	0.2
GKN	56.52	309	P	43	56.52	-0.1
S.D. = 1.4 on 12 of 12 obs.						

FEB 12, 1991 19h 48m 57.26± 0.73s
43.417 N ± 6.4km 5.491 E ± 4.8km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
MD 2.6 (STR).

GELF	0.06	234	Pg	48	58.15	-1.4
BERF	0.18	125	Pg	49	00.79	-0.5
PUYF	0.19	53	Pg	49	00.79	-0.7
TREF	0.22	340	Pg	49	00.95	-1.1
CDR	0.33	38	ePg	49	03.00	-1.0
			i	49	07.10	
PRAF	0.45	329	Pg	49	05.82	-0.7
TAVF	0.46	64	Pg	49	06.20	-0.4
VILF	0.47	20	Pg	49	06.12	-0.6
CALN	1.07	71	Pg	49	18.52	1.0
REVF	1.40	76	Pn	49	23.35	0.5
			Sg	49	43.95	
TOUF	1.41	64	Pn	49	23.65	0.5
			Sg	49	44.26	
AURF	1.41	70	Pn	49	23.00	-0.1
			Sg	49	44.06	
SBF	1.48	72	Pn	49	24.19	0.2
			Sg	49	45.64	
AUTN	1.52	67	Pg	49	25.51	0.8
			Sg	49	47.14	
SAOF	1.60	68	Pn	49	25.73	0.0
SMF	3.43	341	eP	49	59.70	7.8X
	0.7s		3.85nm			
MAF	3.49	324	eP	50	01.70	9.0X
BGF	3.66	330	eP	50	01.00	5.9X
	0.6s		3.60nm			
AVF	3.70	337	eP	49	59.80	4.2X
	0.7s		3.30nm			
TCF	3.70	322	eP	50	02.50	6.8X
SSF	3.91	340	eP	49	59.30	0.7
	0.7s		4.40nm			
LSF	4.00	317	eP	50	02.70	2.9
S.D. = 1.1 on 17 of 22 obs.						

? FEB 12, 1991 21h 40m 06.37± 0.92s
32.678 N ±17.0km 72.382 E ±20.7km
DEPTH = 33.0km (normal)
4.4mb (4 obs.)
PAKISTAN (710)

DMN	12.11	111	P	43	11.74	11.9X
PKI	12.37	111	P	43	09.48	6.2X
GUN	12.59	109	P	43	07.36	1.1
HYB	16.18	158	eP	43	52.50	-0.5
HFS	46.80	324	eP	48	35.70	1.4
	0.4s		2.00nm			4.5mb
NB2	48.14	325	P	48	45.40	0.5
	0.7s		2.80nm			4.4mb
MBC	71.09	3	eP	51	22.50	-0.2
	0.5s		5.00nm			4.8mb
INK	77.48	10	eP	51	58.00	-1.6
FBA	77.81	16	(P)	52	01.00	-0.6
YKA	85.00	3	eP	52	41.70	2.5X
	0.7s		1.50nm			4.3mb
S.D. = 1.3 on 7 of 10 obs.						

FEB 12, 1991 21h 42m 29.62± 0.25s
21.280 S ± 4.6km 169.964 E ± 5.7km
DEPTH = 77.1km (6 depth phases)
5.1mb (6 obs.)
LOYALTY ISLANDS REGION (189)

DZM	3.37	256	iPd	43	19.10	-1.9
			iS	43	55.50	
PVC	3.85	336	iPd	43	27.50	-0.2
			iS	44	11.50	
BKM	3.94	335	iPc	43	29.60	0.6
			iS	44	16.00	
HNR	15.22	319	eP	46	03.00	1.4
BRS	16.80	245	iPc	46	23.00	1.6
COO	18.69	237	eP	46	45.00	0.5
AFI	18.87	70	eP	46	45.00	-1.8
MNG	19.84	168	Pd	46	56.80	0.0
KIW	19.97	169	eP	46	58.30	0.1
PGZ	20.01	166	eP	46	58.00	-0.6
RMQ	20.07	251	eP	47	00.00	0.7
TCW	20.20	171	eP	47	01.30	0.7
CAW	20.24	169	eP	47	00.80	-0.1
MRW	20.29	170	eP	47	01.40	0.0
WEL	20.36	170	(P)	47	01.00	-1.1
MTW	20.37	168	eP	47	01.30	-0.9
WDW	20.38	169	eP	47	01.80	-0.5
BLW	20.56	168	P	47	03.50	-0.8
THZ	20.57	174	eP	47	05.20	0.8
KHZ	21.29	173	eP	47	11.70	0.2
	1.4s		259.00nm			5.4mb
LTZ	21.53	175	eP	47	15.00	1.0
CNB	22.84	228	eP	47	29.00	2.0
MHZ	23.73	181	eP	47	36.80	1.3
CMS	23.84	240	eP	47	37.00	0.3
			e	47	54.00	74km
TLC	23.86	182	eP	47	38.10	1.2
PMG	24.92	295	iPc	47	47.00	-0.1
	0.8s		119.40nm			5.4mb
TOO	26.68	227	eP	48	04.00	0.7
QIS	28.35	266	e(P)	48	20.00	1.5
TAU	28.70	216	eP	48	18.00	-3.4X
WB2	33.32	266	eP	49	00.10	-2.2
ASPA	33.36	259	iPd	49	01.30	-1.3
	0.6s		23.10nm			5.2mb
			e	49	22.40	91kmX
FORR	38.61	247	eP	49	46.20	-0.8
WARB	39.82	254	eP	49	57.00	-0.2
	0.5s		5.00nm			4.7mb
KLB	47.48	246	eP	50	57.20	-1.6
NWAO	47.92	244	eP	51	00.00	-2.2
SNG	73.64	285	eP	54	13.80	16.8X
MDJ	75.23	331	eP	54	04.50	-1.1
TIA	75.91	318	eP	54	09.00	-0.7
CN2	76.55	329	Pc	54	12.30	-0.7
			epP	54	28.00	56kmX
NNT	76.71	289	eP	54	29.00	14.5X
KHT	78.66	291	eP	54	21.50	-3.7X
BJI	78.94	321	eP	54	25.50	-0.8
			pP	54	42.50	61kmX
			eS	04	20.00	
TIY	79.79	317	Pd	54	31.20	0.2
KMI	79.92	302	Pd	54	50.00	17.8X
	1.6s		80.00nm			
			pP	54	59.50	30kmX
CHG	80.12	295	eP	54	34.30	1.2
HHC	82.20	319	eP	54	43.40	-0.3
LZH	84.59	312	eP	55	13.50	17.5X
	1.5s		42.00nm			
Z	20s		0.24um			4.6Msz
			i	55	17.00	11kmX
			i	55	23.50	
PRS	86.49	49	ePd	55	06.90	1.7
PRI	86.90	49	ePd	55	09.00	1.7
			epP	55	29.70	75km
WDC	87.82	45	ePd	55	12.00	0.5
			epP	55	33.10	77km
FRI	87.98	49	eP	55	12.80	0.5
			epP	55	34.20	78km
ORV	87.99	46	ePd	55	12.70	0.3
CMB	88.01	48	ePd	55	12.80	0.2
			epP	55	34.00	77km
SBB	88.26	52	eP	55	13.00	-0.8
			e	55	38.00	93kmX
MIN	88.32	45	e(P)	55	12.80	-1.3
PLM	88.37	53	eP	55	14.00	-0.5
CLC	88.94	51	eP	55	17.00	-0.1
			e	55	39.00	80km
GTA	89.01	313	eP	55	19.00	1.6
	1.0s		10.00nm			5.0mb
			pP	55	34.80	55kmX

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GSC     89.28  52 eP     55 19.00    0.3
TPC     89.31  53 eP     55 19.00    0.2
GLA     89.76  54 eP     55 22.00    1.0
GUN     94.76 298 P      56 02.26   17.8X
PKI     95.02 297 P      56 02.38   16.7X
KKN     95.21 298 P      56 03.14   16.8X
        0.8s    18.00nm
DMN     95.29 297 P      56 03.90   17.1X
GKN     95.82 298 P      56 06.16   17.1X
GBA     97.14 282 P      56 13.40   18.4X
HYB     97.43 286 eP     56 13.00   16.7X
              e          56 16.50   11kmX
YKA    102.16  27 ePdiff 56 17.30    0.6
        0.8s     0.40nm            4.2mb
BUL    124.12 225 iPKPc  01 21.40   -0.3
        1.0s    13.50nm
KAF    132.20 338 ePKP   01 33.70   -1.9
        0.6s     7.60nm
NUR    133.87 337 ePKP   01 37.50   -1.4
        0.5s    11.30nm
PDCR   135.90 137 (PKP)  01 42.00   -2.1
NB2    137.58 345 PKP    01 45.80   -0.2
        0.7s     3.20nm
HFS    137.70 343 ePKP   01 37.20   -9.0X
        0.5s     0.80nm
KRA    142.81 328 ePKP   01 49.80   -5.8X
              e          05 25.80
SPC    143.20 326 ePKP   01 56.00   -0.6
KSP    144.00 331 ePKP   01 54.70   -2.9
BUD    144.89 325 e(PKP) 01 58.00   -1.2
BRG    144.99 333 iPKPc  01 58.40   -0.9
        1.0s    20.00nm
                  i      02 15.40
                  i      02 30.60
CLL    145.04 335 iPKP   01 57.90   -1.5
        1.1s    14.00nm
                  pPKP   02 17.00
                  iSKP   05 31.40
SRO    145.06 326 ePKP   02 15.60   16.1X
PRU    145.39 332 ePKP   01 59.00   -1.0
              e          02 17.50
ZST    145.43 327 ePKP   02 01.50    1.4
              e          02 21.00
EKA    145.61 353 PKPd   01 59.10   -1.1
        0.5s     7.60nm
VKA    145.78 328 e(PKP) 02 00.00   -0.8
              e          02 18.00
              i          02 21.30
VAY    146.01 313 ePKP   02 02.50    1.2
MOX    146.11 335 e(PKP) 02 05.00    3.8X
              e          02 23.00
KHC    146.45 332 iPKP   02 04.00    2.1
        1.0s     8.50nm
              e          02 24.90
SKO    146.46 315 ePKP   02 03.00    0.9
              i          02 23.80
WTS    146.67 341 ePKP   02 01.00   -1.0
GRF    147.02 334 ePKP   02 04.70    2.0
     Z  18s     0.10um            4.6Msz
              e          02 22.30
              e          02 24.70
OHR    147.29 314 ePKP   02 20.30   16.8X
BCAO   147.60 243 iPKPc  02 14.20    9.5X
        0.8s    46.00nm
              i          02 25.10
BHG    147.80 330 ePKP   02 06.60    2.6
ENN    148.01 341 ePKP   02 07.00    2.8X
        0.7s     6.00nm
              e          02 28.00
KBA    148.05 329 iPKPc  02 07.20    2.5
        0.7s    13.40nm
              e          02 25.00
              i          02 32.10
MEM    148.12 341 PKP    02 06.70    2.3
ABH    148.24 338 ePKP   02 07.47    2.8X
FVI    148.66 329 PKP    02 14.50    9.1X
SNF    148.72 342 PKP    02 08.70    3.3X
DOU    149.00 342 PKPc   02 09.70    3.9X
              ed         02 30.20
ECP    149.03 356 ePKP   02 09.00    3.2X
OGA    149.28 331 iPKPc  02 10.80    4.1X
CDF    149.58 337 ePKP   02 10.50    3.6X
        0.9s    11.45nm
CTI    149.60 329 PKP    02 11.00    4.0X
BSF    150.24 337 ePKP   02 12.10    4.2X
        0.6s    12.65nm
HAU    150.25 338 ePKP   02 12.10    4.3X
        0.7s    16.55nm
SFI    151.02 326 PKP    02 15.00    6.0X
VAI    151.04 332 PKP    02 14.00    5.0X
CRE    151.17 326 PKP    02 16.00    6.5X
MME    151.41 328 PKP    02 15.50    5.5X
FLN    151.53 347 ePKP   02 14.80    5.1X
        0.6s    18.05nm
BDI    151.56 328 PKP    02 15.00    5.0X
LDF    151.61 346 ePKP   02 14.90    5.1X
        0.6s    16.25nm
LOR    151.74 340 ePKP   02 15.50    5.4X
        0.8s    26.20nm
LBF    151.95 339 ePKP   02 16.00    5.6X
        1.1s    13.45nm
GRR    151.97 347 ePKP   02 15.90    5.6X
        0.7s    29.75nm
SSF    152.03 340 ePKP   02 16.30    5.8X
        0.8s    24.20nm
LPL    152.18 334 ePKP   02 17.10    6.0X
        0.8s    18.15nm
LPG    152.19 334 ePKP   02 17.10    5.9X
        0.7s    19.85nm
SMF    152.29 339 ePKP   02 16.60    5.7X
        0.9s     9.85nm
AVF    152.32 340 ePKP   02 16.60    5.7X
        0.9s     8.20nm
LPF    152.34 347 ePKP   02 16.80    5.9X
        0.7s    38.60nm
BNI    152.58 334 PKP    02 18.30    6.8X
BGF    152.69 340 ePKP   02 17.60    6.2X
        0.7s    16.00nm
MAF    153.08 340 ePKP   02 18.50    6.5X
        0.9s     9.00nm
TCF    153.13 341 ePKP   02 18.50    6.4X
        0.7s     9.90nm
SBF    153.20 331 ePKP   02 19.30    7.0X
        0.7s    15.45nm
LSF    153.36 342 ePKP   02 18.70    6.3X
        0.7s    14.90nm
PGF    153.46 327 ePKP   02 19.40    6.6X
        0.9s    45.85nm
MFF    153.49 345 ePKP   02 19.40    6.9X
        0.7s     6.60nm
LRG    154.00 332 ePKP   02 21.10    7.8X
        0.8s    18.80nm
RJF    154.22 341 ePKP   02 21.10    7.5X
        0.9s    11.45nm
LFF    154.78 342 ePKP   02 22.40    8.1X
        0.7s     8.80nm
LPO    154.88 341 ePKP   02 22.60    8.1X
KIC    164.31 200 PKP    02 22.56   -3.3X
        1.0s     9.50nm
      S.D. = 1.3  on  78 of 137 obs.
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&  FEB  12, 1991  21h 58m 23.42s
   58.696 N          142.377 W
   DEPTH =  10.0km  (geophysicist)
 GULF OF ALASKA                 ( 15)
      <AEIC>.

YAH     1.70  11 iP     58 48.79   -4.7
                eS     59 08.44
TGL     2.08 354 iP     58 53.76   -5.1
                eS     59 17.72
CTGM    2.34  13 iP     58 57.44   -5.2
BALM    2.35   0 eP     58 57.61   -5.1
                eS     59 24.08
GLB     2.85 346 eP     59 04.18   -5.6
VLZ     3.15 323 eP     59 08.97   -5.0
VZW     3.17 320 eP     59 10.48   -3.9
KNIM    3.19 304 eP     59 09.92   -4.7
GLI     3.24 315 eP     59 09.76   -5.5
KLU     3.32 329 eP     59 11.58   -4.9
KNK     4.09 314 eP     59 22.45   -4.8
       11 obs. associated
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    FEB  12, 1991  22h 06m 48.46± 0.39s
     0.471 N ± 5.7km  124.497 E ± 9.2km
    DEPTH = 130.9km  (  2 depth phases)
    5.1mb ( 11 obs.)
 MINAHASSA PENINSULA            (265)

AAI     5.54 138 ePd    08 09.50   -0.4
DAV     6.66   9 eP     08 25.40    0.2
TSM     7.42 300 iPc     0B 38.50    3.0
        1.0s   572.10nm            6.1mb X
MTN    14.78 154 eP     10 12.00   -0.2
KNA    16.66 166 eP     10 35.80    0.2
        0.6s    78.00nm            5.2mb
MBL    21.98 192 eP     11 33.00    0.3
        0.4s    22.00nm            4.9mb
IPM    23.80 280 ePc    11 51.90    1.4
NANU   24.50 200 iPd    11 57.30    0.2
        0.5s    31.00nm            5.1mb
QIS    25.60 146 iPc    12 07.50    0.2
        0.9s    67.00nm            5.2mb
ASPA   25.67 160 iPd    12 08.60    0.6
        0.8s    51.60nm            5.1mb
                  epP    12 37.90 141km
                  ePcP   15 03.90
                  eS     16 26.30
WARB   26.58 176 eP     12 17.00    0.8
        0.6s    21.00nm            4.9mb
MEKA   27.53 192 eP     12 24.60   -0.3
MRWA   30.62 195 eP     12 52.00   -0.3
CHG    31.00 308 eP     12 57.00    1.2
FORR   31.34 174 iPd    12 57.90   -0.6
        0.4s    31.00nm            5.4mb
KLB    32.52 191 eP     13 08.10   -0.8
MUN    33.21 193 eP     13 14.00   -0.9
NWAO   33.92 191 eP     13 21.00    0.1
TIY    38.69 345 eP     14 01.20    0.0
LZH    40.30 334 eP     14 15.00    0.5
        1.5s    28.00nm            4.8mb
                  pP     14 42.50 121km
BFD    41.02 158 eP     14 24.00    3.8X
TOO    42.54 155 iPd    14 35.00    2.3
        1.0s    41.00nm            5.1mb
GTA    44.84 333 Pc     14 51.60    0.2
        1.2s    10.00nm            4.4mb
GUN    45.95 310 P      15 00.40   -0.2
PKI    46.15 309 P      15 02.36    0.2
KKN    46.36 309 P      15 03.02   -0.6
DMN    46.41 309 P      15 03.42   -0.7
GKN    46.96 309 P      15 07.24   -1.1
HYB    48.22 293 eP     15 16.00   -2.1
GBA    48.38 288 P      15 17.00   -2.2
        0.7s     1.80nm            4.0mb X
WMO    54.18 328 eP     16 02.50   -0.1
QUE    62.05 304 eP     16 56.80   -1.0
INK    93.99  21 eP     19 52.00   -0.3
BUL    95.69 250 iPd    20 01.70    0.4
        1.0s     7.50nm            5.1mb
      S.D. = 1.1  on  33 of  34 obs.
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*  FEB  13, 1991  00h 55m 48.59± 1.15s
   29.405 S ±10.7km   71.400 W ±19.5km
   DEPTH = 140.8 ± 31.8 km
 NEAR COAST OF CENTRAL CHILE    (135)

RTRS    1.85 115 iPc    56 20.00   -1.8
RTCB    3.06 133 iPc    56 37.90    0.9
                eS     57 14.00
RTCV    3.48 135 e(P)   56 43.80    1.3
CFA     3.50 130 iPd    56 43.20    0.4
                eS     57 25.00
IHA     3.61 183 eP     56 43.30   -0.9
                e(S)   57 44.00
PEL     3.78 171 iPd    56 46.50    0.1
                iS     57 31.50
ANT     5.75   9 e(P)   57 13.50    0.7
CNCB   12.92  15 P      58 49.80    1.1
LPB    13.17  14 eP     5B 47.00   -4.7X
ZOBO   13.42  14 P      58 54.70   -0.4
SIV    16.39  38 P      59 30.40   -1.5
VAO    22.81  79 e(P)   00 30.00  -10.0X
      S.D. = 1.3  on  10 of  12 obs.
-------------------------------------
*  FEB  13, 1991  02h 17m 40.48± 0.70s
   19.087 S ± 8.9km  168.483 E ±12.4km
   DEPTH =  90.5 ± 11.4 km
   4.5mb (  2 obs.)
 VANUATU ISLANDS                (186)

PVC     1.35 353 iPc    18 04.50   -0.2
                iS     18 23.50
BKM     1.43 351 iPd    18 06.00    0.2
                iS     18 24.60
DZM     3.53 212 iPd    18 34.20    0.0
                iS     19 15.50
TCW    22.60 169 P      22 35.00    0.8
MRW    22.71 168 eP     22 35.30    0.1
MTW    22.81 166 eP     22 36.00   -0.2
BLW    23.00 166 eP     22 37.40   -0.7
```

13d 02h

MOW 23.00 167 eP 22 38.00 -0.1
WRA 32.16 263 P 24 01.00 -0.8
0.6s 1.20nm 3.8mb
ASPA 32.47 256 iPd 24 05.30 0.8
0.5s 22.00nm 5.2mb
S.D. = 0.6 on 10 of 10 obs.

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* FEB 13, 1991 02h 38m 58.63± 0.59s
5.647 S ± 9.7km 153.956 E ±10.5km
DEPTH = 33.0km (normal)
5.0mb (3 obs.)
NEW IRELAND REGION (190)

PMG 7.71 241 eP 40 51.00 -0.4
DZM 20.31 145 iPc 43 35.10 0.3
OIS 20.34 222 eP 43 35.00 -0.1
BRS 21.65 183 iPc 43 55.00 6.6X
WB2 23.78 232 eP 44 20.30 11.0X
CHG 59.39 296 eP 49 01.00 0.4
GUN 73.54 301 P 50 31.26 0.3
0.8s 17.00nm 5.1mb
PKI 73.85 301 P 50 32.80 0.0
KKN 74.02 301 P 50 33.80 0.2
0.6s 7.00nm 4.8mb
DMN 74.12 301 P 50 34.64 0.4
GKN 74.63 301 P 50 37.04 0.0
0.9s 18.00nm 5.1mb
FBA 82.24 21 (P) 51 16.80 -0.9
S.D. = 0.5 on 10 of 12 obs.

% FEB 13, 1991 02h 48m 16.84± 0.79s
43.064 N ± 6.3km 12.967 E ± 9.3km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

ASS 0.22 272 Pd 48 21.60 -0.1
eSg 48 26.20
ARV 0.43 358 Pd 48 25.10 -0.6
eSg 48 32.10
MNS 0.71 197 P 48 30.00 -0.9
eSg 48 40.50
AQU 0.78 155 P 48 33.30 1.2
eSg 48 44.20
CRE 0.93 308 P 48 35.60 0.9
AZI 1.13 162 P 48 38.00 0.0
SDI 1.50 155 P 48 43.20 -0.6
eSg 49 03.80
S.D. = 1.0 on 7 of 7 obs.

? FEB 13, 1991 03h 54m 43.64± 1.81s
2.944 S ±18.2km 136.804 E ±20.6km
DEPTH = 33.0km (normal)
4.9mb (4 obs.)
WEST IRIAN REGION (196)

MTN 11.33 209 eP 57 27.00 0.7
0.3s 278.00nm 6.9mb X
eS 59 33.00
KNA 14.99 211 eP 58 15.40 0.6
0.6s 100.00nm 5.3mb
WB2 17.07 188 eP 58 39.50 -2.0
0.6s 12.20nm 4.2mb
OIS 17.72 171 eP 58 49.00 -0.6
eS 01 58.00
ASPA 20.79 188 iPc 59 25.70 1.0
0.6s 82.50nm 5.3mb
Z 19s 0.70um 4.1Msz
eS 03 12.70
BRS 28.71 149 iPd 00 41.00 0.9
GBA 61.13 287 P 04 57.00 -0.5
0.5s 1.90nm 4.5mb
S.D. = 1.3 on 7 of 7 obs.

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* FEB 13, 1991 06h 17m 23.07± 0.68s
44.761 S ±13.0km 79.529 W ±14.0km
DEPTH = 10.0km (geophysicist)
5.2mb (11 obs.) 4.8Msz (2 obs.)
OFF COAST OF SOUTHERN CHILE (143)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDS
L.P.B.: 16S, [illegible]
Centroid Location:
Origin Time 06:17:26.1 0.3
Lat 44.88S 0.03 Lon 80.28W 0.05
Dep 15.0 FIX Half-duration 2.7
Moment Tensor; Scale 17 Nm
Mrr=-0.38 0.09 Mtt= [illegible] 0.12
Mff=-0.96 0.11 Mrt= 0.00 0.00
Mrf= 0.00 0.00 Mtf=-3.53 0.11
Principal Axes:
T Val= 3.90 Plg= 0 Azm=216
N -0.38 90 180
P -3.52 0 126
Best Double Couple:Mo=3.7*10**17
NP1:Strike=261 Dip=90 Slip=-180
NP2: 351 90 0

LNV 12.14 34 eP 20 18.50 -0.4
LCCH 12.50 32 iPc 20 24.50 0.7
IHA 12.88 31 eP 20 29.10 0.3
i(S) 20 33.60
PEL 13.14 35 iPd 20 32.00 -0.4
i 20 33.50
JACH 13.59 34 eP 20 36.00 -2.3
LPA 19.08 68 iPd+ 21 53.80 5.7X
1.0s 224.00nm 5.4mb
eS 25 32.00
ANT 21.92 23 eP 22 20.00 1.8
SLA 22.68 35 e(P) 22 27.50 1.5
ARE 28.63 16 eP 23 23.00 0.9
CNCB 29.15 23 eP 23 24.00 -3.0
i 23 33.20
CCH 29.16 27 eP 23 29.00 2.1X
LPB 29.38 23 eP 23 26.00 -2.9
2.0s 141.18nm 5.4mb
e 23 33.00
S 28 31.00
LR 31 50.00
ZOBO 29.62 23 Pc 23 32.50 1.2
Z 25s 4.60um 5.0MszX
i 23 38.00
S 28 28.00
LR 34 48.00
PPD 32.19 55 eP 23 51.90 -1.4
SIV 32.31 35 P 23 54.40 0.0
NNA 32.34 5 eP 23 55.90 1.2
1.1s 32.91nm 5.2mb
Z 20s 1.24um 4.6Msz
VAO 34.13 62 eP 24 15.20 5.0X
BMA 36.16 65 eP 24 33.90 6.4X
BAO 39.14 53 ePd 24 55.80 3.2X
PDCR 46.88 60 eP 25 57.80 2.5X
e 26 02.20
e 26 06.90
BOG 49.01 7 eP 26 20.00 7.8X
eS 33 26.00
JSC 78.28 359 eP 29 25.60 1.3
RSCP 79.77 355 P 29 37.60 5.1X
MEO 80.65 344 e(P) 29 39.80 2.5X
BLA 81.20 359 P 29 50.00 10.0X
NAV 81.31 359 eP 29 43.90 3.3X
ELC 81.74 352 (P) 29 44.50 1.7
CVL 81.97 1 eP 29 45.50 1.6
e 29 54.30
FVM 82.56 351 (P) 29 49.80 2.7X
ALQ 82.64 338 eP 29 45.80 -2.0
1.0s 11.50nm 5.0mb
ANMO 82.64 338 P 29 45.80 -2.0
1.0s 13.25nm 5.0mb
LIC 83.37 75 P 29 53.64 1.9
Z 20s 0.59um 5.0Msz
GLA 83.49 331 eP 29 53.00 1.0
KIC 83.66 75 P 29 55.18 1.9
1.5s 60.50nm 5.6mb
TIC 83.67 74 P 29 54.18 0.8
BAR 83.81 329 eP 30 05.00 11.3X
SLR 84.09 120 eP 29 52.00 -3.6X
1.0s 50.00nm 5.7mb
i 30 04.00
TPC 84.87 330 eP 29 58.00 -1.0
PEC 85.08 329 P 30 09.50 9.5X
GSC 86.21 330 eP 30 07.00 1.3
GOL 86.86 340 eP 30 09.30 0.3
CLC 86.96 330 eP 30 19.00 9.7X
ISA 87.14 329 eP 30 12.00 1.8
BUL 88.36 117 eP 30 17.70 1.1
RSNY 88.63 4 eP 30 21.50 4.5X
1.2s 34.01nm 5.5mb
TNP 88.85 331 P 30 16.80 -1.7
1.0s 7.00nm 4.9mb
DUG 89.35 335 eP 30 22.00 1.3
CMB 89.95 329 P 30 22.50 -1.0
RSSD 90.76 343 P 30 27.00 -0.3
0.7s 4.33nm 4.9mb

BW06 90.82 338 P 30 27.60 0.0
1.5s 9.53nm 4.9mb
BCAO 98.85 92 ePd 31 14.90 10.2X
0.6s 6.00nm
id 34 31.90
GBA 143.58 140 PKP 36 58.00 -1.9
0.6s 1.40nm
POO 145.95 131 ePKP 37 02.00 -2.0
HYB 147.42 139 ePKP 37 06.00 -0.3
KHT 150.48 176 ePKP 37 16.50 5.4X
CHG 154.50 177 ePKP 37 33.00 16.2X
CHTO 154.50 177 (PKP) 37 16.00 -0.8
LZH 171.34 198 e(PKP) 37 46.00 13.7X
1.5s 14.00nm
S.D. = 1.5 on 37 of 58 obs.

? FEB 13, 1991 07h 19m 24.00± 6.42s
33.146 S ±15.3km 72.096 W ±43.1km
DEPTH = 10.0km (geophysicist)
OFF COAST OF CENTRAL CHILE (134)

IHA 0.40 73 iPc 19 33.30 1.1
iS 19 38.40
LCCH 0.55 127 iPc 19 35.10 0.0
iS 19 42.00
LNV 0.99 145 iPc 19 43.10 0.4
iS 19 55.50
PEL 1.18 90 iPd 19 46.00 -0.1
iS 19 58.00
SAN 1.24 105 eP 19 46.50 -0.6
iS 20 02.00
JACH 1.35 70 iPd 19 48.10 -0.8
iS 20 05.00
S.D. = 0.9 on 6 of 6 obs.

% FEB 13, 1991 08h 13m 23.72± 0.37s
44.776 N ± 2.8km 7.005 E ± 3.7km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.4 (GEN).

BHB 0.20 70 P 13 28.36 0.3
S 13 31.02
RRL 0.21 313 P 13 28.53 0.0
S 13 31.50
PZZ 0.28 166 P 13 29.86 0.2
S 13 33.76
FOUF 0.29 213 ePgc 13 30.01 0.2
e(Sg) 13 32.74
DOI 0.32 148 Pc 13 30.60 0.2
eSg 13 35.70
BNI 0.36 320 Pc 13 31.10 -0.1
eSg 13 35.80
RSP 0.42 25 P 13 32.32 0.1
S 13 38.71
STV 0.58 157 P 13 35.40 -0.1
S 13 43.22
ENR 0.62 151 P 13 35.94 -0.4
S 13 44.66
LSD 0.69 9 P 13 37.45 -0.1
S 13 46.81
ROB 0.78 128 P 13 39.09 0.1
S 13 49.35
FIN 1.03 123 P 13 42.99 -0.2
PCP 1.12 101 P 13 44.73 -0.1
S.D. = 0.2 on 13 of 13 obs.

? FEB 13, 1991 08h 24m 18.11± 0.98s
44.570 N ± 6.4km 7.277 E ±14.0km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.5 (GEN).

PZZ 0.14 243 P 24 21.59 0.0
S 24 23.84
BHB 0.27 358 P 24 23.84 0.0
S 24 28.15
STV 0.33 174 P 24 24.87 -0.1
S 24 29.18
ENR 0.36 163 P 24 25.59 0.1
S 24 30.10
S.D. = 0.1 on 4 of 4 obs.

? FEB 13, 1991 09h 44m 01.54± 0.92s
16.936 S ±22.4km 173.318 W ±28.8km
DEPTH = 33.0km (normal)
5.0mb (2 obs.)

TONGA ISLANDS (173)

AFI	3.36	26	eP	44	51.00	-2.0
			e(S)	45	36.00	
DZM	19.74	252	iPc	48	36.30	4.5X
NOZ	22.89	198	P	49	02.10	-1.3
WB2	49.57	258	iPd	52	51.20	-0.6
ASPA	49.73	253	iPd	52	52.80	-0.2
	0.9s		8.00nm		4.7mb	
			i	53	02.30	
FBA	83.88	11	P	56	30.00	1.1
SXM	84.08	38	eP	56	31.40	0.9
SES	86.41	35	eP	56	42.00	0.1
BJI	86.58	314	eP	56	48.50	5.7X
	1.5s		27.00nm		5.3mb	
INK	89.73	14	eP	57	07.00	9.7X
KRA	145.27	345	ePKP	03	41.40	4.0X
KSP	145.31	349	ePKPd	03	40.00	2.5X
			e	03	50.00	
CLL	145.34	353	ePKP	03	40.00	2.5X
	1.7s		38.00nm			
			e	03	50.00	
BRG	145.65	352	ePKP	03	41.40	3.4X
	1.6s		28.00nm			
			e	04	11.20	
SPC	145.99	344	ePKP	03	40.90	2.0
MOX	146.14	354	ePKP	03	44.00	5.1X
	1.8s		35.00nm			
PRU	146.42	351	ePKP	03	43.50	4.1X
			e	03	55.00	
KHC	147.40	352	PKP	03	49.60	8.6X
	S.D. = 1.5		on 8 of 18 obs.			

FEB 13, 1991 10h 34m 04.84± 1.16s
23.724 N ± 6.8km 96.053 E ± 6.5km
DEPTH = 33.8 ± 13.9 km
4.6mb (4 obs.)

BURMA (296)

CHG	5.58	151	ePn	35	28.70	1.0
			ePg	35	52.00	
			iSg	37	12.50	
KMI	6.25	76	eP	35	59.50	22.1X
	Z 10s		1.90um			
			e	36	00.00	
			S	37	20.00	
			iS	37	26.00	
BDT	7.01	156	ePn	35	47.00	-0.9
			eSg	37	51.00	
LSA	7.39	325	eP	35	53.00	-0.6
GYA	10.00	72	P	36	28.00	-1.4
	N 10s		0.80um			
	E 10s		1.10um			
LZH	14.04	27	eP	37	28.00	4.3X
	2.0s		36.00nm		4.7mb	
	E 10s		0.35um			
GTA	15.96	11	eP	37	50.80	2.2
	0.8s		10.00nm		4.0mb	
	Z 10s		0.30um		4.3Msz	
HYB	17.54	252	eP	38	08.00	-0.5
NDI	17.61	290	eP	38	10.00	0.8
TIY	19.78	41	eP	38	31.80	-3.3X
	Z 10s		0.50um			
GBA	20.29	244	P	38	40.00	-0.5
BTO	20.52	32	eP	38	42.50	-0.4
	N 11s		0.30um			
	E 11s		0.40um			
			eS	42	23.50	
WMQ	21.19	343	P	38	48.00	-1.8
			pP	39	07.00	89kmX
POO	21.34	260	eP	38	52.50	1.2
NJ2	21.76	63	Pc	38	56.50	1.0
KOD	22.23	236	eP	39	04.40	3.8X
BJI	23.51	41	eP	39	13.50	1.0
MAT	38.34	61	eP	41	24.00	-0.4
	1.0s		7.00nm		4.4mb	
WB2	57.25	136	eP	43	51.30	-0.3
ASPA	59.74	139	iPd	44	09.80	0.9
	0.7s		7.40nm		4.9mb	
MBC	77.90	8	eP	46	00.00	-0.3
INK	81.35	17	eP	46	18.00	-1.0
	S.D. = 1.2		on 18 of 22 obs.			

* FEB 13, 1991 10h 53m 24.87± 0.99s
29.591 N ±10.3km 141.406 E ±21.6km
DEPTH = 33.0km (normal)
4.3mb (5 obs.)

SOUTH OF HONSHU, JAPAN (211)

IIDJ	6.57	334	eP	55	06.90	5.2X
KAKJ	6.68	351	eP	55	03.10	0.0
			S	56	15.10	
CHJJ	6.75	343	P	55	05.40	1.2
			S	56	19.50	
MAT	7.43	340	(P)	55	15.00	1.2
	0.8s		8.21nm		4.8mb	
			(S)	56	35.00	
MTMJ	7.60	338	eP	55	19.30	3.1X
NIIJ	7.89	346	eP	55	19.20	-0.9
OFUJ	9.47	1	eP	55	39.50	-2.5
			eS	57	17.90	
CHG	39.99	264	eP	00	58.50	0.1
WB2	49.71	189	eP	02	15.30	-0.6
WRA	49.72	189	P	02	20.00	4.1X
	0.4s		1.70nm		4.4mb	
FBA	55.49	29	P	03	00.50	2.0
YKA	70.28	29	eP	04	36.70	0.1
	0.7s		0.30nm		3.5mb	
HFS	80.87	336	eP	05	36.20	-0.5
	0.4s		1.50nm		4.3mb	
NB2	81.05	338	P	05	37.50	-0.2
	0.7s		1.90nm		4.2mb	
	S.D. = 1.3		on 11 of 14 obs.			

* FEB 13, 1991 11h 24m 56.44± 1.26s
37.935 N ±14.7km 102.019 E ±10.7km
DEPTH = 33.0km (normal)
3.5mb (1 obs.)

GANSU PROVINCE, CHINA (322)

ML 4.1 (BJI).

LZH	2.35	141	Pn	25	35.00	1.2
			Pg	25	36.20	
			Sg	26	06.00	
GUN	16.82	238	P	28	53.10	1.8
KKN	17.30	239	P	28	58.20	1.0
PKI	17.35	238	P	28	57.60	-0.4
DMN	17.53	239	P	28	59.00	-1.2
GKN	17.60	241	P	29	01.00	0.1
CHG	19.24	189	eP	29	19.80	-1.1
CHTO	19.24	189	P	29	19.80	-1.0
YKA	75.67	17	eP	36	39.40	-0.3
	0.7s		0.40nm		3.5mb	
	S.D. = 1.3		on 9 of 9 obs.			

? FEB 13, 1991 11h 38m 08.79± 1.07s
43.326 N ±10.6km 12.371 E ± 9.2km
DEPTH = 10.0km (geophysicist)

CENTRAL ITALY (381)

ASS	0.33	140	P	38	15.70	0.0
			eSg	38	20.80	
CRE	0.43	315	P	38	17.30	-0.3
			eSg	38	23.80	
ARV	0.45	67	P	38	17.90	-0.1
			eSg	38	23.90	
SFI	0.70	328	P	38	23.00	0.3
			eSg	38	33.00	
	S.D. = 0.5		on 4 of 4 obs.			

% FEB 13, 1991 11h 40m 49.28± 0.91s
40.641 N ±11.1km 29.100 E ± 6.9km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.9 (ISK).

GBZT	0.30	60	ePg	40	56.00	0.4
			eSg	41	00.70	
ISK	0.43	356	iPg	40	57.90	-0.1
HRT	0.47	67	iPg	40	58.40	-0.4
			iSg	41	05.40	
BNT	0.94	253	ePn	41	07.30	0.0
EDC	0.99	253	ePn	41	08.00	0.0
	S.D. = 0.4		on 5 of 5 obs.			

FEB 13, 1991 12h 54m 42.09± 0.15s
44.882 N ± 1.3km 6.753 E ± 1.6km
DEPTH = 5.0km (geophysicist)

FRANCE (538)

MD 3.6 (STR). ML 3.6 (LDG), 3.4 (GEN).

RRL	0.04	30	Pc	54	44.15	0.5
			S	54	45.96	
BNI	0.18	342	Pd	54	45.90	0.1
			eSg	54	49.30	
FOUF	0.35	177	ePgd	54	48.70	-0.5
			i	54	49.11	
			e(Sg)	54	52.07	
BHB	0.37	96	Pc	54	49.86	0.4
			S	54	54.00	
SURF	0.40	174	Pg	54	49.66	-0.6
RSP	0.45	53	Pd	54	51.56	0.5
			S	54	57.65	
PZZ	0.45	146	Pd	54	50.96	-0.2
			S	54	56.63	
DOI	0.52	137	Pc	54	52.00	-0.4
			eSg	54	59.10	
LPG	0.62	360	Pg	54	54.20	-0.2
LPL	0.63	359	Pg	54	54.50	-0.3
LSD	0.64	26	Pc	54	54.94	0.0
			S	55	03.05	
STV	0.76	147	Pc	54	56.48	-0.9
			S	55	06.12	
GRN	0.80	297	Pg	54	58.08	-0.1
			Sg	55	08.58	
ENR	0.81	144	Pc	54	57.64	-0.7
			S	55	08.16	
RSL	0.81	354	Pg	54	57.76	-0.7
			Sg	55	09.82	
TOUF	0.94	158	Pg	55	00.16	-0.4
ROB	0.99	126	Pc	55	00.97	-0.4
			S	55	13.71	
AUTN	1.01	151	Pg	55	01.48	-0.3
			Sg	55	15.78	
SAOF	1.06	147	Pg	55	02.17	-0.4
			Sg	55	17.24	
AURF	1.08	157	Pg	55	02.63	-0.2
			Sg	55	18.50	
SBF	1.13	154	Pg	55	03.97	0.2
CALN	1.13	175	Pg	55	03.91	0.0
ORO	1.14	49	P	55	03.30	-0.7
			eSg	55	21.50	
ORX	1.15	49	Pc	55	03.35	-0.8
CKI	1.18	112	P	55	04.60	0.0
			eSg	55	21.10	
EMS	1.19	6	ePd	55	04.80	-0.2
REVF	1.22	159	Pg	55	05.56	0.2
			Sg	55	23.89	
FIN	1.24	122	P	55	05.40	-0.2
IMI	1.27	140	Pd	55	05.90	-0.2
VILF	1.27	216	Pg	55	09.29	3.1X
			Sg	55	27.39	
DIX	1.29	21	ePc	55	10.20	3.6X
PCP	1.32	104	Pc	55	07.07	0.0
FRF	1.32	183	Pn	55	07.20	0.2
			Pg	55	08.40	
			Sg	55	26.20	
TAVF	1.36	202	Pg	55	09.90	2.2
			Sg	55	28.45	
CDR	1.40	211	e(Pg)d	55	08.80	0.5
			i	55	09.20	
			i	55	22.40	
			i(Sg)	55	27.10	
MMK	1.45	36	ePc	55	14.00	4.8X
LRG	1.45	191	Pn	55	09.40	0.4
			Pg	55	10.40	
			Sg	55	30.40	
PUYF	1.55	210	Pg	55	13.19	2.8
			Sg	55	33.86	
LMR	1.56	187	Pn	55	11.00	0.5
			Pg	55	11.80	
			Sg	55	32.50	
PRAF	1.57	227	Pg	55	14.42	3.8X
TREF	1.60	219	Pg	55	15.93	4.9X
			Sg	55	37.62	
VAI	1.73	55	P	55	12.90	0.0
			eSg	55	34.50	
BERF	1.75	206	Pg	55	17.25	4.0X
BOB	1.92	92	P	55	16.00	0.2
			eSg	55	41.00	
MDI	2.27	66	P	55	20.50	-0.3
LOMF	2.47	1	Pn	55	24.58	0.8
VDL	2.49	49	ePd	55	25.50	1.4
LLS	2.53	37	ePd	55	26.60	1.9
BBS	2.64	11	Pn	55	27.01	1.0
			Sg	56	08.60	
SMF	2.70	312	Pn	55	27.00	0.1
			Sg	56	09.40	
SAL	2.76	73	P	55	27.00	-0.8
PGF	2.84	144	Pn	55	29.40	0.3

13d 12h

		Sn	56 01.00			
LBF	2.86	318	Pn	55 29.60	0.4	
			Pg	55 37.20		
			Sg	56 14.40		
BDI	2.87	105	P	55 29.10	-0.4	
MME	2.90	102	P	55 30.60	0.5	
PII	2.95	112	P	55 30.20	-0.2	
BSF	2.95	1	Pn	55 30.60	0.0	
			Pg	55 38.10		
			Sg	56 17.60		
SAX	2.98	36	ePd	55 34.50	3.4X	
OSS	2.98	52	ePc	55 32.30	1.2	
MOF	2.98	5	Pn	55 31.21	0.2	
AVF	3.05	310	Pn	55 32.40	0.6	
			Sn	56 09.00		
FEL	3.12	16	eP	55 33.02	0.1	
LOR	3.12	321	Pn	55 33.20	0.3	
			Sg	56 23.80		
SLE	3.13	22	ePc	55 41.30	8.3X	
HAU	3.14	355	Pn	55 33.30	0.2	
			Pg	55 42.00		
			Sg	56 22.00		
SSF	3.14	315	Pn	55 34.00	0.8	
			Sg	56 24.00		
BGF	3.21	303	Pn	55 34.20	0.1	
			Sg	56 26.00		
MAF	3.23	296	Pn	55 35.00	0.5	
			Sg	56 27.00		
CAF	3.33	272	Pn	55 36.10	0.1	
			Pg	55 46.80		
			Sn	56 14.20		
ECH	3.35	5	Pn	55 35.98	-0.2	
VITF	3.38	351	Pn	55 36.18	-0.3	
TCF	3.49	295	Pn	55 38.40	0.3	
			Sg	56 33.40		
CDF	3.55	6	Pn	55 38.71	-0.3	
WLS	3.56	6	Pn	55 38.78	-0.3	
OGA	3.58	55	ePn	55 41.00	1.3	
CTI	3.64	70	P	55 40.00	-0.3	
RJF	3.73	278	Pn	55 42.10	0.5	
			Sg	56 41.00		
SFI	3.78	103	P	55 42.10	-0.1	
CRE	3.94	107	P	55 44.50	-0.1	
LPO	3.97	269	Pn	55 45.00	0.1	
			Sg	56 49.00		
LFF	4.27	273	Pn	55 48.40	-0.8	
FVI	4.55	66	P	55 53.00	-0.2	
ARV	4.66	105	P	55 53.40	-1.4	
RUP	4.83	2	eP	55 56.51	-0.7	
EPF	4.99	250	Pn	55 57.60	-1.8	
ABH	5.03	6	eP	55 58.61	-1.4	
KBA	5.09	62	iPnc	56 02.20	1.1	
			iSn	57 04.20		
MFF	5.13	292	Pn	56 01.20	-0.2	
DOU	5.42	345	iPc	56 05.10	-0.4	
	0.3s		48.10nm		5.6mb	
GRF	5.69	31	e(Pn)	56 10.00	0.7	
			ePg	56 31.00		
			eSg	57 49.70		
MEM	5.75	355	iPc	56 09.55	-0.6	
			S	57 16.90		
SNF	5.87	344	P	56 11.70	-0.1	
ENN	5.92	355	iPnc	56 11.90	-0.5	
			ePg	56 14.50		
			eSn	56 15.00		
LDF	6.01	311	Pn	56 13.20	-0.6	
LPF	6.24	303	Pn	56 15.10	-1.9	
GRR	6.31	306	Pn	56 17.00	-1.0	
S.D. = 0.8		on	88 of	96 obs.		

% FEB 13, 1991 12h 56m 49.86± 1.80s
44.871 N ± 4.9km 6.675 E ±14.7km
DEPTH = 5.0km (geophysicist)
FRANCE (538)
ML 1.8 (GEN).

RRL	0.09	58	P	56 52.08	0.0	
			S	56 54.01		
FOUF	0.35	167	ePg	56 57.40	0.5	
			i(Sg)	57 01.60		
BHB	0.42	94	P	56 58.30	0.0	
			S	57 04.15		
PZZ	0.48	140	P	56 59.61	0.2	
			S	57 05.80		
RSP	0.50	56	P	57 00.30	0.4	
			S	57 06.84		
LSD	0.68	30	P	57 03.21	-0.2	
			S	57 11.81		
STV	0.78	143	P	57 05.27	-0.3	
ENR	0.84	140	P	57 05.99	-0.6	
S.D. = 0.4		on	8 of	8 obs.		

? FEB 13, 1991 13h 26m 49.61± 3.31s
35.261 N ±27.4km 22.178 E ±23.8km
DEPTH = 10.0km (geophysicist)
4.1mb (1 obs.)
MEDITERRANEAN SEA (400)
MD 3.5 (ATH).

VAM	1.66	84	ePg	27 19.00	0.1	
ITM	1.93	354	ePb	27 29.50	6.8X	
NPS	2.81	89	ePn	27 36.00	0.6	
EVR	3.66	355	ePn	27 51.50	3.9X	
AGG	3.76	2	iP	27 50.70	1.8	
			iS	28 22.70		
IGT	4.51	342	ePc	28 01.24	1.7	
PAIG	4.81	14	iPd	28 03.30	-0.5	
LIT	4.84	3	ePd	28 04.60	0.4	
KZN	5.05	356	ePn	28 08.00	0.8	
FNA	5.55	354	eP	28 14.30	0.0	
GRG	5.69	2	ePd	28 15.42	-0.8	
KNT	5.92	5	ePc	28 18.40	-1.0	
SRS	5.95	10	ePd	28 18.76	-1.1	
HFS	25.49	350	eP	32 17.20	-2.1	
	0.4s		1.60nm		4.1mb	
S.D. = 1.3		on	12 of	14 obs.		

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* FEB 13, 1991 14h 03m 45.05± 1.16s
34.607 N ±12.3km 22.949 E ± 9.7km
DEPTH = 33.0km (normal)
4.4mb (5 obs.)
MEDITERRANEAN SEA (400)
MD 3.9 (ATH).

VAM	1.30	52	iPbc	04 09.80	2.8	
NPS	2.28	73	ePn	04 24.50	3.3X	
APE	3.23	40	ePn	04 34.50	-0.2	
ATH	3.42	10	ePn	04 35.50	-1.8	
KAP	3.59	74	ePn	04 41.50	1.7	
VLS	4.04	333	ePn	04 46.50	0.4	
EVR	4.40	348	ePn	04 52.50	1.2	
NEO	4.70	3	ePn	04 54.00	-1.4	
YER	5.01	58	iPn	05 00.10	0.1	
ELL	6.05	67	iPn	05 14.60	-0.2	
KHL	6.47	53	ePn	05 20.60	0.1	
KGT	6.78	29	iPn	05 22.00	-2.8	
JVI	10.72	101	eP	06 18.00	-1.4	
PRNI	11.03	109	eP	06 23.00	-0.5	
KHC	16.08	337	eP	07 35.60	5.4X	
PRU	16.56	341	eP	07 38.50	2.3	
DOU	20.50	325	Pc	08 23.70	1.1	
	0.7s		8.90nm		4.2mb	
HFS	26.25	350	eP	09 17.00	-1.6	
	0.4s		4.20nm		4.4mb	
KIC	37.99	229	P	11 10.00	8.3X	
GKN	52.41	79	P	12 57.52	0.7	
DMN	52.95	79	P	13 00.64	-0.3	
	0.5s		5.00nm		4.8mb	
PKI	53.21	79	P	13 03.04	0.1	
GUN	53.46	79	P	13 05.46	0.8	
	0.4s		4.00nm		4.7mb	
YKA	77.40	341	eP	15 39.20	1.2	
	0.7s		0.70nm		3.8mb	
ANMO	96.19	320	P	17 09.00	-2.4	
S.D. = 1.5		on	22 of	25 obs.		

FEB 13, 1991 14h 54m 14.45± 0.25s
22.082 S ± 5.6km 179.556 W ± 6.0km
DEPTH = 614.6km (8 depth phases)
5.3mb (31 obs.)
SOUTH OF FIJI ISLANDS (171)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 25C
Centroid Location:
Origin Time 14:54:17.8 1.4
Lat 22.25S 0.16 Lon 179.32W 0.07
Dep 605.9 4.2 Half-duration 2.0
Moment Tensor; Scale 10**17 Nm
Mrr= 0.09 0.07 Mtt=-0.15 0.12
Mff= 0.06 0.12 Mrt= 0.18 0.11
Mrf=-1.64 0.10 Mtf=-0.26 0.10
Principal Axes:
T Val= 1.77 Plg=44 Azm= 77

		N	-0.20	8	175	
		P	-1.57	44	273	
Best Double Couple:Mo=1.7*10**17						
NP1:Strike= 85 Dip= 8 Slip= 180						
NP2:		175	90	82		
SVA	4.36	334	iPc	55 41.60	-2.3	
			eS	56 54.70		
VUN	4.46	335	ePc	55 41.60	-3.0	
KRO	4.85	348	ePc	55 44.50	-3.0	
NDF	5.14	326	eP	55 47.00	-2.7	
MBU	5.34	342	ePc	55 49.50	-1.9	
NDE	5.57	349	eP	55 50.80	-2.5	
DZM	12.98	267	iPc	57 03.40	0.7	
			iS	59 22.60		
			ScP	04 25.00		
HBZ	15.57	186	eP	57 26.90	-0.7	
MRW	19.70	193	eP	58 05.00	-1.2	
			S	01 17.00		
TCW	19.77	194	eP	58 05.60	-1.3	
KHZ	21.09	194	eP	58 17.40	-1.4	
	0.4s		23.00nm		5.1mb	
LTZ	21.74	196	eP	58 22.90	-1.9	
MMCZ	24.68	199	eP	58 49.60	-1.4	
MHZ	24.69	199	eP	58 49.50	-1.6	
TLC	24.87	199	eP	58 51.60	-1.1	
COO	26.90	246	iPd	59 12.10	1.7	
			e	03 10.00		
RMO	29.17	255	iPd	59 30.90	0.8	
	1.0s		299.00nm		5.9mb	
			i	59 45.00	57kmX	
			e	03 44.50		
			i	05 06.00		
CNB	30.15	237	iPc	59 40.00	1.7	
	0.9s		181.00nm		5.7mb	
			iPcS	05 09.50		
CMS	32.18	246	iPd	59 56.00	0.7	
			eS	05 16.00		
QLP	33.22	255	iPd	00 05.00	0.8	
	0.7s		258.00nm		6.0mb	
TOO	33.80	235	iPd	00 10.90	2.0	
	0.8s		149.00nm		5.7mb	
PMG	34.34	286	iPd	00 13.00	-0.5	
	1.0s		320.00nm		5.9mb	
TAU	34.48	225	iPd	00 15.90	1.5	
BFD	35.95	237	eP	00 30.50	3.9X	
QIS	38.00	265	eP	00 42.00	-1.5	
			i	05 36.00		
ADE	38.58	241	iPd	00 48.70	0.6	
	0.8s		92.54nm		5.4mb	
ASPA	42.77	259	iPc	01 21.50	0.0	
	1.1s		289.00nm		5.7mb	
Z	17s		0.40um		4.4MszX	
			iPcP	02 58.60		
			iScP	05 55.90		
			iS	07 02.00		
			iScS	10 16.60		
WB2	42.96	264	iPd	01 22.10	-0.9	
			i	05 56.90		
			i	07 08.20		
FORR	47.31	248	eP	01 56.00	-0.1	
	0.4s		34.00nm		5.2mb	
MTN	47.76	273	iPc	01 58.90	-0.8	
	0.3s		119.00nm		5.9mb	
WARB	48.99	254	iPd	02 08.40	-0.3	
	0.4s		37.00nm		5.2mb	
KNA	49.11	268	iPd	02 09.40	-0.3	
	0.3s		60.00nm		5.6mb	
GUA	49.67	312	eP	02 13.30	-0.5	
	1.0s		240.00nm		5.6mb	
PJG	49.74	312	eP	02 13.70	-0.5	
MBL	56.01	259	iPd	02 58.10	-0.7	
MEKA	56.12	252	eP	02 58.30	-1.2	
NWAO	56.37	244	eP	03 01.00	-0.1	
	0.9s		54.00nm		4.8mb	
MUN	57.34	245	iPc	03 08.10	0.4	
	0.8s		88.00nm		5.0mb	
MRWA	57.91	249	eP	03 11.20	-0.5	
NANU	59.60	256	eP	03 22.50	-0.4	
MAT	70.64	325	iPd	04 30.00	-1.1	
	0.9s		23.53nm		4.7mb	
OFUJ	70.84	329	eP	04 31.40	-0.8	
YAMJ	70.94	327	eP	04 32.30	-0.4	
QZH	76.09	304	P	05 03.50	1.6	
NJ2	79.78	311	Pd	05 22.50	1.1	
	1.1s		100.00nm		5.2mb	
SYP	79.81	46	eP	05 23.00	1.3	

PRS	79.96	44	eP	05	22.90	0.7	MKRJ	147.32	294	PKPd	12	52.55	4.1X				eSg	49	57.50				
PRI	80.30	45	eP	05	25.10	0.9	BBTK	147.35	310	iPKPd	12	40.50	-7.8X	LPG	0.61	359	Pg	49	51.30	0.1			
BRK	80.32	42	e(P)	05	24.10	0.1				e	13	00.00					Sg	50	00.00				
MHC	80.39	43	eP	05	25.10	0.5	LISJ	147.50	294	PKPd	12	52.99	4.5X	LPL	0.63	358	Pg	49	51.50	-0.1			
LLA	80.40	44	e(P)	05	25.00	0.5	JVI	147.51	295	iPKPd	12	53.00	4.3X	LSD	0.64	26	Pc	49	51.58	-0.2			
MWC	80.94	48	eP	05	28.00	0.5	VRI	148.05	324	ePKPc	12	52.50	3.4X				S	50	01.76				
PLM	81.28	49	eP	05	30.00	0.7	KRA	148.14	336	ePKPd	12	52.50	3.5X	STV	0.76	148	P	49	53.23	-1.0			
			e	07	41.00	624km	RMN	148.32	293	iPKPd	12	58.40	8.3X	GRN	0.80	297	Pg	49	54.86	-0.2			
FRI	81.43	44	ePc	05	29.80	0.1	BMR	148.46	330	ePKP	12	55.00	5.4X				Sg	50	04.12				
			epP	07	39.80	617km	MLR	148.71	324	ePKP	12	54.00	3.7X	RSL	0.81	353	Pg	49	54.50	-0.7			
ISA	81.47	46	eP	05	30.00	-0.1	SPC	148.72	335	ePKP	12	54.80	4.6X				Sg	50	06.60				
			e	07	41.00	623km	KSP	148.73	341	iPKPd	12	54.70	4.8X	ENR	0.81	144	P	49	54.22	-1.0			
CMB	81.60	43	ePc	05	30.80	0.2		1.0s		62.00nm				TOUF	0.94	158	Pg	49	56.91	-0.5			
			epP	07	40.60	615km				ic	13	01.30		ROB	0.99	126	Pc	49	57.76	-0.5			
WDC	81.81	40	ePc	05	32.00	0.5				e	15	16.50					S	50	10.99				
			epP	07	42.40	619km	WIT	148.95	353	ePKP	12	56.00	5.9X	AUTN	1.01	151	Pg	49	58.21	-0.5			
ORV	81.82	42	eP	05	32.10	0.5	CLL	149.23	345	ePKP	12	51.00	0.4				Sg	50	12.28				
IPM	81.94	278	ePd	05	33.90	1.1	BRG	149.38	343	ePKP	12	51.60	0.7	SAOF	1.06	147	Pg	49	59.25	-0.2			
	1.0s	145.40nm			5.5mb					i	12	56.50					Sg	50	13.97				
CLC	82.15	46	eP	05	33.00	-0.4				i	13	02.80		AURF	1.08	158	Pg	49	59.43	-0.3			
			e	07	42.00	609km				epPKP	15	19.80		SBF	1.13	154	Pg	50	00.51	-0.1			
WHN	82.22	307	Pc	05	35.50	1.7	WTS	149.74	352	ePKP	12	51.50	0.1	CALN	1.14	175	Pg	50	00.73	-0.1			
MIN	82.23	41	ePc	05	33.70	-0.2		0.9s		73.00nm				ORO	1.14	49	P	50	01.00	0.2			
TPC	82.26	49	eP	05	34.00	0.0				eP'P'	12	56.00					eSg	50	17.00				
			e	07	43.00	609km	PSZ	149.87	333	e(PKP)	12	57.00	5.2X	ORX	1.14	49	Pc	50	00.31	-0.6			
GSC	82.40	47	eP	05	34.00	-0.7	PRU	150.01	342	PKPd	12	57.80	5.9X				S	50	15.61				
SNY	82.50	321	iPd	05	35.40	0.5		1.0s		36.10nm				CKI	1.18	112	P	50	02.00	0.6			
	1.0s	100.00nm			5.3mb					e	13	06.50					eSg	50	18.50				
GLA	82.55	50	eP	05	36.00	0.5				e	13	17.00		EMS	1.19	6	ePd	50	01.70	-0.1			
CN2	82.68	323	Pd	05	35.10	-0.7				pPKP	15	18.00		REVF	1.22	159	Pg	50	02.17	-0.1			
	1.6s	200.00nm			5.4mb		MOX	150.18	346	iPKP	12	58.00	5.9X	FIN	1.24	123	Pc	50	01.89	-0.5			
			pP	07	43.00	601km		1.2s		41.00nm							S	50	18.03				
			S	15	07.00					e	13	07.00		IMI	1.27	140	P	50	02.21	-0.8			
TIA	83.28	313	Pd	05	39.90	0.9	HOF	150.42	345	iPKPc	12	59.00	6.5X				S	50	18.15				
	1.0s	100.00nm			5.3mb		SRO	150.59	335	ePKP	13	01.80	9.0X	VILF	1.28	216	Pg	50	04.46	1.4			
SNG	83.33	280	eP	05	41.90	2.3X				i	13	07.50					Sg	50	23.01				
BJI	86.01	316	eP	05	52.50	0.4				e	15	20.80		DIX	1.28	21	ePc	50	02.70	-0.6			
	1.5s	70.00nm			5.2mb		ZST	150.73	337	e(PKP)	13	00.00	7.0X	PCP	1.32	104	Pc	50	03.82	0.0			
			SKS	15	20.00					e	13	10.00					S	50	21.03				
GYA	86.18	300	P	05	54.40	1.0	ENN	151.05	353	ePKP	12	52.00	-1.4	FRF	1.33	184	Pn	50	03.80	-0.1			
NNT	86.26	285	iPd	05	57.90	4.1X		1.0s		33.00nm							Pg	50	05.20				
LOE	86.43	290	iPd	05	55.80	1.2				iP'P'	12	59.80					Sg	50	23.60				
PMR	86.89	14	iPc	05	55.90	0.1				i	13	10.00		TAVF	1.36	202	Pg	50	05.32	0.7			
	0.7s	11.10nm			4.7mb		KHC	151.06	342	PKP	13	02.00	8.4X				Sg	50	23.47				
TIY	87.26	313	Pd	05	59.00	0.8				i	13	12.70		CDR	1.40	211	e(Pg)	d50	05.40	0.2			
	1.2s	100.00nm			5.4mb					e	15	07.50					e	50	06.10				
XAN	87.95	308	P	06	02.80	1.4	TNS	151.22	349	ePKPc	13	00.90	7.1X				i	50	19.30				
	1.0s	40.00nm			5.2mb		WET	151.24	343	iPKPc	13	01.00	7.2X				i(Sg)	50	23.70				
TOA	88.03	15	eP	06	01.90	0.7				i	13	12.00		MMK	1.44	36	ePd	50	06.30	0.3			
KHT	88.14	287	eP	06	04.00	1.4	ABH	151.70	350	ePKP	13	01.64	7.2X	LRG	1.46	192	Pn	50	06.40	0.5			
BDT	88.75	289	eP	06	06.20	0.9	DOU	151.85	354	PKP	13	02.10	7.5X				Pg	50	07.20				
	1.0s	62.10nm			5.4mb		KBA	152.97	340	i(PKP)	13	04.50	8.0X				Sg	50	27.20				
PNT	88.77	35	ePd	06	06.00	1.2		1.0s		9.80nm				PUYF	1.55	210	Pg	50	08.89	1.6			
	0.9s	19.00nm			5.0mb					e	13	19.00					Sg	50	29.25				
CHG	89.42	290	iPd	06	10.30	1.8	SKO	153.48	323	iPKP	13	06.00	8.9X	LMR	1.56	187	Pn	50	07.80	0.4			
	1.0s	72.50nm			5.5mb					i	13	22.00					Pg	50	08.50				
HHC	89.43	315	Pd	06	08.50	0.3	BCAO	155.20	228	ePKPc	13	00.90	0.6				Sg	50	29.00				
IMA	90.05	10	ePc	06	10.90	0.4		0.5s		30.00nm				PRAF	1.57	227	Pg	50	09.98	2.4			
	0.6s	4.50nm			4.6mb					ic	13	30.20		TREF	1.60	219	Pg	50	10.76	2.8X			
FBA	90.10	13	iPc	06	10.20	-0.4				id	15	35.70					Sg	50	33.01				
	0.8s	14.50nm			5.0mb					ic	17	09.30		VAI	1.72	55	Pd	50	09.70	0.0			
BTO	90.32	314	eP	06	13.50	1.2		S.D. = 1.1		on 94 of 135 obs.							eSg	50	32.30				
CD2	90.43	303	eP	06	14.00	1.1	----------							BERF	1.75	206	Pg	50	11.37	1.1			
INK	96.18	16	eP	06	38.00	-0.2	FEB 13, 1991 15h 49m 38.95± 0.15s							GELF	1.78	213	Pg	50	12.70	2.1			
GTA	96.85	310	eP	06	42.20	0.1	44.885 N ± 1.4km 6.760 E ± 1.7km							BOB	1.92	93	P	50	13.70	1.1			
	1.4s	10.00nm			4.9mb		DEPTH = 5.0km (geophysicist)										eSn	50	36.30				
YKA	98.55	25	eP	06	47.90	-1.1	FRANCE						(538)	MDI	2.27	66	P	50	17.40	-0.2			
	0.8s	0.50nm			3.9mb	X	ML 3.8 (LDG), 3.7 (GEN). MD 3.6							PLDF	2.46	297	Pn	50	20.05	-0.4			
KAF	136.25	343	ePKP	12	28.50	0.3	(STR). Nine people killed by on							LOMF	2.47	1	Pn	50	21.21	0.7			
NUR	138.02	342	ePKP	12	32.00	0.5	avalanche which wos triggered by										Pg	50	26.60				
NB2	140.35	352	PKP	12	29.00	-6.8X	the earthquoke.							LBL	2.51	279	Pn	50	21.04	0.0			
	1.0s	8.90nm															Sg	50	58.00				
HFS	140.85	350	ePKP	12	29.00	-7.6X	RRL	0.04	27	Pc	49	40.96	0.5	LLS	2.53	37	ePd	50	24.50	3.0X			
	0.9s	16.60nm								S	49	42.50		BBS	2.63	11	Pn	50	22.49	-0.4			
LWI	143.24	232	iPKPd	12	42.20	-0.2	BNI	0.18	340	Pd	49	42.60	-0.1				Sg	51	05.54				
KAS	146.04	312	iPKPd	12	49.00	2.9X				eSg	49	45.60		SMF	2.70	312	Pn	50	23.80	0.0			
EKA	146.69	4	PKPc	12	49.00	2.4X	FOUF	0.36	177	ePgd	49	45.47	-0.6				Pg	50	30.80				
	0.9s	14.00nm								i	49	45.92					Sg	51	06.40				
MDSJ	146.79	294	PKPd	12	51.38	3.8X				e(Sg)	49	48.52		SAL	2.76	73	P	50	25.50	0.9			
GHZJ	146.86	292	PKPd	12	51.34	3.6X	BHB	0.36	97	Pc	49	46.68	0.5	PYM	2.78	289	Pn	50	25.45	0.3			
BHL	146.91	299	PKP	12	50.00	2.3X				S	50	52.30		ZLA	2.83	23	ePc	50	26.60	0.8			
HRI	146.96	297	iPKPd	12	51.60	3.7X	SURF	0.41	175	Pg	49	46.39	-0.7	PGF	2.84	144	Pn	50	23.00	-3.0			
JARJ	146.96	295	PKPd	12	51.57	3.7X	RSP	0.44	53	Pc	49	48.38	0.5	LBF	2.86	318	Pn	50	26.80	0.7			
SHMJ	147.04	296	PKPd	12	53.80	5.9X				S	49	54.50					Pg	50	34.00				
OTRJ	147.04	294	PKPd	12	52.02	4.0X	PZZ	0.45	147	P	49	47.60	-0.4				Sg	51	11.00				
BURJ	147.08	296	PKPd	12	53.52	5.4X				S	49	53.00		MME	2.90	102	P	50	27.40	0.5			
SALJ	147.22	295	PKPd	12	52.39	4.1X	DOI	0.52	138	Pc	49	48.90	-0.4	PII	2.94	112	Pd	50	26.80	-0.4			

13d 15h

BSF	2.95	0	Pn	50	27.20	-0.2				ePg	51	11.00					
			Pg	50	35.00					eSn	52	13.00					
SAX	2.97	36	ePd	50	30.50	2.6	WET	5.97	42	iPnc	51	10.70	0.6				
MOF	2.98	5	Pn	50	27.73	-0.1	LDF	6.01	311	Pn	51	09.50	-1.1				
AVF	3.05	310	Pn	50	29.20	0.5	LPF	6.24	303	Pn	51	13.00	-0.9				
			Sg	51	18.30		KHC	6.31	45	Pn	51	16.60	1.7				
FEL	3.11	16	eP	50	29.22	-0.5				e	51	21.50					
SLE	3.12	22	ePc	50	29.70	-0.1				eSg	52	32.00					
LOR	3.12	321	Pn	50	30.00	0.2	GRR	6.31	306	Pn	51	13.80	-1.1				
HAU	3.13	355	Pn	50	30.00	0.1	PRU	7.34	43	eP	51	30.00	0.6				
			Pg	50	38.60					eSn	53	05.00					
			Sg	51	21.50					Sg	53	40.00					
SSF	3.14	315	Pn	50	30.40	0.3		S.D. = 0.9		on 107 of 112 obs.							
			Pg	50	38.80												
			Sg	51	19.60			FEB 13, 1991 16h 28m 19.77± 0.41s									
BGF	3.21	303	Pn	50	31.00	0.0		29.727 N ± 6.8km 96.888 E ± 5.0km									
			Pg	50	41.20			DEPTH = 33.0km (normal)									
			Sg	51	22.00			4.7mb (9 obs.)									
MAF	3.23	296	Pn	50	32.00	0.6		INDIA-CHINA BORDER REGION								(313)	
			Pg	50	41.60			ML 4.2 (BJI).									
			Sg	51	23.60												
CAF	3.34	272	Pn	50	32.70	-0.2	LSA	4.99	271	Pn	29	39.80	5.0X				
			Pg	50	43.00		CD2	6.06	77	ePn	29	51.70	2.3				
			Sg	51	28.50					Pg	30	10.00					
ECH	3.34	5	Pn	50	32.74	-0.2				eSg	31	29.00					
			Pg	50	43.84		KMI	6.93	130	Pnc	30	02.50	0.6				
VITF	3.38	351	Pn	50	33.03	-0.3		Z 10s		1.00um							
TCF	3.49	295	Pn	50	35.60	0.6				iPg	30	20.50					
			Sg	51	31.80		LZH	8.62	41	eP	30	26.30	0.9				
CDF	3.55	6	Pn	50	35.19	-0.7		1.0s		18.00nm			5.2mb				
WLS	3.55	6	Pn	50	35.04	-0.9		Z 10s		0.53um			4.2MszX				
			Pg	50	48.61					pP	30	31.50					
OGA	3.58	55	ePn	50	38.30	1.9	GYA	9.23	108	iPc	30	31.80	-1.9				
CTI	3.63	70	Pd	50	36.80	-0.3				S	32	17.00					
			eSn	51	19.10		GUN	9.82	262	P	30	41.60	-0.5				
PGD	3.70	104	P	50	37.40	-0.7		0.3s		61.00nm			6.3mb X				
HYF	3.73	311	Pn	50	36.90	-1.5	GTA	9.96	13	eP	30	45.20	1.4				
			Pg	50	51.00			Z 11s		0.60um							
RJF	3.74	278	Pn	50	38.90	0.4		N 10s		0.50um							
			Sg	51	38.00		PKI	10.31	261	P	30	47.60	-1.2				
SFI	3.77	103	P	50	38.50	-0.5		0.4s		69.00nm			6.3mb X				
SQTA	3.88	51	iPnc	50	43.90	3.2X	KKN	10.37	262	P	30	48.16	-1.3				
			iSn	51	31.80		DMN	10.56	261	P	30	51.04	-1.1				
MOTA	3.90	49	iPnc	50	43.40	2.5	GKN	10.88	264	P	30	54.44	-1.9				
			i	50	57.40		CHG	11.02	170	eP	31	00.30	2.0				
			iSn	51	29.60		XAN	11.09	64	P	30	57.70	-1.5				
LSF	3.92	292	Pn	50	41.20	0.1	KHT	14.95	174	eP	31	54.00	3.5X				
			Pg	50	52.80		WHN	15.13	83	eP	31	52.00	-0.8				
			Sg	51	43.50					sP	32	05.00					
CRE	3.94	107	Pd	50	41.40	0.0	TIY	15.18	54	Pc	31	53.40	0.0				
			eSn	51	24.20			0.7s		100.00nm			5.2mb				
LPO	3.97	269	Pn	50	42.00	0.1		Z 11s		0.50um			4.6Msz				
			Pg	50	54.20					pP	31	58.00					
			Sg	51	47.00		BTO	15.24	41	eP	31	52.00	-2.3				
WTTA	4.14	53	iPnc	50	45.80	1.4	WMQ	15.86	335	P	32	08.70	6.5X				
			iPg	51	00.50		QIZ	15.88	129	eP	32	04.60	2.1				
			iSn	51	31.80		HHC	16.31	43	eP	32	07.30	-0.6				
WATA	4.15	52	i(Pn)	50	46.00	1.5	NDI	17.21	271	eP	32	20.00	0.8				
			iSn	51	30.40		NNT	17.26	171	eP	32	20.80	0.9				
LFF	4.28	273	Pn	50	46.20	0.0	BJI	18.84	52	eP	32	39.50	0.3				
			Pg	51	00.00		QZH	19.85	99	eP	32	49.60	-1.3				
			Sg	51	56.00		HYB	20.76	238	eP	33	00.00	-0.4				
FVI	4.55	66	P	50	49.20	-0.8	SSE	20.99	80	eP	33	00.00	-2.7				
ARV	4.66	105	P	50	51.50	-0.1		Z 12s		0.45um			4.1MszX				
RUP	4.82	2	eP	50	52.94	-1.1	GBA	24.11	232	P	33	36.00	2.5				
EPF	4.99	250	Pn	50	55.20	-1.2	SNY	24.69	53	eP	33	38.40	-0.5				
			Pg	51	13.00			0.8s		20.00nm			4.7mb				
TRI	5.01	78	eP	50	54.90	-1.6	IPM	25.32	170	ePc	33	45.30	0.2				
			e	51	53.30		CN2	26.69	50	eP	33	59.70	2.1				
ABH	5.03	6	eP	50	54.37	-2.5	WB2	61.17	139	eP	38	31.00	-2.6				
KBA	5.09	62	iPnc	50	59.00	1.2				e	40	07.00					
			iSn	51	55.80		HFS	61.40	326	eP	38	35.70	1.0				
BHG	5.10	54	eP	51	01.10	3.2X		0.5s		1.00nm			4.2mb				
MFF	5.13	292	Pn	50	58.00	-0.3	NB2	62.43	327	P	38	42.20	0.6				
BTH	5.32	253	Pg	51	19.50	18.5X		0.7s		1.90nm			4.3mb				
			Sg	51	31.00		ASPA	63.90	142	iPd	38	50.30	-1.5				
			Lg	51	40.50			0.8s		6.50nm			4.8mb				
DOU	5.42	345	iP	51	01.90	-0.4	LPG	69.56	311	eP	39	29.20	1.4				
TNS	5.46	11	ePn	51	02.60	-0.4		0.5s		3.65nm			4.7mb				
			eSn	52	34.40		LPL	69.56	311	eP	39	29.00	1.3				
GRF	5.69	31	ePn	51	05.30	-0.8		0.5s		4.35nm			4.8mb				
			ePg	51	27.80		FBA	73.29	24	P	39	50.20	0.8				
			eSg	52	50.10		INK	75.41	17	eP	40	02.00	0.5				
MEM	5.75	355	iPd	51	06.25	-0.7	YKA	84.69	14	eP	40	51.50	0.3				
SNF	5.87	344	iP	51	08.20	-0.5		0.6s		0.80nm			4.1mb				
ENN	5.91	355	iPnc	51	08.60	-0.6		S.D. = 1.5		on 36 of 39 obs.							
	0.5s		36.00nm			5.3mb X											

% FEB 13, 1991 16h 34m 43.59± 2.60s																	
23.153 N ±16.8km 121.808 E ±18.0km																	
DEPTH = 10.0km (geophysicist)																	
TAIWAN																(244)	
TWF1	0.51	293	iPc	34	54.50	0.6											
			eS	35	00.60												
TWG	0.76	244	iPd	34	58.60	0.2											
TWD	0.94	348	iPc	35	00.80	-0.8											
TWK	1.22	276	ePd	35	05.40	-0.9											
			eS	35	20.00												
TWC	1.45	1	ePc	35	09.20	-0.6											
TWZ	1.95	354	eP	35	16.20	-0.8											
ANP	2.04	353	eP	35	20.50	2.0											
S.D. = 1.3 on 7 of 7 obs.																	
FEB 13, 1991 16h 44m 52.09± 0.18s																	
9.909 S ± 3.3km 159.076 E ± 3.9km																	
DEPTH = 21.5km (4 depth phases)																	
5.5mb (30 obs.) 4.6Msz (8 obs.)																	
SOLOMON ISLANDS																(193)	
VSG	0.91	44	iP	45	07.00	-2.0											
			iS	45	17.00												
HNR	0.98	61	iP	45	08.90	-1.4											
			iS	45	21.00												
SVO	1.05	44	iP	45	11.00	-0.4											
			iS	45	25.00												
RAB	8.90	309	e(P)	47	16.00	13.5X											
PMG	11.77	271	eP	47	45.00	3.2X											
DZM	14.01	151	iPc	48	12.90	1.2											
RMQ	19.17	209	iPd	49	17.70	0.7											
	1.0s		304.00nm			5.5mb											
SVA	20.48	116	eP	49	32.50	1.1											
QIS	21.54	238	iPd	49	42.80	0.6											
	0.8s		105.00nm			5.3mb											
COO	21.63	197	iPc	49	43.90	0.9											
	0.9s		107.00nm			5.3mb											
QLP	21.73	218	iPd	49	43.80	-0.2											
			i	49	47.30	13km											
CMS	24.74	208	iPd	50	13.90	0.5											
	1.0s		279.00nm			5.8mb											
WB2	25.85	244	iPd	50	23.50	-0.6											
CNB	26.80	198	iPc	50	33.20	0.5											
	1.0s		115.00nm			5.5mb											
GUA	27.21	329	eP	50	38.00	1.5											
	1.0s		200.00nm			5.7mb											
PJG	27.27	329	eP	50	37.40	0.3											
ASPA	27.65	237	iPd	50	39.30	-1.3											
	1.0s		89.80nm			5.4mb											
Z 21s			1.80um			4.6Msz											
			eS	55	31.40												
KNA	30.10	256	eP	51	01.70	-0.9											
TOO	30.14	202	eP	51	02.00	-0.8											
BFD	30.98	206	iPd	51	12.30	2.1											
	1.0s		52.00nm			5.3mb											
ADE	31.11	214	iPd	51	10.60	-0.8											
	0.8s		141.79nm			5.9mb											
NOZ	33.26	152	eP	51	29.50	-0.5											
MNG	33.87	157	eP	51	34.10	-1.2											
	0.5s		54.00nm			5.7mb											
TCW	33.95	159	eP	51	35.30	-0.7											
THZ	33.98	161	eP	51	35.50	-0.9											
WDW	34.25	158	eP	51	36.90	-1.7											
MTW	34.34	158	eP	51	37.80	-1.6											
TAU	34.44	195	iPd	51	40.90	0.7											
WARB	34.69	238	iPd	51	42.40	-0.2											
	0.4s		41.00nm			5.7mb											
FORR	35.54	230	iPc	51	49.00	-0.7											
	0.4s		39.00nm			5.7mb											
MQZ	35.68	163	eP	51	49.60	-1.2											
DAV	37.40	296	eP	52	06.00	0.4											
MBL	39.32	249	eP	52	20.70	-1.0											
	0.5s		48.00nm			5.5mb											
MEKA	41.71	241	iPd	52	41.80	0.5											
NANU	43.50	248	iPd	52	55.80	-0.1											
MRWA	44.59	238	iPd	53	04.60	-0.1											
	0.4s		10.00nm			5.1mb											
NWAO	44.78	233	iPd	53	06.00	-0.2											
	0.8s		94.00nm			5.7mb											
Z 20s			1.00um			4.7Msz											
N 20s			0.70um														
E 20s			0.70um														
QCP	44.88	302	eP	52	54.50	-12.6X											
MUN	45.27	234	eP	53	09.80	-0.3											
	0.9s		103.00nm			5.8mb											
KKM	45.54	289	ePc	53	12.50	-0.1											

1.0s 58.20nm 5.5mb
BAG 46.20 304 eP 53 17.50 -0.3
KAGJ 48.99 328 eP 53 31.40 -7.8X
IIDJ 49.37 337 P 53 44.00 1.8
CHJJ 49.48 339 P 53 42.10 -0.8
KUMJ 50.09 329 eP 53 48.10 0.5
MAT 50.20 338 iPd 53 46.80 -1.7
0.8s 6.72nm 4.7mb
eS 00 54.00
MTMJ 50.39 338 P 53 49.20 -0.8
YAMJ 51.03 341 eP 53 54.20 -0.6
SHNJ 51.21 330 eP 53 55.20 -0.9
OFUJ 51.36 343 eP 53 56.30 -0.9
SSE 54.61 320 P 54 21.20 -0.3
Z 20s 0.40um 4.5Msz
eS 01 52.00
OIZ 56.41 301 P 54 35.00 0.2
NJ2 56.73 319 Pd 54 34.00 -2.8
WHN 58.84 315 eP 54 51.50 -0.1
IPM 59.59 281 ePd 54 55.80 -1.4
1.0s 37.40nm 5.5mb
DL2 59.78 327 eP 54 59.00 1.0
1.0s 90.00nm 5.9mb
pP 55 06.00 23km
eS 03 06.00
MDJ 60.47 336 Pd 55 03.60 1.0
TIA 60.52 322 eP 55 01.50 -1.7
SNY 60.93 330 eP 55 04.00 -1.7
CN2 61.57 333 iPc 55 09.00 -1.1
1.0s 80.00nm 5.8mb
Z 20s 0.70um 4.8Msz
pP 55 25.00 59kmX
eS 03 30.00
GYA 62.42 307 P 55 16.40 0.1
LOE 62.82 295 iPd 55 18.40 -0.5
NNT 63.03 290 eP 55 21.40 1.1
BJI 63.61 324 eP 55 23.00 -0.7
1.2s 24.00nm 5.2mb
eS 03 53.00
NST 63.66 293 eP 55 25.00 0.6
TIY 64.38 320 eP 55 27.50 -1.5
Z 17s 0.60um 4.9MszX
S 04 08.00
KHT 64.77 291 iPd 55 31.50 -0.3
KMI 64.98 304 Pc 55 34.00 0.7
2.0s 100.00nm 5.6mb
pP 55 41.50 24km
ADK 64.99 16 eP 55 32.80 0.3
CHG 65.80 296 iPd 55 38.10 -0.2
1.0s 15.50nm 5.1mb
CD2 66.77 310 eP 55 45.00 0.6
BTO 67.62 322 eP 55 50.00 0.3
LZH 69.21 315 eP 56 00.00 0.2
1.5s 59.00nm 5.5mb
Z 20s 0.24um 4.4Msz
pP 56 11.00 36kmX
GTA 73.62 316 Pd 56 26.60 0.6
1.2s 20.00nm 5.0mb
Z 20s 0.30um 4.6Msz
pP 56 38.20 39kmX
SS 06 18.00
LSA 76.24 304 eP 56 42.90 1.2
SVW 79.22 21 eP 56 58.60 1.6
GUN 80.07 301 P 57 02.80 0.1
SPA 80.16 180 iPd 57 02.80 0.7
1.0s 32.50nm 5.3mb
PKI 80.37 300 P 57 04.60 0.4
KKN 80.54 300 P 57 05.00 0.0
DMN 80.64 300 P 57 06.20 0.6
GKN 81.15 300 P 57 08.00 -0.1
PMR 81.88 22 ePc 57 12.10 1.2
1.2s 42.60nm 5.4mb
IMA 83.29 18 eP 57 19.40 1.0
1.3s 21.20nm 5.2mb
TOA 83.31 23 eP 57 20.60 2.2
KOD 83.61 282 eP 57 22.30 1.1
WMQ 83.70 316 P 57 21.20 0.4
eS 07 44.00
HYB 84.03 289 ePd 57 23.00 0.1
GBA 84.30 285 P 57 25.20 1.0
FBA 84.40 20 ePd 57 24.60 0.8
BRW 86.21 13 eP 57 32.20 -0.5
MHC 87.55 52 ePc 57 43.50 3.4X
WDC 87.69 48 ePc 57 43.80 3.3X
PRI 88.02 53 ePc 57 46.30 3.9X
SYP 88.19 55 eP 57 53.00 9.7X
ORV 88.20 49 e(P) 57 45.80 2.8X
MIN 88.32 49 eP 57 45.30 1.5
CMB 88.68 51 ePc 57 48.50 3.1X
FRI 88.97 52 ePc 57 49.80 3.1X
ISA 89.65 54 eP 57 54.00 3.9X
MWC 89.67 55 eP 57 47.00 -3.4X
SBB 89.96 55 eP 57 53.00 1.5
RVR 90.18 56 eP 57 55.00 2.5X
CLC 90.38 54 eP 57 54.00 0.6
PLM 90.47 56 eP 57 55.00 0.9
GSC 90.90 54 eP 57 57.00 1.1
INK 91.03 20 eP 57 55.00 -0.6
TNP 91.13 52 P 57 58.00 0.9
pP 58 06.50 26km
PNT 91.82 40 eP 58 01.00 1.3
GLA 92.09 57 eP 57 50.00 -11.4X
YKA 97.01 28 eP 58 22.10 -1.0
0.9s 1.80nm 4.6mb
BUL 122.84 238 iPKPc 03 49.50 0.4
HFS 123.63 340 ePKP 03 46.40 -2.9X
0.6s 1.50nm
Z 18s 0.11um 4.6Msz
LR 49 43.00
NB2 123.74 342 PKP 03 48.60 -1.0
0.8s 3.90nm
ZOBO 126.54 119 ePKP 03 56.00 -1.0
Z 23s 0.03um 3.8MszX
LR 45 05.00
KSP 129.03 330 ePKP 03 52.50 -7.5X
SRO 129.84 326 ePKP 04 01.80 0.2
BRG 130.12 332 ePKP 04 05.60 3.5X
e 04 23.40
CLL 130.26 333 e(PKP)04 14.00 11.7X
SIV 132.65 123 PKP 04 06.60 -1.3
BSF 135.56 333 ePKP 04 22.10 9.4X
LOR 137.26 335 ePKP 04 27.90 12.1X
1.0s 7.00nm
Z 22s 0.20um 4.8Msz
LPG 137.33 331 ePKP 04 16.50 0.1
1.0s 6.00nm
SSF 137.57 335 ePKP 04 28.70 12.3X
1.2s 13.10nm
BGF 138.24 335 ePKP 04 29.50 11.8X
0.8s 6.70nm
BCAO 140.50 265 ePKPd 04 14.60 -8.1X
0.5s 16.00nm
ic 04 24.10
TOL 146.59 336 ePKP 04 37.00 4.6X
ePP 08 15.00
PDCR 151.30 141 ePKP 04 40.20 -0.1
e 04 45.60
e 04 53.50
IFR 152.38 331 iPKPc 04 50.00 8.3X
KIC 163.60 259 PKP 04 55.88 0.6
LIC 163.84 258 PKP 04 56.14 0.7
TIC 163.93 260 PKP 04 56.44 0.8
S.D. = 1.0 on 106 of 132 obs.

FEB 13, 1991 17h 31m 27.94± 0.56s
37.439 N ± 5.3km 21.992 E ± 5.7km
DEPTH = 10.0km (geophysicist)
3.5mb (1 obs.)
SOUTHERN GREECE (368)
ML 3.4 (ATH).

ITM 0.26 191 eP 31 33.00 -0.5
VLS 1.33 304 eP 31 54.00 1.5
ATH 1.47 68 eP 31 54.50 0.1
EVR 1.48 354 eP 31 55.00 0.3
AGG 1.60 9 eP 31 56.10 -0.3
NEO 2.10 27 eP 32 03.00 -0.6
IGT 2.46 329 ePc 32 10.52 1.8
iS 32 42.62
LIT 2.69 8 ePc 32 12.36 0.4
eS 32 46.02
VAM 2.70 138 eP 32 14.00 1.8
PAIG 2.81 27 ePc 32 12.53 -1.2
eS 32 48.62
APE 2.85 96 eP 32 13.20 -1.1
KEK 2.85 324 ePg 32 22.00 7.7X
KZN 2.87 357 eP 32 18.00 3.4X
LSK 2.92 339 ePn 32 16.90 1.6
PLG 3.14 21 eP 32 18.00 -0.4
TPE 3.24 332 ePn 32 21.50 1.6
iSn 33 30.50
FNA 3.37 352 eP 32 22.90 1.1
BERA 3.63 335 ePn 32 28.10 2.8X
NPS 3.64 126 eP 32 27.00 1.5
OHR 3.78 346 ePn 32 29.70 2.1
KNT 3.78 10 ePd 32 27.33 -0.2
eS 33 12.85
PRK 3.82 60 eP 32 28.70 0.7
SRS 3.88 18 iPc 32 28.12 -0.8
eS 33 14.81
VAY 3.90 6 ePn 32 29.00 -0.2
TIR 4.24 338 eP 32 51.50 17.6X
LCI 4.28 314 P 32 33.10 -1.4
SKO 4.55 355 ePn 32 39.00 0.6
KAP 4.58 113 eP 32 39.00 0.2
ALN 4.67 41 ePc 32 38.76 -1.4
SOI 4.75 279 P 32 44.00 2.8X
eSn 33 43.00
TDS 4.96 298 P 32 50.00 5.8X
BRT 5.06 314 P 32 45.50 -0.2
MEU 5.64 269 P 32 51.50 -2.5
eSn 33 57.00
HFS 23.33 349 eP 36 34.40 -2.4
1.2s 22.50nm 4.6mb X
NB2 24.58 347 P 36 47.00 -2.0
0.6s 0.70nm 3.5mb
S.D. = 1.3 on 29 of 35 obs.

? FEB 13, 1991 18h 49m 18.12± 1.81s
11.308 N ±13.6km 62.034 W ±28.4km
DEPTH = 120.0km (geophysicist)
WINDWARD ISLANDS (95)
MD 2.9 (TRN).

TCE 0.67 156 eP 49 37.18 -0.3
eS 49 50.81
TRN 0.90 137 eP 49 39.65 0.2
eS 49 54.95
GRW 0.92 23 eP 49 39.86 0.1
eS 49 56.33
TBH 1.25 131 eP 49 43.37 0.3
eS 49 59.35
BOT 1.30 96 eP 49 43.33 -0.3
eS 49 59.27
S.D. = 0.4 on 5 of 5 obs.

FEB 13, 1991 19h 28m 03.57± 0.42s
38.115 N ± 3.8km 22.876 E ± 4.3km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 3.3 (ATH).

ATH 0.68 102 eP 28 17.00 0.0
eS 28 26.50
AGG 1.00 335 eP 28 22.90 0.3
eS 28 36.12
EVR 1.16 314 eP 28 25.00 -0.3
ITM 1.20 219 eP 28 24.50 -1.4
NEO 1.22 13 eP 28 26.00 -0.3
VLS 1.80 273 eP 28 35.50 0.6
PAIG 1.92 19 eP 28 36.60 0.1
eS 29 01.67
LIT 2.01 352 iPc 28 37.50 -0.4
eS 29 04.64
PLG 2.30 11 eP 28 41.00 -1.1
KZN 2.35 339 eP 28 44.00 1.1
APE 2.35 116 eP 28 43.50 0.6
IGT 2.44 306 ePd 28 45.15 1.1
eS 29 15.05
GRG 2.86 353 ePc 28 49.82 -0.3
PRK 2.89 66 eP 28 51.00 0.6
VAM 2.90 158 eP 28 51.00 0.3
FNA 2.91 337 eP 28 51.10 0.3
KNT 3.04 0 iPc 28 52.38 -0.2
eS 29 29.34
SRS 3.05 10 iPc 28 51.78 -0.9
eS 29 29.45
VAY 3.21 356 ePn 28 55.00 0.0
S.D. = 0.7 on 19 of 19 obs.

• FEB 13, 1991 22h 24m 27.95± 0.92s
20.705 S ± 9.5km 68.675 W ±14.7km
DEPTH = 119.6 ± 14.7 km
4.1mb (1 obs.)
CHILE-BOLIVIA BORDER REGION (124)

ANT 3.39 208 eP 25 20.00 -0.2
eS 26 17.00
CNCB 3.93 10 Pd 25 28.80 0.8
S 26 08.00
CCH 4.08 36 P 25 33.10 3.3X

13d 22h

```
LPB      4.19    8 Pd     25 31.20   -0.1
        1.0s     44.00nm
                    S     26 13.00
ZOBO     4.44    7 iP     25 35.10    0.1
        0.4s     10.23nm
                    S     26 18.00
ARE      4.99 327 e(P)     25 37.00   -5.2X
SIV      8.61   58 iPc     26 30.00   -1.2
VAO     20.28 100 eP       28 57.30    1.0
                    e     28 58.40
YKA     90.51 341 eP       37 16.50   -0.5
        0.6s      0.90nm             4.1mb
      S.D. = 1.1  on   7 of   9 obs.
-----------------------------------------
    FEB 14, 1991  01h 01m 00.40± 0.18s
    32.984 S ± 4.7km  179.340 W ± 5.3km
    DEPTH =  33.0km  (normol)
    5.4mb ( 16 obs.)  5.3Msz ( 10 obs.)
 SOUTH OF KERMADEC ISLANDS          (179)
      Ms 5.6 (BRK). Mo=1.3*10**18 Nm
      (PPT).
      CENTROID, MOMENT TENSOR       (HRV)
      Doto Used: GDSN
      L.P.B.: 19S, 43C
      Centroid Location:
      Origin Time        01:01: 8.4 0.3
      Lot 32.85S 0.04 Lon 179.28W 0.03
      Dep  42.2 1.8 Holf-durotion  3.1
      Moment Tensor;   Scale 10**17 Nm
        Mrr= 5.59 0.12  Mtt= 0.48 0.19
        Mff=-6.07 0.21  Mrt= 0.60 0.21
        Mrf= 4.50 0.26  Mtf=-2.33 0.14
       Principal Axes:
        T  Val=  7.13  Plg=71  Azm=265
        N        1.13       7       14
        P       -8.26      18      106
      Best Double Couple:Mo=7.7*10**17
       NP1:Strike=207 Dip=28 Slip= 104
       NP2:        11     63       83

HBZ      4.99 202 eP     02 14.60   -0.4
PUZ      5.44 200 eP     02 20.50   -0.8
NOZ      6.01 200 eP     02 28.50   -0.9
TAZ      6.23 212 eP     02 34.60    2.1
WLZ      6.37 219 eP     02 37.50    3.1X
MOH      6.76 204 eP     02 39.90    0.0
WHH      6.79 209 eP     02 40.40    0.1
RATZ     7.08 213 eP     02 45.10    0.6
TTH      7.24 204 eP     02 47.40    0.9
KETZ     7.33 212 eP     02 48.30    0.4
NGZ      7.41 212 eP     02 49.90    0.8
CNZ      7.46 212 eP     02 49.40   -0.3
PGZ      8.39 204 eP     02 58.50   -4.1X
MNG      8.68 207 eP     03 02.90   -3.7X
KIW      9.11 209 eP     03 06.90   -5.7X
WDW      9.42 207 eP     03 10.40   -6.5X
MRW      9.50 208 eP     03 13.50   -4.5X
                  eS     04 57.90
WEL      9.53 208 eP     03 14.00   -4.3X
                  S      04 58.00
TCW      9.66 210 eP     03 14.50   -5.7X
THZ     10.71 213 P      03 31.40   -3.2X
                  S      05 29.00
KHZ     10.97 209 P      03 33.60   -4.5X
                  eS     05 31.30
LTZ     11.81 212 eP     03 42.50   -7.0X
MQZ     12.41 208 eP     03 50.90   -6.5X
                  eS     06 01.70
SVA     14.94 352 eP     04 33.20    2.3
DZM     16.63 307 iPc    04 58.90    6.2X
AFI     20.20  22 eP     05 44.00    8.7X
                  eS     09 16.00
RAR     20.96  61 P      05 43.00    0.1
                  S      09 32.00
COO     24.54 268 e(P)   06 36.00   17.7X
RIV     24.61 260 eP     06 22.00    3.2X
                  eS     10 44.00
CNB     25.95 256 e(P)   06 32.00    0.4
TAU     27.94 240 eP     06 51.00    1.4
RMO     28.38 275 eP     06 58.00    4.3X
TOO     28.97 251 eP     07 02.00    3.0X
BFD     31.33 251 eP     07 23.00    3.1X
ADE     34.67 255 e(P)   07 51.00    2 0
        0.6s     40.00nm          5.5mb
OIS     38.46 278 eP     08 23.50    2.4
                  e     14 37.00
PMG     38.78 300 eP     08 26.00    2.2

RAB     39.10 311 eP     08 28.00    1.6
ASPA    41.91 270 iPc    08 50.80    1.2
        0.8s     77.80nm          5.5mb
      Z 18s      3.20um           5.2Msz
                  iPcP   11 03.10
                  iPcS   15 02.00
                  eS     15 23.50
                  iScS   19 03.90
WB2     43.12 276 iPd    09 00.40    0.9
                  e      14 57.00
FORR    44.28 258 eP     09 10.00    1.3
        0.4s     47.00nm          5.7mb
SBA     45.38 184 P      09 20.00    3.0X
                  S      16 04.40
WARB    47.04 264 iPd    09 30.80    0.1
        0.4s      7.00nm          5.0mb
MTN     49.33 282 eP     09 49.00    0.4
        0.4s     48.00nm          5.9mb
KNA     49.79 277 eP     09 53.00    0.9
COOL    49.96 255 eP     09 53.00   -0.4
NWAO    52.46 252 eP     10 12.00   -0.2
      Z 20s      2.60um           5.3Msz
      N 20s      0.60um
      E 20s      2.80um
                  eS     17 48.00
                  e      26 05.00
KLB     52.47 253 eP     10 11.00   -1.3
        1.1s     46.00nm          5.4mb
MUN     53.59 252 eP     10 20.30   -0.2
MEKA    53.62 259 eP     10 20.00   -0.8
MRWA    54.72 255 eP     10 27.00   -1.9
MBL     54.77 266 eP     10 28.00   -1.4
        0.4s     15.00nm          5.4mb
SPA     57.19 180 iPc    10 48.10    1.6
        1.0s    130.00nm          5.9mb
      Z 20s      2.03um           5.2Msz
                  i      11 40.80
DAV     65.73 297 eP     11 42.00   -2.3
OCP     73.99 300 eP     12 29.00   -5.7X
BAG     75.51 301 eP     12 40.40   -3.3X
QZH     82.52 306 Pc     13 21.50    0.3
        4.0s    600.00nm          6.0mb X
IPM     83.81 279 ePd    13 27.10   -1.1
ADK     84.54   2 P      13 29.70   -1.1
SSE     84.96 312 Pc     13 32.00   -1.5
        6.0s   1300.00nm          6.3mb X
      Z 20s      1.40um           5.3Msz
GZH     85.00 301 Pc     13 34.00    0.2
      Z 40s      2.50um           5.3MszX
OIZ     85.09 296 eP     13 32.00   -2.4
                  PP     16 52.00
SNG     85.59 281 eP     13 37.00    0.0
                  eS     24 18.50
PEL     86.03 127 eP     13 41.00    1.9
NJ2     87.07 311 Pd     13 44.50    0.6
      Z 18s      0.60um           5.0Msz
SYP     87.25  45 eP     13 46.00    1.1
BCH     87.64  45 P      13 48.10    1.4
PRS     87.69  43 eP     13 47.20    0.4
                  epP    14 06.30   69kmX
ABL     87.93  46 P      13 49.00    0.7
PCC     87.93  42 eP     13 48.00    0.1
PRI     87.96  44 ePc    13 49.00    0.7
                  epP    14 06.80   63kmX
BAR     88.03  49 eP     13 50.00    1.4
PAS     88.09  47 eP     14 03.00   14.3X
LLA     88.13  43 e(P)   13 49.50    0.6
MWC     88.21  47 eP     13 50.00    0.4
MHC     88.24  42 eP     13 49.80    0.2
                  eLR    41 11.00
BKS     88.28  42 iPd    13 51.00    1.4
        0.7s     56.00nm          6.0mb
      Z 20s      2.50um           5.6Msz
      N 20s      2.10um
                  e      24 28.00
                  e      26 30.00
                  eLQ    37 00.00
                  eLR    40 40.00
ARN     88.31  42 P      13 50.90    1.1
PLM     88.36  48 eP     13 51.00    0.7
RVR     88.47  47 eP     13 52.00    1.4
PEC     88.53  47 P      13 51.60    0.6
SBB     88.66  46 eP     13 52.00    0.4
ISA     88.93  45 eP     13 54.00    1.2
WHN     89.00 308 eP     13 54.00    0.8
      Z 20s      1.40um           5.4Msz
                  eS     24 36.00

FRI     89.11  44 ePc    13 53.20   -0.3
                  epP    14 12.70   70kmX
TPC     89.37  48 eP     13 56.00    1.1
CMB     89.44  43 ePc    13 54.80   -0.4
                  epP    14 14.30   70kmX
                  esP    14 25.60
                  eS     24 48.00
                  eLQ    37 39.00
                  eLR    41 43.00
GLA     89.45  49 eP     13 57.00    1.7
CLC     89.56  46 eP     13 55.00   -0.8
GSC     89.69  47 eP     13 57.00    0.5
ORV     89.87  41 eP     13 56.80   -0.3
WDC     90.03  40 iPc    13 57.80    0.0
                  epP    14 15.80   64kmX
                  esP    14 28.30
DL2     90.08 318 Pc     13 58.00    0.0
      Z 24s      0.70um           5.0MszX
                  S      24 44.00
MDJ     90.12 326 eP     13 59.00    0.9
      Z 24s      2.20um           5.5MszX
                  pP     14 10.00   35kmX
                  sP     14 16.00
MIN     90.37  40 ePc    13 58.90   -0.7
BONR    90.58  44 P      14 01.40    0.6
TIA     90.90 314 eP     14 00.80   -1.1
      Z 26s      1.00um           5.1MszX
      N 19s      1.30um
SNY     91.07 321 iPc    14 02.00   -0.5
        4.0s    700.00nm          6.4mb X
      Z 24s      1.80um           5.4MszX
      N 24s      1.00um
      E 24s      1.40um
TNP     91.30  44 P      14 04.50    0.5
        0.7s     12.22nm          5.4mb
KVN     91.44  43 P      14 04.40   -0.2
CN2     91.52 323 Pc     14 04.00   -0.5
        1.0s     20.00nm          5.5mb
      Z 26s      3.40um           5.7MszX
                  PP     17 41.00
                  sS     25 21.00
GYA     91.86 300 P      14 08.00    1.3
CHG     93.38 290 eP     14 15.00    1.3
NNA     93.79 107 e(P)   14 16.00    0.2
        1.0s     11.00nm          5.2mb
      Z 22s      0.93um           5.2Msz
BJI     93.97 316 eP     14 16.50    0.6
      Z 28s      2.41um           5.5MszX
                  ePP    18 00.00
                  eSKS   24 52.00
TIY     94.75 312 eP     14 19.50   -0.2
      Z 18s      1.20um           5.4Msz
      E 15s      0.60um
LON     94.77  36 P      14 19.50    0.0
RMW     95.27  35 P      14 22.00    0.2
ALQ     96.07  52 eP     14 26.00    0.0
        1.3s     9.62nm           5.1mb
      Z 22s      1.85um           5.5Msz
SLKM    96.17  14 P      14 24.70   -0.9
PNT     97.61  35 eP     14 32.00   -0.3
BW06    98.79  44 P      14 37.50   -0.6
        0.5s     1.49nm           4.8mb
LZH     99.35 307 eP     14 35.00   -5.7X
      Z 28s    161.00um           7.4MszX
                  PP     18 22.50
                  S      25 30.00
                  PS     27 37.00
                  (SS)   33 18.00
GOL     99.53  49 P      14 40.00   -1.6
        0.5s     1.62nm           4.8mb
INK    106.57  16 ePdiff15 13.00    1.0
INK    106.57  16 ePKP   19 20.00   -2.6
YKA    108.26  26 ePdiff15 22.70    3.0X
        0.6s     0.30nm           4.6mb
YKA    108.26  26 ePKP   19 24.00   -1.9
        0.5s     0.80nm
WMQ    113.91 308 PKP    19 35.80   -1.7
      Z 24s      1.30um           5.4MszX
MBC    115.18  13 ePKP   19 37.50   -1.3
        1.0s    12.00nm
BUL    120.80 211 iPKPc  19 51.10   -0.2
PDCR   120.92 133 ePKP   19 50.60   -0.9
QUE    124.31 286 ePKP   19 56.00   -1.9
FRB    128.17  32 ePKP   19 54.00  -10.0X
SCH    128.94  43 ePKP   20 05.00   -0.8
LWI    136.02 223 ePKPc  20 20.10   -0.6
KEV    140.36 346 ePKP   20 20.00   -6.8X
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			e	20	27.00	
KTK1	141.72	347	ePKP	20	30.80	1.5
TRO	141.90	350	ePKP	20	29.91	0.4
SOD	142.37	344	ePKP	20	20.00	-10.4X
			e	20	29.00	
TAB	142.78	291	e(PKP)	20	27.00	-5.2X
LOF	144.03	352	ePKP	20	34.13	0.9
KAF	146.56	338	ePKP	20	35.70	-1.9
	0.5s		25.80nm			
BCAO	147.05	214	iPKPd	20	39.20	-0.7
	0.5s		62.00nm			
			ic	20	57.70	
			id	21	03.90	
NSS	147.66	351	ePKP	20	40.38	1.1
NUR	148.30	337	iPKP	20	40.20	-0.2
	0.6s		83.40nm			
RGS	149.31	351	ePKP	20	45.00	3.0X
MDSJ	149.97	277	PKPd	20	49.19	5.1X
MOL	150.07	354	ePKP	20	47.02	3.9X
QTRJ	150.10	276	PKPc	20	50.16	5.9X
AKSR	150.12	260	ePKP	20	48.50	4.1X
JARJ	150.35	278	PKPd	20	49.83	5.2X
MASJ	150.44	277	PKPd	20	49.43	4.7X
BURJ	150.47	278	PKPd	20	50.10	5.3X
AGMR	150.48	260	ePKP	20	49.50	4.6X
SHMJ	150.59	279	PKPd	20	50.95	6.1X
DSI	150.69	277	ePKP	20	45.00	0.0
HRI	150.70	280	ePKP	20	45.00	-0.1
PRNI	150.73	274	ePKP	20	43.00	-2.2
UPP	150.86	342	iPKP	20	48.10	3.8X
			i	21	09.20	
BHL	150.87	282	PKP	20	44.00	-1.4
NB2	151.10	349	PKP	20	43.80	-1.0
	0.7s		35.40nm			
HFS	151.51	346	ePKP	20	48.90	3.5X
	0.9s		55.80nm			
HYA	151.58	354	ePKP	20	51.09	5.7X
SUE	151.79	356	iPKPc	20	51.41	5.7X
ASK	152.33	355	ePKP	20	52.52	6.0X
BER	152.42	355	ePKP	20	52.70	6.1X
ODD1	152.77	353	iPKP	20	53.68	6.4X
LIC	152.85	168	PKP	20	50.22	1.6
KIC	153.04	168	PKP	20	50.80	1.9
TIC	153.27	167	PKP	20	50.68	1.4
KMY	153.59	355	iPKP	20	55.22	6.9X
DHLJ	154.69	273	PKPd	20	49.67	-1.0
LKO	155.97	165	PKP	20	53.46	0.5
VRI	156.23	310	ePKP	21	10.00	17.6X
MLR	156.88	310	ePKP	20	54.00	0.6
KRA	157.76	326	ePKP	20	52.80	-1.3
SPC	158.19	324	ePKP	20	53.70	-1.2
KSP	158.78	332	ePKP	20	54.50	-0.7
			e	21	30.00	
CLL	159.58	337	ePKP	20	54.00	-2.1
	1.3s		31.00nm			
			i	21	11.00	
			i	21	35.10	
BRG	159.63	335	iPKP	20	55.60	-0.6
	2.5s		80.00nm			
			i	21	35.20	
			i	21	47.20	
			i	22	17.80	
SRO	160.07	323	ePKP	20	55.50	-1.2
PRU	160.14	333	ePKP	20	55.00	-1.7
	Z 20s		1.10um			
	N 20s		0.60um			
	E 24s		0.70um			
			e	21	37.30	
			e	22	20.50	
ZST	160.40	326	iPKPd	20	56.50	-0.6
			e	22	14.50	
MOX	160.59	339	ePKP+	20	56.00	-1.2
	Z 27s		2.00um			
			e	21	40.00	
BEO	160.64	313	e(PKP)	20	56.00	-1.4
UZD	160.71	320	e(PKP)	20	57.00	-0.4
VKA	160.71	327	e(PKP)	20	49.00	-8.4X
	4.0s		388.00nm			
			i	20	56.40	
KHC	161.20	333	PKP	20	59.00	1.1
			e	21	17.00	
SKO	161.26	305	ePKP	20	56.00	-2.1
	Z 19s		1.00um			
	N 20s		0.99um			
	E 20s		1.00um			
			i	21	20.50	
			i	21	40.00	
			i	24	51.00	
			i	25	23.00	
			i	35	47.00	
			i	36	52.00	
PTJ	162.55	322	ePKP	20	58.60	-0.8
DOU	162.65	351	PKP	20	59.00	-0.2
			e	21	46.80	
			e	25	31.00	
KBA	162.93	329	e(PKP)	21	04.00	4.1X
	1.2s		10.00nm			
			i	21	05.10	
			e	21	19.00	
			e	22	14.00	
LJU	163.16	325	e(PKP)	20	59.50	-0.4
VOY	163.48	326	ePKP	20	59.80	-0.6
TRI	163.77	325	ePKP	20	59.00	-1.5
			e	25	34.00	
			e	32	50.00	
FIR	166.40	325	e(PKP)	21	20.00	17.2X
TOL	172.14	28	iPKP+	21	06.00	-0.3
			ePKKP	22	30.00	
			iPP	26	20.00	
			ePPS	40	25.00	
			eSS	47	25.00	
MAL	174.40	47	ePKP	21	08.00	0.8
			iPP	26	34.00	
IFR	175.12	82	iPKPd	21	10.00	2.2
	S.D. = 1.1		on 139 of 190 obs.			

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* FEB 14, 1991 01h 36m 59.32± 0.59s
28.869 N ±19.9km 51.379 E ± 8.7km
DEPTH = 33.0km (normal)
4.4mb (7 obs.)
SOUTHERN IRAN (353)

PRNI	14.33	280	eP	40	29.00	7.2X
GKN	29.21	84	P	42	59.20	-1.1
DMN	29.69	84	P	43	05.20	0.4
KKN	29.81	84	P	43	06.20	0.4
PKI	29.96	84	P	43	07.20	-0.1
GUN	30.31	83	P	43	10.60	0.2
BCAO	39.50	238	ePd	44	30.00	1.2
	0.5s		5.00nm			4.5mb
HFS	40.25	332	eP	44	32.40	-2.0
	0.3s		1.20nm			4.1mb
SOD	41.31	346	eP	44	52.00	9.0X
NB2	41.77	332	P	44	49.40	2.5
	0.8s		1.50nm			3.8mb
LKO	56.58	262	Pc	46	40.82	-0.8
KIC	57.40	258	P	46	47.00	-0.3
	0.6s		2.50nm			4.4mb
TIC	57.49	259	P	46	47.60	-0.4
	0.8s		9.50nm			4.9mb
LIC	57.71	258	Pc	46	49.20	-0.3
	0.6s		9.50nm			5.0mb
YKA	88.26	354	eP	49	51.50	3.2X
	0.5s		0.20nm			3.7mb
	S.D. = 1.3		on 12 of 15 obs.			

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* FEB 14, 1991 02h 14m 01.70± 1.21s
36.563 N ±13.5km 70.813 E ±11.3km
DEPTH = 33.0km (normal)
HINDU KUSH REGION (718)

QUE	7.13	208	eP	15	46.00	-0.5
			eS	17	00.00	
NDI	9.53	144	eP	16	21.50	1.8
GKN	14.46	122	P	17	26.00	-0.1
DMN	15.03	122	P	17	34.00	0.3
KKN	15.04	121	P	17	33.40	-0.3
PKI	15.27	122	P	17	36.20	-0.5
GUN	15.38	120	P	17	37.20	-1.0
MBC	67.28	3	eP	24	55.00	0.4
	S.D. = 1.0		on 8 of 8 obs.			

% FEB 14, 1991 02h 45m 29.87± 0.62s
40.127 N ± 6.5km 29.271 E ± 4.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.4 (ISK).

HRT	0.76	23	iPg	45	44.50	-0.2
			eSg	45	56.00	
GPA	0.81	78	ePg	45	45.80	0.2
ISK	0.95	350	ePg	45	48.00	0.0
			eSg	46	01.00	
BNT	1.06	283	iPg	45	49.60	-0.2
EDC	1.10	282	iPg	45	50.50	0.0
			eSg	46	05.00	
ALT	1.25	149	iPg	45	53.10	-0.1
KGT	1.54	283	ePn	45	57.70	0.3
	S.D. = 0.2		on 7 of 7 obs.			

? FEB 14, 1991 02h 56m 04.06± 1.01s
14.724 S ±39.9km 173.621 W ±21.7km
DEPTH = 33.0km (normal)
4.1mb (1 obs.)
SAMOA ISLANDS REGION (169)

AFI	1.96	66	P	56	35.00	-0.7
			S	57	00.00	
DZM	20.26	246	iPc	00	40.00	0.2
FRI	72.24	43	ePc	07	28.70	0.6
CMB	72.40	42	ePc	07	30.10	1.0
WDC	72.58	38	ePc	07	31.00	1.0
PNT	79.56	33	eP	08	10.00	0.8
FBA	81.78	11	eP	08	19.90	-0.7
SES	84.77	35	eP	08	37.00	0.8
INK	87.67	14	eP	08	49.00	-1.0
YKA	89.57	23	eP	08	58.60	-0.6
	0.9s		1.10nm			4.1mb
KHC	145.18	352	PKP	15	38.00	-1.9
			e	15	50.20	
ZST	145.47	347	ePKP	15	40.50	0.1
SRO	145.55	346	ePKP	15	40.90	0.4
	S.D. = 1.0		on 13 of 13 obs.			

% FEB 14, 1991 04h 00m 18.26± 0.94s
43.175 N ± 6.2km 13.092 E ± 9.9km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

ASS	0.33	252	P	00	25.00	-0.2
			eSg	00	29.50	
ARV	0.34	341	Pc	00	24.50	-0.8
			eSg	00	28.50	
MNS	0.85	201	P	00	34.00	-0.6
			eSg	00	46.50	
CRE	0.95	299	P	00	37.00	0.6
			eSg	00	50.00	
SFI	1.17	310	P	00	40.50	0.4
			eSg	00	56.50	
AZI	1.21	168	P	00	40.50	-0.3
SDI	1.56	160	P	00	47.00	0.8
			eSg	01	07.00	
	S.D. = 0.8		on 7 of 7 obs.			

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* FEB 14, 1991 04h 05m 48.78± 0.94s
2.113 S ±11.2km 137.285 E ±14.7km
DEPTH = 33.0km (normal)
4.7mb (1 obs.)
WEST IRIAN (201)

PMG	12.20	127	eP	08	44.00	0.8
MTN	12.28	209	eP	08	45.70	1.4
	0.3s		177.00nm			6.7mb X
			eS	10	20.00	
KNA	15.94	211	eP	09	33.50	1.2
WB2	17.95	189	iPc	09	55.50	-2.2
			eS	13	01.00	
			ePcP	14	49.00	
			eScP	16	21.00	
QIS	18.47	173	eP	10	02.00	-2.1
			eS	13	22.00	
ASPA	21.68	188	iPc	10	39.50	0.7
	0.8s		27.10nm			4.7mb
	Z 20s		0.50um			3.9Msz
			iS	14	35.50	
BRS	29.19	151	iPc	11	50.50	1.0
GUN	57.68	305	P	15	39.40	0.2
PKI	57.94	305	P	15	39.60	-1.4
KKN	58.13	305	P	15	42.80	0.6
GKN	58.73	305	P	15	46.20	-0.1
	S.D. = 1.4		on 11 of 11 obs.			

% FEB 14, 1991 04h 06m 51.71± 1.18s
59.814 N ± 8.8km 6.466 E ± 9.8km
DEPTH = 10.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 2.5 (BER).

DDD1	0.13	40	iPg	06	55.01	0.2
BER	0.80	316	eP	07	06.49	-0.8
			eSg	07	18.38	

14d 04h

KMY 0.87 226 eP 07 08.33 0.0
eSg 07 19.57
ASK 0.92 317 eP 07 08.92 -0.4
eSg 07 21.67
HYA 1.36 354 iP 07 16.40 -0.3
eSg 07 34.71
SUE 1.51 327 eP 07 19.29 0.6
eSg 07 38.08
FOO 1.92 339 eP 07 26.33 1.6
eSg 07 50.83
FRO 2.10 339 eP 07 27.57 0.3
eSg 07 56.12
MOL 2.81 10 eP 07 36.47 -1.1
eSg 08 17.31
S.D. = 0.9 on 9 of 9 obs.

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* FEB 14, 1991 04h 39m 41.17± 1.59s
3.964 S ±15.2km 152.431 E ±13.6km
DEPTH = 46.0 ± 9.5 km
5.2mb (2 obs.)
NEW IRELAND REGION (190)
Felt (IV) at Roboul.

RAB 0.35 229 iPc+ 39 50.00 -0.4
PMG 7.53 224 eP 41 32.00 0.8
HNR 9.23 126 eP 42 15.00 20.3X
eS 43 39.00
QIS 20.69 216 eP 44 19.50 -0.5
DZM 22.55 144 iPd 44 40.10 1.3
RMQ 22.67 189 eP 44 39.00 -0.8
BRS 23.30 179 iPd 44 46.00 0.1
WB2 23.73 227 iPc 44 50.40 0.3
ASPA 26.53 221 iPc 45 16.50 -0.1
0.7s 16.50nm 4.7mb
Z 19s 0.10um 3.4MszX
FORR 35.23 218 iPd 46 32.80 -0.5
0.4s 39.00nm 5.7mb
MBL 35.99 239 iPc 46 40.40 0.5
CHTO 57.30 295 (P) 49 38.00 10.9X
GUN 71.38 301 P 51 00.00 0.7
INK 87.81 21 eP 52 40.00 13.6X
PPD 145.26 139 ePKP 59 15.10 -1.3
e 59 19.50
VAO 147.18 146 e(PKP) 59 31.00 11.4X
BAO 151.93 134 e(PKP) 59 31.00 3.9X
S.D. = 0.9 on 12 of 17 obs.

& FEB 14, 1991 05h 17m 24.00s
29.700 N 113.800 W
DEPTH = 10.0km (geophysicist)
GULF OF CALIFORNIA (49)
<SPEC>. Held to moinshock location.

GLA 3.46 346 eP 18 13.00 -6.0
IKP 3.54 327 eP 18 20.00 -0.3
BAR 3.86 321 eP 18 15.00 -9.7
PLM 4.48 325 eP 18 30.00 -3.7
TPC 4.79 337 eP 18 42.00 4.0
RVR 5.25 326 eP 19 01.00 16.6
MWC 5.78 322 eP 19 15.00 22.9
PAS 5.79 321 eP 18 59.00 7.1
SBB 6.03 327 eP 18 57.00 1.5
GSC 6.13 336 eP 19 02.00 5.1
ISA 7.13 328 eP 19 15.00 4.0
ALQ 8.12 48 eP 19 21.20 -3.7
LRM 16.13 3 eP 21 18.10 5.5
SES 20.78 5 ePd 22 07.50 -0.1
14 obs. associated

? FEB 14, 1991 05h 24m 16.01± 3.87s
6.062 S ±17.0km 130.427 E ±21.6km
DEPTH = 105.2 ± 41.5 km
4.9mb (7 obs.)
BANDA SEA (280)

MTN 6.78 174 eP 25 57.10 2.6X
KNA 9.76 189 eP 26 35.60 0.5
0.2s 47.00nm 6.0mb X
eS 28 17.00
WB2 14.32 165 iPc 27 32.30 -2.8
eS 30 03.00
QIS 16.94 149 iP 28 09.90 1.9
0.6s 26.00nm 4.6mb
eS 31 05.00
ASPA 17.82 170 eP 28 18.90 0.1
0.4s 72.60nm 5.3mb
eS 31 24.20
MBL 18.18 213 eP 28 23.20 0.1
0.4s 7.00nm 4.3mb
WARB 20.33 190 eP 28 47.00 0.9
0.4s 6.00nm 4.3mb
eS 32 27.00
FORR 24.76 185 eP 29 29.00 -0.2
0.4s 19.00nm 4.9mb
BDT 38.73 307 eP 31 31.90 0.2
CHG 39.67 309 eP 31 41.00 1.5
CHTO 39.67 309 ePc 31 40.20 0.7
GUN 54.66 310 P 33 36.66 -0.3
PKI 54.85 310 P 33 37.48 -0.8
KKN 55.06 310 P 33 38.94 -0.7
0.5s 11.00nm 5.1mb
DMN 55.10 310 P 33 39.52 -0.4
0.5s 14.00nm 5.2mb
GKN 55.66 310 P 33 43.40 -0.4
S.D. = 1.2 on 15 of 16 obs.

? FEB 14, 1991 06h 14m 21.56± 1.62s
27.498 S ±41.4km 176.155 W ±21.3km
DEPTH = 33.0km (normal)
5.3mb (2 obs.)
KERMADEC ISLANDS REGION (177)

DZM 16.69 285 iPc 18 15.00 0.3
RMQ 31.22 264 eP 20 41.50 1.2
ASPA 44.97 263 eP 22 34.70 -1.0
0.6s 11.80nm 5.0mb
Z 18s 0.30um 4.3Msz
WB2 45.69 268 iPc 22 39.90 -1.5
FORR 48.37 252 eP 23 03.00 0.8
0.4s 34.00nm 5.7mb
ANMO 90.50 50 P 27 31.00 9.4X
PNT 91.53 33 eP 27 26.00 0.2
HRI 151.96 290 ePKP 34 14.50 6.2X
PRNI 152.63 283 ePKP 34 16.00 6.7X
RMN 152.95 284 ePKP 34 18.00 8.2X
BCAO 153.12 214 ePKPd 34 21.00 10.6X
0.5s 5.00nm
id 34 34.30
CLL 155.23 346 e(PKP) 34 31.00 18.9X
S.D. = 1.3 on 6 of 12 obs.

& FEB 14, 1991 07h 09m 42.00s
29.700 N 113.800 W
DEPTH = 10.0km (geophysicist)
GULF OF CALIFORNIA (49)
<SPEC>. Held to moinshock location.

GLA 3.46 346 eP 10 36.50 -0.5
IKP 3.54 327 eP 10 51.00 12.7
BAR 3.86 321 eP 10 45.00 2.3
PLM 4.48 325 eP 10 52.50 0.8
RVR 5.25 326 eP 11 20.00 17.6
MWC 5.78 322 eP 11 29.00 18.9
GSC 6.13 336 eP 11 44.00 29.1
ALQ 8.12 48 eP 11 39.00 -3.9
SES 20.78 5 eP 14 26.00 0.4
9 obs. associated

FEB 14, 1991 07h 23m 01.32± 1.77s
37.976 N ± 8.7km 72.552 E ± 7.6km
DEPTH = 61.6 ± 19.9 km
4.6mb (10 obs.)
TAJIK SSR (715)

QUE 9.05 213 eP 25 11.80 -0.1
eS 26 48.20
NDI 10.05 156 eP 25 27.50 2.0
0.5s 35.21nm 5.7mb X
eS 27 11.50
GKN 14.19 131 P 26 20.40 -0.3
0.4s 27.00nm 5.0mb
KKN 14.73 130 P 26 27.12 -0.7
0.5s 32.00nm 4.9mb
DMN 14.76 131 P 26 28.38 0.2
0.4s 24.00nm 4.8mb
PKI 14.97 130 P 26 30.64 -0.4
0.5s 14.00nm 4.5mb
GUN 15.01 128 P 26 30.84 -0.8
0.4s 18.00nm 4.7mb
POO 19.40 176 eP 27 25.00 -0.3
SHL 20.52 121 eP 27 40.00 3.0X
HY8 21.15 164 eP 27 43.20 -0.1
0.8s 19.23nm 4.5mb
GBA 24.66 169 P 28 17.50 -0.1
S 32 37.50
KAF 37.08 326 iP 30 07.10 0.2
0.3s 2.20nm 4.6mb
NUR 37.38 323 eP 30 09.60 0.2
KRA 38.94 305 eP 30 22.00 -0.6
SOD 38.95 334 iP 30 22.10 -0.3
KEV 39.91 337 eP 30 30.00 -0.3
BRG 42.70 307 i(P) 30 53.80 0.3
NB2 43.96 322 P 31 02.80 -0.9
0.5s 2.90nm 4.3mb
MBC 65.80 3 ePd 33 42.40 0.9
0.5s 8.00nm 5.0mb
INK 72.25 10 ePd 34 22.20 0.9
YKA 79.71 3 eP 35 03.50 0.2
0.4s 2.00nm 4.4mb
S.D. = 0.7 on 20 of 21 obs.

FEB 14, 1991 07h 34m 59.99± 0.47s
5.015 N ± 4.4km 76.266 W ± 5.0km
DEPTH = 103.8 ± 5.6 km
4.8mb (39 obs.)
COLOMBIA (103)
Felt at Cali and Cartogo.

HOBC 0.67 169 iPc 35 17.51 -0.4
CLMC 1.16 195 iPc 35 22.54 -0.5
HOQC 1.58 193 iPc 35 27.19 -0.9
BOG 2.23 100 iPc 35 39.00 2.5
iS 36 09.00
SILC 2.31 182 eP 35 37.81 0.1
PURC 2.68 182 eP 35 43.29 0.6
PSO 3.94 196 eP 36 00.50 0.7
CUMC 4.33 202 ePc 36 04.43 -0.9
COTA 5.09 204 P 36 16.00 0.2
UPA 5.10 321 iPc 36 15.00 -0.5
0.5s 161.97nm 5.5mb
S 37 12.00
CAYA 5.19 199 eP 36 18.50 1.3
YANA 5.59 204 eP 36 22.40 -0.3
GGP 5.66 204 eP 36 23.00 -0.7
VC1 6.01 201 P 36 28.50 0.0
QUIL 6.32 205 eP 36 26.40 -6.3X
NNA 16.90 182 iP 38 53.50 1.8
0.8s 16.42nm 4.3mb
SVV 16.98 60 eP 38 51.39 -1.2
SLB 17.37 59 eP 38 52.02 -5.4X
ARE 21.85 168 iPc 39 47.00 1.2
0.6s 30.00nm 4.8mb
LPB 22.88 159 P 39 52.50 -3.4X
1.0s 56.00nm 4.9mb
CNCB 23.18 159 P 39 57.70 -1.3
SIV 25.72 144 iPd 40 21.00 -1.5
JSC 29.48 352 P 40 56.80 0.5
GBTN 31.37 348 P 41 13.60 0.6
BLA 32.27 354 P 41 21.80 1.0
0.8s 8.39nm 4.6mb
NAV 32.42 353 P 41 22.60 0.5
OLY 33.43 337 P 41 30.20 -0.6
ELC 34.24 341 P 41 36.80 -1.0
BAO 34.71 127 ePd 41 40.40 -1.8
FVM 35.26 340 P 41 46.00 -0.5
VAO 39.93 135 e(P) 42 22.00 -3.8X
ALQ 40.81 321 eP 42 34.00 1.0
0.8s 11.57nm 4.7mb
PDCR 40.82 116 eP 42 31.30 -1.9
GLD 43.34 327 P 42 54.10 0.5
0.9s 22.37nm 5.0mb
GOL 43.38 327 ePd 42 54.90 0.8
e 43 32.80
RSSD 45.96 332 P 43 14.90 0.3
e 43 53.00
DAU 47.22 323 P 43 24.90 0.3
BW06 47.79 327 P 43 29.00 0.0
e 44 06.80
DUG 48.02 322 P 43 31.30 0.6
PTI 49.41 325 P 43 41.60 0.2
SCH 50.24 7 ePc 43 47.90 0.6
0.6s 24.00nm 5.4mb
SXM 50.94 329 eP 43 53.30 0.3
FFC 53.74 342 iPc 44 12.20 -1.2
0.5s 7.00nm 4.9mb
SES 53.81 333 ePc 44 13.60 -0.5
LBFM 54.43 319 P 44 19.70 0.7
NEW 55.38 328 P 44 24.80 -0.7
0.8s 8.85nm 4.8mb

DPW	55.73	327	P	44	27.80	-0.3
EDM	56.82	334	eP	44	34.00	-1.8
LON	57.12	324	P	44	37.40	-0.6
PNT	57.34	328	iPd	44	40.30	0.9
	0.7s	17.00nm			5.2mb	
GMW	58.11	325	P	44	42.60	-2.3
MCW	58.74	326	P	44	48.90	-0.3
FRB	58.88	4	eP	44	48.00	-1.9
YKA	63.91	341	eP	45	21.90	-1.8
	0.5s	15.30nm			5.2mb	
LKO	70.16	82	P	46	02.08	-1.8
	0.7s	9.00nm			4.7mb	
TIC	70.84	85	P	46	06.20	-1.9
LIC	70.86	85	P	46	06.50	-1.6
KIC	71.14	85	P	46	08.30	-1.5
INK	73.68	341	ePc	46	23.10	-0.6
MBC	75.02	350	ePc	46	31.00	-0.4
	0.5s	7.00nm			4.7mb	
EKA	76.31	34	Pd	46	39.00	0.0
	0.9s	8.30nm			4.6mb	
LPF	76.41	42	eP	46	39.70	0.0
	0.7s	8.80nm			4.7mb	
GRR	76.58	42	iPc	46	40.80	0.1
	0.8s	21.50nm			5.0mb	
EPF	76.81	47	iPc	46	43.00	0.9
	0.7s	11.00nm			4.8mb	
MFF	76.84	43	iPc	46	42.70	0.6
	0.6s	14.45nm			5.0mb	
FLN	76.88	41	eP	46	42.70	0.4
	0.6s	11.70nm			4.9mb	
LDF	77.10	41	eP	46	43.80	0.3
	0.6s	8.10nm			4.7mb	
LFF	77.28	45	iPc	46	45.10	0.5
	0.7s	12.15nm			4.8mb	
LPO	77.57	45	iPc	46	46.60	0.4
	0.7s	13.25nm			4.9mb	
RJF	77.86	45	eP	46	48.20	0.4
	1.0s	20.00nm			4.9mb	
CAF	78.21	45	eP	46	50.10	0.3
	1.1s	17.10nm			4.8mb	
TCF	78.43	44	eP	46	51.00	0.1
	0.7s	4.40nm			4.4mb	
MAF	78.67	44	eP	46	52.30	0.1
	0.8s	8.75nm			4.6mb	
BGF	78.89	44	eP	46	53.50	0.1
	0.7s	8.25nm			4.7mb	
AVF	79.25	43	eP	46	55.20	-0.1
	0.9s	8.20nm			4.6mb	
SSF	79.38	43	eP	46	55.90	-0.1
	1.0s	13.00nm			4.7mb	
SMF	79.58	44	eP	46	57.20	0.1
	1.0s	17.00nm			4.8mb	
LOR	79.63	43	eP	46	57.10	-0.3
	0.9s	11.45nm			4.7mb	
LBF	79.70	43	eP	46	57.30	-0.5
	1.1s	11.00nm			4.6mb	
DOU	80.31	40	P	47	00.90	0.0
ENN	81.20	40	eP	47	06.00	0.5
	0.8s	12.00nm			4.8mb	
BSF	81.65	43	eP	47	07.90	-0.2
WTS	81.81	38	eP	47	10.00	1.4
	0.9s	17.00nm			4.9mb	
CDF	81.99	42	eP	47	09.90	0.1
NB2	84.42	29	P	47	22.50	0.6
	0.7s	3.90nm			4.4mb	
CLL	85.67	39	iPd	47	29.60	1.3
	1.0s	14.00nm			4.9mb	
KHC	86.14	41	P	47	31.70	0.9
BRG	86.28	39	iP	47	32.10	0.8
	0.8s	20.00nm			5.2mb	
PRU	86.72	40	eP	47	34.50	1.0
KSP	87.77	39	eP	47	39.50	1.0
BCAO	94.39	85	ePd	48	11.00	1.0
	1.0s	10.00nm			5.2mb	
WRA	146.73	241	PKP	54	32.00	1.6
	0.8s	3.60nm				
GBA	148.00	54	PKP	54	35.00	2.5
S.D. = 1.0 on 89 of 93 obs.						

? FEB 14, 1991 07h 37m 01.32± 4.06s
6.947 S ±24.4km 129.798 E ±24.6km
DEPTH = 125.3 ± 43.1 km
5.0mb (2 obs.)
BANDA SEA (280)

MTN	6.01	167	eP	38	30.50	1.3
KNA	8.81	187	eP	39	06.40	-0.7
	0.2s	82.00nm			6.1mb X
			eS	40	36.00	
WB2	13.66	162	iPc	40	08.10	-2.9
			ePP	40	10.50	
			eS	42	30.00	
QIS	16.53	146	eP	40	49.00	1.8
			eS	43	38.00	
ASPA	17.09	167	eP	40	53.40	-0.6
	0.4s	37.90nm			5.0mb	
			iS	43	54.60	
MBL	17.11	213	eP	40	55.00	0.8
			eS	43	53.00	
FORR	23.83	184	iPd	42	04.70	0.7
	0.4s	24.00nm			5.0mb	
GUN	54.77	311	P	46	20.00	-0.8
PKI	54.94	311	P	46	23.20	1.1
GKN	55.75	311	P	46	27.00	-0.7
S.D. = 1.7 on 10 of 10 obs.						

& FEB 14, 1991 07h 38m 43.00s
29.700 N 113.800 W
DEPTH = 10.0km (geophysicist)
GULF OF CALIFORNIA (49)
<SPEC>. Held to moinshock location.

GLA	3.46	346	eP	39	38.00	0.0
IKP	3.54	327	eP	39	50.00	10.7
BAR	3.86	321	eP	39	45.00	1.3
PLM	4.48	325	eP	39	51.00	-1.7
TPC	4.79	337	eP	39	57.00	0.0
RVR	5.25	326	eP	40	18.00	14.6
SBB	6.03	327	eP	40	15.00	0.5
GSC	6.13	336	eP	40	41.00	25.1
ISA	7.13	328	eP	40	33.00	3.0
ALQ	8.12	48	eP	40	37.00	-6.9
10 obs. associated						

FEB 14, 1991 07h 42m 11.91± 0.64s
47.482 N ± 8.1km 115.972 W ± 6.5km
DEPTH = 1.0km (geophysicist)
MONTANA (456)
ML 2.5 (GS). Felt at Silverton, Idaho.

EBI	0.65	189	P	42	25.00	0.1
NEW	1.10	316	eP	42	33.30	-0.1
DPW	1.56	285	eP	42	41.00	0.1
HBMT	2.87	125	ePn	43	00.60	0.7
HRY	2.93	104	ePn	43	01.60	0.9
LRM	2.94	123	ePn	43	00.70	-0.2
MCMT	3.43	140	ePn	43	59.40	51.5X
BGMT	3.53	128	ePn	43	08.70	-0.6
SXM	3.53	110	ePn	43	08.40	-0.9
SES	4.37	46	eP	43	23.00	2.0X
S.D. = 0.7 on 8 of 10 obs.						

FEB 14, 1991 07h 56m 41.43± 0.44s
4.683 N ± 6.5km 75.997 W ± 6.5km
DEPTH = 111.5 ± 6.6 km
4.5mb (7 obs.)
COLOMBIA (103)
Felt at Cali and Cartogo.

HOBC	0.35	203	iPd	56	57.35	-0.6
CLMC	0.98	215	iPd	57	07.71	4.7X
HOQC	1.36	208	iPd	57	06.88	-0.5
ANCC	1.45	217	iPd	57	06.93	-1.2
BOG	1.93	92	eP	57	19.00	4.6X
			eS	57	47.00	
SILC	2.01	190	eP	57	15.93	0.4
PURC	2.37	189	eP	57	21.51	1.2
PSO	3.71	201	eP	57	39.00	0.8
CUMC	4.14	207	eP	57	44.24	0.0
SDV	6.77	52	ePn	58	22.00	2.1
			iSn	59	36.00	
TOV	7.97	50	ePn	58	37.50	1.2
OLLA	10.54	59	eP	59	10.10	-0.8
LLAV	10.77	57	eP	59	11.90	-2.0
SIV	25.30	145	iPc	02	00.00	0.6
GBTN	31.75	347	P	02	58.10	1.1
OLY	33.83	337	P	03	14.50	-0.5
FVM	35.66	340	P	03	30.70	0.1
	0.7s	18.37nm			5.1mb	
PDCR	40.44	115	eP	04	09.50	-1.2
ALQ	41.23	321	eP	04	18.00	0.8
	0.9s	4.62nm			4.3mb	

GOL	43.80	327	P	04	38.70	0.5
	0.7s	7.89nm			4.6mb	
RSSD	46.38	332	P	04	58.80	0.3
MSU	47.04	321	P	05	14.60	10.7X
DAU	47.64	323	P	05	08.40	-0.2
BW06	48.21	327	P	05	12.00	-0.9
	1.0s	6.67nm			4.4mb	
DUG	48.44	322	P	05	15.10	0.5
TNP	50.10	317	P	05	27.80	0.4
	0.9s	1.95nm			4.1mb	
PNT	57.76	328	eP	06	23.00	0.0
	0.7s	5.00nm			4.6mb	
YKA	64.31	341	eP	07	05.00	-1.9
	0.5s	3.00nm			4.5mb	
KIC	70.90	85	P	07	49.00	0.0
INK	74.08	341	eP	08	06.50	-0.1
MBC	75.39	350	eP	08	14.00	-0.1
S.D. = 1.0 on 28 of 31 obs.						

FEB 14, 1991 08h 25m 55.55± 0.17s
30.327 N ± 3.8km 50.846 E ± 2.3km
DEPTH = 25.0km (11 depth phases)
5.4mb (74 obs.) 4.5Msz (12 obs.)
IRAN (348)
Felt in the Gachsoron oreo.

BBU	4.11	185	iPn	27	01.00	2.7
			eSn	28	49.00	
BEE	4.30	184	iPn	27	04.00	3.0
KER	5.11	323	eP	27	15.00	2.4
TAB	8.58	335	eP	28	15.00	13.7X
MDSJ	12.59	280	Pd	28	53.40	-2.6
BURJ	13.01	282	Pc	29	02.50	1.0
KFNJ	13.09	281	P	29	01.40	-1.1
GLH	13.17	284	eP	29	01.60	-2.0
HRI	13.18	287	eP	29	01.00	-2.8X
MML	13.35	283	eP	29	03.30	-2.7X
BHL	13.36	289	P	29	04.00	-2.2
			S	33	20.00	
JVI	13.37	281	eP	29	03.50	-2.8X
MBH	13.84	272	eP	29	07.90	-4.6X
QUE	13.92	87	iPd	29	15.00	1.3
CSS	15.46	292	eP	29	34.00	0.4
PPCY	16.24	291	eP	29	47.50	4.0X
HLW	16.89	273	eP	29	51.20	-0.6
			eS	32	58.00	
ASW	17.14	253	eP	29	48.00	-6.9X
			eS	33	20.00	
AKSR	17.22	252	iPd	29	56.40	0.5
BBTK	17.56	308	iPc	30	01.00	0.8
KAS	17.66	313	eP	30	03.50	2.0
BCK	18.24	298	eP	30	09.90	1.2
KSL	18.69	294	eP	30	12.00	-2.1
YER	19.93	296	iP	30	28.20	-0.3
HRT	20.11	307	iP	30	29.70	-0.6
ARO	20.13	203	ePd	30	30.00	-0.7
GBZT	20.25	307	eP	30	31.50	-0.2
KAP	20.52	291	eP	30	34.00	-0.5
ISK	20.63	307	iP	30	34.70	-0.9
IZM	21.03	299	iP	30	39.70	-0.1
EDC	21.19	304	iP	30	40.00	-1.4
KGT	21.63	304	eP	30	46.00	0.2
NPS	21.75	290	eP	30	48.00	0.9
PRK	22.00	300	eP	30	50.00	0.5
APE	22.07	294	eP	30	50.00	-0.3
EZN	22.13	302	eP	30	51.40	0.6
PSN	22.39	313	iPc	30	53.00	-0.3
KSH	22.48	59	P	30	57.00	2.6
N 11s 8.90um						
JMB	22.90	309	eP	31	01.00	2.7
VAM	22.92	290	eP	31	00.00	1.4
TLB	22.93	315	eP	30	59.00	0.4
BOM	22.94	115	eP	30	59.40	0.5
			eS	35	09.40	
NDI	23.00	87	iPc	30	59.50	0.1
	0.9s	142.86nm			5.5mb	
			eS	35	09.00	
RDO	23.13	305	eP	31	01.60	1.0
CFR	23.17	316	eP	31	01.00	0.1
			e	35	15.00	
KDZ	23.39	306	iP	31	04.00	0.9
DIM	23.45	307	eP	31	05.00	1.3
RZN	23.89	305	iP	31	09.00	0.7
POO	23.96	114	iPc	31	09.40	0.5
BRD	24.01	316	eP	31	12.50	3.4X
AAE	24.01	211	eP	31	12.20	2.5
PVL	24.04	309	iPc	31	11.00	1.6

14d 08h

PLD		24.05	306	iP	31	11.00	1.5					i	32	43.10		HAU		38.15	310	eP	33	13.30	-1.1
VLI		24.07	293	eP	31	10.00	0.2					i	33	06.80			Z	20s	0.22um			4.0Msz	
ISR		24.12	315	ePc	31	14.00	3.7X	CRE		33.48	304	P	32	35.60	0.7	BNS		38.31	315	iPc	33	15.70	0.0
NEO		24.31	299	eP	31	14.00	1.9	PRU		33.54	316	Pc	32	34.50	-0.8	LWI		38.62	217	iPd	33	18.80	-0.1
VRI		24.38	316	ePc	31	13.50	0.7			1.5s	26.80nm			5.0mb		WTS		38.81	317	iPc	33	20.90	1.0
PLG		24.41	302	eP	31	14.60	1.5		Z	16s	0.80um			4.5MszX				0.7s	72.00nm			5.5mb	
PGB		24.58	307	iPc	31	16.00	1.3		N	18s	0.30um								e		33	26.50	19km
MLR		24.67	315	ePc	31	17.00	1.3		E	16s	0.50um								e		33	36.00	
CVO		24.69	316	iPc	31	17.50	1.7					e	35	10.50		ENN		39.02	315	eP	33	22.50	0.8
ITM		24.94	294	eP	31	18.00	-0.2					e	35	50.50				1.0s	35.00nm			5.0mb	
CMP		25.12	314	iPc	31	22.00	2.1	FVI		33.56	310	Pd	32	35.70	0.2	WIT		39.13	318	eP	33	24.00	1.5
VTS		25.26	307	iPc	31	22.00	0.7	SFI		33.60	305	P	32	37.40	1.6	LBF		39.57	308	eP	33	25.50	-0.8
EVR		25.30	298	eP	31	20.00	-1.8	PGD		33.69	305	P	32	38.70	1.9			0.9s	11.45nm			4.6mb	
VAY		25.31	303	iP	31	22.80	1.2	BHG		33.81	312	iPc	32	37.60	-0.1	SMF		39.61	308	eP	33	26.00	-0.7
		1.0s	121.00nm				5.5mb			1.1s	82.00nm			5.6mb				0.8s	32.25nm			5.1mb	
			i		31	32.40	35km	KHC		33.82	314	iPc	32	37.10	-0.7	LOR		39.68	309	eP	33	26.40	-0.9
KZN		25.63	301	eP	31	25.10	0.3			1.4s	65.00nm			5.4mb				0.8s	16.10nm			4.8mb	
TNR		25.78	314	ePc	31	27.00	1.0					i	32	44.20	24km		Z	22s	0.28um			4.1Msz	
VLS		26.12	296	eP	31	28.80	-0.5	FIR		34.00	304	e(P)	32	48.00	8.7X	DOU		39.70	313	P	33	27.10	-0.2
SKO		26.31	304	eP	31	29.90	-1.0	CTI		34.19	308	P	32	40.90	-0.2	SOD		39.79	346	iP	33	27.50	-0.3
	N	15s	1.14um					BRG		34.23	317	iPc	32	40.60	-0.6	SSF		39.89	308	eP	33	28.50	-0.5
	E	15s	1.57um							1.2s	32.00nm			5.1mb				0.9s	26.20nm			5.0mb	
			i		31	32.00	7kmX					i	32	47.20	22km	BCAO		39.90	236	iPd	33	28.10	-1.3
			iS		36	04.00						i	33	00.60				0.4s	18.00nm			5.2mb	
			iSS		37	12.00		WET		34.26	314	iPc	32	40.70	-0.8				ic		33	55.90	123kmX
LSK		26.47	300	iPd	31	35.30	2.8			1.0s	55.00nm			5.4mb		AVF		39.96	308	eP	33	28.80	-0.7
OHR		26.54	302	iP	31	33.80	0.6	MME		34.47	305	P	32	44.90	1.2	SNF		39.98	314	Pc	33	30.30	0.7
		0.9s	206.00nm				5.8mb	WTTA		34.50	311	iPc	32	42.70	-1.1	NB2		40.27	331	P	33	30.50	-1.4
			i		31	43.60	35km			1.0s	124.00nm			5.8mb				0.7s	24.70nm			5.0mb	
			i		31	53.70						i	32	43.40	2kmX	MAF		40.44	307	eP	33	33.10	-0.4
GZR		26.61	312	iPc	31	34.00	0.2					i	32	54.90				1.2s	26.80nm			4.8mb	
DEV		26.74	313	ePc	31	37.00	2.2	BDI		34.52	305	P	32	43.30	-0.6	CAF		40.68	305	eP	33	35.60	0.1
PHP		26.95	303	iPc	31	36.80	0.0	WATA		34.56	311	iPc	32	43.20	-1.1	TCF		40.69	307	eP	33	35.20	-0.4
BERA		27.07	301	eP	31	38.00	0.1			1.1s	131.00nm			5.8mb				0.9s	8.20nm			4.5mb	
BMR		27.21	317	ePd	31	41.00	1.9					id	32	43.70	2kmX	GTA		40.76	64	iPc	33	38.00	1.6
TIR		27.28	302	eP	31	39.60	-0.2	SQTA		34.77	310	iPc	32	45.20	-0.8			1.0s	60.00nm			5.3mb	
BZS		27.45	312	eP	31	46.00	4.7X			0.9s	73.40nm			5.6mb			Z	18s	1.20um			4.8Msz	
HYB		28.32	111	iPc	31	49.10	-0.4					id	32	45.50	1kmX		E	12s	0.80um				
		1.2s	64.30nm				5.2mb					i	32	57.00					sP		33	52.20	
			eS		36	36.00		OGA		34.80	310	iPc	32	46.20	-0.2				ScP		39	26.00	
PSZ		29.48	315	e(P)	32	00.00	0.3			1.3s	70.00nm			5.4mb					ScS		43	40.60	
GKN		29.54	86	P	32	00.08	-0.5	NUR		34.87	338	iP	32	45.60	-0.9	RJF		41.10	305	eP	33	39.20	0.3
TDS		29.61	298	P	32	04.40	3.5X			0.6s	26.10nm			5.3mb			Z	20s	0.35um			4.2Msz	
GBA		29.64	118	P	32	00.70	-0.6	MOTA		34.87	310	iPc	32	45.60	-1.3	MLS		41.31	302	P	33	40.79	0.1
BUD		29.83	314	eP	32	03.00	0.2			0.9s	106.00nm			5.8mb		LFF		41.62	305	eP	33	43.60	0.4
SPC		29.84	318	eP	32	02.70	-0.4					i	32	46.20	2kmX	KEV		41.73	348	iP	33	44.00	0.3
DMN		30.03	87	P	32	04.72	-0.4					i	32	54.60				1.0s	44.00nm			5.1mb	
KKN		30.14	86	P	32	05.64	-0.4	CLL		34.95	318	iPc	32	46.90	-0.4	EPF		41.86	302	eP	33	45.50	0.3
PKI		30.30	86	P	32	06.96	-0.6			1.2s	61.00nm			5.4mb		KTK1		41.87	346	iPd	33	44.60	-0.3
TIH		30.32	312	iP	32	07.30	0.2					i	32	53.90	24km	NSS		41.92	336	eP	33	44.16	-1.2
SRO		30.41	314	iP	32	07.70	-0.1					iS	38	16.40		MFF		42.34	307	eP	33	48.30	-0.8
KRA		30.42	319	iPc	32	07.40	-0.6	FUR		34.97	312	iPc	32	47.00	-0.7			0.9s	13.10nm			4.7mb	
		0.8s	57.00nm				5.5mb			1.2s	164.00nm			5.8mb		LDF		42.51	310	eP	33	49.40	-1.0
	Z	18s	1.30um				4.6Msz	OSS		35.35	309	ePc	32	50.90	-0.2	FLN		42.76	310	eP	33	51.50	-1.0
	E	18s	1.30um					BOB		35.45	306	P	32	52.70	0.9			0.8s	21.50nm			4.9mb	
SGO		30.52	299	Pd	32	10.10	1.2	MDI		35.45	307	P	32	51.90	0.2		Z	22s	0.32um			4.2Msz	
GUN		30.63	86	P	32	10.32	-0.2	GRF		35.46	314	iPc	32	51.70	-0.1	GRR		42.97	310	eP	33	53.50	-0.7
ZAG		31.21	310	eP	32	14.50	-0.4			1.2s	63.00nm			5.4mb				1.1s	43.95nm			5.1mb	
PTJ		31.25	310	eP	32	15.40	-0.1		Z	22s	0.20um			3.8Msz		LPF		43.06	309	eP	33	54.00	-0.9
ZST		31.30	314	eP	32	15.50	-0.3	PGF		35.47	302	eP	32	51.90	-0.1			1.1s	39.05nm			5.1mb	
			e		32	23.00	26km	MOX		35.53	316	eP	32	52.00	-0.3	LZH		44.27	68	iPc	34	06.00	0.9
			e		32	42.50		KAF		35.59	340	iP	32	51.60	-1.1			2.0s	130.00nm			5.4mb	
DUI		31.32	301	P	32	19.20	3.1X			0.2s	2.70nm			4.8mb			Z	18s	1.02um			4.8Msz	
VBY		31.61	309	e(P)c	32	18.60	0.1	VDL		35.76	309	ePc	32	54.00	-0.6		N	14s	0.75um				
SDI		31.80	301	P	32	28.00	7.7X	SAX		36.01	310	ePc	32	55.90	-0.9		E	15s	0.81um				
VKA		31.82	314	iPc	32	20.00	-0.3	VAI		36.11	307	P	32	56.50	-0.8				pP		34	12.50	22km
		1.0s	74.60nm				5.6mb	LLS		36.16	309	ePc	32	57.10	-0.8	CHG		44.93	93	iPc	34	09.90	-0.5
KOD		31.84	123	eP	32	21.00	-0.1	SHL		36.42	87	iP	32	59.00	-1.4			1.1s	34.81nm			5.2mb	
WMQ		32.06	55	iPc	32	23.00	0.4					eS	38	39.00		ESY		45.17	320	ePc	34	11.40	-0.4
	Z	20s	1.50um				4.7Msz	SLE		36.69	310	ePc	33	01.30	-0.9			0.7s	100.00nm			5.9mb	
AZI		32.13	302	P	32	23.80	0.8	ZLA		36.69	310	ePc	33	01.50	-0.8	CD2		45.17	75	eP	34	12.00	-0.3
CEY		32.23	309	ePd	32	25.00	1.0	MMK		36.70	308	ePc	33	01.60	-1.0	TOL		45.29	298	eP	34	21.50	8.4X
LJU		32.24	309	ePc	32	24.50	0.4	SBF		36.75	304	eP	33	02.60	-0.2				eS		40	53.00	
VOY		32.67	309	iPc	32	27.70	-0.2			1.0s	60.00nm			5.4mb					eSS		44	04.00	
TRI		32.67	308	iPd	32	27.80	0.1	UPP		36.99	333	iP	33	03.60	-0.8	EKA		45.36	319	Pc	34	12.50	-0.8
MNS		32.75	302	P	32	28.70	0.2	FEL		37.03	311	eP	33	03.43	-1.7			0.9s	25.30nm			5.1mb	
ARV		32.75	304	P	32	29.30	0.8	DIX		37.08	307	ePc	33	04.90	-0.9	EBL		45.38	320	ePc	34	13.20	-0.3
KSP		32.86	318	iPc	32	28.70	-0.6	TNS		37.33	314	ePc	33	07.10	-0.4			0.7s	82.00nm			5.8mb	
		1.2s	43.00nm				5.3mb	EMS		37.41	307	ePc	33	07.90	-0.6	BDT		45.64	95	eP	34	09.40	-6.6X
			e		33	25.00	284kmX	BNI		37.44	306	P	33	08.00	-0.7			1.0s	35.20nm			5.2mb	
			e		38	55.50		LPG		37.45	306	eP	33	08.40	-0.5	ELO		45.88	321	ePc	34	16.50	-0.9
ASS		32.87	303	P	32	31.10	1.5			1.0s	36.00nm			5.2mb				0.8s	67.00nm			5.6mb	
KMR		33.12	313	iP+	32	31.90	0.3	LPL		37.47	306	eP	33	08.50	-0.5	KMI		45.91	83	Pc	34	18.00	-0.3
			e(S)		37	54.00				1.0s	58.00nm			5.4mb				1.5s	160.00nm			5.7mb	
KBA		33.33	311	iPc	32	34.30	0.6	RSL		37.56	307	P	33	08.64	-1.1				pP		34	25.50	25km
		0.8s	59.00nm				5.6mb	CDF		37.62	311	eP	33	08.70	-1.4	EAB		46.17	320	ePc	34	18.90	-0.8
			id		32	34.70	1kmX	BSF		37.82	310	eP	33	10.80	-1.0	ETA		46.78	316	eP	34	23.90	-0.7

ECP	46.83	315	eP	34	24.30	-0.7
	0.8s	142.00nm			6.0mb	
IFR	47.13	289	iP	34	28.00	0.1
BTO	48.47	61	P	34	38.50	0.4
N	13s	0.40um				
E	14s	1.00um				
		pP		34	44.00	18km
XAN	48.73	70	iPc	34	40.20	0.0
	0.8s	40.00nm			5.5mb	
N	12s	0.50um				
E	12s	0.50um				
VAL	49.21	314	iP	34	43.20	-0.3
HHC	49.60	60	Pc	34	47.90	1.1
TIY	50.78	64	Pc	34	56.00	0.2
	1.4s	70.00nm			5.4mb	
Z	18s	1.10um			4.9Msz	
E	12s	0.50um				
SNG	51.94	106	eP	35	02.90	-1.9
		e		36	16.80	355kmX
BJI	53.20	61	eP	35	14.00	0.1
	1.0s	35.00nm			5.3mb	
		PcP		36	21.00	
IPM	53.72	108	ePc	35	16.10	-1.9
	1.0s	62.30nm			5.6mb	
WHN	54.07	72	iPc	35	20.50	0.2
	0.7s	50.00nm			5.7mb	
		pP		35	34.00	49kmX
OIZ	54.26	87	Pd	35	21.50	-0.4
TIA	54.77	65	Pc	35	25.70	0.2
	1.6s	100.00nm			5.6mb	
LKO	56.34	261	P	35	36.06	-1.1
	0.7s	25.00nm			5.4mb	
KIC	57.25	257	Pc	35	42.78	-0.8
	0.9s	55.00nm			5.6mb	
NJ2	57.30	69	Pc	35	43.50	-0.1
	1.0s	50.00nm			5.5mb	
TIC	57.34	258	Pc	35	43.22	-1.0
	0.9s	29.00nm			5.3mb	
LIC	57.56	257	Pc	35	44.90	-0.9
	0.9s	58.50nm			5.6mb	
Z	20s	0.79um			4.8Msz	
DL2	57.57	61	P	35	45.80	0.4
	1.0s	200.00nm			6.1mb	
SNY	58.29	57	iPc	35	49.70	-0.7
	0.8s	30.00nm			5.4mb	
Z	18s	1.10um			5.0Msz	
N	17s	0.80um				
		eS		43	56.00	
CN2	59.15	54	iPc	35	56.00	-0.4
	1.0s	40.00nm			5.5mb	
Z	15s	3.00um			5.5MszX	
N	12s	0.40um				
E	12s	0.30um				
		pP		36	03.50	25km
		eS		44	08.00	
SSE	59.49	70	eP	35	55.20	-3.7X
		sP		36	05.50	
SLR	59.79	204	eP	36	02.10	0.9
	1.0s	20.00nm			5.2mb	
MDJ	61.82	53	eP	36	13.50	-1.1
BLF	63.61	204	eP	36	25.00	-1.8
BAG	64.63	85	eP	36	33.00	-0.8
TSRJ	69.48	60	P	37	03.70	-0.3
MTMJ	70.42	59	P	37	09.50	-0.4
NIIJ	71.04	58	P	37	12.50	-0.9
CHJJ	71.52	59	P	37	15.10	-1.3
KAKJ	72.32	58	P	37	15.30	-5.8X
MBC	73.51	358	eP	37	27.00	-0.3
	1.0s	9.00nm			4.8mb	
FRB	74.86	336	eP	37	35.00	-0.3
BRW	76.80	9	ePc	37	47.60	1.4
SCH	79.77	329	eP	38	03.00	0.2
INK	81.61	2	iPc	38	12.20	0.0
IMA	82.08	10	iPc	38	16.10	1.2
	0.7s	29.40nm			5.4mb	
FBA	83.98	8	ePc	38	25.60	1.1
	1.2s	61.90nm			5.7mb	
SVW	86.37	13	ePc	38	38.40	1.7
YKA	86.77	353	eP	38	37.90	-0.6
	0.9s	11.40nm			5.1mb	
TOA	86.88	8	ePc	38	41.20	2.1
PMR	86.98	9	ePc	38	40.60	1.1
	1.2s	70.50nm			5.8mb	
FFC	92.12	345	eP	39	04.40	0.6
	0.9s	15.00nm			5.4mb	
WRA	94.49	110	P	39	14.00	-1.1
	0.6s	1.50nm			4.6mb	

EDM	95.67	351	eP	39	21.00	0.7
ASPA	96.01	114	eP	39	17.60	-4.5X
	1.1s	3.20nm			4.7mb	
SES	98.05	348	eP	39	31.00	-0.1
GLA	115.52	347	ePKP	44	45.00	7.7X
IKP	116.16	348	ePKP	44	47.00	8.4X
BAR	116.23	348	ePKP	44	40.00	1.4
SPA	120.16	180	iPKPd	44	44.50	-0.6
	1.0s	17.50nm				
DZM	122.29	98	iPKPc	44	49.30	-1.2
LPB	122.92	269	ePKP	44	44.00	-8.2X
			eLR	35	20.00	
CNCB	122.94	269	ePKP	44	44.00	-8.4X
WLZ	134.19	115	PKP	45	19.30	6.6X
S.D. = 1.0 on 237 of 261 obs.						

? FEB 14, 1991 09h 02m 47.66±11.07s
17.142 N ±75.7km 61.464 W ±19.8km
DEPTH = 10.0km (geophysicist)
LEEWARD ISLANDS (92)
ML 3.3 (FDF).

SEG	0.74	183	ePd	03	02.27	0.2
			S	03	08.20	
DEG	0.91	155	ePd	03	05.08	0.0
			S	03	13.70	
SFG	0.92	164	eP	03	05.21	0.0
			S	03	14.20	
DOG	1.11	188	ePd	03	08.48	-0.1
			S	03	19.60	
PAG	1.13	191	eP	03	08.70	-0.1
			S	03	19.90	
BBL	1.61	180	ePd	03	16.25	0.0
			S	03	33.00	
S.D. = 0.1 on 6 of 6 obs.						

& FEB 14, 1991 09h 30m 17.00s
29.700 N 113.800 W
DEPTH = 10.0km (geophysicist)
GULF OF CALIFORNIA (49)
<SPEC>. Held to mainshock location.

GLA	3.46	346	eP	31	14.00	2.0
IKP	3.54	327	eP	31	26.00	12.7
BAR	3.86	321	eP	31	17.00	-0.7
PLM	4.48	325	eP	31	30.00	3.3
TPC	4.79	337	eP	31	36.00	5.0
RVR	5.25	326	eP	31	55.00	17.6
MWC	5.78	322	eP	32	03.00	17.9
PAS	5.79	321	eP	32	07.00	22.1
SBB	6.03	327	eP	31	54.00	5.5
GSC	6.13	336	eP	32	19.00	29.1
CLC	6.89	333	eP	32	20.00	19.5
ISA	7.13	328	eP	32	07.00	3.0
ALO	8.12	48	eP	32	14.30	-3.6
LRM	16.13	3	eP	34	11.50	5.9
SES	20.78	5	eP	35	01.00	0.4
15 obs. associated						

& FEB 14, 1991 09h 54m 38.00s
29.700 N 113.800 W
DEPTH = 10.0km (geaphysicist)
GULF OF CALIFORNIA (49)
<SPEC>. Held to mainshock location.

GLA	3.46	346	eP	55	32.00	-1.0
IKP	3.54	327	eP	55	43.00	8.7
8AR	3.86	321	eP	55	43.00	4.3
PLM	4.48	325	eP	55	48.00	0.3
TPC	4.79	337	eP	56	03.00	11.0
GSC	6.13	336	eP	56	48.00	37.1
ALO	8.12	48	eP	56	28.80	-10.1
MSU	8.89	8	eP	56	51.50	1.8
8 obs. associated						

? FEB 14, 1991 09h 58m 14.06± 1.82s
29.681 N ±19.9km 113.769 W ±16.8km
DEPTH = 10.0km (geophysicist)
4.6mb (5 obs.)
GULF OF CALIFORNIA (49)
ML 4.2 (GS).

GLA	3.48	345	eP	59	13.00	3.6X
IKP	3.57	326	eP	59	22.00	11.2X
BAR	3.89	321	eP	59	15.00	-0.2

PLM	4.51	325	eP	59	27.00	2.8X
TPC	4.82	337	eP	00	13.20	44.8X
PEC	5.10	326	eP	59	41.50	9.2X
RVR	5.28	325	eP	59	43.00	8.1X
MWC	5.81	322	eP	00	02.00	19.4X
PAS	5.82	321	eP	00	05.00	22.6X
SBB	6.06	326	eP	59	50.00	4.1X
GSC	6.16	336	eP	59	57.00	9.6X
CLC	6.92	333	eP	00	07.00	9.0X
ABL	6.92	320	eP	59	56.50	-1.7
ISA	7.16	328	eP	00	05.00	3.5X
ALO	8.11	48	eP	00	10.50	-4.4X
TNP	8.86	342	eP	00	25.00	-0.2
MSU	8.91	8	eP	00	23.30	-2.7
BONR	9.07	337	e(P)	00	31.00	2.7X
KVN	10.01	340	e(P)	00	43.00	1.9X
DUG	10.52	4	e(P)	00	50.00	1.9X
DAU	10.90	10	e(P)	00	55.00	1.5
BW06	13.50	13	eP	01	28.00	-0.3
LRM	16.15	3	eP	02	07.00	4.2X
RSSD	16.36	26	eP	02	05.50	0.0
	1.5s	20.16nm			4.0mb	
LON	18.16	342	P	02	30.00	2.2
NEW	18.73	353	eP	02	36.20	1.3
	1.1s	12.35nm			4.0mb	
PNT	20.11	349	eP	02	55.00	4.3X
SES	20.79	5	eP	02	57.00	-0.8
YKA	32.82	359	eP	04	59.50	10.0X
	0.6s	0.10nm				
INK	40.37	349	eP	05	55.00	1.7
MBC	46.72	358	eP	06	47.00	2.6X
SSF	85.02	38	eP	10	54.80	3.9X
	1.5s	18.30nm			5.1mb	
MAF	85.04	39	eP	11	01.90	10.8X
LOR	85.07	37	eP	10	52.50	1.3
	0.6s	3.15nm			4.7mb	
LBF	85.31	37	eP	10	53.60	1.1
	1.2s	8.95nm			4.9mb	
CDF	86.08	35	eP	10	55.40	-1.0
BSF	86.22	36	eP	10	54.90	-2.2
S.D. = 1.6 on 15 of 37 obs.						

& FEB 14, 1991 10h 20m 00.66s
44.374 N 129.563 W
DEPTH = 7.1km
OFF COAST OF OREGON (30)
<SEA>.

KMOR	4.49	72	P	21	02.88	-7.8
NLO	4.65	66	P	21	06.19	-6.7
HSO	4.75	98	P	21	06.89	-7.6
ONR	4.77	56	P	21	07.29	-7.4
BMW	4.93	63	P	21	08.74	-8.2
OOW	5.03	46	P	21	11.17	-7.2
RVW	5.13	67	P	21	12.39	-7.4
PGO	5.17	75	P	21	13.57	-6.7
CPW	5.20	58	P	21	12.99	-7.8
GT2	5.25	79	P	21	14.13	-7.4
LVP	5.33	69	P	21	16.04	-6.6
OSD	5.34	48	P	21	15.54	-7.3
APW	5.37	62	P	21	15.00	-8.1
CZM	5.38	65	P	21	15.92	-7.4
ERK	5.45	67	P	21	16.76	-7.6
MTMW	5.45	70	P	21	17.24	-7.1
VLMM	5.47	75	P	21	17.28	-7.3
SHW	5.48	68	P	21	17.93	-6.9
JLK	5.52	69	P	21	18.71	-6.7
ESD	5.54	68	P	21	19.54	-6.1
TDL	5.54	67	P	21	18.19	-7.5
SOSW	5.56	68	P	21	19.18	-6.7
CDFW	5.59	69	P	21	19.58	-6.7
HDW	5.59	52	P	21	19.28	-7.1
KOSW	5.59	66	P	21	18.76	-7.6
LMW	5.60	63	P	21	19.08	-7.4
GMW	5.69	54	P	21	20.19	-7.5
VLL	5.70	76	P	21	21.09	-6.9
VBEM	5.73	80	P	21	21.39	-6.9
APM	5.75	74	P	21	21.94	-6.6
BLN	5.84	49	P	21	23.04	-6.7
ASR	5.90	70	P	21	23.50	-7.2
RVC	5.91	62	P	21	23.39	-7.4
LON	5.94	64	P	21	23.44	-7.7
PGW	5.94	52	P	21	24.65	-6.5
REMR	5.94	63	P	21	23.89	-7.5
GLK	6.01	66	P	21	25.27	-6.9
WPW	6.09	65	P	21	25.89	-7.5
FMW	6.09	62	P	21	25.90	-7.6

14d 10h

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GSM      6.12  60 P      21 26.84  -7.0
HTW      6.41  55 P      21 30.73  -7.2
JCW      6.52  51 P      21 32.43  -7.0
TBM      6.86  63 P      21 36.89  -7.4
MBW      6.88  47 P      21 38.06  -6.5
RPW      6.90  51 P      21 37.45  -7.2
ETW      7.20  60 P      21 41.96  -7.0
       46 obs. ossociated
-------------------------------------
&  FEB  14, 1991  10h 54m 09.70s
   48.926 N          128.811 W
   DEPTH =  10.0km  (geophysicist)
   3.9mb (  2 obs.)
 VANCOUVER ISLAND REGION          ( 25)
      <PGC>.

EDB      1.46  49 P      54 35.58  -0.4
ETB      1.56  72 P      54 37.65   0.2
PHC      1.99  26 P      54 43.12  -0.6
                 S      55 07.90
GDR      2.01  64 P      54 43.59  -0.4
OZB      2.19  88 P      54 45.80  -0.9
BTB      2.22  75 P      54 47.10  -0.2
CBB      2.51  62 P      54 50.66  -0.5
ALB      2.64  81 P      54 52.60  -0.4
MGB      2.72  87 P      54 53.21  -1.1
PFB      2.91  95 P      54 55.61  -1.4
NAB      3.17  83 P      55 00.47  -0.1
BBB      3.29   7 P      55 00.80  -1.5
                 S      55 39.50
SHB      3.30  76 P      55 02.77   0.2
RPW      4.86  93 P      55 24.26  -0.3
CZM      4.93 118 P      55 26.80   1.2
GSM      5.01 107 P      55 25.96  -0.8
ERK      5.10 119 P      55 28.59   0.5
KOSW     5.10 116 P      55 29.37   1.3
TDL      5.15 118 P      55 29.46   0.7
LON      5.19 112 P      55 30.06   0.7
FMW      5.20 110 P      55 30.18   0.7
STD      5.21 119 P      55 30.38   0.8
CDFW     5.37 119 P      55 33.27   1.4
WPW      5.38 112 P      55 33.27   1.3
TWW      5.62 106 P      55 36.75   1.4
ASR      5.62 117 P      55 36.52   1.1
VLMM     5.72 124 P      55 39.00   2.2
TBM      5.78 105 P      55 38.57   0.9
NAC      5.81 109 P      55 39.21   1.3
ETW      5.82 100 P      55 38.28   0.1
EBG      5.90 107 P      55 40.26   1.0
VLL      5.97 123 P      55 41.63   1.4
WTV      6.04  98 P      55 40.96  -0.2
PNT      6.05  83 eP     55 41.00  -0.3
       0.4s     5.00nm          4.6mb X
MXC      6.21 109 P      55 44.12   0.6
VTG      6.25 105 P      55 43.93  -0.1
EPH      6.37 101 P      55 44.84  -1.0
SAW      6.40  98 P      55 45.28  -1.0
MDW      6.52 107 P      55 48.42   0.4
WAH2     6.59 106 P      55 48.78  -0.2
CRF      6.68 105 P      55 48.96  -1.2
GBL      6.72 107 P      55 50.70  -0.1
OD2      6.93  99 P      55 52.37  -1.4
DPW      7.14  95 P      55 55.47  -1.3
SES     11.61  76 eP     56 58.00  -0.4
YKA     15.72  25 eP     57 50.70  -1.8
       0.7s     1.10nm          3.2mb
FFC     17.51  61 eP     5B 15.00  -0.2
       0.7s    31.00nm          4.5mb
       47 obs. associated
-------------------------------------
*  FEB  14, 1991  12h 10m 43.80± 1.47s
   4.419 S ± 5.7km   80.593 W ±16.4km
   DEPTH =  62.9 ± 14.6 km
   4.7mb (  5 obs.)
 PERU-ECUADOR BORDER REGION       (110)

QUIL     4.00  25 eP     11 43.60  -0.9
VC1      4.34  30 P      11 50.00   0.6
QTO      4.66  26 eP     11 53.70  -0.1
GGP      4.66  25 iPd    11 54.30   0.3
YANA     4.73  25 iPd    11 54.70  -0.1
CAYA     5.17  30 eP     12 01.00  -0.1
COTA     5.23  26 eP     12 02.00   0.1
NNA      8.39 154 eP     12 44.50  -0.7
       0.6s    23.33nm          5.2mb
                 e      12 47.00
                 eS     14  1.00

PT10     8.41 155 e(P)   12 46.00   0.5
                 e(S)   14 34.00
LPB     17.18 135 eP     14 41.00  -0.7
CNCB    17.46 136 P      14 46.50   1.3
SIV     22.36 122 P      15 37.60  -0.4
ALQ     46.10 330 eP     19 04.10   0.3
       1.0s     6.25nm          4.5mb
ANMO    46.10 330 P      19 04.50   0.7
TNP     54.23 325 P      20 05.20  -0.6
                 e      20 22.20  65kmX
SES     60.57 338 eP     20 50.00  -0.1
PNT     63.32 333 eP     21 09.00   0.6
       0.9s    12.00nm          4.9mb
YKA     71.58 344 eP     21 58.00  -2.0
       0.9s     2.10nm          4.1mb
INK     81.23 343 eP     22 54.00   0.0
MBC     83.58 351 eP     23 07.00   1.0
       0.8s     6.00nm          4.7mb
      S.D. =  0.8  on  20 of  20 obs.
-------------------------------------
?  FEB  14, 1991  13h 36m 11.24± 5.17s
   39.114 N ±24.5km   28.007 E ±78.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)

IZM      0.92 219 iPg    36 28.90   0.0
                 iSg    36 40.40
EDC      1.24 355 ePn    36 34.60   0.4
BNT      1.24 357 ePn    36 34.00  -0.3
KGT      1.44 338 iPn    36 37.30  -0.1
      S.D. =  0.5  on   4 of   4 obs.
-------------------------------------
?  FEB  14, 1991  13h 51m 39.48± 5.88s
   29.185 N ±54.5km   113.307 W ±10.9km
   DEPTH =  10.0km  (geophysicist)
   3.7mb (  1 obs.)
 GULF OF CALIFORNIA               ( 49)
      ML 3.7 (GS).

ECBX     2.73 327 ePn    52 24.00  -0.2
GLA      4.07 342 eP     52 44.00   0.9
IKP      4.21 326 eP     52 53.00   7.8X
PLM      5.15 325 eP     53 03.00   4.4X
TPC      5.43 335 eP     53 02.00  -0.6
PEC      5.73 326 e(P)   53 08.00   1.3
RVR      5.92 325 eP     53 23.00  13.7X
GSC      6.78 335 eP     53 32.00  10.5X
ISA      7.80 327 eP     53 35.00  -0.8
ALQ      8.17  44 eP     53 41.20   0.1
MSU      9.35   5 eP     53 57.00  -0.5
TNP      9.45 341 eP     53 54.80  -4.1X
PV09     9.91  19 eP     54 04.50  -0.9
BW06    13.90  12 e(P)   55 03.00   4.1X
RSSD    16.64  24 eP     55 36.00   1.5
       1.1s     6.99nm          3.7mb
SES     21.25   4 eP     56 27.00  -1.0
      S.D. =  1.0  on  10 of  16 obs.
-------------------------------------
?  FEB  14, 1991  16h 19m 15.93± 3.68s
   61.281 N ±11.8km    2.818 E ±29.6km
   DEPTH =  10.0km  (geophysicist)
 NORWEGIAN SEA                    (642)
      MD 2.3 (BER).

SUE      0.97 103 eP     19 35.05   0.8
                 eS     19 43.86
FRO      1.10  63 eP     19 36.78   0.3
                 eS     19 48.58
FOO      1.12  72 eP     19 37.14   0.3
                 eS     19 49.32
ASK      1.41 124 eP     19 42.04   0.4
                 eS     19 57.41
HYA      1.63  93 iP     19 44.52  -0.2
                 eS     20 02.31
ODD1     2.33 124 eP     19 54.81  -0.1
                 eS     20 19.93
KMY      2.40 149 eP     19 56.09   0.2
                 eS     20 21.30
MOL      2.58  58 eP     19 58.76   0.3
                 eS     20 26.26
NRA0     4.28  94 Pn     20 20.60  -2.0
                 Lg     21 31.70
      S.D. =  0.9  on   9 of   9 obs.
-------------------------------------
&  FEB  14, 1991  16h 20m 26.00s
   29.700 N          113.800 W
   DEPTH =  10.0km  (geophysicist)
 GULF OF CALIFORNIA               ( 49)
      <SPEC>. Held to mainshock
      location.

GLA      3.46 346 eP     21 26.00   5.0
IKP      3.54 327 eP     21 33.00  10.7
PLM      4.48 325 eP     21 47.00  11.3
TPC      4.79 337 eP     22 06.00  26.0
SBB      6.03 327 eP     22 03.00   5.5
GSC      6.13 336 eP     22 31.00  32.1
SES     20.78   5 eP     25 09.00  -0.6
       7 obs. associated
-------------------------------------
   FEB  14, 1991  16h 37m 22.26± 0.45s
   29.681 N ± 7.0km   113.858 W ± 6.6km
   DEPTH =  10.0km  (geophysicist)
   5.4mb ( 34 obs.)  5.5Msz ( 12 obs.)
 GULF OF CALIFORNIA               ( 49)
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.:  9S, 22C
      Centroid Location:
      Origin Time          16:37:29.1 0.4
      Lat 30.12N 0.06 Lon 113.70W 0.06
      Dep  15.0 FIX Half-duration  2.2
      Moment Tensor;    Scale 10**17 Nm
        Mrr=-0.26 0.09  Mtt=-0.73 0.11
        Mff= 0.99 0.12  Mrt= 0.00 0.00
        Mrf= 0.00 0.00  Mtf= 1.40 0.09
       Principal Axes:
        T  Val=  1.77  Plg= 0  Azm=119
        N       -0.26       90       180
        P       -1.51        0        29
      Best Double Couple:Mo=1.6*10**17
       NP1:Strike=164 Dip=90 Slip=-180
       NP2:       254     90         0

SPX      1.94 315 P      37 54.33  -1.6
                 S      38 21.22
ECBX     2.06 330 P      37 56.51  -0.8
                 S      38 27.57
EMX      2.59 333 P      38 04.32  -0.6
RDX      2.88 322 P      38 08.09  -1.1
CPBX     3.00 336 P      38 23.27  12.6X
PBX      3.21 310 P      38 12.83  -0.9
ENX      3.26 313 P      38 13.83  -0.7
GLA      3.46 346 eP     38 15.00  -2.3
IKP      3.53 327 eP     38 17.00  -1.4
CBX      3.56 318 P      38 16.73  -2.1
PLM      4.47 326 eP     38 31.00  -0.8
TPC      4.79 338 eP     38 36.00  -0.2
PEC      5.05 327 eP     38 40.00   0.1
RVR      5.24 326 eP     38 47.00   4.5X
MWC      5.77 323 eP     38 52.00   1.9
PAS      5.77 322 eP     39 09.00  19.0X
SBB      6.02 327 eP     38 56.00   2.5X
GSC      6.13 337 eP     38 56.00   0.8
ABL      6.87 320 eP     39 05.30  -0.4
CLC      6.88 334 eP     39 06.00   0.3
SYP      7.09 315 eP     39 15.00   6.3X
ISA      7.12 328 eP     39 11.00   1.9
ALQ      8.17  48 ePd    39 20.00  -3.9X
PRI      8.61 320 eP     39 33.10   3.1X
FRI      8.78 328 eP     39 34.50   2.4X
TNP      8.83 342 eP     39 33.50   0.4
BONR     9.04 337 eP     39 39.00   2.9X
LLA      9.11 321 eP     39 41.10   4.3X
PRS      9.15 318 eP     39 39.70   2.4X
MZX      9.27 132 (P)    39 39.00   0.1
PV09     9.63  23 eP     39 46.00   1.9X
CMB      9.94 329 eP     39 50.60   2.4X
ARN      9.97 322 eP     39 49.20   0.5
KVN      9.98 341 eP     39 49.00   0.1
DUG     10.52   4 e(P)   40 02.00   5.7X
BKS     10.74 322 e(P)   39 55.00  -4.1X
     Z  20s    14.00um
     E  20s     6.00um
                 eLQ    41 34.00
                 eLR    42 25.00
BW06    13.52  14 e(P)   40 38.10   1.3
CGX     13.70 134 (P)    40 43.00   3.8X
MRX     15.19 128 (P)    41 01.00   2.5X
LRM     16.15   4 eP     41 14.00   2.9X
RSSD    16.39  26 eP     41 13.00  -1.1
III     17.28 127 (P)    41 27.00   1.5
PPM     17.42 124 (P)    41 29.50   2.0
IIT     17.68 123 iP     41 34.00   3.5X
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LON    18.13 342 eP     41 38.00    2.3X
IISM   18.39 122 (P)    41 40.00    1.1
DPW    18.47 351 eP     41 40.50    0.6
NEW    18.73 353 eP     41 43.00    0.0
RMW    18.79 343 eP     41 46.00    2.2X
OLY    19.72  67 eP     41 53.50   -1.4
OXX    20.08 125 (P)    41 57.00   -2.0
PNT    20.10 349 eP     42 02.00    3.3X
       1.2s    98.00nm          5.0mb
SES    20.80   5 ePd    42 05.80   -0.3
       1.0s  376.00nm          5.7mb
             pP         42 17.00   46kmX
FVM    21.11  61 eP     42 08.20   -1.1
ELC    21.86  63 eP     42 15.80   -1.0
PWLA   22.40  70 eP     42 20.50   -1.8
EDM    23.52   1 eP     42 35.00    1.8
TPX    24.74 122 (P)    42 46.00    0.8
FFC    26.45  16 eP     43 02.00    1.0
       0.8s    19.00nm          4.8mb
PRM    27.04  72 eP     43 06.20   -0.4
LHS    28.33  72 eP     43 15.50   -2.8
BLA    28.78  66 eP     43 21.60   -0.8
YKA    32.82 359 eP     43 56.90   -0.8
       1.5s    9.20nm           4.5mb
GAC    33.95  51 eP     44 09.00    1.3
RSNY   34.34  53 eP     44 10.00   -1.1
       1.7s  144.48nm          5.6mb
     Z 19s     1.20um          4.6Msz
UPA    38.15 116 (P)    44 42.00   -1.6
     Z 20s     5.14um          5.3Msz
TOA    38.68 336 eP     44 50.00    2.4X
PMR    39.43 334 ePc    44 56.90    3.2X
       0.9s  111.88nm          5.5mb
     Z 20s     2.50um          5.0Msz
INK    40.36 349 eP     45 03.00    1.7
PDB    40.49 330 eP     45 02.50   -0.1
FBA    41.10 339 eP     45 11.70    4.2X
       1.4s   65.20nm          5.2mb
SVW    41.76 331 eP     45 15.00    2.0
SCH    41.86  39 eP     45 13.00   -0.9
TTA    42.84 333 eP     45 25.00    3.1X
       1.1s   46.30nm          5.1mb
IMA    43.74 338 eP     45 30.90    1.6
       2.1s  260.50nm          5.7mb
FRB    44.49  27 eP     45 35.00   -0.1
PSO    44.82 122 eP     45 39.50    0.6
SDV    45.40 108 eP     45 42.40   -0.8
TOV    45.61 106 eP     45 43.00   -1.8
MBC    46.71 358 eP     45 55.00    2.4X
       1.3s   48.00nm          5.4mb
ADK    50.73 315 eP     46 23.90   -0.2
       0.9s   55.00nm          5.5mb
NNA    54.67 134 eP     46 51.50   -2.4
       1.0s   15.00nm          5.0mb
     Z 20s     0.35um          4.4MszX
LPB    63.70 130 Pc     47 53.00   -3.9X
       1.5s   55.56nm          5.5mb
CNCB   63.98 130 Pc     47 55.00   -3.9X
SIV    68.20 124 P      48 20.30   -5.0X
BAO    77.83 116 eP     49 21.50   -0.5
NB2    79.22  24 P      49 27.60   -1.2
       1.4s   19.40nm          4.9mb
SOB1   80.01 107 eP     49 33.50   -0.3
FLN    81.90  38 eP     49 45.80    2.6X
       1.3s   46.95nm          5.4mb
     Z 18s     3.25um          5.7Msz
GRR    81.92  38 eP     49 45.90    2.6X
       1.2s   23.80nm          5.2mb
LPF    82.03  39 eP     49 46.30    2.5X
       1.4s   38.20nm          5.3mb
LDF    82.19  38 eP     49 47.10    2.4X
       1.4s   39.20nm          5.3mb
WIT    82.92  32 eP     49 51.00    2.6X
KAF    83.07  18 eP     49 50.70    1.7
PDCR   83.25 108 eP     49 49.60   -1.1
SNF    83.27  35 P      49 52.70    2.5X
MFF    83.37  39 eP     49 52.80    2.0X
       1.5s   52.25nm          5.5mb
WTS    83.53  32 eP     49 52.50    1.0
       1.4s   36.00nm          5.4mb
DOU    83.69  35 P      49 53.70    1.3
     Z 18s     0.90um          5.2Msz
               S          00 22.00
ENN    83.91  34 eP     49 52.50   -1.0
       1.5s   77.00nm          5.7mb
NUR    83.94  19 eP     49 53.00   -0.5
     Z 18s     2.10um          5.6Msz

               LR         29 20.00
LFF    84.86  40 eP     50 00.40    2.0X
       1.5s   67.90nm          5.7mb
TOL    84.97  47 eP     49 59.50    0.4
               ePP        53 10.00
               eS         00 35.00
BGF    85.03  38 eP     50 00.80    1.6
       1.4s   47.90nm          5.5mb
RJF    85.07  40 eP     50 01.00    1.5
       1.8s  112.20nm          5.8mb
     Z 20s     1.35um          5.3Msz
MAF    85.09  39 eP     50 01.10    1.6
       1.7s   55.15nm          5.5mb
LOR    85.12  37 eP     50 01.50    1.8
       1.5s   41.80nm          5.4mb
     Z 21s     2.08um          5.5Msz
AVF    85.15  38 eP     50 01.30    1.5
       1.3s   28.90nm          5.3mb
LBF    85.36  37 eP     50 02.60    1.7
       1.1s   11.00nm          5.0mb
SMF    85.50  38 eP     50 02.90    1.3
       1.2s   16.35nm          5.1mb
CAF    85.61  40 eP     50 03.30    1.1
       1.6s   49.75nm          5.5mb
EPF    85.79  42 eP     50 04.90    1.7
       1.7s   55.15nm          5.5mb
HAU    85.93  36 eP     50 04.10    0.4
     Z 19s     1.98um          5.5Msz
CDF    86.12  35 eP     50 05.10    0.3
BSF    86.27  36 eP     50 05.80    0.3
CLL    86.80  30 e(P)   50 08.00    0.1
GRF    87.14  32 eP     50 10.80    1.2
       1.4s   19.00nm          5.1mb
     Z 19s     2.20um          5.6Msz
BRG    87.52  30 eP     50 12.00    0.6
       1.3s   23.00nm          5.3mb
LPL    87.77  37 eP     50 14.10    1.1
LPG    87.79  37 eP     50 14.50    1.3
PRU    88.43  30 eP     50 08.00   -7.8X
       1.5s   13.40nm          5.0mb
     Z 18s     2.40um          5.7Msz
     N 18s     0.80um
     E 18s     1.30um
               e          50 16.00
KHC    88.62  31 eP     50 18.50    1.7
     Z 16s     1.60um          5.5MszX
     N 16s     1.00um
     E 16s     0.90um
SPC    91.46  28 eP     50 31.80    1.6
LZH  105.59 329 ePKP     55 56.50    8.9X
       2.0s   36.00nm
     Z 16s     0.77um          5.3MszX
GKN  119.98 341 PKP      56 00.00  -15.2X
BLF  145.30  99 iPKPd     57 06.50    4.1X
SLR  146.35  93 iPKPc     57 02.50   -1.7
       1.0s   65.00nm
     Z 20s     2.13um          5.9Msz
     S.D. = 1.3  on  85 of 127 obs.
-------------------------------------
?  FEB  14, 1991  16h 58m 14.79± 3.42s
   34.973 N ±26.8km   24.218 E ±18.0km
   DEPTH =  10.0km  (geophysicist)
 CRETE                              (370)
      MD 3.5 (ATH).

VAM    0.43 358 iPgc    58 23.00   -0.6
               eSg        58 30.00
NPS    1.18  75 ePb      58 35.60   -1.2
VLI    2.03 330 ePn      58 49.00   -0.4
APE    2.35  27 ePb      58 55.50    1.5
KAP    2.49  76 ePn      58 56.60    0.6
     S.D. = 1.5  on   5 of   5 obs.
-------------------------------------
%  FEB  14, 1991  17h 01m 41.30± 0.54s
   44.485 N ± 5.2km    7.281 E ± 6.3km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                     (545)
      ML 2.0 (GEN).

PZZ    0.13 279 P       01 44.95    0.4
               S          01 47.02
STV    0.24 173 P       01 46.63    0.1
               S          01 49.60
ENR    0.28 159 P       01 47.24    0.1
               S          01 50.75
BHB    0.36 358 P       01 48.89    0.2
               S          01 53.83

ROB    0.46 114 P       01 51.04    0.3
               S          01 57.19
RRL    0.56 321 P       01 52.33   -0.5
FIN    0.72 112 P       01 55.45   -0.1
IMI    0.72 142 P       01 55.05   -0.5
     S.D. = 0.4  on   8 of   8 obs.
-------------------------------------
&  FEB  14, 1991  17h 28m 42.00s
   29.700 N          113.800 W
   DEPTH =  10.0km  (geophysicist)
 GULF OF CALIFORNIA                 ( 49)
      <SPEC>. Held to mainshock
      location.

GLA    3.46 346 eP      29 49.00   12.0
IKP    3.54 327 eP      29 48.00    9.7
BAR    3.86 321 eP      29 53.00   10.3
PLM    4.48 325 eP      30 06.00   14.3
TPC    4.79 337 eP      30 20.00   24.0
GSC    6.13 336 eP      30 44.00   29.1
SES   20.78   5 eP      33 25.00   -0.6
       7 obs. associated
-------------------------------------
&  FEB  14, 1991  17h 51m 53.00s
   29.700 N          113.800 W
   DEPTH =  10.0km  (geophysicist)
   3.5mb (  1 obs.)
 GULF OF CALIFORNIA                 ( 49)
      <SPEC>. Held to mainshock
      location.

ECBX   2.07 329 eP      52 36.20    8.0
GLA    3.46 346 eP      52 55.00    7.0
IKP    3.54 327 eP      53 03.00   13.7
BAR    3.86 321 eP      53 05.00   11.3
PLM    4.48 325 e(P)    53 09.00    6.3
TPC    4.79 337 eP      53 15.00    8.0
PEC    5.06 326 e(P)    53 20.00    9.2
RVR    5.25 326 eP      53 31.00   17.6
GSC    6.13 336 eP      53 55.00   29.1
ALQ    8.12  48 eP      53 50.10   -3.8
MSU    8.89   8 eP      54 12.00    7.3
PV09   9.59  23 e(P)    54 14.00   -0.4
BW06  13.49  14 e(P)    55 15.50    8.4
RSSD  16.35  26 eP      55 49.50    5.1
      0.8s    3.31nm          3.5mb
SES   20.78   5 eP      56 37.00    0.4
       15 obs. associated
-------------------------------------
?  FEB  14, 1991  18h 06m 32.10± 8.11s
   30.231 S ±49.4km    71.813 W ±54.7km
   DEPTH =  33.0km  (normal)
 NEAR COAST OF CENTRAL CHILE        (135)

RTRS   2.04  89 iPd     07 05.10    0.4
ROCH   2.82 166 eP      07 15.50   -0.5
               e          07 52.00
RTCB   2.88 117 ePd     07 16.20   -0.6
               S          07 48.90
RTCV   3.25 121 ePd     07 21.60   -0.4
FCH    3.35 158 iPd     07 25.70    2.0
               i          08 10.00
TACH   3.49 168 iPd     07 24.50   -1.0
               iS         08 06.90
               i          08 10.50
     S.D. = 1.4  on   6 of   6 obs.
-------------------------------------
?  FEB  14, 1991  18h 19m 13.48± 1.17s
   66.405 N ± 9.5km    12.939 E ±24.9km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN NORWAY                    (646)
      MD 2.7 (BER).

LOF    1.75   7 eP      19 43.95   -0.1
               eS         20 04.02
NSS    1.93 193 ePg     19 52.55    6.0X
               eSg        20 19.53
KTK1   4.71  52 eP      20 26.35    0.1
NRA0   5.73 187 Pn      20 40.80    0.2
               Sg         22 18.30
ZST   18.39 171 eP      23 29.50   -0.3
     S.D. = 0.4  on   4 of   5 obs.
-------------------------------------
&  FEB  14, 1991  19h 00m 42.05s
   47.974 N          119.991 W
   DEPTH =   8.0km
 WASHINGTON                         ( 29)
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14d 19h

<SEA>. CL 3.1 (SEA). Felt at Chelan.

DHW2	0.15	86	Pc	00	45.23	-0.1
CBSW	0.17	191	Pd	00	45.59	-0.3
NLW	0.26	294	Pc	00	46.86	-0.5
			S	00	50.32	
WTV	0.28	175	Pd	00	47.32	-0.5
ETW	0.44	212	Pd	00	50.08	-0.8
			S	00	55.99	
SAW	0.48	124	Pd	00	50.94	-0.8
			S	00	57.48	
EPH	0.68	157	Pd	00	54.49	-1.2
TBM	0.90	207	P	00	58.88	-0.7
VTG	1.02	180	Pd	01	00.80	-0.7
TWW	1.03	216	P	01	01.32	-0.4
OD2	1.04	124	Pd	01	01.00	-0.9
RC1	1.10	160	P	01	02.52	-0.4
RPW	1.12	296	P	01	02.23	-1.1
EBG	1.13	200	P	01	03.13	-0.4
WRD	1.16	150	P	01	03.13	-0.7
BVW	1.17	176	P	01	03.54	-0.5
DPW	1.21	94	P	01	03.10	-1.7
HTW	1.21	263	P	01	03.74	-1.0
CRF	1.22	160	P	01	03.86	-1.1
WAH2	1.25	166	P	01	04.88	-0.6
LOCW	1.31	163	P	01	05.99	-0.5
JCW	1.32	280	P	01	06.09	-0.5
RMW	1.33	248	P	01	06.62	-0.2
NAC	1.36	205	P	01	07.44	0.1
MDW	1.37	173	P	01	07.29	-0.1
MXC	1.41	188	P	01	08.24	0.2
GBL	1.42	165	P	01	08.35	0.1
BRVW	1.49	180	P	01	09.64	0.4
MBW	1.51	303	P	01	09.07	-0.5
FMW	1.55	228	P	01	09.38	-0.7
LON	1.74	226	eP	01	14.00	1.2
NEW	1.95	80	eP	01	16.50	0.7
VGB	2.52	193	eP	01	26.00	2.0

33 obs. associated

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* FEB 14, 1991 19h 11m 34.26± 0.86s
45.547 N ±11.5km 7.747 E ± 6.3km
DEPTH = 5.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.2 (LDG).

ORO	0.18	64	Pd	11	38.10	0.1
			eSg	11	40.40	
LPG	0.70	266	Pg	11	48.20	-0.1
			Sg	11	57.60	
LPL	0.71	268	Pg	11	48.40	-0.2
			Sg	11	57.80	
BNI	0.90	237	P	11	52.60	0.5
			eSg	12	04.40	
SBF	1.70	188	Pg	12	04.50	-0.3
			Sg	12	25.60	

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

FEB 14, 1991 19h 22m 15.19± 0.12s
6.279 S ± 2.9km 154.697 E ± 3.3km
DEPTH = 44.8km (geophysicist)
5.8mb (54 obs.) 5.6Msz (19 obs.)
SOLOMON ISLANDS (193)
Depth from broodbond displacement seismogroms.
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=100 Dip=53 Slip= 90
NP2: 280 37 90
Principol Axes:
T Plg=82 Azm= 10
P 8 190
Comment: The focal mechonism is poorly controlled ond corresponds to reverse foulting. The preferred foult plone is NP2.
RADIATED ENERGY
No. of sta: 9 Focol mech. F
Energy 7.0±1.3*10**11 Nm
MOMENT TENSOR SOLUTION
Dep 44 No. of sto: 17
Moment Tensor; Scole 10**18 Nm
Mrr= 1.19 Mtt=-0.86
Mff=-0.33 Mrt=-0.50
Mrf= 0.22 Mtf= 0.43
Principol oxes:
T Val= 1.32 Plg=77 Azm=200
N -0.09 2 298
P -1.23 13 29
Best Double Couple:Mo=1.3*10**18
NP1:Strike=121 Dip=32 Slip= 94
NP2: 297 58 88
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 18S, 34C
Centroid Locotion:
Origin Time 19:22:20.0 0.6
Lot 6.58S 0.05 Lon 154.53E 0.03
Dep 57.8 1.7 Half-duration 3.4
Moment Tensor; Scole 10**17 Nm
Mrr= 8.73 0.18 Mtt=-5.61 0.34
Mff=-3.12 0.30 Mrt= 1.29 0.31
Mrf=-0.56 0.30 Mtf= 4.95 0.22
Principol Axes:
T Val= 8.84 Plg=85 Azm= 8
N 0.73 2 128
P -9.57 4 218
Best Double Couple:Mo=9.2*10**17
NP1:Strike=310 Dip=41 Slip= 94
NP2: 126 49 87

RAB		3.26	309	iPd-	23	10.00	4.9X
				iS	23	24.00	
VSG		5.78	121	iP	23	42.50	1.7
SVO		5.82	120	eP	23	44.00	2.7
HNR		6.07	121	iP	23	46.00	1.2
				iS	23	57.00	
PMG		8.09	247	iPd	24	15.00	2.0
DZM		19.37	145	iPd	26	40.00	-0.4
QIS		20.39	224	iPd	26	52.00	0.9
				i	29	51.00	
RMQ		20.88	195	ePd	26	57.00	0.9
BRS		21.08	185	iPc	26	59.00	0.9
				i	27	12.50	
				eS	30	51.00	
GUA		21.95	334	eP	27	08.70	1.8
		0.9s		356.30nm			5.8mb
	Z	21s		9.32um			5.2Msz
				pP	27	18.70	38kmX
				eS	31	09.00	
PJG		22.02	334	eP	27	09.50	2.0
OLP		22.52	205	iPd	27	14.00	1.6
				i	27	21.80	
WB2		23.98	234	iPc	27	27.60	0.9
				i	31	49.00	
MTN		24.12	253	eP	27	30.20	2.1
		0.3s		100.00nm			5.8mb
COO		24.32	186	eP	27	31.00	1.1
SVA		25.99	119	eP	27	58.60	12.8X
CMS		26.42	197	iPd	27	50.00	0.4
ASPA		26.43	227	iPc	27	49.90	0.0
		1.0s		60.40nm			5.1mb
	Z	23s		21.80um			5.6MszX
				i	28	01.00	
				eS	32	16.30	
				iPcS	34	54.20	
				iScS	39	05.00	
KNA		27.11	248	eP	27	56.80	0.8
		0.8s		223.00nm			5.8mb
RIV		27.61	186	eP	28	18.00	17.6X
				eS	33	00.00	
CNB		29.31	189	e(P)	28	17.00	1.1
DAV		31.95	294	eP	28	40.00	0.7
ADE		32.13	205	iPd	28	41.00	0.3
		1.1s		111.39nm			5.6mb
TOO		32.26	194	eP	28	42.00	0.2
	Z	18s		36.50um			6.1Msz
BFD		32.69	198	eP	28	46.00	0.5
WARB		33.28	230	eP	28	51.00	0.2
		0.4s		30.00nm			5.5mb
FORR		34.93	222	iPc	29	04.70	-0.2
		0.4s		95.00nm			6.1mb
MBL		36.84	243	iPc	29	21.00	-0.2
		0.6s		75.00nm			5.8mb
TAU		37.06	189	iPd	29	23.80	1.1
				i	31	42.60	
CNZ		37.79	153	P	29	30.00	0.9
				e	29	40.80	
HBZ		37.86	149	eP	29	28.20	-1.3
TSM		38.03	285	ePd	29	35.50	4.3X
PUZ		38.20	149	P	29	31.10	-1.3
NOZ		38.51	150	P	29	34.40	-0.5
THZ		38.87	158	P	29	37.20	-0.9
TCW		38.93	156	P	29	37.80	-0.6
MNG		38.93	155	P	29	37.30	-1.2
MRW		39.12	156	P	29	39.40	-0.6
WEL		39.19	156	P	29	38.00	-2.6
WDW		39.27	156	P	29	40.40	-0.9
PGZ		39.27	154	P	29	40.10	-1.2
MTW		39.39	155	P	29	40.70	-1.6
LTZ		39.54	160	P	29	43.30	-0.3
KHZ		39.68	158	P	29	42.90	-1.7
MEKA		39.92	235	eP	29	47.40	0.5
KKM		40.31	287	ePd	29	51.60	1.2
		0.7s		163.90nm			5.9mb
MQZ		40.48	160	eP	29	50.70	-0.5
BAG		40.59	304	ePc+	29	53.00	0.3
		1.4s		493.02nm			6.1mb
				eS	35	51.00	
NANU		41.07	243	eP	29	57.00	0.6
KLB		42.72	229	iPc	30	09.20	-0.6
				e	30	21.00	
MRWA		43.03	233	eP	30	12.70	0.3
		0.5s		12.00nm			4.9mb
				e	30	27.00	
NWAO		43.75	228	eP	30	17.50	-0.6
				e	32	28.00	
				eS	36	51.00	
WKYJ		44.15	337	P	30	19.50	-1.9
IIDJ		44.44	340	P	30	24.50	0.8
TKSJ		44.56	335	eP	30	23.70	-0.9
CHJJ		44.61	342	P	30	24.30	-0.7
KUMJ		44.79	331	P	30	26.10	-0.4
TATO		44.83	315	ePd	30	14.02	-12.9X
ANP		44.94	315	eP	30	30.00	2.1
TSRJ		45.17	338	P	30	32.70	3.3X
MAJO		45.31	341	eP	30	21.15	-9.5X
				eS	37	02.56	
				esS	37	33.18	
MTMJ		45.48	341	P	30	31.80	-0.3
NIIJ		45.71	342	P	30	33.90	0.2
YONJ		45.84	336	P	30	36.10	1.3
SHNJ		45.97	332	eP	30	34.60	-1.1
YAMJ		46.28	344	P	30	38.90	0.7
OFUJ		46.72	346	eP	30	41.80	0.2
OZH		46.88	313	eP	30	43.00	-0.1
		0.8s		70.00nm			5.7mb
	Z	27s		4.90um			5.3MszX
	N	20s		2.70um			
				S	37	26.00	
				sS	37	52.00	
SSE		49.07	321	Pc	31	00.00	0.0
		1.0s		25.00nm			5.2mb
	Z	20s		4.10um			5.4Msz
	N	20s		1.90um			
	E	20s		2.00um			
				pP	31	13.00	48kmX
				sP	31	18.50	
				S	38	00.00	
				sS	38	24.00	
				SS	41	28.00	
GZH		49.85	307	Pc	31	07.50	1.3
		0.8s		80.00nm			5.8mb
	Z	21s		6.50um			5.6Msz
	E	19s		4.60um			
OIZ		50.84	301	Pc	31	14.50	0.6
		0.8s		100.00nm			5.9mb
	N	20s		1.70um			
	E	21s		2.80um			
				sP	31	30.00	
				S	38	29.00	
				sS	38	53.00	
NJ2		51.18	320	Pc	31	17.00	0.8
		5.5s		1100.00nm			6.1mb X
	Z	22s		2.10um			5.1Msz
	N	12s		0.70um			
	E	14s		1.30um			
				PP	31	30.00	
				S	38	34.00	
WHN		53.22	316	ePc	31	32.00	0.5
		0.9s		100.00nm			5.8mb
	Z	28s		2.70um			5.1MszX
	E	22s		2.40um			
				pP	31	47.00	56kmX
				eS	39	00.00	
				sS	39	26.00	
DL2		54.41	328	P	31	40.00	-0.1
		0.5s		200.00nm			6.4mb
	Z	20s		1.20um			5.0Msz
	N	18s		1.80um			

14d 19h

E 18s 1.80um
IPM 54.66 280 ePc 31 41.30 -1.1
0.9s 191.40nm 6.1mb
e 31 51.30
e 32 58.70
TIA 55.02 323 eP 31 44.60 -0.1
Z 28s 2.70um 5.2MszX
E 21s 2.40um
S 39 20.00
MDJ 55.47 338 Pd 31 47.50 -0.3
1.0s 50.00nm 5.5mb
Z 28s 2.20um 5.1MszX
E 18s 1.70um
pP 32 00.00 44kmX
SNG 55.58 283 eP 31 49.50 0.4
0.9s 75.63nm 5.7mb
eS 39 24.00
SNY 55.68 332 iPc 31 48.00 -1.2
0.8s 100.00nm 5.9mb
Z 32s 4.30um 5.3MszX
N 17s 1.50um
E 17s 2.20um
iS 39 28.00
sS 40 00.00
CN2 56.42 335 Pc 31 52.00 -2.6
1.0s 40.00nm 5.4mb
Z 18s 4.20um 5.6Msz
N 15s 1.00um
E 15s 0.40um
pP 32 04.00 42kmX
S 39 39.00
GYA 56.79 307 iPc 31 57.80 0.1
Z 24s 2.70um 5.3MszX
pP 32 09.00 38kmX
S 39 50.00
sS 40 12.00
LOE 57.36 295 iPc 32 02.00 0.3
RUV 57.45 104 iP 32 00.40 -1.9
0.8s 25.00nm 5.3mb
ipP 32 13.20 45kmX
BJI 58.16 326 ePc 32 04.91 -2.0
Z 36s 4.58um 5.3MszX
E 20s 1.27um
epPd 32 16.82 41kmX
esPd 32 24.11
eS 40 00.00
NST 58.26 293 iPc 32 10.00 2.0
TIY 58.85 321 Pc 32 11.60 -0.3
Z 20s 3.00um 5.4Msz
N 17s 1.70um
XAN 58.99 316 Pc 32 12.20 -0.7
0.8s 100.00nm 6.0mb
E 18s 2.10um
S 40 13.00
KMI 59.37 304 ePc 32 16.43 0.5
1.0s 200.00nm 6.2mb
Z 28s 4.80um 5.5MszX
epPd 32 28.35 41kmX
esPd 32 35.31
eScP 37 12.56
eS 40 21.06
isS 40 45.89
BDT 59.77 294 eP 32 17.40 -1.1
0.8s 123.00nm 6.1mb
CHG 60.32 296 iPc 32 22.90 0.6
1.0s 210.00nm 6.2mb
eS 40 40.00
CHTO 60.32 296 iPc 32 21.81 -0.4
epPd 32 34.22 43kmX
esPd 32 40.85
SMY 61.06 13 P 32 27.00 0.4
0.8s 183.91nm 6.3mb
Z 20s 10.00um 6.0Msz
CD2 61.13 310 Pc 32 27.00 -0.6
0.5s 100.00nm 6.2mb
Z 24s 5.50um 5.6MszX
S 40 42.00
sS 41 08.00
HHC 61.34 324 iPc 32 28.00 -1.0
Z 30s 4.10um 5.4MszX
N 20s 1.40um
E 17s 1.00um
pP 32 42.00 50kmX
S 40 49.00
BTO 62.11 323 eP 32 33.90 -0.2
N 12s 0.50um
E 12s 0.50um

sP 32 48.00
ADK 62.89 19 P 32 38.90 0.0
0.8s 172.41nm 6.2mb
pP 32 54.00 55kmX
HIA 63.15 335 iPc 32 39.80 -1.0
epPd 32 51.89 41kmX
eS 41 06.68
isS 41 31.62
LZH 63.60 315 iPc 32 44.24 0.1
1.2s 78.00nm 5.7mb
Z 30s 4.29um 5.4MszX
N 20s 3.20um
epPd 32 56.99 44kmX
esPd 33 03.11
eS 41 15.43
e 41 34.86
SS 41 35.00
GTA 68.02 317 iPc 33 12.20 -0.2
0.8s 30.00nm 5.4mb
Z 26s 4.30um 5.6MszX
E 25s 4.90um
pP 33 25.40 46kmX
sP 33 31.00
S 42 08.00
SS 46 27.00
SHL 68.68 300 iP 33 16.40 -0.4
eS 42 16.00
LSA 70.63 304 eP 33 30.20 1.2
Z 24s 4.20um 5.6MszX
sP 33 44.40
S 42 40.00
VNDA 71.30 178 iP 33 32.00 0.4
GUN 74.50 301 P 33 51.56 -0.2
1.0s 803.00nm 6.6mb
PKI 74.81 301 P 33 52.96 -0.5
1.0s 401.00nm 6.3mb
KKN 74.97 301 P 33 54.04 -0.3
0.8s 348.00nm 6.4mb
DMN 75.08 301 P 33 54.00 -1.0
1.0s 1172.00nm 6.8mb X
GKN 75.58 301 P 33 57.18 -0.5
1.0s 1016.00nm 6.7mb
PDB 77.18 24 P 34 04.40 -1.4
WMO 78.10 317 iPc 34 10.91 -0.4
epPd 34 22.82 40kmX
esPd 34 29.94
ePP 37 06.69
eS 43 59.04
TTA 78.46 21 P 34 14.00 1.1
0.8s 51.72nm 5.6mb
KOD 78.63 282 iP 34 16.00 1.0
HYB 78.76 289 iPc 34 14.50 -0.8
0.8s 86.90nm 5.8mb
i 34 27.80
eS 44 06.00
GBA 79.18 285 P 34 17.70 0.1
PMR 80.26 24 P 34 21.80 -0.7
1.0s 82.50nm 5.6mb
Z 20s 6.50um 6.0Msz
IMA 81.22 19 P 34 27.50 -0.2
KLU 81.51 25 P 34 30.50 1.3
PAF 81.68 221 eP 34 50.00 19.8X
ePP 38 00.00
eS 44 56.00
eSPP 45 52.00
eSS 50 04.00
eSSS 53 24.00
NDI 82.10 300 iP 34 32.00 -0.8
0.7s 34.25nm 5.5mb
eS 44 38.00
COL 82.56 21 ePc 34 32.76 -1.7
epPd 34 44.68 39kmX
FBA 82.56 21 P 34 33.80 -0.7
0.8s 34.48nm 5.4mb
BRW 83.72 14 P 34 40.80 0.5
SPA 83.76 180 iPc 34 40.70 -0.2
1.0s 115.00nm 5.9mb
Z 20s 1.35um 5.3Msz
i 34 54.20
BOM 84.38 290 eP 34 45.00 0.4
eS 45 05.00
SIT 84.55 31 P 34 45.70 1.0
0.8s 55.17nm 5.7mb
KSH 85.31 310 P 34 51.00 1.9
pP 35 08.00 60kmX
S 45 15.00
sS 45 43.00

PCC 88.19 52 eP 35 04.30 1.3
BRK 88.35 52 eP 35 04.90 1.2
BKS 88.37 52 iPc 35 04.70 0.9
0.9s 73.00nm 6.0mb
ePPS 47 06.00
eLR 02 00.00
GCC 88.42 53 eP 35 05.80 1.7
WDC 88.57 49 ePc 35 07.20 2.4
MHC 88.75 52 eP 35 07.10 1.2
PRS 88.81 53 eP 35 07.60 1.6
SAO 88.82 53 eP 35 08.80 2.8
BMW 89.07 43 P 35 07.50 0.4
INK 89.16 21 eP 35 06.00 -1.0
0.9s 37.00nm 5.7mb
pP 35 21.00 51kmX
ORV 89.19 50 eP 35 08.40 0.6
MIN 89.24 49 eP 35 09.80 1.7
PGC 89.31 41 eP 35 08.00 0.0
PRI 89.35 54 eP 35 10.70 2.0
GMW 89.55 42 P 35 10.00 0.7
SYP 89.68 55 eP 35 12.00 1.7
e 35 26.00
CMB 89.84 52 eP 35 11.50 0.6
LON 90.08 43 P 35 12.00 0.2
RMW 90.20 42 P 35 11.50 -0.9
FRI 90.23 53 eP 35 13.30 0.7
ISA 91.05 54 ePc 35 17.09 0.6
PAS 91.11 56 ePc 35 17.43 0.7
epPd 35 29.35 38kmX
MWC 91.22 56 eP 35 18.00 0.5
BONR 91.46 52 P 35 19.00 0.3
SBB 91.46 55 eP 35 19.00 0.5
e 35 33.00
KVN 91.74 51 P 35 20.00 0.2
pP 35 36.00 55kmX
RVR 91.75 56 eP 35 20.00 0.3
e 35 34.00
CLC 91.77 54 eP 35 20.00 0.1
PNT 91.90 41 eP 35 20.00 -0.1
0.6s 14.00nm 5.6mb
PLM 92.11 57 eP 35 23.00 1.4
BAR 92.20 58 eP 35 37.00 15.2X
TNP 92.32 52 P 35 23.00 0.5
0.8s 17.16nm 5.5mb
GSC 92.36 55 eP 35 24.00 1.4
IKP 92.67 58 eP 35 40.00 15.9X
TPC 92.86 56 eP 35 26.00 1.1
e 35 40.00
NEW 93.43 42 P 35 26.00 -1.2
1.0s 18.75nm 5.5mb
pP 35 41.00 51kmX
GLA 93.78 57 eP 35 31.00 1.9
CRZF 94.26 223 eP 35 50.00 19.0X
ePP 39 42.00
eS 48 07.00
eSS 53 09.00
MBC 95.09 14 eP 35 33.50 -0.7
0.7s 33.00nm 5.9mb
pP 35 49.50 55kmX
YKA 95.85 28 eP 35 37.20 -0.7
0.7s 20.10nm 5.7mb
EDM 96.15 37 iPc 35 39.40 -0.2
MSU 96.31 52 P 35 42.00 1.1
LRM 96.44 45 eP 35 40.90 -0.4
SES 97.51 40 eP 35 45.00 -0.8
0.8s 28.00nm 5.8mb
pP 36 00.00 51kmX
MAIO 97.87 306 eP 35 48.00 0.3
e 39 11.00
eSn 47 36.00
BW06 98.44 48 P 35 49.70 -0.7
0.8s 5.95nm 5.2mb
pP 36 03.20 45kmX
ALQ 100.81 56 e(Pdif36 02.00 0.7
Z 19s 2.78um 5.8Msz
RSSD 102.43 46 Pdiff 36 08.10 -0.2
0.8s 6.01nm 5.3mb
Z 20s 6.78um 6.2Msz
pP 36 24.00
FFC 102.79 35 ePdiff36 11.00 1.7
0.7s 6.00nm 5.4mb
TAB 108.30 308 ePKP 40 56.00 15.1X
KAF 112.72 336 ePKP 40 46.80 -1.4
0.7s 5.40nm
FVM 113.39 51 PKP 40 48.50 -1.8
NUR 114.26 335 ePKP 40 51.00 -0.3
ELC 114.46 52 PKP 40 50.80 -1.6

14d 19h

			pP	41	05.00	
FRB	114.79	20	ePKP	40	50.00	-2.2
NAI	117.55	265	ePKP	41	01.00	1.7
BFT	117.59	237	ePKP	40	59.00	0.0
NB2	118.93	341	PKP	40	58.70	-1.5
	1.1s		8.50nm			
SLR	119.03	236	iPKPd	41	01.60	-0.1
	0.6s		23.00nm			
			i	41	15.00	
TKL	119.10	53	PKP	40	59.00	-2.3
			pP	41	15.00	
HVD	119.12	230	iPKPc	41	14.00	12.3X
	1.5s		30.00nm			
PRY	119.21	235	ePKP	41	06.50	4.5X
	1.0s		30.00nm			
			i	41	20.00	
VRI	120.34	320	ePKP	41	10.00	6.7X
BUL	120.86	242	iPKPd	41	18.10	12.8X
MLR	120.99	320	ePKP	41	03.50	-1.3
			e	51	08.00	
SCH	121.31	27	ePKP	41	04.00	-0.9
GAC	121.58	39	ePKP	41	05.50	-0.1
	0.6s		10.00nm			
			pP	41	20.50	
CER	122.21	224	iPKPd	41	05.00	-2.3
	0.5s		41.00nm			
SPC	122.60	326	ePKP	41	22.50	14.7X
			e	41	35.80	
RSNY	122.69	40	PKP	41	07.00	-0.9
			pP	41	21.50	
DVD	123.32	84	iPdiff	37	38.50	-3.1X
HBVT	123.71	40	PKP	41	08.50	-1.4
			pP	41	23.30	
KSP	123.73	330	ePKP	41	09.70	0.0
			e	41	24.50	
			e	41	38.50	
POF	123.90	228	iPKPd	41	12.00	1.3
	1.0s		60.00nm			
			i	41	24.00	
LVNJ	124.14	44	PKP	41	10.00	-0.8
			pP	41	24.00	
TBR	124.37	44	PKP	41	11.00	-0.3
SRO	124.43	326	ePKP	41	26.00	14.9X
BNH	124.74	39	PKP	41	12.00	0.1
BRG	124.88	331	iPKP	41	11.40	-0.5
	1.0s		24.00nm			
	Z 18s		1.50um		5.7Msz	
	N 18s		1.00um			
	E 18s		0.50um			
			i	41	25.60	
			i	41	40.40	
			e	42	27.50	
ZST	124.88	327	e(PKP)	41	12.20	0.2
			e	41	25.50	
			e	41	41.20	
VAY	125.01	317	ePKP	41	11.00	-1.4
			i	41	26.00	
CLL	125.04	332	iPKP	41	11.10	-1.1
	0.9s		12.00nm			
	Z 21s		1.50um		5.6Msz	
			i	41	27.00	
PRU	125.14	330	ePKP	41	12.50	0.1
	Z 18s		1.30um		5.6Msz	
	N 18s		0.50um			
	E 18s		0.50um			
			e	41	26.50	
			e	41	53.00	
LWI	125.32	263	iPKPc	41	14.40	0.2
SKO	125.48	318	ePKP	41	12.50	-0.9
			e	41	26.20	
			i	41	28.00	
NNA	125.63	109	ePKP	41	14.00	-0.5
	0.8s		8.21nm			
	Z 20s		0.18um		4.7Msz	
MOX	126.14	332	ePKP	41	28.00	13.6X
	Z 26s		2.10um		5.7MszX	
KHC	126.17	329	ePKP	41	14.50	-0.1
	Z 22s		1.70um		5.7Msz	
	N 22s		0.90um			
	E 22s		0.90um			
			e	41	28.60	
			e	41	43.70	
OHR	126.30	318	ePKP	41	15.20	0.1
	1.0s		50.00nm			
			i	41	27.70	
			i	41	42.30	
PTJ	126.84	325	ePKP	41	15.90	-0.1

GRF	126.97	331	ePKP	41	15.00	-1.0
	Z 22s		1.30um		5.6Msz	
WTS	127.30	336	ePKP	41	15.50	-1.0
VBY	127.47	325	e(PKP)	41	18.00	0.9
LJU	127.56	326	e(PKP)	41	16.50	-0.8
EKA	127.97	344	PKP	41	18.00	0.3
	1.8s		33.50nm			
TRI	128.19	326	ePKP	41	32.40	14.0X
ABH	128.54	333	ePKP	41	32.99	13.9X
ENN	128.59	335	ePKP	41	18.50	-0.5
	1.0s		9.00nm			
			e	41	32.00	
ARE	129.03	117	e(PKP)	41	22.00	0.7
SNF	129.46	336	PKP	41	34.90	14.2X
WIN	129.57	234	ePKP	41	21.50	-0.5
DOU	129.65	335	PKP	41	35.00	13.9X
CNCB	131.97	119	ePKP	41	19.00	-8.2X
			i	41	27.00	
LPB	131.99	119	(PKP)	41	19.00	-8.0X
			e	41	27.00	
			LR	24	28.00	
SSF	132.44	333	ePKP	41	11.50	-15.0X
	1.1s		7.35nm			
FLN	132.72	338	ePKP	41	25.90	-1.1
	1.6s		49.75nm			
GRR	133.17	338	ePKP	41	26.90	-0.9
	1.0s		16.00nm			
LPF	133.54	338	ePKP	41	27.90	-0.6
	1.2s		26.80nm			
MFF	134.35	336	ePKP	41	29.40	-0.7
SDV	135.01	84	ePKP	41	20.30	-12.3X
TOV	135.83	82	ePKP	41	33.00	-1.0
BCAO	136.32	270	iPKPd	41	19.10	-15.8X
	0.5s		14.00nm			
			id	41	34.10	
			ic	41	48.90	
SIV	138.25	122	PKP	41	26.60	-11.8X
ETOR	139.81	332	ePKP	41	34.50	-6.1X
GUD	140.89	334	e(PKP)	41	36.50	-6.2X
TOL	141.47	333	ePKP	41	40.00	-3.6X
			iPP	44	50.00	
EVIA	141.74	331	ePKP	41	39.20	-5.0X
SEG	143.17	71	ePKP	41	47.00	-0.1
BBL	143.36	72	ePKP	41	42.00	-5.5X
MGG	143.44	72	ePKP	41	42.50	-5.0X
DEG	143.61	71	ePKP	41	44.00	-3.9X
EHOR	143.69	333	ePKP	41	44.90	-2.5
VAO	144.01	145	ePKP	41	43.60	-4.9X
MAL	144.18	331	iPKP+	41	44.00	-4.2X
LIJA	144.52	332	ePKP	41	47.00	-2.0
EVAL	144.55	334	ePKP	41	47.80	-1.1
GIBL	144.83	333	ePKP	41	49.00	-0.4
EJIF	144.91	332	ePKP	41	48.80	-0.7
CNIL	145.25	332	ePKP	41	44.00	-6.1X
PLAT	145.31	332	ePKP	41	45.00	-5.3X
BMA	145.80	148	ePKPc	41	50.30	-1.2
			e	41	51.70	
			e	41	58.30	
			i	42	06.80	
			e	42	15.90	
JFO	147.03	148	ePKP	41	57.10	3.6X
			e	42	11.70	
			e	42	21.60	
IFR	147.06	328	iPKPd	41	56.00	2.6
			i	42	11.50	
AVE	148.39	331	iPKP	42	02.00	6.7X
			i	42	14.50	
PDCR	156.81	144	ePKP	42	07.40	-0.4
			e	42	36.10	
			e	42	48.10	
SOB1	158.13	135	ePKP	42	10.40	0.9
			e	42	30.70	
			e	42	44.80	
			e	42	57.30	
KIC	159.56	271	PKP	42	10.84	-0.2
TIC	159.84	272	PKP	42	11.18	-0.2
LIC	159.84	271	PKP	42	11.16	-0.2
LKO	160.21	281	PKP	42	11.42	-0.3
	0.9s		16.00nm			

S.D. = 1.1 on 223 of 267 obs.

FEB 14, 1991 21h 55m 59.73± 1.26s
34.182 N ±11.5km 46.241 E ± 5.4km

DEPTH = 40.9 ± 11.8 km
4.7mb (24 obs.)
WESTERN IRAN (347)

KER	0.74	76	iPc	56	11.50	-2.4
TAB	3.88	1	eP	57	01.00	2.4
GAZ	7.93	295	eP	58	00.00	4.7X
BHL	8.79	271	P	58	08.00	0.6
HRI	8.80	267	eP	58	07.00	-0.4
PRNI	10.26	251	eP	58	18.00	-9.4X
KRA	24.96	317	iPc	01	21.10	0.5
ZST	25.83	312	e(P)	01	30.50	1.7
KSP	27.39	317	eP	01	41.50	-1.6
			e	02	07.00	
KBA	27.87	307	iPd	01	48.20	0.5
	0.7s		5.20nm		4.3mb	
SFI	28.25	300	P	01	53.10	2.3
PGD	28.33	300	P	01	53.60	1.7
NUR	29.84	339	eP	02	08.00	3.0
SBF	31.41	300	iPc	02	19.10	0.0
	0.7s		40.80nm		5.3mb	
LPG	32.06	303	eP	02	25.70	0.6
	0.6s		6.75nm		4.7mb	
BNI	32.06	302	P	02	24.50	-0.4
LPL	32.07	303	eP	02	25.80	0.7
	0.7s		6.60nm		4.6mb	
GKN	33.31	90	P	02	36.38	0.4
	0.4s		23.00nm		5.4mb	
DMN	33.84	90	P	02	41.40	0.7
	0.7s		22.00nm		5.2mb	
KKN	33.92	90	P	02	41.94	0.6
	0.4s		12.00nm		5.2mb	
PKI	34.10	90	P	02	44.06	1.0
	0.5s		18.00nm		5.2mb	
SMF	34.20	304	eP	02	42.50	-0.8
	0.7s		11.00nm		4.9mb	
LOR	34.26	305	eP	02	43.50	-0.3
	0.7s		4.95nm		4.5mb	
GUN	34.37	90	P	02	46.06	0.6
	0.6s		36.00nm		5.5mb	
SSF	34.47	305	iPc	02	45.40	-0.2
	0.8s		7.40nm		4.7mb	
AVF	34.55	304	eP	02	45.40	-0.8
	0.8s		6.05nm		4.6mb	
GBA	34.89	118	Pc	02	46.80	-2.7
	0.5s		1.90nm		4.3mb	
NB2	35.02	331	P	02	47.80	-2.4
	0.7s		2.70nm		4.3mb	
MAF	35.04	303	iPc	02	50.00	-0.5
	0.8s		11.40nm		4.9mb	
SOD	35.13	347	eP	02	50.00	-1.0
TCF	35.29	303	eP	02	52.20	-0.5
	0.9s		8.20nm		4.7mb	
RJF	35.72	302	eP	02	55.40	-0.9
	0.6s		3.60nm		4.5mb	
LFF	36.26	301	eP	03	00.40	-0.4
	0.6s		6.30nm		4.7mb	
MFF	36.93	304	eP	03	05.60	-0.9
LDF	37.06	307	eP	03	06.70	-0.8
FLN	37.31	307	eP	03	09.10	-0.5
	1.6s		49.75nm		5.2mb	
GRR	37.53	307	eP	03	10.40	-1.0
	0.8s		13.45nm		4.9mb	
LPF	37.62	306	eP	03	11.40	-0.8
LSA	38.14	84	eP	03	19.60	2.3
BCAO	39.22	227	iPd	03	28.10	2.2
	0.5s		5.00nm		4.6mb	
EKA	39.90	317	Pd	03	30.50	-0.6
	0.6s		6.80nm		4.6mb	
CD2	48.05	77	eP	04	37.40	0.3
CHG	49.07	94	eP	04	45.10	0.0
XAN	51.13	71	P	05	00.60	-0.1
TIY	52.70	66	eP	05	12.50	0.0
	Z 16s		0.50um		4.7MszX	
FBA	80.63	6	P	08	09.00	-0.2
YKA	82.43	351	eP	08	16.70	-1.9
	0.6s		0.60nm		3.8mb	

S.D. = 1.3 on 45 of 47 obs.

& FEB 14, 1991 21h 59m 22.00s
29.700 N 113.800 W
DEPTH = 10.0km (geophysicist)
GULF OF CALIFORNIA (49)
<SPEC>. Held to mainshock location.

ECBX	2.07	329	eP	00	02.40	5.2

GLA	3.46	346	eP	00 19.00	2.0
IKP	3.54	327	eP	00 28.00	9.7
BAR	3.86	321	eP	00 23.00	0.3
PLM	4.48	325	eP	00 34.00	2.3
TPC	4.79	337	eP	00 54.00	18.0
PEC	5.06	326	e(P)	00 53.50	13.7
RVR	5.25	326	eP	00 56.00	13.6
GSC	6.13	336	eP	01 20.00	25.1
CLC	6.89	333	eP	01 35.00	29.5
ALQ	8.12	48	eP	01 19.00	-3.9
ANMO	8.12	48	eP	01 17.00	-5.9
MSU	8.89	8	eP	01 34.20	0.5
LRM	16.13	3	eP	03 10.50	-0.1
SES	20.78	5	eP	04 05.00	-0.6

15 obs. associated

& FEB 14, 1991 22h 11m 23.00s
29.700 N 113.800 W
DEPTH = 10.0km (geophysicist)
GULF OF CALIFORNIA (49)
<SPEC>. Held to mainshock location.

GLA	3.46	346	eP	12 23.00	5.0
IKP	3.54	327	eP	12 34.00	14.7
BAR	3.86	321	eP	12 24.00	0.3
PLM	4.48	325	eP	12 33.50	0.8
SBB	6.03	327	eP	13 05.00	10.5
ALQ	8.12	48	eP	13 20.00	-3.9
ANMO	8.12	48	eP	13 20.30	-3.6
MSU	8.89	8	eP	13 42.40	7.7
PV09	9.59	23	e(P)	13 40.00	-4.4
SES	20.78	5	eP	16 09.00	2.4

10 obs. associated

& FEB 14, 1991 22h 53m 48.00s
29.700 N 113.800 W
DEPTH = 10.0km (geophysicist)
GULF OF CALIFORNIA (49)
<SPEC>. ML 3.6 (GS). Held to moinshack location.

GLA	3.46	346	eP	54 46.80	3.8
IKP	3.54	327	eP	54 55.00	10.7
BAR	3.86	321	eP	54 51.00	2.3
PLM	4.48	325	eP	55 04.50	6.8
TPC	4.79	337	eP	55 19.00	17.0
PEC	5.06	326	e(P)	55 22.60	16.8
GSC	6.13	336	eP	55 47.00	26.1
ALQ	8.12	48	eP	55 45.00	-3.9
ANMO	8.12	48	eP	55 45.70	-3.2
MSU	8.89	8	eP	56 05.00	5.3
PV09	9.59	23	P	56 09.00	-0.4
SES	20.78	5	eP	58 32.00	0.4

12 obs. associated

FEB 14, 1991 23h 31m 23.00± 0.37s
22.336 S ± 7.7km 112.578 W ± 7.9km
DEPTH = 10.0km (geophysicist)
5.5mb (15 obs.) 5.9Msz (16 obs.)
EASTER ISLAND REGION (685)
Ms 6.0 (BRK). Mo=3.0*10**18 Nm (PPT).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 19S, 42C
Centroid Location:
Origin Time 23:31:33.0 0.3
Lat 22.62S 0.02 Lon 113.04W 0.02
Dep 15.0 FIX Half-durotion 3.8
Moment Tensor; Scale 10**18 Nm
Mrr=-0.17 0.02 Mtt=-1.11 0.02
Mff= 1.28 0.03 Mrt= 0.00 0.00
Mrf= 0.00 0.00 Mtf= 0.29 0.02
Principal Axes:

	Val=	Plg=	Azm=
T	1.32	0	97
N	-0.17	90	180
P	-1.15	0	7

Best Double Couple:Mo=1.2*10**18
NP1:Strike=142 Dip=90 Slip=-180
NP2: 232 90 0

RUV	33.66	276	eP	38 02.00	-4.2X
	1.2s	40.00nm		5.2mb	
PAE	35.02	271	eP	38 18.00	0.0
	1.2s	80.00nm		5.5mb	
PT10	35.43	79	eP	38 23.00	1.5
NNA	35.58	79	iP	38 24.50	1.7
	1.2s	53.13nm		5.3mb	
	Z 20s	6.74um		5.4Msz	
TACH	38.23	116	eP	38 44.00	-0.9
ANT	38.73	100	eP	38 51.00	1.8
FCH	38.73	116	eP	38 49.50	-0.1
ARE	39.10	89	eP	38 55.00	2.2
PSO	41.57	60	eP	39 17.00	3.7X
LP8	42.23	90	eP	39 16.00	-2.7
	Z 23s	21.21um		6.0MszX	
		S	45	48.00	
		LR	51	42.00	
CNCB	42.26	91	ePc	39 17.00	-2.1
		i	39	21.00	
		S	45	48.00	
III	42.44	19	(P)	39 23.50	3.4X
MRX	43.24	16	(P)	39 30.00	3.8X
PPM	43.35	19	(P)	39 32.00	4.2X
IISM	43.68	21	(P)	39 33.50	3.7X
UPA	44.92	50	eP-	39 40.00	0.0
BOG	46.22	59	eP	39 54.00	3.2X
		iS	46	50.00	
SIV	48.87	92	Pd	40 10.40	-0.8
LPA	49.04	117	eP+	40 12.00	-0.2
	Z 20s	12.77um		5.9Msz	
		eS	47	18.00	
		eScS	50	08.00	
SDV	51.50	58	eP	40 32.50	1.1
TOV	52.70	57	eP	40 40.80	0.4
IKP	54.78	356	eP	40 55.00	-0.3
BAR	54.84	356	eP	40 56.00	0.3
GLA	55.12	358	eP	40 59.00	1.3
PLM	55.53	356	eP	41 02.00	1.1
RVR	56.20	355	eP	41 05.00	-0.4
TPC	56.22	357	eP	41 05.00	-0.7
PPD	56.36	102	eP	41 04.30	-2.7
PAS	56.42	354	eP	41 08.00	0.9
MWC	56.49	355	eP	41 08.00	0.2
SBB	56.93	355	eP	41 10.00	-0.8
ABL	57.22	354	P	41 12.80	-0.2
ALQ	57.26	6	eP	41 12.00	-1.3
	1.2s	28.13nm		5.2mb	
	Z 18s	13.64um		6.1Msz	
ANMO	57.26	6	P	41 12.40	-0.9
	1.1s	79.11nm		5.7mb	
	Z 20s	12.77um		6.0Msz	
GSC	57.46	356	eP	41 16.00	1.5
BCH	57.65	353	P	41 15.00	-0.9
ISA	57.95	354	eP	41 19.00	1.1
CLC	58.03	355	eP	41 19.00	0.6
PRI	58.66	352	eP	41 22.50	-0.4
PRS	58.94	352	eP	41 26.00	1.3
LLA	59.16	352	eP	41 26.90	0.6
FRI	59.39	353	eP	41 26.00	-1.8
ARN	59.96	352	P	41 31.60	-0.2
MHC	59.97	352	eP	41 31.50	-0.5
VAO	60.06	104	eP	41 31.10	-1.8
		e	41	33.20	
		e	41	43.80	
BONR	60.21	355	P	41 33.30	-0.5
TNP	60.25	356	P	41 33.20	-0.8
	1.2s	56.45nm		5.6mb	
CMB	60.49	353	eP	41 34.80	-0.7
MSU	60.53	0	P	41 36.20	0.3
BKS	60.57	351	e(P)	41 36.00	0.0
	1.0s	43.00nm		5.5mb	
	Z 20s	10.00um		6.0Msz	
	N 20s	10.00um			
		eS	49	56.00	
		e	50	00.00	
		eSS	53	52.00	
		eLQ	56	45.00	
		e	57	50.00	
		eLR	59	20.00	
OLY	60.90	20	P	41 38.00	-0.2
BAO	61.05	96	eP	41 39.00	-0.9
KVN	61.28	355	P	41 40.00	-1.0
PWLA	61.57	23	P	41 43.60	0.8
GOL	62.08	6	P	41 46.00	-0.5
	Z 19s	22.64um		6.4Msz	
ORV	62.13	352	eP	41 46.80	0.3
GLD	62.14	6	P	41 46.00	-0.8
	Z 20s	15.00um		6.2Msz	
DUG	62.21	360	P	41 46.00	-1.1
DAU	62.43	1	P	41 47.90	-1.0
BMA	62.65	105	eP	41 56.70	6.3X
ELC	63.25	21	P	41 53.60	-0.3
WDC	63.27	352	eP	41 52.30	-1.7
FVM	63.51	19	P	41 54.90	-0.7
JFO	63.64	104	eP	41 59.20	2.2
LBFM	63.94	352	P	41 58.30	-0.4
LHS	64.06	29	P	41 55.30	-4.0X
BW06	64.85	2	P	42 02.00	-2.6
	0.9s	24.01nm		5.4mb	
RSSD	66.59	7	P	42 14.20	-1.5
	Z 20s	23.73um		6.4Msz	
SPA	67.80	180	iPd	42 20.20	-3.0
	1.0s	25.00nm		5.4mb	
LRM	67.83	0	eP	42 23.90	0.4
SOB1	69.67	92	eP	42 35.80	0.4
CLE	69.72	24	iP	42 36.40	1.4
PDCR	70.19	96	eP	42 37.90	-0.6
NEW	70.39	357	P	42 39.10	0.1
	1.1s	63.27nm		5.7mb	
PGC	71.33	352	eP	42 46.00	1.4
PNT	71.60	355	eP	42 48.00	1.7
SES	72.42	1	ePd	42 51.50	0.4
	1.9s	209.00nm		5.9mb	
		pP		43 03.00	38kmX
RSNY	75.10	27	P	43 08.30	1.5
	1.1s	62.11nm		5.6mb	
	Z 20s	2.03um		5.4Msz	
EDM	75.24	360	ePc	43 08.00	0.5
HBVT	75.58	28	P	43 10.40	0.8
YKA	84.55	359	eP	43 55.20	-1.8
	1.3s	20.00nm		5.2mb	
PDB	88.62	340	P	44 16.40	-0.7
PMR	88.63	343	P	44 16.60	-0.5
	1.2s	60.61nm		5.8mb	
	Z 20s	1.50um		5.4Msz	
FBA	91.09	346	P	44 28.60	0.0
	1.2s	26.52nm		5.4mb	
INK	91.68	352	eP	44 31.00	-0.1
FRB	92.43	18	eP	44 34.00	-0.7
CN2	128.00	309	ePKP	50 33.00	2.2
GRF	128.45	44	ePKP	50 30.70	-0.9
	Z 20s	1.80um		5.8Msz	
		e	50	42.00	
CLL	129.22	41	ePKP	50 34.00	1.1
		i	50	47.90	
BCAO	129.50	103	iPKPd	50 42.30	7.7X
	1.0s	20.00nm			
		id	50	49.80	
		ic	52	51.10	
BRG	129.90	42	ePKP	50 35.80	1.6
	1.3s	23.00nm			
	Z 18s	2.00um		5.9Msz	
		e	50	46.40	
		e	53	17.40	
KHC	130.07	44	ePKP	50 37.00	2.3
	Z 18s	1.00um		5.6Msz	
	N 18s	0.50um			
	E 18s	0.70um			
		e	50	46.80	
PRU	130.48	43	ePKP	50 46.50	11.1X
	Z 20s	1.40um		5.7Msz	
	N 20s	0.90um			
	E 20s	0.30um			
		e	10	18.00	
KSP	131.34	41	ePKP	50 27.00	-10.0X
PTJ	132.32	48	ePKP	50 40.50	1.4
ZST	132.56	44	e(PKP)	50 48.00	8.6X
KRA	133.80	41	ePKP	50 44.10	2.4
		e	50	51.30	
SPC	134.27	42	ePKP	50 52.50	9.6X
BJI	135.30	305	PKP	50 48.10	3.3X
	Z 23s	3.10um		6.0MszX	
TIY	138.53	302	PKP	50 51.70	0.6
	Z 20s	3.50um		6.1Msz	
	N 20s	3.50um			
MLR	139.16	45	ePKP	51 03.00	10.9X
BTQ	139.81	307	ePKP	50 55.00	1.6
CFR	140.72	45	ePKP	50 58.00	3.3X
XAN	141.85	297	PKPd	50 55.00	-2.2
	E 17s	3.10um			
KHL	143.90	55	ePKP	50 49.00	-11.6X
GYA	144.12	285	PKP	51 01.00	-0.4
BCK	144.94	56	iPKP	51 01.10	-1.3
LZH	145.59	302	ePKP	51 00.00	-3.7X
	Z 22s	3.54um		6.1Msz	
	E 20s	3.28um			
		sPKP	51	10.00	
BBTK	145.84	51	iPKPc	51 04.50	0.6
CD2	146.53	293	ePKP	51 04.60	-0.6

14d 23h

HLW 146.84 69 (PKP) 51 12.00 6.4X
LOE 147.41 268 ePKP 51 11.00 4.1X
KMI 147.60 282 ePKP 51 07.00 -0.3
Z 30s 2.60um 5.8MszX
GTA 147.63 309 ePKP 51 06.60 -0.2
Z 26s 4.70um 6.2MszX
E 27s 6.10um
CSS 147.70 60 ePKP 51 10.00 3.1X
NST 148.42 264 ePKP 51 14.50 6.0X
RMN 149.61 68 ePKP 51 13.00 2.9X
PRNI 149.94 68 ePKP 51 14.00 3.5X
MML 149.95 64 ePKP 51 16.00 5.5X
CHG 150.31 269 ePKP 51 12.80 1.4
WMQ 152.79 327 PKP 51 15.50 1.1
Z 24s 2.20um 5.9MszX
SHL 157.42 283 ePKP 51 21.50 0.2
LSA 157.48 294 ePKP 51 23.20 1.6
HYB 168.44 247 ePKP 51 24.00 -7.6X
S.D. = 1.2 on 97 of 124 obs.

& FEB 15, 1991 00h 40m 57.00s
29.700 N 113.800 W
DEPTH = 10.0km (geophysicist)
GULF OF CALIFORNIA (49)
<SPEC>. Held to mainshock location.

GLA 3.46 346 eP 41 50.00 -2.0
IKP 3.54 327 eP 42 06.00 12.7
BAR 3.86 321 eP 41 56.00 -1.7
PLM 4.48 325 eP 42 07.00 0.3
TPC 4.79 337 eP 42 18.00 7.0
RVR 5.25 326 eP 42 35.00 17.6
SBB 6.03 327 eP 42 33.00 4.5
GSC 6.13 336 eP 42 52.00 22.1
LRM 16.13 3 eP 44 40.70 -4.9
SES 20.78 5 eP 45 40.00 -0.6
10 obs. associoted

FEB 15, 1991 00h 55m 33.03± 0.24s
4.210 N ± 4.0km 124.235 E ± 5.5km
DEPTH = 31.8km (5 depth phases)
5.5mb (31 obs.) 4.9Msz (13 obs.)
CELEBES SEA (262)

DAV 3.15 25 iPc+ 56 22.00 0.4
TSM 6.15 270 ePc 57 05.40 1.3
0.3s 221.30nm 6.3mb
KKM 8.19 283 iP 57 32.30 -0.5
0.4s 166.60nm 6.5mb
ed 58 56.20
QCP 10.82 343 eP 58 16.00 7.1X
BAG 12.64 344 eP 58 34.00 0.3
KNA 20.33 167 eP 00 08.60 -0.9
0.7s 867.00nm 6.2mb
QIZ 20.36 317 P 00 09.00 -0.8
1.6s 800.00nm 5.8mb
N 14s 1.00um
E 14s 1.90um
PP 00 33.00
S 03 56.00
sS 04 08.00
QZH 21.32 346 Pc 00 20.00 0.5
1.2s 200.00nm 5.4mb
Z 24s 4.00um 4.7MszX
E 24s 4.00um
S 04 14.00
GZH 21.52 332 P 00 22.40 0.8
Z 20s 3.20um 4.7Msz
N 15s 2.50um
E 16s 2.20um
S 04 17.00
iS 04 21.00
PJG 22.39 64 eP 00 36.50 6.2X
KLM 22.57 268 eP 00 34.50 2.4
IPM 23.14 272 ePd 00 38.20 0.4
1.2s 283.20nm 5.6mb
e 00 45.70
SNG 23.68 278 eP 00 43.50 0.6
1.9s 747.37nm 5.9mb
MBL 25.58 190 eP 01 01.50 0.4
0.7s 32.00nm 5.0mb
WB2 25.98 158 iPc 01 02.60 -2.3
eS 05 11.60
NST 26.29 297 eP 01 09.00 1.3
PMG 26.55 121 eP 01 11.00 0.9
SSE 26.90 354 eP 01 18.00 4.9X
Z 20s 3.20um 4.9Msz
N 16s 2.00um
KHT 27.35 294 eP 01 17.00 -0.5
GYA 27.79 325 P 01 22.40 0.9
Z 20s 2.30um 4.8Msz
N 15s 2.20um
E 15s 3.00um
WHN 27.81 341 Pd 01 23.00 1.6
Z 16s 1.30um 4.6MszX
E 14s 1.70um
pP 01 35.00 47kmX
BDT 27.92 300 eP 01 20.80 -1.8
1.0s 124.20nm 5.6mb
NANU 27.94 197 eP 01 24.50 1.8
NJ2 28.15 350 Pd 01 26.00 1.5
Z 20s 1.20um 4.5Msz
pP 01 36.00 36km
CHG 28.65 302 ePd 01 28.90 -0.4
1.2s 80.08nm 5.3mb
QIS 28.87 149 iPc 01 30.00 -1.1
0.5s 21.00nm 5.1mb
ASPA 29.27 162 eP 01 32.00 -2.7
1.1s 38.70nm 5.0mb
Z 22s 1.00um 4.4Msz
eS 06 23.90
KMI 29.31 317 Pc 01 35.50 0.2
2.0s 170.00nm 5.4mb
Z 20s 2.50um 4.8Msz
E 15s 0.70um
pP 01 46.00 38km
S 06 28.00
WARB 30.30 176 eP 01 44.00 0.1
0.6s 75.00nm 5.7mb
MEKA 31.13 190 iPd 01 50.90 -0.3
0.7s 110.00nm 5.8mb
TIA 32.51 349 eP 02 07.20 4.0X
Z 28s 2.20um 4.7MszX
N 17s 1.40um
eS 07 15.00
CD2 32.83 326 eP 02 05.00 -1.0
Z 18s 4.30um 5.2Msz
XAN 32.92 336 P 02 05.50 -1.3
N 14s 1.00um
E 14s 1.00um
pP 02 14.50 31km
MRWA 34.16 193 eP 02 17.00 -0.6
MAT 34.65 20 (P) 02 27.00 5.3X
0.8s 12.69nm 4.9mb
(S) 07 14.00
TIY 35.05 344 Pd 02 25.00 -0.2
Z 22s 1.80um 4.8Msz
N 20s 2.90um
FORR 35.06 174 eP 02 24.50 -0.7
0.4s 65.00nm 5.9mb
KLB 36.13 189 eP 02 33.80 -0.5
BJI 36.40 350 eP 02 36.00 -0.5
1.4s 98.00nm 5.5mb
Z 23s 2.50um 4.9MszX
eS 08 12.00
MUN 36.79 191 eP 02 40.40 0.6
LZH 36.87 332 Pd 02 41.20 0.5
2.0s 180.00nm 5.6mb
Z 19s 2.93um 5.1Msz
N 18s 2.00um
pP 02 50.00 30km
NWAO 37.53 190 eP 02 46.00 0.0
SHL 37.60 308 iP 02 46.00 -1.0
eS 08 35.00
HHC 38.22 344 P 02 52.00 0.1
5.0s 600.00nm 5.7mb X
Z 22s 2.30um 4.9Msz
N 14s 0.40um
E 14s 0.40um
PP 04 28.00
BTO 38.42 342 eP 02 54.00 0.4
N 15s 0.70um
E 15s 1.30um
PP 04 28.00
eS 08 49.00
RMO 38.66 143 ePc 02 55.00 -0.6
LSA 40.27 313 ePd 03 11.20 1.7
Z 22s 3.80um 5.2Msz
S 09 17.00
MDJ 40.52 6 eP 03 10.00 -0.8
CMS 41.03 151 eP 03 15.50 0.4
ADE 41.28 162 eP 03 26.10 8.9X
0.7s 108.22nm 5.7mb
GTA 41.44 331 iPd 03 19.00 0.4
1.2s 40.00nm 5.0mb
Z 18s 3.50um 5.3Msz
E 18s 2.70um
pP 03 26.20 24km
sP 03 30.10
PcS 09 03.40
sS 09 53.00
ScS 13 16.00
GUN 43.44 307 P 03 35.54 0.1
0.8s 233.00nm 6.0mb
COO 43.53 144 eP 03 37.00 1.3
PKI 43.67 306 P 03 36.84 -0.4
1.4s 161.00nm 5.6mb
KKN 43.87 307 P 03 38.52 -0.2
1.4s 226.00nm 5.8mb
DMN 43.93 306 P 03 39.14 -0.1
1.1s 192.00nm 5.8mb
GKN 44.47 306 P 03 43.18 -0.4
0.9s 117.00nm 5.7mb
BFD 44.57 159 eP 03 44.00 0.1
e 05 26.00
CNB 45.85 151 eP 03 56.00 1.7
TOO 46.03 156 eP 03 57.00 1.4
HYB 46.61 290 eP 04 00.00 -0.5
1.0s 50.00nm 5.4mb
KOD 46.74 280 eP 04 02.20 0.3
GBA 47.09 285 P 04 04.20 0.0
DZM 48.85 124 iPc 04 18.90 0.9
NDI 50.78 304 eP 04 31.00 -1.6
WMQ 50.93 326 P 04 33.50 0.0
Z 22s 1.80um 5.0Msz
eS 11 50.00
POO 51.22 290 iPc 04 35.30 -0.8
TAU 51.35 158 eP 04 38.00 1.4
KSH 55.93 316 P 05 12.00 1.3
QUE 59.79 303 eP 05 37.00 -1.1
TAB 77.90 308 eP 07 31.00 1.2
FBA 85.35 25 P 08 13.00 4.9X
HRI 86.46 303 eP 08 14.00 -0.4
MKT 87.08 301 eP 08 17.00 -0.3
RMN 87.55 300 eP 08 19.00 -0.7
KEV 88.59 340 eP 08 28.00 4.2X
SOD B9.07 337 iP 08 27.20 1.1
e 08 41.00
KAF 90.02 332 iP 08 28.90 -1.7
0.7s 4.70nm 4.9mb
INK 90.63 21 eP 08 33.00 -0.3
NUR 91.08 331 eP 08 33.70 -1.8
MBC 92.03 12 eP 08 40.50 0.8
1.0s 8.00nm 5.1mb
MLR 92.83 316 eP 08 43.00 -1.1
KRA 95.91 321 eP 09 05.30 7.3X
e 12 40.50
NB2 97.25 333 P 09 00.80 -3.1X
1.2s 7.70nm 5.1mb
KSP 97.95 322 eP 09 07.50 0.3
BRG 99.36 323 e(P) 09 11.00 -2.6
YKA 100.08 24 ePdiff 09 22.50 6.0X
1.0s 2.30nm 4.7mb
LPG 105.78 320 ePKP 14 09.30 13.7X
1.8s 60.15nm
LPL 105.78 320 ePKP 14 09.30 13.8X
MAF 108.12 322 ePKP 14 10.40 10.8X
TACH 147.47 156 ePKP 15 16.50 3.1X
FCH 148.02 157 ePKP 15 15.50 0.8
ZOBO 162.94 136 PKP 15 43.80 9.2X
1.3s 5.91nm
Z 25s 0.20um 5.7Msz
LR 10 08.00
SIV 167.18 156 PKP 15 47.00 9.4X
S.D. = 1.1 on 77 of 94 obs.

& FEB 15, 1991 00h 55m 41.00s
29.700 N 113.800 W
DEPTH = 10.0km (geophysicist)
GULF OF CALIFORNIA (49)
<SPEC>. Held to moinshock location.

GLA 3.46 346 eP 56 40.00 4.0
IKP 3.54 327 eP 56 49.00 11.7
BAR 3.86 321 eP 56 42.00 0.3
PLM 4.48 325 eP 56 58.00 7.3
TPC 4.79 337 eP 57 05.00 0.0
SBB 6.03 327 eP 57 17.00 4.5
SES 20.78 5 eP 00 24.00 -0.6

7 obs. assaciated

FEB 15, 1991 01h 48m 44.80± 0.43s
44.428 N ± 3.7km 7.306 E ± 4.0km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.1 (LDG), 1.7 (GEN).

PZZ	0.17	298	P	48 49.24	0.6
STV	0.18	176	P	48 48.97	0.0
			S	48 51.12	
ENR	0.22	158	P	48 49.60	0.0
			S	48 52.36	
FOUF	0.39	285	ePgc	48 52.79	0.0
			e(Sg)	48 57.17	
BHB	0.41	356	P	48 53.40	0.1
			S	48 59.21	
ROB	0.43	108	P	48 54.14	0.6
			S	48 59.58	
SBF	0.57	171	Pg	48 56.80	0.3
			Sg	49 03.00	
RRL	0.62	323	P	48 56.65	-0.7
IMI	0.67	141	P	48 57.34	-0.8
FIN	0.68	108	P	48 58.25	-0.1
			S	49 07.27	
FRF	0.99	209	Pg	49 03.20	-0.4
			Sg	49 15.60	
LRG	1.19	215	Pg	49 07.20	0.3
			Sg	49 23.00	

S.D. = 0.5 on 12 of 12 obs.

? FEB 15, 1991 02h 55m 33.49± 3.26s
31.455 S ±40.2km 69.253 W ±59.4km
DEPTH = 110.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTCB	0.39	95	iPd	55 49.90	-0.1
RTCV	0.73	124	ePc	55 52.50	0.1
CFA	0.88	100	ePc	55 53.80	0.0
			eS	56 08.80	
RTRS	1.29	352	iPc	55 58.20	0.0

S.D. = 0.1 on 4 of 4 obs.

FEB 15, 1991 04h 16m 00.24± 0.54s
37.184 N ± 5.6km 22.913 E ± 6.6km
DEPTH = 33.0km (normal)
SOUTHERN GREECE (368)
MD 3.4 (ATH).

VLI	0.46	178	eP	16 11.40	1.1
ITM	0.79	270	eP	16 15.00	0.1
ATH	1.01	39	eP	16 19.00	0.9
			eS	16 33.00	
EVR	1.94	334	eP	16 30.00	-1.6
VAM	2.05	149	eP	16 31.50	-1.6
VLS	2.09	299	eP	16 34.00	0.3
APE	2.09	92	eP	16 34.50	0.8
NEO	2.13	6	eP	16 33.60	-0.7
NPS	2.90	130	eP	16 45.00	-0.2
PLG	3.21	7	eP	16 49.00	-0.6
			eS	17 25.50	
KZN	3.24	344	eP	16 50.00	-0.1
KAP	3.81	114	eP	16 58.00	0.1
OHR	4.25	338	ePn	17 06.00	1.6

S.D. = 1.1 on 13 of 13 obs.

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* FEB 15, 1991 04h 36m 20.34± 1.55s
38.036 N ± 9.3km 20.390 E ±12.1km
DEPTH = 5.0km (geophysicist)
GREECE (364)
MD 3.5 (ATH).

VLS	0.21	48	eP	36 25.00	0.3
EVR	1.42	51	eP	36 46.00	-0.9
ITM	1.49	125	eP	36 48.00	0.2
IGT	1.49	358	ePc	36 48.02	0.2
			eS	37 09.14	
AGG	1.81	57	ePd	36 52.81	0.3
VLI	2.42	122	ePg	37 09.00	7.8X
KZN	2.51	25	eP	37 04.00	1.5
NEO	2.55	59	eP	37 03.00	-0.1
LIT	2.63	38	ePd	37 05.22	1.0
			iS	37 37.78	
FNA	2.85	15	eP	37 06.80	-0.6
OHR	3.09	6	ePn	37 10.30	-0.4
PAIG	3.18	53	ePd	37 11.54	-0.5
GRG	3.31	27	ePc	37 13.98	0.2
KNT	3.67	31	iPc	37 18.54	-0.5
VAY	3.69	26	ePn	37 11.00	-8.2X
SRS	3.95	38	ePc	37 22.12	-0.8
SKO	4.01	11	ePn	37 36.70	12.9X

S.D. = 0.7 on 14 of 17 obs.

? FEB 15, 1991 04h 46m 57.99± 1.40s
38.046 N ±13.3km 20.750 E ±11.7km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 3.0 (ATH).

VLS	0.18	316	eP	47 02.00	-0.1
EVR	1.20	43	eP	47 13.90	-6.6X
IGT	1.52	348	ePc	47 29.24	4.0X
AGG	1.58	51	eP	47 25.60	-0.5
VLI	2.19	127	eP	47 35.00	0.1
LIT	2.46	33	ePd	47 39.24	0.5
FNA	2.78	10	eP	47 50.60	7.2X
KNT	3.53	27	ePd	47 57.16	3.3X

S.D. = 0.7 on 4 of 8 obs.

? FEB 15, 1991 04h 56m 03.02± 3.60s
29.352 N ±34.8km 113.402 W ± 8.7km
DEPTH = 10.0km (geophysicist)
4.4mb (3 obs.)
GULF OF CALIFORNIA (49)

ECBX	2.55	326	eP	56 46.80	1.8
GLA	3.89	342	eP	57 04.00	-0.1
IKP	4.02	325	eP	57 15.00	8.9X
BAR	4.35	321	eP	57 23.00	12.4X
PLM	4.97	324	eP	57 18.30	-1.3
TPC	5.25	335	eP	57 21.00	-2.5
PEC	5.55	326	e(P)	57 31.00	3.3X
RVR	5.73	325	eP	57 44.00	13.7X
MWC	6.27	322	eP	57 51.00	13.0X
SBB	6.51	326	eP	57 43.00	1.7
GSC	6.59	335	eP	58 07.00	24.5X
CLC	7.35	332	eP	57 57.00	3.9X
ABL	7.38	319	eP	57 54.00	0.4
ISA	7.61	327	eP	58 13.00	16.3X
ALQ	8.11	45	eP	58 04.00	0.2
ANMO	8.11	45	eP	58 04.20	0.4
BCH	8.11	318	(P)	58 03.50	-0.3
MSU	9.19	6	eP	58 19.10	0.2
TNP	9.27	341	eP	58 20.50	0.6
PV09	9.79	20	e(P)	58 27.00	-0.1
DUG	10.83	2	(P)	58 44.70	3.4X
GLD	12.36	31	e(P)	59 10.00	7.9X
BW06	13.75	12	eP	59 23.40	2.8X
RSSD	16.52	24	e(P)	00 00.00	3.5X
	1.4s		29.35nm	4.2mb	
NEW	19.10	352	eP	00 28.50	0.1
	1.4s		29.35nm	4.3mb	
PNT	20.50	348	eP	00 46.00	2.3X
SES	21.09	4	ePd	00 49.00	-0.9
	1.0s		40.00nm	4.7mb	
INK	40.76	349	eP	03 45.00	-0.4
MBC	47.05	358	eP	04 41.00	4.9X

S.D. = 1.1 on 15 of 29 obs.

FEB 15, 1991 04h 57m 29.35± 1.09s
37.779 N ± 8.4km 20.949 E ± 9.3km
DEPTH = 25.4 ± 6.0 km
IONIAN SEA (399)
ML 3.5 (ATH).

VLS	0.49	325	eP	57 39.00	-0.4
ITM	0.98	127	eP	57 47.00	-0.4
EVR	1.32	30	eP	57 53.00	0.7
AGG	1.65	41	eP	57 58.40	1.4
IGT	1.82	345	ePd	57 59.70	0.3
			eS	58 21.16	
VLI	1.91	123	eP	58 01.00	0.3
ATH	2.20	84	eP	58 04.00	-0.9
NEO	2.35	49	eP	58 07.00	0.0
KZN	2.60	14	eP	58 09.00	-1.8
LIT	2.61	27	ePd	58 11.20	0.4
			iS	58 43.40	
FNA	3.02	6	eP	58 16.10	-0.5
PAIG	3.02	44	ePd	58 16.32	-0.3
PLG	3.24	36	eP	58 18.60	-1.1
OHR	3.33	358	ePn	58 22.00	1.0
KNT	3.70	23	ePd	58 25.48	-0.8
VAY	3.75	19	ePn	58 26.70	-0.2

S.D. = 0.9 on 16 of 16 obs.

FEB 15, 1991 05h 17m 33.82± 0.52s
42.398 N ± 4.7km 19.825 E ± 4.2km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.6 (TTG).

PVY	0.23	29	iPgc	17 38.27	-0.5
			iSg	17 43.07	
TTG	0.42	275	iPgc	17 41.60	-0.8
			iSg	17 49.99	
IVA	0.48	6	iPgd	17 43.44	-0.1
			iSg	17 51.32	
ULC	0.61	225	iPgc	17 45.75	-0.4
			iSg	17 56.34	
NKY	0.74	304	iPgc	17 49.02	0.7
			iSg	18 01.20	
BDV	0.75	262	iPgc	17 48.19	-0.3
			iSg	18 01.90	
HCY	0.98	273	iPgd	17 52.60	0.1
			iSg	18 09.97	
PLE	0.98	341	iPgd	17 53.00	0.4
			iSg	18 09.15	
BRY	1.07	298	iPgd	17 54.35	0.3
			iSg	18 12.65	
SKO	1.27	109	ePn	17 56.80	-0.7
			iSn	18 15.60	
			iSg	18 16.70	
			Lg	18 19.00	
OHR	1.48	150	ePn	18 01.70	1.2
			eSn	18 22.30	
			Lg	18 29.30	
			LR	18 31.00	

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

? FEB 15, 1991 05h 24m 24.79± 2.91s
23.652 S ±52.7km 114.296 W ±41.3km
DEPTH = 10.0km (geophysicist)
4.6mb (1 obs.)
EASTER ISLAND REGION (685)

CNCB	43.84	90	eP	32 45.00	11.2X
			e	36 11.00	
ZOBO	43.87	89	P	32 34.00	0.0
			LR	46 04.00	
ANMO	58.75	8	P	34 25.50	0.1
TNP	61.47	357	P	34 44.00	0.0
CMB	61.62	355	eP	34 45.00	0.1
GOL	63.57	8	P	34 58.00	-0.1
WDC	64.36	353	eP	35 03.00	0.1
YKA	85.85	360	eP	37 05.10	-0.2
	1.2s		4.90nm	4.6mb	
INK	92.77	353	eP	37 38.00	0.1

S.D. = 0.1 on 8 of 9 obs.

& FEB 15, 1991 07h 09m 22.20s
42.817 N 111.294 W
DEPTH = 2.6km
EASTERN IDAHO (457)
<SLC-P>. ML 3.5 (GS).

BEI	0.79	207	iP	09 37.55	-0.4
			S	09 49.41	
PTI	0.79	274	iP	09 37.64	-0.4
BW06	1.28	91	eP	09 46.00	-0.8
HPI	1.59	305	eP	09 51.80	0.1
LTMT	1.81	341	ePnc	09 54.50	-0.3
MCMT	2.30	331	ePn	10 03.00	1.0
DAU	2.40	179	eP	10 03.40	-0.1
BGMT	2.47	348	ePn	10 05.00	0.6
MEMT	2.80	5	ePn	10 09.90	1.0
DUG	2.86	204	eP	10 08.90	-0.9
LRM	3.12	345	ePn	10 16.70	3.2
HBMT	3.12	343	ePn	10 16.60	3.1
BUT	3.32	345	ePg	10 24.90	8.6
			eSg	11 06.30	
SXM	3.33	1	ePn	10 19.00	2.5
HRY	3.91	355	ePn	10 26.40	1.7
MSU	4.35	189	eP	10 30.20	-0.8
PV09	4.62	158	eP	10 38.00	3.2
RSSD	5.44	74	e(P)	10 48.00	1.5
GOL	5.44	123	eP	10 46.00	-0.5
GLD	5.51	122	e(P)	11 00.00	12.7
KVN	6.38	236	eP	11 00.00	0.3
ALQ	8.72	153	e(P)	12 06.00	33.6

22 obs. associated

15d 07h

* FEB 15, 1991 07h 25m 17.83± 0.54s
2.102 N ± 8.5km 128.170 E ±12.3km
DEPTH = 33.0km (normal)
5.1mb (12 obs.)
HALMAHERA (267)

WB2	22.73	165	iPd	30	19.80	1.5
			eS	34	07.60	
OZH	24.52	339	eP	30	37.00	1.4
	0.7s	30.00nm			5.0mb	
GZH	25.34	327	P	30	44.00	0.6
ASPA	26.21	168	eP	30	51.10	-0.5
	0.9s	7.60nm			4.3mb	
Z	21s	0.20um			3.6Msz	
		eS		35	42.20	
NNT	30.03	292	eP	31	20.20	-6.0X
WHN	31.17	337	Pc	31	37.50	1.4
CHG	33.09	302	ePc	31	53.50	0.4
	1.1s	15.19nm			4.8mb	
XAN	36.51	333	P	32	21.30	-0.9
CD2	36.80	324	P	32	24.70	0.1
TIY	38.28	340	Pc	32	37.40	0.4
BJI	39.30	345	eP	32	44.00	-1.4
	0.6s	13.00nm			4.9mb	
SNY	39.76	355	eP	32	48.90	-0.3
LZH	40.63	329	P	32	57.50	0.9
	2.0s	93.00nm			5.2mb	
SHL	42.00	307	eP	33	08.40	0.4
MDJ	42.35	2	eP	33	14.50	4.0X
GTA	45.22	329	eP	33	33.80	-0.2
	1.0s	10.00nm			4.7mb	
		pP		33	38.00	14kmX
GUN	47.84	307	P	33	55.20	0.1
PKI	48.08	306	P	33	56.80	-0.1
	0.6s	12.00nm			5.1mb	
KKN	48.27	306	P	33	57.80	-0.5
	0.6s	28.00nm			5.5mb	
DMN	48.34	306	P	33	59.20	0.3
	0.6s	22.00nm			5.4mb	
GKN	48.88	306	P	34	03.00	0.1
	0.6s	16.00nm			5.2mb	
KOD	50.99	281	eP	34	19.90	0.5
HYB	51.02	291	ePd	34	19.50	0.2
	1.0s	40.00nm			5.3mb	
		e		34	36.00	
GBA	51.43	286	P	34	20.00	-2.3
WMQ	54.87	325	P	34	48.00	0.4
NDI	55.21	304	iPc	34	49.30	-0.9
	0.5s	24.65nm			5.5mb	
INK	91.14	22	eP	38	19.00	-1.3
YKA	100.37	25	ePdiff	39	02.30	-0.1
	0.6s	0.30nm			4.0mb	X
S.D. = 0.9 on 26 of 28 obs.						

& FEB 15, 1991 07h 35m 55.96s
59.311 N 153.245 W
DEPTH = 88.2km
2.7mb (1 obs.)
SOUTHERN ALASKA (2)
<AEIC>.

AUE	0.08	307	iP	36	08.14	1.1
AUI	0.10	285	iP	36	08.05	1.0
			eS	36	16.79	
AUH	0.11	298	iP	36	08.34	1.1
CDD	0.43	208	iP	36	09.54	-0.7
			eS	36	19.55	
MCNL	0.57	258	iP	36	10.61	-0.8
			iS	36	21.82	
PDB	0.68	315	iP	36	11.46	-0.9
XLV	0.79	79	iP	36	12.72	-0.8
			eS	36	26.02	
SYI	0.83	147	iP	36	13.12	-0.8
			iS	36	26.23	
HOM	0.89	66	eP	36	13.45	-1.1
			eS	36	27.93	
CNPM	1.05	77	iP	36	15.48	-1.0
			eS	36	30.32	
RED	1.14	12	iP	36	16.53	-1.0
			eS	36	32.60	
RSO	1.18	12	iP	36	17.31	-0.9
			eS	36	33.61	
RS2	1.18	12	iP	36	17.37	-0.9
			iS	36	33.45	
REF	1.21	13	iP	36	17.66	-0.9
			eS	36	34.49	
NNL	1.23	53	eP	36	18.81	0.2
RDN	1.23	11	iP	36	17.88	-0.9
			eS	36	34.11	
NCT	1.26	7	iP	36	18.13	-1.0
			eS	36	35.20	
BRLK	1.29	68	eP	36	18.20	-1.1
			eS	36	35.52	
RDT	1.34	18	iP	36	18.80	-1.2
NKA	1.75	34	eP	36	25.92	0.6
SLKM	1.94	50	eP	36	26.39	-1.5
CKL	1.95	13	iP	36	27.04	-1.0
SPU	1.97	17	iP	36	27.17	-1.1
BGL	2.00	12	iP	36	27.99	-0.8
CRP	2.04	15	eP	36	28.45	-0.8
SEW	2.08	66	eP	36	28.50	-1.2
			eS	36	52.30	
SVW	2.16	328	eP	36	29.44	-1.4
NCG	2.17	14	iP	36	30.07	-1.0
SUA	2.49	29	eP	36	34.29	-1.1
			eS	37	04.54	
PMS	2.67	42	eP	36	36.34	-1.5
			eS	37	07.88	
SKT	2.81	17	eP	36	38.13	-1.5
PWA	2.88	34	eP	36	39.40	-1.2
MTU	2.92	74	eP	36	39.47	-1.7
KNIM	2.97	67	eP	36	39.12	-2.8
PLRM	3.06	40	eP	36	40.71	-2.4
PMR	3.06	40	eP	36	40.70	-2.4
KNK	3.18	46	eP	36	42.43	-2.3
			eS	37	17.44	
GHO	3.26	39	eP	36	43.84	-2.2
			eS	37	20.25	
CUT	3.43	24	eP	36	46.63	-1.5
GLI	3.46	60	eP	36	45.11	-3.5
			iS	37	22.44	
VZW	3.77	59	eP	36	49.96	-3.1
TTA	3.87	341	eP	36	52.70	-1.7
VLZ	3.90	59	eP	36	51.77	-2.9
HUR	4.07	24	eP	36	55.98	-1.2
KLU	4.24	56	eP	36	56.59	-3.0
TRF	4.39	18	eP	37	00.45	-1.3
TOA	4.46	48	eP	37	00.50	-2.1
RND	4.62	25	eP	37	02.40	-2.4
TZL	4.72	51	eP	37	04.82	-1.3
MCK	4.89	23	eP	37	06.69	-1.8
SDG	4.95	46	eP	37	07.79	-1.6
GLB	5.15	61	eP	37	08.72	-3.4
BWN	5.20	19	eP	37	10.54	-2.2
PAX	5.26	42	eP	37	11.52	-2.2
TGL	5.42	70	eP	37	13.19	-2.8
BALM	5.71	68	eP	37	17.29	-2.7
WRH	5.72	23	eP	37	17.08	-2.9
YAH	5.89	75	eP	37	20.09	-2.6
HDA	5.91	28	eP	37	19.79	-2.9
CCB	5.93	23	eP	37	19.42	-3.5
RDS	6.03	21	eP	37	21.37	-2.9
MDM	6.13	20	eP	37	22.65	-3.1
FBA	6.16	22	P	37	22.50	-3.6
CTGM	6.18	69	eP	37	24.69	-1.8
GLM	6.32	23	eP	37	24.88	-3.5
IMA	6.79	359	eP	37	32.80	-2.0
YKA	18.86	64	eP	40	07.90	-3.5
	0.4s	0.20nm			2.7mb	
67 obs. associated						

? FEB 15, 1991 08h 04m 26.16± 0.82s
28.559 S ±34.9km 178.287 W ±11.2km
DEPTH = 189.8 ± 13.1 km
4.8mb (3 obs.)
KERMADEC ISLANDS REGION (177)

RAO	0.76	155	P	04	53.50	-0.1
			S	05	20.20	
ASPA	42.99	265	eP	12	09.10	0.7
	1.4s	5.70nm			3.9mb	
WB2	43.79	270	eP	12	14.80	-0.1
MAT	76.59	325	eP	15	56.00	-1.1
SYP	83.50	45	eP	16	34.00	0.1
PRS	83.85	43	eP	16	35.80	0.4
SAO	84.09	43	eP	16	36.50	-0.1
PRI	84.14	43	eP	16	37.70	0.6
BRK	84.36	41	eP	16	38.30	0.4
MHC	84.36	42	eP	16	38.30	0.2
BKS	84.38	41	iPd	16	38.30	0.3
	0.8s	25.00nm			5.0mb	
MWC	84.51	46	eP	16	39.00	0.0
PLM	84.73	48	eP	16	40.00	-0.1
SBB	84.95	46	eP	16	41.00	-0.1
ISA	85.17	45	eP	16	43.00	0.8
FRI	85.28	43	eP	16	42.50	0.0
CMB	85.57	42	eP	16	43.80	-0.2
TPC	85.72	47	eP	16	45.00	0.1
CLC	85.82	45	eP	16	45.00	-0.3
GLA	85.87	49	eP	16	46.00	0.3
GSC	85.99	46	eP	16	46.00	-0.2
WDC	86.05	39	eP	16	46.40	0.1
TNP	87.49	44	P	16	53.00	-0.6
BJI	91.44	316	eP	17	12.50	0.9
	1.0s	14.00nm			5.0mb	
ANMO	92.63	51	P	17	17.00	-0.5
KAF	142.73	341	ePKP	23	32.50	-5.1X
NUR	144.50	341	ePKP	23	38.50	-2.1
UPP	146.88	345	iPKP	23	44.60	0.1
NB2	146.90	352	PKP	23	45.40	0.7
	0.5s	7.60nm				
HRI	150.51	288	iPKPd	23	58.20	7.0X
MML	150.78	286	iPKPd	23	59.10	7.5X
BCAO	151.17	217	iPKPc	24	02.90	10.3X
	0.2s	12.00nm				
			ic	24	12.30	
RMN	151.35	282	iPKPd	24	00.00	7.4X
CLL	155.74	343	ePKP	24	04.00	6.2X
	1.5s	15.00nm				
			e	24	24.00	
S.D. = 0.6 on 28 of 34 obs.						

? FEB 15, 1991 08h 16m 49.03± 0.95s
31.437 S ±21.9km 68.566 W ±33.5km
DEPTH = 90.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTCB	0.21	256	iPd	17	02.80	0.2
			S	17	11.60	
CFA	0.33	121	ePc	17	02.90	0.1
			eS	17	14.80	
RTCV	0.42	177	iPc	17	03.30	-0.2
RTRS	1.48	328	iPc	17	14.80	-0.1
			iS	17	35.60	
S.D. = 0.3 on 4 of 4 obs.						

FEB 15, 1991 09h 07m 24.71± 0.57s
43.401 N ± 4.6km 5.454 E ± 4.2km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
MD 2.6 (STR).

GELF	0.03	228	Pg	07	26.50	-0.2
BERF	0.19	117	Pg	07	29.66	0.6
PUYF	0.22	54	Pg	07	29.21	-0.3
TREF	0.23	347	Pg	07	29.81	0.2
PRAF	0.45	333	Pg	07	34.24	0.3
TAVF	0.49	64	Pg	07	34.62	0.0
VILF	0.49	23	Pg	07	34.08	-0.6
CALN	1.10	71	Pg	07	45.83	0.4
TOUF	1.44	64	Pn	07	50.86	-0.1
			Sg	08	12.05	
AURF	1.44	70	Pn	07	50.93	-0.1
SBF	1.51	72	Pn	07	52.01	0.1
AUTN	1.55	67	Pn	07	53.33	0.7
			Sg	08	15.15	
SAOF	1.63	68	Pn	07	53.57	0.0
PGF	2.74	107	Pn	08	08.65	-0.9
S.D. = 0.5 on 14 of 14 obs.						

FEB 15, 1991 10h 12m 17.28± 0.45s
44.269 N ± 3.2km 7.459 E ± 3.5km
DEPTH = 5.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.9 (GEN).

ENR	0.05	213	P	12	18.46	-0.4
			S	12	19.69	
STV	0.10	256	P	12	19.17	-0.4
			S	12	21.43	
AUTN	0.27	185	Pg	12	23.08	0.2
			Sg	12	27.53	
SAOF	0.29	166	Pg	12	23.21	0.0
			Sg	12	28.11	
ROB	0.30	85	P	12	23.68	0.4
			S	12	28.50	
TOUF	0.30	211	Pg	12	23.78	0.5
			Sg	12	28.22	
PZZ	0.35	313	P	12	24.81	0.5
			S	12	29.84	
AURF	0.39	194	Pg	12	25.42	0.2

			Sg	12	31.47	
SBF	0.41	182	Pg	12	25.42	0.0
			Sg	12	32.16	
IMI	0.47	139	P	12	26.04	-0.8
			S	12	32.20	
FIN	0.54	96	P	12	28.30	0.2
			S	12	35.99	
BHB	0.59	346	P	12	28.61	-0.5
			S	12	36.91	

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

FEB 15, 1991 10h 17m 05.66± 0.63s
41.047 N ± 5.6km 22.462 E ± 5.5km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.9 (SKO).

GRG	0.10	207	ePd	17	08.34	-0.1
			eS	17	10.30	
VAY	0.29	17	iPg	17	11.50	-0.1
			iSg	17	15.60	
KNT	0.35	71	ePd	17	13.22	0.3
			eS	17	18.70	
THE	0.56	137	ePd	17	16.50	-0.6
			eS	17	24.98	
SRS	0.86	85	ePd	17	22.14	0.0
			eS	17	34.58	
LIT	0.95	179	ePc	17	24.18	0.5
OHR	1.26	273	ePg	17	29.00	-0.1
			eSg	17	45.00	

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

FEB 15, 1991 10h 37m 23.58± 0.44s
19.140 S ± 8.0km 63.909 W ± 7.2km
DEPTH = 608.6 ± 6.9 km
4.4mb (6 obs.)
SOUTHERN BOLIVIA (125)

CCH	2.75	309	P	38	42.20	-0.7
SIV	4.14	41	iPc	38	52.00	0.9
CNCB	4.52	300	iPc	38	54.70	0.2
			S	40	07.00	
LPB	4.76	302	P	38	54.40	-1.7
	0.6s	113.33nm				
			S	40	07.00	
ZOBO	4.93	305	iPc	38	56.50	-1.1
	0.5s	57.14nm				
			S	40	10.00	
ARE	7.70	289	iPd	39	21.00	-0.2
			iS	40	55.00	
NNA	14.34	298	iPd	40	26.50	1.3
	0.6s	16.67nm			4.5mb	
			eS	42	57.00	
PT10	14.40	297	e(P)	40	27.00	1.3
ROCH	15.17	203	eP	40	32.50	-0.8
FCH	15.24	201	iPc	40	36.50	2.4
BAO	15.59	80	ePd	40	38.50	1.2
TACH	15.76	202	eP	40	37.70	-1.0
VAO	16.27	107	eP	40	43.50	-0.3
			e	40	44.40	
BMA	18.79	104	eP	41	07.90	0.5
SOB1	24.37	69	iPd	42	00.20	2.4
			i	48	00.70	
PDCR	24.72	78	eP	42	00.60	-0.2
SDV	28.63	346	eP	42	34.30	-0.8
OLLA	29.11	354	eP	42	39.10	0.0
MORO	30.14	351	eP	42	47.50	-0.3
MGP	37.05	355	P	43	44.40	-0.6
PORP	37.06	356	P	43	45.00	-0.2
LPR	37.26	357	P	43	46.10	-0.8
LIC	63.21	72	P	46	55.18	-0.8
	0.2s	2.50nm			4.3mb	
TIC	63.40	72	P	46	56.36	-0.8
KIC	63.53	72	P	46	57.38	-0.6
	0.3s	5.50nm			4.5mb	
LKO	64.15	69	P	47	01.46	-0.4
	0.3s	8.00nm			4.6mb	
GAC	65.38	351	ePd	47	10.40	1.5
ALQ	67.27	323	eP	47	22.00	1.0
	1.0s	2.50nm			3.7mb	
ANMO	67.27	323	P	47	22.20	1.2
SCH	73.70	358	eP	47	58.00	0.2
TNP	75.78	319	P	48	11.10	1.1
FRB	82.69	358	eP	48	44.00	-1.0
YKA	90.61	339	eP	49	22.70	0.1
	0.4s	1.80nm			4.4mb	
GBA	142.56	92	PKP	55	48.00	-2.6
HYB	144.36	87	ePKPc	55	53.00	-0.7
GKN	149.92	67	PKP	56	08.22	5.8X
	0.5s	31.00nm				
DMN	150.40	68	PKP	56	09.20	5.9X
KKN	150.52	67	PKP	56	09.98	6.6X
	0.5s	41.00nm				
PKI	150.67	68	PKP	56	10.08	6.3X
	0.6s	12.00nm				
GUN	151.02	67	PKP	56	11.42	7.1X
	0.5s	43.00nm				

S.D. = 1.2 on 35 of 40 obs.

FEB 15, 1991 10h 48m 11.52± 0.46s
42.097 S ± 5.4km 171.654 E ± 4.0km
DEPTH = 31.1 ± 3.6 km
5.5mb (18 obs.) 5.2Msz (9 obs.)
SOUTH ISLAND, NEW ZEALAND (162)
ML 5.8 (WEL). Felt at Greymouth, Hokitika and Wellington.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 27C
Centroid Location:
Origin Time 10:48:13.6 0.4
Lat 41.90S 0.08 Lon 171.43E 0.10
Dep 15.0 BDY Half-duration 2.0
Moment Tensor: Scale 10**17 Nm
Mrr= 0.95 0.08 Mtt= 0.11 0.10
Mff=-1.06 0.09 Mrt= 0.24 0.24
Mrf= 0.37 0.26 Mtf=-1.35 0.08
Principal Axes:

	Val=	Plg=	Azm=
T	1.02	82	303
N	0.99	0	213
P	-2.01	8	123

Best Double Couple:Mo=1.5*10**17
NP1:Strike=213 Dip=37 Slip= 90
NP2: 33 53 90

LTZ	0.82	147	Pd	48	28.00	1.1
			S	48	39.90	
RTY	0.93	72	Pd	48	29.00	0.6
THZ	0.99	71	Pd	48	29.60	0.3
			S	48	43.20	
KHZ	1.44	104	Pc	48	37.40	1.8
			S	48	57.40	
MOZ	1.77	156	Pc	48	40.90	0.5
CCW	1.94	81	P	48	45.00	2.0
TCW	2.15	67	P	48	46.70	0.8
MRW	2.44	70	P	48	51.00	0.9
WEL	2.47	72	P	48	51.50	1.0
TMP	2.48	206	P	48	50.10	-0.6
WDW	2.63	73	Pc	48	53.10	0.3
KIW	2.74	64	P	48	55.40	1.1
CAW	2.74	70	P	48	54.80	0.5
MOW	2.77	77	Pc	48	54.60	-0.2
BLW	2.95	77	P	48	56.70	-0.6
MTW	3.03	73	P	48	57.70	-0.8
MNG	3.24	64	P	49	01.00	-0.4
NEZ	3.38	34	P	49	04.00	0.6
MHZ	3.43	209	P	49	03.00	-1.2
MMCZ	3.44	211	P	49	03.20	-1.1
TLC	3.62	210	Pc	49	05.60	-1.3
MSZ	3.75	225	P	49	07.50	-1.0
PGZ	3.78	69	Pc	49	07.20	-1.8
CNZ	4.14	47	P	49	14.20	-0.1
NGZ	4.19	47	eP	49	13.80	-1.1
KETZ	4.27	47	eP	49	15.70	-0.4
RATZ	4.50	46	P	49	19.30	-0.1
HITZ	4.62	44	P	49	20.90	-0.1
WHH	4.89	51	P	49	22.40	-2.5
WLZ	5.21	37	P	49	28.20	-1.2
NOZ	5.99	57	P	49	36.00	-4.3
PUZ	6.46	54	P	49	41.90	-5.1X
HBZ	6.81	51	P	49	46.20	-5.5X
TAU	17.95	259	eP	52	21.00	0.8
			e	55	28.00	
RIV	18.12	290	eP	52	24.00	1.7
			eS	56	00.00	
CNB	18.64	284	eP	52	30.00	1.1
DZM	20.44	346	iPc	52	54.50	5.4X
TOO	20.56	274	eP	52	51.00	0.8
			eTT	10	07.00	
BRS	21.28	308	iPc	53	00.50	2.9
			i	53	08.00	
			iS	07	00.00	
BFD	22.89	273	eP	53	16.00	2.5
CMS	23.15	289	iPd	53	18.70	2.7
RMQ	24.39	302	ePc	53	29.50	1.4
	1.1s	159.00nm			5.5mb	
			e	57	06.00	
SVA	24.60	16	eP	53	30.10	0.0
ADE	26.62	275	e(P)	53	46.30	-2.7
	0.8s	40.30nm			5.1mb	
QLP	27.27	296	eP	53	56.00	1.1
HNR	34.13	339	eP	54	55.00	-0.7
QIS	34.48	299	iPc	54	59.00	0.3
	0.9s	67.00nm			5.6mb	
SBA	35.92	182	iP	55	12.80	2.4
ASPA	36.28	288	iPd	55	13.10	-0.9
	1.2s	114.10nm			5.7mb	
Z	18s	5.10um			5.3Msz	
			iPcP	57	36.10	
			eS	00	32.00	
			eScS	05	38.50	
			eS	10	33.20	
FORR	36.42	274	eP	55	15.30	0.2
	0.4s	17.00nm			5.3mb	
WB2	38.43	293	eP	55	30.40	-1.6
			e	57	42.10	
			eS	01	25.50	
PMG	39.04	319	eP	55	38.00	0.9
AFR	40.95	65	iP	55	54.20	1.3
	1.2s	160.00nm			5.6mb	
PAE	41.00	65	iP	55	54.50	1.2
	1.2s	115.00nm			5.5mb	
PPT	41.07	65	iP	55	55.00	1.1
	1.2s	170.00nm			5.7mb	
TVO	41.14	66	iP	55	56.00	1.5
	1.2s	90.00nm			5.4mb	
PPN	41.19	66	iP	55	56.90	2.0
	1.2s	100.00nm			5.4mb	
RAB	41.56	330	eP	55	59.00	1.1
NWAO	43.49	264	eP	56	12.50	-1.1
Z	20s	1.50um			4.9Msz	
			eS	02	48.00	
			e	05	57.00	
KLB	43.74	266	eP	56	15.00	-0.6
RUV	44.23	65	iP	56	20.60	0.9
	1.2s	140.00nm			5.7mb	
MUN	44.70	264	eP	56	23.30	-0.1
MEKA	45.78	272	eP	56	31.00	-1.0
	0.7s	29.00nm			5.3mb	
MRWA	46.26	267	eP	56	35.30	-0.5
SPA	48.10	180	iPc	56	51.80	1.8
	0.8s	45.83nm			5.6mb	
Z	19s	2.25um			5.2Msz	
			i	58	16.80	
			e	12	00.00	
NANU	50.34	274	eP	57	07.50	0.0
	0.7s	40.00nm			5.5mb	
DAV	64.50	308	eP	58	48.00	0.4
AIA	64.52	157	P	58	48.60	1.5
BAG	74.85	309	eP	59	49.00	-2.1
IPM	78.87	287	ePd	00	13.50	0.1
SNG	80.96	288	eP	00	25.40	0.8
QIZ	83.33	303	eP	00	38.20	1.5
MAT	84.02	333	(P)	00	40.00	0.1
	1.1s	22.78nm			5.3mb	
			eS	11	10.00	
LCCH	85.04	131	eP	00	47.00	1.7
TACH	85.26	132	eP	00	48.00	1.6
NNT	85.36	291	eP	00	41.00	-6.0X
ROCH	85.73	132	eP	00	50.50	1.4
FCH	85.86	132	eP	00	49.00	-0.9
SSE	86.38	318	eP	00	48.00	-3.7X
Z	20s	0.50um			4.9Msz	
NST	87.25	294	eP	01	01.50	5.3X
KHT	87.69	292	eP	00	58.70	0.3
NJ2	88.32	317	Pd	01	02.80	1.8
WHN	89.48	313	Pd	01	08.70	2.1
			SKS	11	38.00	
			S	11	58.00	
CHG	90.26	295	eP	01	10.90	0.4
	0.8s	11.01nm			5.2mb	
GYA	90.80	306	iPd	01	14.20	1.2
SNY	94.13	326	eP	01	28.70	0.9
MDJ	94.18	331	eP	01	28.50	0.6
CN2	95.03	328	Pc	01	33.00	1.1
Z	20s	1.00um			5.3Msz	
			pP	01	36.50	11kmX
			eS	12	45.00	
CD2	95.78	307	eP	01	37.00	1.3
BJI	95.98	321	eP	01	41.00	4.7X
Z	17s	0.41um			5.0MszX	

15d 11h

TIY	96.01	317	eP	01	38.70	2.0
	Z 20s	0.60um				5.1Msz
			SKS	12	10.00	
LZH	99.44	311	eP	01	53.00	0.7
	1.6s	26.00nm				5.5mb
	Z 25s	0.37um				4.8MszX
SHL	99.63	296	eP	02	01.50	8.1X
CNCB	99.69	123	P	01	57.10	2.5
LPB	99.83	123	ePd	01	59.00	4.0X
	Z 20s	0.35um				4.9Msz
			LR	36	20.00	
ZOBO	100.01	123	Pdiff	01	58.00	2.1
	1.2s	10.14nm				5.2mb
	Z 23s	0.18um				4.5MszX
			LR	35	00.00	
ALQ	107.13	58	ePKP	06	49.00	12.9X
	1.2s	10.94nm				
	Z 18s	1.20um				5.5Msz
ANMO	107.13	58	PKP	06	34.00	-2.1
WMO	113.84	30B	PKP	06	47.50	-0.9
INK	117.43	20	ePKP	06	51.50	-2.9
YKA	119.66	31	ePKP	06	55.00	-3.8X
	0.7s	5.70nm				
QUE	119.85	285	ePKP	07	00.00	-0.4
SOB1	120.88	142	ePKP	07	02.21	-0.4
FFC	121.11	43	ePKP	07	00.00	-1.8
	0.6s	7.00nm				
MBC	125.77	16	ePKP	07	08.00	-2.2
	1.0s	24.00nm				
BCAO	135.49	220	iPKPc	07	30.10	-0.5
	0.9s	14.00nm				
			id	07	38.00	
			id	10	05.10	
			ic	11	02.90	
TAB	138.57	283	ePKP	07	36.00	0.1
FRB	139.70	37	ePKP	07	26.00	-10.8X
PRNI	143.48	266	ePKP	07	40.00	-4.6X
JVI	144.01	268	ePKP	07	42.50	-3.0X
LIC	144.16	186	PKP	07	42.72	-3.4X
	Z 20s	0.70um				5.4Msz
KIC	144.27	186	PKP	07	43.10	-3.3X
	0.6s	84.50nm				
TIC	144.57	186	PKP	07	43.52	-3.4X
ADI	144.64	270	ePKP	07	44.50	-2.0
BHL	144.70	271	PKP	07	44.50	-2.2
HLW	145.93	262	ePKPc	07	49.00	0.3
KEV	146.87	338	iPKP	07	50.00	1.0
	0.8s	77.70nm				
			i	07	56.20	
KVT	147.06	283	ePKP	07	45.00	-5.3X
LKO	147.49	185	PKPc	07	52.88	1.2
	0.6s	57.50nm				
SOD	148.41	335	iPKP	07	53.90	2.4
			i	07	57.20	
BCK	149.90	274	iPKP	07	57.70	2.8
ELL	150.15	273	iPKP	07	59.00	3.7X
KHL	150.99	275	ePKP	08	00.00	3.5X
GPA	151.02	280	iPKP	08	01.10	4.7X
KAF	151.32	326	iPKP	08	00.80	4.7X
	0.7s	61.50nm				
NUR	152.78	324	iPKP	08	02.00	3.8X
	1.1s	55.20nm				
			i	08	09.20	
CFR	153.55	289	ePKP	07	58.00	-1.8
TLB	153.56	288	ePKP	08	07.00	7.2X
VRI	154.61	291	ePKP	08	05.50	4.2X
ISR	154.68	289	ePKP	08	07.00	5.6X
MLR	155.13	290	ePKP	08	00.00	-2.1
CMP	155.75	289	iPKPc	08	19.00	16.1X
HFS	157.44	331	ePKP	08	14.30	9.8X
	1.0s	9.50nm				
NB2	157.63	335	PKP	08	07.90	3.1X
	1.3s	18.30nm				
BZS	158.17	289	ePKP	08	10.00	4.2X
SRO	160.34	296	ePKP	08	03.40	-4.7X
KSP	160.98	306	ePKP	08	07.50	-1.2
			i	08	54.00	
			e	12	39.50	
ZST	161.09	297	ePKP	07	54.10	-14.7X
			e	08	08.40	
PTJ	162.13	291	ePKP	08	07.50	-2.6
PRU	162.31	304	ePKP	08	08.00	-2.0
			e	08	13.20	
			e	08	59.80	
BRG	162.37	307	iPKP	08	09.40	-0.7
	1.4s	48.00nm				
			i	09	00.00	
			i	09	04.20	
			i	11	48.80	
CLL	162.75	310	ePKP	08	09.00	-1.4
	1.7s	24.00nm				
			e	09	00.00	
KHC	163.16	302	PKPd	08	09.50	-1.5
	1.2s	10.00nm				
	Z 18s	0.50um				
			e	09	02.90	
MOX	163.82	309	ePKP	08	11.00	-0.5
			i	09	06.50	
			i	09	11.00	
GRF	164.43	306	e(PKP)	08	18.00	5.8X
	Z 18s	0.30um				
			e	09	08.00	
BSF	167.85	303	ePKP	08	12.30	-2.7
	1.4s	34.85nm				
LPL	168.58	293	ePKP	08	14.50	-1.2
LBF	169.94	303	ePKP	08	14.70	-1.6
	1.4s	65.35nm				
SMF	170.16	302	ePKP	08	14.60	-1.7
SSF	170.20	304	ePKP	08	15.00	-1.3
	1.4s	45.75nm				
AVF	170.41	303	ePKP	08	14.90	-1.5
BGF	170.82	303	ePKP	08	15.50	-1.2
	1.4s	65.35nm				
IFR	171.07	198	iPKP	08	16.00	-1.4
			i	08	19.00	
LPF	172.13	321	ePKP	08	16.90	-0.2
LPO	172.59	294	ePKP	08	16.90	-0.5
	1.6s	87.05nm				
MFF	172.60	310	ePKP	08	17.70	0.3
	1.6s	87.05nm				
EPF	173.52	281	ePKP	08	17.40	-0.5
	1.4s	61.00nm				

S.D. = 1.5 on 124 of 157 obs.

FEB 15, 1991 11h 24m 08.80± 0.98s
29.453 N ±11.0km 113.644 W ± 7.5km
DEPTH = 10.0km (geophysicist)
4.8mb (10 obs.)
GULF OF CALIFORNIA (49)
ML 4.5 (GS).

ECBX	2.35	329	ePn	24	49.70	1.7
			S	25	19.44	
EMX	2.88	332	ePn	24	57.50	2.0
CPBX	3.28	335	ePn	25	03.25	2.0
PBX	3.50	311	ePn	25	03.50	-0.9
ENX	3.56	314	ePn	25	04.89	-0.3
GLA	3.73	345	eP	25	05.00	-2.7
IKP	3.82	327	eP	25	15.00	5.9X
CBX	3.86	318	ePn	25	08.90	-0.7
BAR	4.13	322	eP	25	11.00	-2.4
CPE	4.52	320	eP	25	39.80	20.9X
PLM	4.76	326	eP	25	20.00	-2.5
TPC	5.07	337	eP	25	24.00	-2.7
PEC	5.35	327	e(P)	25	33.00	2.4X
RVR	5.53	326	eP	25	35.00	1.8
MWC	6.06	323	eP	25	45.00	4.2X
PAS	6.06	322	eP	25	58.00	17.4X
SBB	6.31	327	eP	25	49.00	4.7X
GSC	6.42	336	eP	25	46.00	0.3
ABL	7.16	320	eP	25	57.00	0.6
CLC	7.17	333	eP	25	55.00	-1.3
ISA	7.41	328	eP	26	01.00	1.3
BCH	7.90	318	eP	26	06.00	-0.5
ALQ	8.19	46	ePd	26	09.60	-1.1
ANMO	8.19	46	eP	26	09.50	-1.2
TNP	9.11	342	eP	26	22.70	-0.7
MSU	9.12	7	eP	26	23.60	0.0
BONR	9.32	337	eP	26	27.50	1.0
PV09	9.77	21	eP	26	33.00	0.4
KVN	10.26	340	eP	26	38.70	-0.6
DUG	10.74	3	eP	26	49.00	3.2X
DAU	11.11	10	e(P)	26	52.50	1.5
GOL	12.28	31	e(P)	27	12.00	5.2X
GLD	12.39	32	e(P)	27	14.00	5.8X
BW06	13.70	13	eP	27	27.50	1.8X
LRM	16.37	3	eP	28	03.20	2.8X
RSSD	16.52	25	ePc	28	07.00	4.7X
	1.5s	97.93nm			4.7mb	
			eS	32	56.70	
III	17.00	127	(P)	28	15.00	6.6X
PPM	17.14	124	(P)	28	19.50	9.0X
IISM	18.11	121	(P)	28	30.00	8.0X
LON	18.41	342	eP	28	27.00	1.3
NEW	18.97	353	eP	28	32.50	-0.1
	1.2s	13.26nm				4.0mb
OLY	19.64	66	eP	28	40.50	-0.1
PNT	20.35	349	eP	28	51.00	3.0X
SES	21.01	5	ePd	28	55.50	0.7
	1.0s	69.00nm				5.0mb
FVM	21.06	60	eP	28	54.50	-0.9
ELC	21.80	63	eP	29	03.50	0.7
FFC	26.62	15	eP	29	50.00	0.9
	1.2s	21.00nm				4.7mb
LHS	28.23	71	P	29	58.80	-5.1X
INK	40.62	349	eP	31	52.00	2.0
FBA	41.38	339	e(P)	32	12.30	16.9X
IMA	44.02	338	e(P)	32	22.30	4.2X
MBC	46.95	358	eP	32	47.00	6.0X
	1.2s	9.00nm				4.7mb
ZOBO	63.21	130	eP	34	36.00	-4.4X
LPB	63.41	130	(P)	34	41.00	-0.6
CNCB	63.69	130	eP	34	40.00	-3.6X
SIV	67.92	124	P	35	09.30	-0.8
TCF	84.91	39	eP	36	50.80	5.6X
	1.0s	16.00nm				5.2mb
BGF	85.09	38	eP	36	51.90	5.8X
SSF	85.13	38	eP	36	52.10	5.9X
	1.0s	10.00nm				5.0mb
MAF	85.15	39	eP	36	52.20	5.8X
LOR	85.19	37	eP	36	52.40	5.8X
SMF	85.57	38	eP	36	53.30	4.8X
CAF	85.67	40	eP	36	54.80	5.8X
HAU	86.00	36	eP	36	55.60	5.0X
	0.8s	8.05nm				4.9mb
CDF	86.20	35	eP	36	56.70	5.0X
	0.8s	2.70nm				4.5mb
BSF	86.34	36	eP	36	57.30	4.9X
	0.8s	8.05nm				5.0mb
GKN	120.25	341	PKP	43	00.00	-2.3X
SLR	146.15	93	ePKP	43	52.00	1.5

S.D. = 1.4 on 35 of 68 obs.

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* FEB 15, 1991 11h 27m 11.38± 0.59s
4.182 S ± 8.8km 143.724 E ±14.5km
DEPTH = 33.0km (normal)
5.1mb (3 obs.)
PAPUA NEW GUINEA (202)

PMG	6.21	147	eP	28	44.50	1.3
QIS	16.76	193	eP	31	06.00	0.6
WB2	18.13	209	eP	31	22.00	-0.5
			e	34	37.90	
WRA	18.14	210	P	31	33.00	10.4X
	0.6s	4.20nm				
ASPA	21.57	205	eP	31	58.70	-1.6
	0.4s	26.60nm				5.0mb
			eS	38	35.50	
RMO	22.70	168	eP	32	12.00	0.5
BRS	24.64	160	iPd+	32	28.90	-1.5
WARB	27.32	215	iPc	32	55.60	0.3
	0.4s	15.00nm				5.0mb
FORR	30.34	207	iPc	33	21.00	-1.3
	0.4s	22.00nm				5.3mb
GUN	64.15	304	P	37	46.00	0.3
PKI	64.42	303	P	37	47.20	-0.3
KKN	64.61	303	P	37	48.20	-0.3
DMN	64.69	303	P	37	49.40	0.3
GKN	65.21	303	P	37	52.20	-0.1
FBA	84.81	23	(P)	39	42.50	-1.0
YKA	99.08	27	eP	40	47.30	-2.8
	0.4s	0.10nm				3.7mb X
SIV	148.32	130	PKP	46	53.00	-0.4
			i	47	26.60	
KIC	148.53	275	PKP	46	55.20	1.4
TIC	148.79	276	PKP	46	55.90	1.7
LIC	148.82	275	PKP	46	56.00	1.8
	0.6s	8.00nm				
LKO	149.08	282	PKP	46	56.46	1.8
	0.5s	8.00nm				

S.D. = 1.3 on 20 of 21 obs.

% FEB 15, 1991 11h 46m 37.26± 1.34s
40.968 N ±17.6km 28.626 E ± 8.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.8 (ISK).

ISK	0.34	73	iPg	46	14.50	0.2
			iSg	4	3.90	
HRT	0.80	100	iPg	4	2.40	-0.5

		iSg	47 03.20			
BNT	0.81	222 iPg	46 52.50	-0.5		
		eSg	47 04.90			
EDC	0.85	223 ePg	46 53.00	-0.6		
		eSg	47 05.00			
KGT	1.13	243 ePn	46 59.00	0.6		
DST	1.36	180 ePn	47 03.20	0.9		
S.D. = 0.8		on	6 of	6 obs.		

FEB 15, 1991 11h 54m 56.42± 0.87s
41.105 N ± 8.7km 20.209 E ± 6.7km
DEPTH = 10.0km (geophysicist)
ALBANIA (391)
ML 2.8 (TIR), 2.8 (SKO).

TIR	0.35	313 iPgc	55 03.00	-0.7		
		iSg	55 10.00			
OHR	0.45	89 iPgc	55 04.10	-1.4		
		iSg	55 10.50			
BERA	0.45	206 ePg	55 05.90	0.4		
FNA	0.94	110 eP	55 13.10	-1.3		
SDA	1.05	330 ePg	55 20.00	3.7X		
SKO	1.27	46 ePg	55 20.50	0.6		
		iSg	55 30.40			
IGT	1.57	177 ePc	55 27.00	2.6X		
		eS	55 52.84			
GRG	1.67	94 ePc	55 25.08	-0.7		
VAY	1.79	82 ePn	55 28.00	0.4		
KNT	2.03	88 ePc	55 33.24	2.1		
		eS	56 00.12			
SRS	2.56	89 ePd	55 39.24	0.6		
S.D. = 1.3		on	9 of	11 obs.		

? FEB 15, 1991 12h 04m 36.51± 1.08s
62.248 N ±25.5km 7.197 E ±45.5km
DEPTH = 10.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 2.5 (BER).

MOL	0.36	27 iPgc	04 43.92	0.0		
		eSg	04 49.20			
HYA	1.19	204 iP	04 58.08	-0.5		
		eS	05 14.45			
SUE	1.67	225 eP	05 05.64	-0.2		
		eS	05 27.25			
ASK	2.02	209 eP	05 11.69	0.8		
		eSg	05 38.96			
S.D. = 1.0		on	4 of	4 obs.		

? FEB 15, 1991 12h 32m 24.18± 0.98s
39.150 N ± 8.8km 27.666 E ±15.6km
DEPTH = 10.0km (geaphysicist)
TURKEY (366)
MD 2.6 (ISK).

IZM	0.81	203 ePg	32 40.00	0.0		
		iSg	32 52.10			
DST	0.87	58 ePn	32 41.00	0.0		
EDC	1.20	7 ePn	32 46.50	-0.1		
BNT	1.22	9 ePn	32 47.00	0.1		
S.D. = 0.2		on	4 af	4 obs.		

FEB 15, 1991 12h 38m 15.34± 0.50s
27.818 N ± 8.1km 129.666 E ± 6.0km
DEPTH = 39.3km (3 depth phases)
4.5mb (10 obs.)
RYUKYU ISLANDS (238)

KAGJ	3.52	17 P	39 08.90	-0.1		
		S	39 49.50			
SSE	8.08	296 P	40 20.50	7.4X		
Z	18s	0.90um				
NJ2	10.28	297 Pc	40 45.00	1.6		
MAT	11.31	38 (P)	40 57.00	-0.4		
CN2	16.31	349 eP	42 11.00	8.0X		
BJI	16.53	321 eP	42 10.50	4.8X		
1.0s	11.00nm		3.9mb			
TIY	17.51	309 eP	42 20.00	1.8		
Z	14s	0.60um				
N	12s	0.40um				
		S	45 42.00			
XAN	18.83	294 P	42 33.70	-0.8		
HHC	19.76	316 eP	42 44.70	-0.3		
GYA	20.51	272 iPc	42 53.20	0.2		
CD2	22.77	284 eP	43 15.00	-0.5		
1.2s	40.00nm		4.8mb			
LZH	23.36	297 eP	43 22.00	0.7		
2.0s	21.00nm		4.3mb			
Z	15s	0.24um	3.8MszX			
		pP	43 32.00	37km		
KMI	24.24	270 Pc	43 30.00	0.0		
1.5s	63.00nm		4.9mb			
GTA	27.29	303 eP	43 56.20	-2.1		
0.7s	10.00nm		4.6mb			
Z	24s	0.40um	3.9MszX			
		pP	44 06.60	38km		
CHG	29.54	259 eP	44 18.00	-0.6		
CHTO	29.54	259 P	44 18.00	-0.6		
		pP	44 29.40	43km		
SHL	33.75	275 iP	44 54.60	-1.1		
GUN	38.55	281 P	45 36.78	0.2		
PKI	39.03	280 P	45 40.54	0.0		
KKN	39.10	281 P	45 41.24	0.3		
DMN	39.28	280 P	45 42.60	0.1		
GKN	39.62	281 P	45 45.36	0.2		
WB2	47.70	174 eP	46 51.00	0.8		
GBA	50.51	265 P	47 11.00	-0.9		
KOD	51.95	261 eP	47 24.50	1.2		
INK	66.93	24 eP	49 06.00	0.5		
MBC	67.99	14 eP	49 12.50	0.4		
0.8s	6.00nm		4.7mb			
		pP	49 27.50	54kmX		
NUR	73.15	330 eP	49 55.00	11.6X		
YKA	76.55	25 eP	50 02.50	-0.4		
0.8s	1.00nm		3.9mb			
HFS	78.01	333 eP	50 10.70	-0.3		
0.4s	1.00nm		4.2mb			
NB2	78.46	334 P	50 13.00	-0.5		
0.9s	4.90nm		4.5mb			
FFC	86.60	27 eP	50 56.00	0.3		
0.8s	8.00nm		5.0mb			
TNP	89.39	47 P	51 10.00	0.3		
FVM	104.53	32 (Pdiff	52 12.50	-5.5X		
S.D. = 0.8		on	29 of	34 obs.		

FEB 15, 1991 13h 23m 23.92± 0.30s
50.236 N ± 6.2km 153.125 E ± 5.1km
DEPTH = 259.6km (2 depth phases)
4.8mb (38 obs.)
KURIL ISLANDS (221)

KUSJ	9.18	222 P	25 31.70	-1.2		
		S	27 08.90			
ASAJ	9.40	233 eP	25 40.30	4.7X		
AOMJ	13.17	228 eP	26 22.00	-0.6		
		eS	28 35.80			
OFUJ	13.80	220 eP	26 34.30	4.0X		
MDJ	16.85	260 P	27 05.50	-0.3		
MAT	17.41	224 eP	27 12.00	0.2		
0.6s	20.00nm		4.8mb			
CN2	19.87	262 Pc	27 36.00	-0.7		
SNY	22.05	259 eP	27 57.60	-0.4		
1.2s	40.00nm		4.8mb			
BJI	27.73	263 eP	28 51.00	0.8		
HHC	30.24	268 P	29 13.00	0.5		
IMA	31.04	39 eP	29 19.50	0.2		
1.1s	20.40nm		4.6mb			
TIY	31.45	262 eP	29 24.00	0.9		
PMR	33.16	48 eP	29 37.50	0.0		
FBA	33.48	42 eP	29 40.90	0.7		
TOA	34.48	46 eP	29 50.00	1.2		
LZH	37.92	267 Pd	30 19.40	1.4		
1.4s	60.00nm		4.9mb			
GTA	38.56	275 eP	30 24.40	1.2		
1.0s	20.00nm		4.6mb			
INK	38.74	35 ePd	30 24.40	0.3		
CD2	41.30	261 eP	30 46.00	0.4		
MBC	41.33	21 ePd	30 45.60	0.4		
WMQ	43.77	288 iPc	31 06.50	1.1		
KMI	45.99	256 eP	31 23.20	-0.1		
YKA	48.16	39 eP	31 38.70	-0.6		
0.7s	9.60nm		4.2mb			
CHG	53.01	254 ePd	32 16.80	0.5		
1.0s	12.00nm		4.3mb			
PNT	53.15	55 eP	32 16.00	-1.0		
GUN	54.78	273 P	32 29.04	-0.4		
0.3s	30.00nm		5.3mb			
KKN	55.25	273 P	32 32.40	-0.3		
PKI	55.31	273 P	32 32.86	-0.5		
DMN	55.48	273 P	32 34.18	-0.2		
GKN	55.51	274 P	32 34.20	-0.3		
0.3s	38.00nm		5.4mb			
SOD	56.01	338 eP	32 36.00	-1.3		
SES	56.82	50 eP	32 43.00	-0.3		
NNT	57.32	249 eP	32 41.30	-5.8X		
FFC	58.09	41 iPd	32 51.80	-0.2		
0.8s	23.00nm		4.8mb			
LRM	59.11	54 eP	33 00.00	0.5		
KAF	60.29	334 eP	33 05.80	-1.1		
0.2s	2.60nm		4.5mb			
SNG	61.12	244 eP	33 19.90	6.9X		
TNP	61.71	64 P	33 17.00	0.0		
		pP	34 17.00	266km		
FRB	61.76	20 eP	33 14.00	-2.6		
NUR	62.07	334 iP	33 17.50	-1.2		
NB2	64.94	341 P	33 35.80	-1.5		
0.5s	5.50nm		4.5mb			
HFS	65.20	339 eP	33 38.20	-0.7		
0.3s	6.80nm		4.9mb			
HYB	66.97	270 eP	33 50.50	-0.3		
ANMO	70.02	59 P	34 10.00	0.6		
		pP	35 09.00	254km		
ALQ	70.02	59 eP	34 09.00	-0.5		
0.9s	3.78nm		4.1mb			
GBA	70.52	268 Pc	34 10.80	-1.6		
0.8s	3.00nm		4.1mb			
WB2	71.82	199 eP	34 19.50	-0.4		
KSP	72.79	333 ePc	34 24.00	-1.2		
EKA	72.95	346 P	34 26.00	-0.1		
0.3s	2.80nm		4.5mb			
CLL	73.30	335 eP	34 27.00	-1.1		
1.3s	34.00nm		4.9mb			
BRG	73.43	334 eP	34 29.10	0.1		
0.9s	18.00nm		4.8mb			
PRU	74.06	334 eP	34 32.50	-0.1		
0.9s	14.00nm		4.7mb			
MOX	74.27	336 iP	34 34.00	0.2		
SRO	74.86	330 eP	34 37.90	0.8		
ZST	74.90	331 eP	34 37.10	-0.3		
KHC	75.11	334 P	34 38.80	0.2		
1.0s	10.50nm		4.5mb			
GRF	75.24	336 eP	34 40.00	0.6		
1.2s	46.00nm		5.1mb			
ASPA	75.52	198 eP	34 42.60	1.5		
1.3s	7.60nm		4.3mb			
DOU	76.49	340 Pc	34 33.90	-12.3X		
KBA	77.03	333 eP	34 48.50	-1.0		
1.2s	54.30nm		5.2mb			
		ic	34 51.10	8kmX		
		e	35 58.00			
CDF	77.44	337 eP	34 51.80	0.2		
0.9s	16.40nm		4.8mb			
SLE	77.73	336 ePc	34 53.70	0.6		
HAU	78.04	338 eP	34 53.80	-1.0		
0.9s	6.55nm		4.4mb			
BSF	78.09	338 eP	34 55.10	-0.1		
0.9s	9.85nm		4.5mb			
VDL	78.65	335 ePc	34 59.90	1.5		
GRR	79.24	343 eP	35 01.80	0.6		
1.0s	36.00nm		5.1mb			
LOR	79.32	339 eP	35 02.10	0.4		
0.9s	18.85nm		4.8mb			
MMK	79.45	336 ePd	35 03.80	1.1		
DIX	79.57	337 ePd	35 04.40	1.0		
SSF	79.59	339 eP	35 02.40	-0.7		
0.9s	9.85nm		4.6mb			
LPF	79.61	343 eP	35 04.00	0.8		
1.0s	30.00nm		5.0mb			
AVF	79.88	339 eP	35 05.10	0.5		
1.0s	18.00nm		4.8mb			
SMF	79.91	339 eP	35 04.20	-0.6		
1.4s	52.30nm		5.1mb			
RSL	80.13	337 P	35 05.60	-0.6		
LPG	80.28	337 eP	35 08.00	0.8		
1.0s	22.00nm		4.9mb			
MAF	80.60	340 eP	35 08.60	0.2		
1.2s	62.50nm		5.2mb			
TCF	80.61	340 eP	35 09.30	0.8		
0.9s	13.90nm		4.7mb			
LSF	80.80	340 eP	35 10.10	0.6		
0.9s	26.20nm		5.0mb			
SSB	81.03	338 P	35 10.74	0.0		
CAF	81.94	340 eP	35 16.00	0.5		
1.0s	17.00nm		4.7mb			
LPO	82.36	340 eP	35 19.10	1.5		
1.0s	26.00nm		4.9mb			
LMR	82.36	336 eP	35 18.50	0.9		
KIC	120.46	334 PKP	41 45.00	-0.9		
S.D. = 0.8		on	78 af	83 obs.		

* FEB 15, 1991 13h 40m 05.07± 0.67s

15d 13h

9.021 S ±16.5km 110.382 E ±16.4km
DEPTH = 33.0km (normal)
4.7mb (4 obs.)
SOUTH OF JAVA (282)

NANU	14.34	160	eP	43	27.50	-0.3
			eS	45	59.00	
MBL	15.12	144	eP	43	38.00	0.0
	0.3s	5.00nm			4.3mb	
			eS	46	13.00	
IPM	16.42	325	ePc	44	01.50	6.8X
MTN	20.72	102	eP	44	46.50	1.1
	0.3s	37.00nm			5.2mb	
			e	44	49.00	
WB2	25.58	118	eP	45	31.80	-1.3
ASPA	26.79	126	eP	45	49.30	5.0X
	0.8s	5.20nm			4.2mb	
Z	20s	0.10um			3.4Msz	
			eS	50	53.40	
CHTO	29.87	338	(P)	46	12.00	0.0
KOD	37.93	300	eP	47	21.60	-0.3
GBA	39.68	304	P	47	35.00	-1.1
HYB	40.98	310	eP	47	46.50	-0.3
BRS	43.95	120	iPc	48	17.00	6.0X
BCAO	92.50	274	ePc	53	17.20	2.3
	0.8s	7.00nm			5.1mb	
			ic	53	25.20	
SOB1	146.15	238	ePKP	59	49.60	6.0X
BAO	147.46	221	ePKPc	59	51.80	6.0X
S.D. = 1.3 on 9 of 14 obs.						

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* FEB 15, 1991 13h 48m 07.73± 0.67s
5.883 N ±11.3km 78.033 W ±22.9km
DEPTH = 33.0km (normal)
4.6mb (4 obs.)
SOUTH OF PANAMA (83)

UPA	3.42	334	(P)	49	02.00	2.0
DVD	5.06	300	(P)	49	14.50	-8.9X
NNA	17.79	176	iP	52	15.70	1.0
	0.7s	15.07nm			4.2mb	
PT10	17.87	177	e(P)	52	17.00	1.4
ZOBO	24.10	156	P	53	22.50	0.4
Z	24s	0.13um			3.3MszX	
			LR	00	15.00	
LPB	24.34	156	eP	53	25.00	0.6
CNCB	24.64	156	eP	53	28.00	0.6
SIV	27.46	143	P	53	50.80	-2.2
ALQ	39.03	322	eP	55	37.20	3.7X
ANMO	39.03	322	P	55	37.00	3.6X
PNT	55.67	328	eP	57	47.00	3.9X
YKA	62.54	342	eP	58	30.80	0.4
	0.8s	4.70nm			4.7mb	
LKO	71.78	82	P	59	30.90	1.4
INK	72.30	341	ePd	59	34.40	2.8
TIC	72.52	85	P	59	35.20	1.2
LIC	72.54	85	P	59	35.30	1.2
	0.8s	8.50nm			4.8mb	
KIC	72.81	85	P	59	37.10	1.4
	0.9s	6.50nm			4.6mb	
UPP	87.80	30	iP	00	52.70	-1.9
GKN	142.39	26	PKP	07	38.62	-1.2
KKN	142.85	25	PKP	07	38.54	-2.1
DMN	142.93	25	PKP	07	39.00	-1.8
	0.5s	12.00nm				
GUN	142.99	24	PKP	07	39.64	-1.4
	0.9s	20.00nm				
PKI	143.09	25	PKP	07	39.32	-1.9
	0.9s	10.00nm				
ASPA	144.56	237	ePKP	07	41.50	-1.9
	1.0s	9.20nm				
GBA	148.89	51	PKP	07	56.00	5.4X
KOD	150.81	57	ePKP	08	02.90	9.0X
S.D. = 1.7 on 20 of 26 obs.						

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* FEB 15, 1991 14h 13m 32.06± 1.66s
32.585 S ±18.6km 68.878 W ±20.6km
DEPTH = 33.0km (normal)
MENDOZA PROVINCE, ARGENTINA (139)

RTCV	0.78	22	eP	13	45.70	-0.9
RTCB	1.10	3	ePd	13	50.90	-0.3
			eS	14	12.90	
CFA	1.12	29	e(P)	13	51.20	-0.3
			S	14	14.00	
FCH	1.40	238	iPd	13	57.60	1.8
			iS	14	17.80	
JACH	1.45	266	ePd	13	55.30	-1.0
			iS	14	12.00	
ROCH	1.84	257	iPc	14	01.30	-0.8
			iS	14	23.20	
TACH	2.03	238	iPd	14	03.40	-1.2
			iS	14	28.00	
			i	14	29.00	
IHA	2.37	259	iPd	14	10.20	0.8
			iS	14	39.30	
LCCH	2.43	248	iP	14	10.60	0.3
			iS	14	39.40	
RTRS	2.46	348	iPd	14	19.00	8.3X
			eS	14	54.20	
LNV	2.52	237	iP	14	11.40	-0.2
			iS	14	41.00	
CNCB	15.73	3	eP	17	19.00	5.6X
ZOBO	16.26	3	eP	17	22.00	1.8
S.D. = 1.2 on 11 of 13 obs.						

& FEB 15, 1991 15h 10m 49.00s
29.700 N 113.800 W
DEPTH = 10.0km (geophysicist)
GULF OF CALIFORNIA (49)
<SPEC>. Held to moinshock locotion.

GLA	3.46	346	eP	11	55.00	11.0
IKP	3.54	327	eP	11	59.00	13.7
BAR	3.86	321	eP	12	01.00	11.3
PLM	4.48	325	eP	12	13.00	14.3
TPC	4.79	337	eP	12	11.00	8.0
RVR	5.25	326	eP	12	16.00	6.6
GSC	6.13	336	eP	12	46.00	24.1
ALQ	8.12	48	eP	12	45.30	-4.6
LRM	16.13	3	eP	14	41.70	4.1
SES	20.78	5	eP	15	33.00	0.4
10 obs. assaciated						

% FEB 15, 1991 16h 48m 25.88± 1.27s
42.418 N ±10.7km 19.810 E ±10.4km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.1 (TTG).

PVY	0.21	34	iPgd	48	30.32	-0.3
			iSg	48	34.86	
TTG	0.41	272	iPgc	48	33.32	-0.9
			iSg	48	40.44	
IVA	0.46	8	iPgd	48	35.49	0.3
			iSg	48	42.69	
ULC	0.62	223	iPgc	48	38.31	0.0
			iSg	48	47.41	
BDV	0.74	260	iPgc	48	40.72	0.3
			iSg	48	52.61	
HCY	0.97	272	iPgc	48	44.86	0.5
			iSg	49	01.66	
S.D. = 0.7 on 6 of 6 obs.						

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* FEB 15, 1991 17h 15m 39.70± 0.51s
39.585 N ± 5.9km 21.043 E ± 4.5km
DEPTH = 10.0km (geophysicist)
3.9mb (3 obs.)
GREECE (364)
ML 3.6 (TIR), 3.6 (ATH).

IGT	0.55	265	ePc	15	49.60	-1.3
			eS	15	59.38	
LSK	0.66	329	iPgc	15	50.80	-2.1
			iSg	16	02.70	
EVR	0.89	138	eP	15	55.70	-1.2
KZN	0.91	38	eP	15	57.00	-0.2
KEK	0.97	278	eP	15	57.90	-0.2
AGG	1.15	119	eP	15	59.00	-2.2
FNA	1.22	12	eP	16	01.80	-0.7
LIT	1.23	65	iPd	16	03.50	0.9
			eS	16	11.08	
BERA	1.40	323	ePn	16	06.70	1.5
			iSn	16	28.40	
VLS	1.45	194	eP	16	06.40	0.4
VLO	1.48	307	iPn	16	08.90	2.6
			iSn	16	30.40	
OHR	1.54	353	iPnd	16	09.00	1.8
			iSn	16	31.80	
			LQ	16	36.50	
NEO	1.71	99	eP	16	12.10	2.4
GRG	1.72	37	Pc	16	08.92	-0.9
THE	1.81	5	Pc	16	09.08	-2.0
			iS	16	29.37	
TIR	1.98	333	ePn	16	16.50	3.0X
			iSn	16	40.00	
PLG	2.01	66	eP	16	16.00	2.0
PAIG	2.06	80	ePd	16	08.76	-6.0X
			iS	16	37.46	
VAY	2.09	33	iPn	16	16.70	1.5
			iSn	16	52.80	
			LQ	17	09.50	
KNT	2.12	41	ePc	16	09.12	-6.5X
SKO	2.40	7	ePn	16	22.90	3.2X
			i	16	50.00	
			iSg	16	55.40	
			LQ	17	09.00	
SRS	2.48	51	ePc	16	11.00	-9.7X
LCI	2.49	288	P	16	19.30	-1.6
			eSn	16	49.00	
ATH	2.64	127	eP	16	22.00	-1.0
SDA	2.70	335	ePn	16	26.60	2.8X
PVY	3.11	345	ePn	16	33.10	3.3X
			eSn	17	15.00	
TTG	3.15	335	ePn	16	32.00	1.8
			eSn	17	13.00	
BRT	3.21	295	P	16	32.00	0.8
			eSn	17	08.50	
VLI	3.23	152	eP	16	32.90	1.5
ORI	3.57	279	P	16	38.00	1.7
			eSn	17	16.60	
TDS	3.63	273	P	16	39.00	1.8
SOI	4.18	250	P	16	44.60	-0.2
			eSn	17	31.20	
MGR	4.26	279	P	16	46.60	0.5
			eSn	17	35.00	
SGO	4.51	284	P	16	49.10	-0.4
			eSn	17	38.00	
DUI	5.42	295	P	17	03.30	0.7
SDI	5.89	293	P	17	09.20	0.0
MLR	6.92	30	eP	17	27.00	3.3X
PTJ	7.34	331	eP	17	26.70	-2.8
VRI	7.54	32	ePd	17	33.50	1.2
			ed	45	44.50	
CTI	9.45	316	P	17	56.50	-2.4
HFS	21.08	350	eP	20	23.20	-3.0X
	0.5s	3.20nm			4.0mb	
NB2	22.33	347	P	20	36.60	-2.2
	0.7s	3.60nm			3.9mb	
YKA	72.21	340	eP	27	04.60	-1.7
	0.5s	0.30nm			3.6mb	
S.D. = 1.6 on 34 of 43 obs.						

? FEB 15, 1991 19h 17m 41.76± 1.19s
2.567 N ±25.1km 66.336 E ±15.5km
DEPTH = 10.0km (geophysicist)
4.8mb (3 obs.)
CARLSBERG RIDGE (421)

KOD	13.42	55	eP	20	55.10	-0.1
GBA	15.51	44	P	21	34.00	11.7X
	1.3s	10.70nm				
HYB	19.02	38	eP	22	06.00	-0.4
			eS	25	54.00	
CHG	35.77	61	eP	24	45.00	1.8
BCAO	47.74	274	iPc	26	22.10	0.8
	0.7s	6.00nm			4.8mb	
HFS	70.01	335	eP	28	54.40	-1.0
	1.2s	24.00nm			5.2mb	
WRA	70.31	112	P	28	57.00	-1.0
	0.9s	1.90nm			4.2mb	
S.D. = 1.4 on 6 of 7 obs.						

& FEB 15, 1991 19h 52m 28.00s
29.700 N 113.800 W
DEPTH = 10.0km (geophysicist)
GULF OF CALIFORNIA (49)
<SPEC>. Held to moinshock locotion.

GLA	3.46	346	eP	53	29.00	6.0
IKP	3.54	327	eP	53	39.00	14.7
BAR	3.86	321	eP	53	34.00	5.3
PLM	4.48	325	eP	53	53.00	15.3
TPC	4.79	337	eP	53	56.00	14.0
GSC	6.13	336	eP	54	30.00	29.1
ALQ	8.12	48	eP	54	25.30	-3.6
SES	20.78	5	eP	57	12.00	0.4
8 obs. oss ated						

? FEB 15, 1991 19h 55m 34.11± 0.83s
49.473 S ±16.7km 116.689 E ±22.2km
DEPTH = 10.0km (geophysicist)
4.9mb (5 obs.)
SOUTH OF AUSTRALIA (437)

NWAO	16.54	2	iPd	59 28.50	1.0
	0.7s	38.00nm		4.6mb	
	Z 20s	1.50um			
		e	03 20.00		
MUN	17.48	359	eP	59 40.80	1.4
ADE	21.71	56	e(P)	00 25.10	-2.0
	1.0s	54.00nm		4.9mb	
GBA	71.70	320	P	07 05.00	7.0X
	0.8s	2.20nm		4.3mb	
HYB	74.67	322	eP	07 15.50	0.1
KMI	75.29	347	Pc	07 20.00	0.9
	1.5s	33.00nm		5.2mb	
		pP	07 27.00	22kmX	
SHL	77.91	337	eP	07 32.50	-1.2
PKI	81.61	332	P	07 52.66	-1.0
DMN	81.74	332	P	07 53.32	-1.0
GUN	81.78	333	P	07 54.24	-0.4
KKN	81.85	332	P	07 54.10	-0.7
GKN	82.25	332	P	07 55.82	-1.0
LZH	85.95	350	eP	08 21.50	6.2X
	1.6s	18.00nm		5.0mb	
TNP	140.25	86	PKP	15 04.00	-0.7
MBC	145.40	20	ePKP	15 11.50	-0.7
	1.5s	23.00nm			
ALQ	145.40	98	ePKP	15 12.50	-1.2
	1.0s	17.50nm			
LRM	147.16	77	ePKP	15 18.30	2.0
GOL	148.86	92	PKP	15 22.00	2.8
YKA	149.39	45	ePKP	15 20.70	1.8
	1.2s	5.00nm			
SES	149.68	70	ePKP	15 24.00	4.2X

S.D. = 1.5 on 17 of 20 obs.

? FEB 15, 1991 20h 07m 11.89± 1.09s
40.689 N ±20.2km 15.023 E ±23.4km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.25	121	Pc	07 17.20	-0.1
			eSg	07 22.80	
MGR	0.68	143	P	07 25.50	0.1
			eSg	07 37.70	
DUI	1.06	336	P	07 32.00	0.1
			eSg	07 45.00	
SDI	1.36	319	P	07 36.90	-0.1

S.D. = 0.1 on 4 of 4 obs.

& FEB 15, 1991 20h 38m 17.00s
29.700 N 113.800 W
DEPTH = 10.0km (geophysicist)
GULF OF CALIFORNIA (49)
<SPEC>. Held to mainshock locotion.

GLA	3.46	346	eP	39 19.00	7.0
IKP	3.54	327	eP	39 23.00	9.7
BAR	3.86	321	eP	39 25.00	7.3
PLM	4.48	325	eP	39 41.00	14.3
SBB	6.03	327	eP	40 05.00	16.5
GSC	6.13	336	eP	40 20.00	30.1
ALQ	8.12	48	eP	40 14.00	-3.9
SES	20.78	5	eP	43 01.00	0.4

8 obs. ossocioted

? FEB 15, 1991 21h 03m 45.41± 3.00s
54.454 N ±61.1km 160.592 E ±19.1km
DEPTH = 33.0km (normol)
4.5mb (9 obs.)
NEAR EAST COAST OF KAMCHATKA (218)

INK	32.62	39	eP	10 16.00	0.4
YKA	41.97	44	eP	11 35.00	0.8
	0.5s	1.80nm		4.1mb	
TNP	55.86	71	P	13 21.00	-1.0
NB2	62.32	344	P	14 04.70	-1.6
	0.5s	1.60nm		4.4mb	
HFS	62.74	342	eP	14 07.50	-1.5
	0.4s	1.60nm		4.5mb	
KBA	75.11	338	eP	15 26.50	0.8
	0.8s	3.20nm		4.4mb	
GRR	76.34	347	eP	15 31.90	-0.5
	0.5s	4.35nm		4.7mb	
LOR	76.76	344	eP	15 34.10	-0.6
SSF	77.01	344	eP	15 35.00	-1.1
	0.8s	4.05nm		4.5mb	
LPL	77.96	342	eP	15 42.40	0.8
	0.7s	3.30nm		4.5mb	
LPG	77.97	342	eP	15 42.50	0.7
	0.7s	3.40nm		4.5mb	
CAF	79.32	345	eP	15 48.80	-0.1
LPO	79.69	345	eP	15 51.20	0.4
	0.5s	3.65nm		4.6mb	
FRF	79.86	341	eP	15 54.10	2.4

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

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* FEB 15, 1991 21h 17m 59.10± 1.07s
2.349 N ±18.6km 66.578 E ±11.0km
DEPTH = 10.0km (geophysicist)
4.5mb (3 obs.)
CARLSBERG RIDGE (421)

KOD	13.35	54	eP	21 10.20	-1.4
GBA	15.50	43	P	21 44.00	4.5X
POO	17.59	23	eP	22 05.50	-0.6
HYB	19.04	37	eP	22 24.00	0.0
			eS	26 22.00	
GKN	30.80	32	P	24 18.00	0.5
KKN	30.98	33	P	24 20.20	1.0
GUN	31.41	34	P	24 24.20	1.1
CHG	35.66	60	eP	25 01.00	1.3
LSA	35.84	38	eP	25 03.40	1.8
TAB	40.10	335	eP	25 39.00	2.2
WMO	45.35	22	eP	26 19.20	-0.2
BCAO	48.00	274	iPc	26 42.00	1.3
	0.8s	20.00nm		5.3mb	
XAN	50.51	46	P	26 59.00	-0.7
TIY	54.78	44	eP	27 30.70	-0.9
SRO	61.42	325	eP	28 16.60	-1.3
ZST	62.31	325	eP	28 22.50	-1.4
KHC	64.81	325	eP	28 39.60	-0.7
WRA	70.01	112	P	29 13.00	-0.5
	1.0s	2.80nm		4.3mb	
HFS	70.30	335	eP	29 13.20	-1.4
	0.4s	0.70nm		4.1mb	

S.D. = 1.3 on 18 of 19 obs.

& FEB 15, 1991 21h 22m 08.60s
59.909 N 152.458 W
DEPTH = 77.1km
3.0mb (1 obs.)
SOUTHERN ALASKA (2)
<AEIC>.

PDB	0.88	263	iP	22 25.40	-0.9
SVW	1.97	309	eP	22 39.80	-0.9
PMR	2.35	43	eP	22 44.40	-1.3
VZW	3.14	66	eP	22 53.60	-3.2
			eS	23 30.00	
TTA	3.48	332	eP	22 58.30	-3.2
KLU	3.59	61	eP	23 00.70	-2.3
			eS	23 40.00	
TOA	3.77	52	eP	23 04.00	-1.6
BALM	5.13	73	eP	23 20.00	-4.7
FBA	5.46	21	eP	23 26.30	-2.8
IMA	6.21	355	eP	23 36.40	-3.3
YKA	18.24	66	eP	26 14.30	-3.3
	0.5s	0.50nm		3.0mb	

11 obs. ossocioted

% FEB 15, 1991 21h 56m 04.08± 3.26s
44.864 N ± 8.4km 6.651 E ±24.3km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 1.7 (GEN).

RRL	0.11	59	P	56 06.94	-0.2
BHB	0.44	93	P	56 12.56	-0.4
			S	56 18.61	
PZZ	0.48	138	P	56 14.10	0.2
			S	56 20.76	
RSP	0.52	56	P	56 15.17	0.6
			S	56 21.89	
LSD	0.69	31	P	56 17.79	-0.2
			S	56 26.51	

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

FEB 15, 1991 22h 31m 03.10± 0.38s
4.379 S ± 7.2km 28.518 E ± 5.6km
DEPTH = 10.0km (geophysicist)
4.7mb (6 obs.)
LAKE TANGANYIKA REGION (572)
mbLg 4.9 (BUL).

NAI	8.83	70	iPc	33 14.00	0.0
BCAO	13.27	311	iPd	34 13.00	-1.2
	0.3s	5.00nm		5.1mb	
		iS	36 43.10		
		Lg	38 06.10		
BUL	15.67	180	iP	34 45.20	-0.6
		iSn	37 25.00		
		iSg	39 23.00		
SLR	21.24	181	iPc	35 52.00	0.2
		S	39 37.00		
KIC	34.88	288	P	37 57.40	0.4
LIC	35.11	287	P	37 59.16	0.2
TIC	35.22	288	P	38 00.44	0.4
LKO	36.69	292	P	38 13.06	0.6
SMF	55.30	340	eP	40 46.90	7.8X
BSF	55.38	342	eP	40 47.30	7.5X
	0.9s	8.20nm		4.8mb	
MAF	55.40	338	eP	40 48.30	8.5X
	0.8s	10.75nm		4.9mb	
LBF	55.55	340	eP	40 48.30	7.4X
AVF	55.60	339	eP	40 49.20	8.0X
HAU	55.67	342	eP	40 49.60	7.8X
	0.9s	4.90nm		4.5mb	
CDF	55.76	343	eP	40 49.90	7.4X
SSF	55.78	340	eP	40 49.10	6.6X
	0.6s	2.70nm		4.5mb	
LOR	55.83	340	eP	40 50.30	7.4X
	0.6s	4.95nm		4.7mb	
GKN	62.87	56	P	41 31.48	-0.6
DMN	63.11	56	P	41 34.12	0.3
KKN	63.32	56	P	41 34.96	-0.2
PKI	63.35	56	P	41 36.06	0.6
GUN	63.86	56	P	41 38.72	-0.2
CHTO	73.02	69	P	42 35.80	0.2
			e	42 43.00	

S.D. = 0.6 on 14 of 23 obs.

? FEB 15, 1991 23h 45m 55.19± 1.02s
2.422 N ±21.8km 66.669 E ±14.6km
DEPTH = 10.0km (geophysicist)
4.3mb (3 obs.)
CARLSBERG RIDGE (421)

KOD	13.24	54	eP	49 13.90	7.7X
GBA	15.39	43	P	49 47.00	12.9X
	0.6s	1.30nm			
HYB	18.93	37	eP	50 19.00	0.3
CHTO	35.55	60	P	52 55.00	0.2
BCAO	48.08	274	iPc	54 38.00	0.5
	0.8s	7.00nm		4.8mb	
WRA	69.95	112	P	57 09.00	-0.2
	1.6s	2.30nm		4.1mb	
HFS	70.28	335	eP	57 09.70	-0.8
	0.4s	1.00nm		4.3mb	

S.D. = 0.8 on 5 of 7 obs.

% FEB 15, 1991 23h 58m 08.01± 0.89s
39.405 N ± 7.5km 28.060 E ± 8.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.8 (ISK).

DST	0.48	65	iPg	58 18.00	0.2
			iSg	58 26.50	
EDC	0.95	351	ePg	58 26.00	-0.1
BNT	0.96	354	ePg	58 26.00	-0.2
IZM	1.18	212	iPn	58 29.90	-0.2
EZN	1.40	288	ePn	58 34.00	0.4

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

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* FEB 16, 1991 00h 07m 20.60± 0.80s
8.914 S ±16.8km 158.946 E ±10.9km
DEPTH = 33.0km (normal)
4.1mb (2 obs.)
SOLOMON ISLANDS (193)

SVO	0.89	105	iP	07 36.00	-0.7
			iS	07 49.00	
HNR	1.11	118	iPd	07 40.50	0.6
			iS	07 52.50	
WB2	26.18	243	iPc	13 02.60	8.5X
			id	16 12.00	

16d 00h

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ASPA    28.09 236 eP     13 11.40  -0.2
        0.8s      2.40nm          3.9mb
      Z 22s       0.10um          3.4Msz
FBA     83.52  20 P      19 45.70  -0.5
TNP     90.62  52 P      20 21.80   0.3
YKA     96.20  28 eP     20 46.80   0.5
        0.6s      0.60nm          4.2mb
      S.D. = 0.7  on   6 of   7 obs.
-----------------------------------------
?  FEB  16, 1991  00h 09m 44.08± 0.71s
   14.908 S ±13.8km  167.793 E ±22.5km
   DEPTH =  33.0km  (normal)
   4.0mb (  3 obs.)  3.8Msz (  1 obs.)
 VANUATU ISLANDS                  (186)

DZM      7.24 190 iPc    11 30.00  -0.4
                 iS     12 53.10
RMQ     21.18 234 eP     14 34.00   4.9X
WRA     32.27 256 P      16 19.00   6.8X
        0.8s      1.10nm          3.8mb
ASPA    33.09 249 eP     16 18.00  -1.2
        0.7s     24.50nm          5.2mb X
      Z 22s       0.20um          3.8Msz
SSE     64.00 316 e(P)   20 08.00  -8.7X
CHTO    75.61 294 P      21 27.20  -0.8
        1.1s      5.30nm          4.5mb
GUN     89.93 299 PKP    22 42.40   0.3
PKI     90.23 298 PKP    22 43.80   0.3
KKN     90.40 299 PKP    22 44.80   0.7
DMN     90.50 298 PKP    22 45.00   0.4
GKN     91.00 299 PKP    22 46.40  -0.4
YKA     97.47  27 eP     23 12.80  -2.6
        0.7s      0.30nm          3.9mb
KAF    125.54 339 ePKP   28 29.40 -13.7X
FLN    144.89 346 ePKP   29 18.50  -0.9
LOR    145.07 341 ePKP   29 20.40   0.6
SSF    145.37 341 ePKP   29 20.20  -0.1
        0.7s      7.15nm
LPL    145.56 336 ePKP   29 21.10   0.1
        0.7s      3.85nm
LPG    145.57 336 ePKP   29 21.50   0.4
        0.7s      4.95nm
BGF    146.02 341 ePKP   29 22.50   1.1
        0.6s      3.60nm
MFF    146.83 345 ePKP   29 26.30   3.6X
BCAO   148.00 254 iPKPc  29 28.10   2.5
        0.9s     18.00nm
                  ic     29 32.20
LFF    148.12 342 ePKP   29 20.90  -3.9X
      S.D. = 1.2  on  16 of  22 obs.
-----------------------------------------
?  FEB  16, 1991  00h 19m 50.60± 0.94s
   33.688 N ± 8.7km  104.896 E ±12.8km
   DEPTH =  33.0km  (normal)
 GANSU PROVINCE, CHINA            (322)
      ML 3.8 (BJI).

LZH      2.54 340 Pn     20 30.50  -0.1
                 Pg     20 33.50
                 Sg     21 05.00
CD2      2.93 199 Pn     20 36.40   0.4
                 Pg     20 45.40
                 Sn     21 15.70
                 Sg     21 24.00
XAN      3.37  83 Pn     20 42.40   0.2
                 Pg     20 46.60
                 Sn     21 19.20
                 Sg     21 34.60
TIY      7.33  55 ePg    22 01.30  23.2X
                 Sg     23 37.10
GYA      7.37 168 Pn     21 38.20  -0.5
                 Sn     22 59.00
      S.D. = 0.7  on   4 of   5 obs.
-----------------------------------------
&  FEB  16, 1991  01h 04m 04.43s
   43.138 N          127.464 W
   DEPTH =   5.8km
 OFF COAST OF OREGON              ( 30)
      <SEA>.

NLO      4.11  43 P      05 01.91  -7.3
GT2      4.25  60 P      05 03.81  -7.4
BMW      4.50  41 P      05 06.95  -7.8
RVW      4.52  47 P      05 07.38  -7.
ONR      4.56  34 P      05 08.26  -7.
VLMM     4.57  56 P      05 08.11  -7.
LVP      4.65  49 P      05 09.40  -7.
VBEM     4.65  64 P      05 09.60  -7.4
MTMW     4.73  51 P      05 10.39  -7.8
                 S      06 02.35
VLL      4.76  59 P      05 11.73  -6.8
FL2      4.76  48 P      05 11.23  -7.3
SHW      4.82  49 P      05 12.21  -7.2
CZM      4.83  45 P      05 12.40  -7.1
VFP      4.83  61 P      05 12.38  -7.2
ERK      4.83  47 P      05 11.96  -7.6
JLK      4.84  50 P      05 12.25  -7.4
STD      4.85  49 P      05 12.48  -7.4
ESD      4.87  49 P      05 12.90  -7.3
CDFW     4.88  51 P      05 12.43  -7.7
APM      4.89  56 P      05 13.31  -7.0
SOSW     4.90  49 P      05 13.57  -7.0
APW      4.90  43 P      05 13.01  -7.5
TDL      4.93  48 P      05 13.34  -7.6
KOSW     5.01  47 P      05 14.80  -7.2
LMW      5.09  44 P      05 15.78  -7.5
VIPM     5.14  72 P      05 15.45  -8.5
ASR      5.16  52 P      05 16.66  -7.5
VGB      5.35  61 P      05 19.04  -7.8
GLK      5.39  49 P      05 20.04  -7.4
LON      5.40  46 P      05 20.20  -7.3
RVC      5.44  44 P      05 20.97  -7.2
WPW      5.51  48 P      05 21.53  -7.6
GL2      5.52  57 P      05 21.27  -8.0
FMW      5.59  45 P      05 22.87  -7.5
GSM      5.71  43 P      05 23.38  -8.6
EBG      6.17  50 P      05 31.33  -7.1
JCW      6.37  36 P      05 34.35  -6.8
RSW      6.48  57 P      05 34.48  -8.3
        38 obs. associated
-----------------------------------------
    FEB  16, 1991  01h 12m 43.74± 0.47s
     2.438 N ±10.0km   66.665 E ± 6.9km
    DEPTH =  10.0km  (geophysicist)
    4.9mb ( 20 obs.)
  CARLSBERG RIDGE                 (421)

KOD     13.23  54 eP     15 52.90  -1.7
                 eS     18 32.00
GBA     15.38  43 P      16 18.00  -4.5X
POO     17.48  23 iPc    16 51.50   2.2
                 iS     20 28.00
HYB     18.92  37 ePd    17 06.00  -1.2
        1.2s     71.00nm          4.8mb
                 eS     20 52.00
NDI     27.97  20 eP     18 36.00  -0.6
DMN     30.62  33 P      19 01.78   1.1
GKN     30.68  32 P      19 02.10   1.0
PKI     30.76  34 P      19 02.54   0.5
KKN     30.86  33 P      19 03.66   0.9
GUN     31.28  34 P      19 07.86   1.2
SHL     33.43  44 eP     19 25.00  -0.3
                 eS     24 52.00
LSA     35.71  38 P      19 47.80   2.6X
TAB     40.06 335 eP     20 25.00   3.9X
BUL     43.55 237 iPc    20 51.20   1.3
        1.0s     17.00nm          4.8mb
CD2     45.04  47 eP     21 00.70  -1.1
GYA     45.18  54 P      21 04.00   1.0
                 S      27 45.00
WMQ     45.24  21 P      21 04.50   1.4
SLR     46.52 231 iPc    21 14.50   0.9
GTA     47.56  35 eP     21 22.00   0.3
        1.0s     10.00nm          4.9mb
HVD     51.17 227 iPd    21 41.50  -8.0X
TIY     54.66  44 Pc     22 15.60   0.3
VRI     55.57 327 eP     22 24.20   2.5X
HHC     55.64  40 eP     22 23.50   1.0
MLR     55.76 326 P      22 30.00   6.7X
BJI     58.32  43 eP     22 41.50   0.2
SRO     61.40 325 eP     23 05.30   3.0X
ZST     62.29 325 eP     23 07.40  -1.0
VKA     62.78 325 e(P)   23 10.00  -1.6
        1.0s     29.90nm          5.4mb
KSP     64.11 327 eP     23 20.00  -0.3
KHC     64.78 325 eP     23 23.60  -1.2
BRG     65.41 326 eP     23 29.60   0.9
                 i      23 39.60
CLL     66.14 326 eP     23 35.00   1.6
        2.0s     57.00nm          5.4mb
NUR     66.17 339 eP     23 29.00  -4.4X
GRF     66.41 324 e(P)   23 34.00  -1.2
MOX     66.61 325 e(P)   23 43.00   6.5X
KAF     66.72 341 eP     23 36.90   0.0
        0.9s     17.40nm          5.2mb
LPG     67.52 319 eP     23 40.50  -2.2
        0.9s      7.35nm          4.9mb
LPL     67.54 319 eP     23 40.70  -2.1
        1.0s     10.00nm          5.0mb
CDF     68.25 322 eP     23 46.20  -0.8
        0.9s      8.20nm          4.9mb
SMF     69.82 319 eP     23 55.40  -1.1
        0.9s      9.00nm          4.9mb
LBF     69.84 320 eP     23 55.90  -0.8
        0.8s      6.05nm          4.8mb
WRA     69.96 112 P      24 02.00   4.1X
        0.8s     12.50nm          5.1mb
WB2     69.97 112 eP     23 56.00  -1.9
LOR     70.01 320 eP     23 56.80  -0.9
        0.8s      7.40nm          4.9mb
SSF     70.17 320 eP     23 57.90  -0.8
        0.8s      6.70nm          4.8mb
ASPA    70.27 116 iPd    23 58.50  -1.3
        1.1s      8.40nm          4.8mb
SOD     70.43 345 eP     23 56.00  -3.9X
BGF     70.44 319 eP     23 59.90  -0.4
        0.8s     10.75nm          5.0mb
LPO     71.01 317 eP     24 04.10   0.3
KIC     71.26 276 P      24 06.60   0.7
        1.0s     11.00nm          4.9mb
LFF     71.38 317 eP     24 06.40   0.3
TIC     71.53 276 P      24 08.50   0.9
LIC     71.54 276 P      24 08.60   1.0
NB2     71.78 335 P      24 07.80  -0.4
        1.2s     12.00nm          4.9mb
LKO     72.10 279 P      24 11.50   0.5
        0.8s      8.50nm          4.9mb
IFR     73.50 304 iP     24 21.00   2.0
EKA     76.61 327 P      24 37.00   0.8
        1.3s     12.30nm          4.8mb
YKA    115.24   1 ePKP   31 25.70  -1.1
        0.8s      1.00nm
TNP    139.52   5 PKP    32 14.20   0.1
ALQ    142.26 351 ePKP   32 16.00  -3.1X
        1.5s     13.19nm
GSC    142.32   5 ePKP   32 23.00   4.0X
SBB    142.83   6 ePKP   32 20.00   0.1
TPC    143.56   4 ePKP   32 24.00   2.9X
PLM    144.25   5 ePKP   32 29.00   6.5X
GLA    144.67   2 ePKP   32 23.00   0.0
BAR    144.93   5 ePKP   32 25.00   1.5
      S.D. = 1.1  on  51 of  66 obs.
-----------------------------------------
   FEB  16, 1991  01h 23m 40.44± 0.08s
   48.268 N ± 2.1km  154.328 E ± 1.7km
   DEPTH =  38.9km  (geophysicist)
   6.3mb (109 obs.)  5.7Msz ( 34 obs.)
 KURIL ISLANDS                    (221)
      Ms 5.4 (BRK), 5.3 (PAS).
      Mo=1.6*10**18 Nm (PPT). Felt
      (II) at Severo-Kurilsk. Depth
      from broadbond displacement
      seismograms.
      FAULT PLANE SOLUTION: P-Waves
       NP1:Strike= 50 Dip=78 Slip=  90
       NP2:       230     12        90
       Principal Axes:
        T                Plg=57  Azm=320
        P                  33       140
      Comment: The focal mechanism is
       poorly controlled and
       corresponds to reverse
       faulting. The preferred fault
       plane is NP2.
      RADIATED ENERGY
       No. of sta:  14  Focal mech.  F
       Energy       1.4±0.3*10**13 Nm
      CENTROID, MOMENT TENSOR    (HRV)
      Data Used: GDSN
      L.P.B.: 17S, 45C
      Centroid Location:
      Origin Time       01:23:46.0 0.2
      Lat 48.31N 0.03 Lon 154.33E 0.03
      Dep  37.7 1.9 Half-duration  4.0
      Moment Tensor;  Scale 10**18 Nm
        Mrr= 1.17 0.03  Mtt=-0.04 0.05
        Mff=-1.14 0.04  Mrt= 0.34 0.06
        Mrf= 0.57 0.07  Mtf=-0.77 0.04
       Principal Axes:
        T  Val=  1.33  Plg=77  Azm=308
        N        0.36       2       208
```

P -1.69 13 117
Best Double Couple:Mo=1.5*10**18
NP1:Strike=204 Dip=32 Slip= 86
NP2: 29 58 93
YSS 7.94 265 P 25 40.00 3.8X
KUSJ 8.49 236 P 25 41.70 -2.0
S 27 13.10
ASAJ 9.10 247 P 25 56.40 4.1X
HOOJ 9.75 237 P 26 00.30 -0.8
S 27 45.40
SAP 10.48 245 eP 26 15.00 3.9X
eS 28 20.00
MRRJ 11.00 243 P 26 18.60 0.4
AOMJ 12.59 237 eP 26 39.30 -0.3
OFUJ 12.96 230 eP 26 40.10 -4.4X
eS 28 59.70
SMY 13.34 63 eP 26 47.40 -2.1
e 29 07.50
YAMJ 14.48 231 P 27 01.80 -2.7
NIIJ 15.72 231 P 27 18.20 -2.4
KAKJ 15.94 226 P 27 26.60 3.2X
CHJJ 16.64 228 P 27 30.90 -1.4
MAT 16.66 231 iPd 27 31.60 -1.0
1.3s 250.00nm 5.2mb X
Z 20s 10.28um 3.9MszX
eS 30 44.00
MTMJ 16.84 232 P 27 34.40 -0.5
MDJ 17.41 267 iPc 27 43.50 1.7
IIDJ 17.64 230 P 27 44.40 -0.4
TSRJ 18.60 234 P 27 56.50 -0.1
ADK 18.89 68 e(P) 27 58.90 -1.1
e 28 04.10
i 28 19.00
WKYJ 19.81 232 P 28 10.10 -0.4
YONJ 20.25 237 eP 28 15.10 0.1
CN2 20.48 268 iPd 28 15.00 -2.3
1.0s 500.00nm 5.8mb
Z 18s 35.00um 5.8Msz
pP 28 22.00 26kmX
TKSJ 20.82 234 P 28 20.90 0.0
SHK 21.17 238 iP 28 25.40 1.0
0.8s 328.36nm 5.8mb
SHNJ 22.35 239 eP 28 38.10 1.8
SNY 22.56 265 iPc 28 36.50 -1.7
1.0s 200.00nm 5.5mb
Z 23s 16.90um 5.4MszX
N 13s 2.40um
E 13s 6.40um
sP 28 55.00
iS 32 33.00
HIA 22.71 286 ePc 28 38.84 -0.8
esPd 28 55.23
eS 33 03.73
KUMJ 23.68 237 P 28 50.60 1.4
KAGJ 24.67 235 eP 29 00.50 1.7
DL2 25.30 260 P 29 05.00 0.3
1.6s 2400.00nm 6.5mb
Z 30s 11.00um 5.2MszX
N 13s 6.20um
pP 29 20.00 64kmX
PP 29 46.00
S 33 26.00
BJI 28.34 267 ePc 29 31.41 -1.1
6.0s 910.00nm 5.6mb X
Z 24s 10.50um 5.4MszX
N 15s 6.53um
esPd 29 46.31
ePcP 32 45.00
eS 34 15.00
TIA 29.77 260 P 29 45.00 -0.5
6.0s 1400.00nm 5.9mb X
Z 20s 6.50um 5.3Msz
N 15s 3.60um
E 15s 5.80um
S 34 30.50
SSE 30.43 248 iPc 29 52.00 0.8
1.5s 270.00nm 5.8mb
Z 20s 9.20um 5.4Msz
N 16s 2.50um
E 16s 9.70um
sP 30 09.00
S 34 48.00
sS 35 02.00
PcS 36 32.50
TTA 30.74 43 eP 29 54.10 0.2
SVW 30.82 47 ePc 29 55.00 0.5

0.9s 251.50nm 6.0mb
e 30 07.00
e 30 52.20
HHC 31.03 272 Pc 29 56.50 -0.1
1.2s 310.00nm 6.0mb
Z 20s 16.80um 5.7Msz
N 13s 4.10um
E 14s 6.70um
sP 30 14.00
S 34 56.00
NJ2 31.24 252 Pd 29 58.70 0.3
1.2s 300.00nm 6.0mb
Z 17s 7.30um 5.4MszX
N 13s 5.90um
E 14s 5.90um
iS 34 59.00
PDB 31.54 49 P 30 00.00 -0.7
TIY 32.04 267 Pd 30 05.50 0.0
1.0s 200.00nm 5.9mb
Z 22s 11.70um 5.5Msz
N 14s 5.20um
sP 30 23.00
S 35 14.00
IMA 32.10 37 eP 30 05.60 -0.2
0.8s 297.10nm 6.2mb
BTO 32.18 273 P 30 06.00 -0.7
N 16s 4.70um
E 16s 10.90um
sP 30 20.50
BRW 32.24 27 eP 30 07.10 0.4
PMR 33.94 46 ePc 30 20.90 -0.7
1.1s 361.50nm 6.2mb
e 32 59.00
COL 34.46 40 ePc 30 26.37 0.3
epPd 30 37.46 40kmX
ePP 31 48.31
ePcP 32 35.21
eS 35 52.82
esS 36 12.96
FBA 34.46 40 iPc 30 26.70 0.6
ANP 34.54 240 eP 30 24.00 -3.3X
TATO 34.72 240 eP 30 29.86 1.1
WHN 35.12 254 Pc 30 32.00 0.0
1.5s 800.00nm 6.4mb
Z 20s 3.80um 5.1Msz
N 19s 9.80um
E 18s 7.20um
pP 30 47.00 59kmX
PcP 33 03.50
TOA 35.30 45 eP 30 34.30 0.9
KLU 35.48 46 P 30 34.90 -0.1
MID 35.54 49 e(P) 30 35.80 0.5
OZH 36.45 243 Pd 30 44.00 0.7
4.0s 3000.00nm 6.6mb X
Z 29s 7.30um 5.3MszX
N 20s 7.30um
pP 30 59.00 58kmX
S 36 21.00
XAN 36.48 264 Pc 30 42.80 -0.8
1.5s 400.00nm 6.1mb
N 14s 5.90um
E 18s 8.20um
PcP 33 07.50
S 36 16.50
SS 38 46.00
LZH 38.68 271 ePc 31 02.63 0.4
1.5s 590.00nm 6.2mb
Z 25s 7.01um 5.4MszX
pP 31 16.00 51kmX
e 33 51.47
eS 36 51.16
sS 37 09.00
ScS 41 10.00
GTA 39.56 278 iPc 31 09.80 0.3
1.2s 80.00nm 5.4mb
Z 16s 25.10um 6.1MszX
E 16s 14.40um
pP 31 24.00 55kmX
PP 32 44.20
PcP 33 16.40
S 37 04.00
SS 40 00.00
ScS 41 13.00
INK 39.93 33 eP 31 12.00 0.1
pP 32 45.00 510kmX
GZH 41.01 247 iPd 31 22.00 0.7
Z 16s 9.80um 5.8MszX

N 15s 5.80um
E 15s 3.70um
pP 31 37.00 58kmX
PP 33 00.00
S 37 30.00
SIT 41.76 51 eP 31 29.90 2.8X
1.7s 1024.90nm 6.3mb
CD2 41.84 264 Pc 31 28.00 -0.1
1.2s 800.00nm 6.3mb
Z 21s 15.50um 5.9Msz
E 15s 4.50um
sP 31 45.00
S 37 40.00
BAG 42.09 233 eP 31 30.00 -0.4
1.2s 278.13nm 5.9mb
eS 37 44.00
GYA 42.85 257 iPc 31 36.60 0.0
1.4s 1100.00nm 6.4mb
Z 32s 3.10um 5.0MszX
N 15s 2.40um
E 15s 2.40um
pP 31 53.00 65kmX
sP 31 58.00
PP 33 20.00
PcP 33 28.00
ScP 37 12.00
PcS 37 19.00
S 37 56.00
MBC 42.89 21 eP 31 37.00 0.9
1.0s 326.00nm 6.0mb
WMQ 45.16 290 ePc 31 54.92 0.0
1.5s 100.00nm 5.5mb
Z 18s 13.10um 5.9Msz
esPd 32 09.65
e 33 35.12
PP 33 46.00
PcS 37 24.00
sS 38 50.00
OIZ 46.20 247 iPc 32 05.00 1.7
1.5s 500.00nm 6.2mb
N 16s 3.90um
E 15s 3.30um
pP 32 19.50 55kmX
KMI 46.33 259 ePc 32 04.62 0.0
1.0s 710.00nm 6.6mb
Z 20s 5.10um 5.5Msz
esPd 32 20.51
eS 38 46.47
DAV 47.74 220 eP 32 16.00 0.6
1.7s 923.08nm 6.5mb
YKA 49.22 38 eP 32 26.70 0.3
1.0s 427.10nm 6.4mb
LSA 51.02 273 eP 32 42.60 1.5
Z 26s 14.00um 5.9MszX
N 15s 1.70um
pP 32 51.00 28kmX
sP 32 55.00
S 39 56.00
sS 40 08.50
SS 43 22.00
KBS 51.13 351 eP 32 39.50 -1.3
PGC 51.91 57 eP 32 47.00 -0.1
1.2s 150.00nm 5.9mb
MCW 52.24 56 P 32 50.00 0.4
pP 33 04.00 52kmX
LOE 52.51 253 eP 32 51.00 -0.9
GMW 52.89 57 P 32 54.70 0.2
SHL 53.24 268 iP 32 56.20 -1.3
eS 40 32.00
BMW 53.24 59 P 32 57.10 0.0
CHG 53.27 257 iPc 32 54.90 -2.6
0.9s 195.38nm 6.1mb
eS 40 30.00
CHTO 53.27 257 ePc 32 57.15 -0.4
RMW 53.49 57 P 32 59.50 0.6
PNT 53.65 54 ePc 32 59.00 -1.0
1.0s 362.00nm 6.3mb
pP 33 12.00 47kmX
TSM 53.72 227 ePd 33 03.00 2.2
0.2s 151.80nm 6.7mb
LON 53.89 58 ePc 33 01.42 -0.4
epPd 33 12.67 39kmX
SHW 53.97 59 P 33 04.00 1.5
COR 54.27 61 ePc 33 05.89 1.3
ipPd 33 16.65 36kmX
eS 40 36.48
BDT 54.38 255 eP 33 04.50 -1.1

16d 01h

	1.0s	75.90nm			5.7mb						i	42	10.00			HYA	67.94	344	iP	34	37.05	0.3
EDM	54.68	47	ePc	33	07.00	-0.5					i	44	05.00			SUE	68.29	345	iP	34	39.40	0.4
NST	54.81	253	eP	33	10.00	1.2	PRI	61.06	67	eP	33	52.70	0.1			KONO	68.66	342	ePc	34	42.35	1.0
KSH	54.87	292	P	33	10.00	0.7	FRI	61.09	66	eP	33	51.80	-0.9			ASK	68.75	344	eP	34	42.17	0.3
E	16s	17.50um								epP	34	05.10	47kmX			BER	68.82	344	iP	34	42.99	0.7
VGB	55.19	59	P	33	11.40	0.0	BONR	61.32	64	P	33	54.60	-0.1			ODD1	69.02	343	eP	34	44.10	0.5
NEW	55.61	54	P	33	13.50	-0.9	PTI	61.57	57	P	33	57.10	0.9			QIS	69.77	195	iPd	34	47.10	-1.4
	1.0s	250.00nm			6.2mb		IMW	61.69	55	P	33	52.20	-4.9X						i	35	00.00	
GUN	55.69	275	P	33	14.76	-0.8	TNP	61.89	63	iPc	33	57.90	-0.5			POO	70.13	276	iPc	34	49.80	-1.1
FHC	56.11	65	eP	33	19.50	1.5		1.0s		0.16nm			3.1mb X				1.2s	656.25nm				6.5mb
			epP	33	31.20	40kmX	BCH	62.04	68	P	33	58.50	-0.8			WB2	70.22	200	iPc	34	49.80	-1.5
KKN	56.17	275	P	33	18.98	0.1				pP	34	12.10	49kmX			ANMO	70.35	59	ePc	34	52.76	0.5
KEV	56.19	341	eP	33	16.00	-2.2	KAF	62.41	335	iP	33	59.40	-1.8						epPd	35	04.68	40kmX
	0.7s	16.00nm			5.2mb X			0.4s		24.90nm			5.7mb			ALQ	70.35	59	ePc	34	52.00	-0.3
Z	20s	7.10um			5.8Msz		SYP	62.54	68	eP	34	03.00	0.4				1.0s	180.00nm			6.0mb	
			i	33	28.00					e	34	15.00				Z	22s	3.07um			5.5Msz	
			i	34	12.00		ISA	62.71	66	ePc	34	02.16	-1.5						i	35	04.00	
			e	36	50.00					epPd	34	14.24	41kmX			BOM	70.56	277	iP	34	53.50	0.0
			LR	02	12.00		SBC	62.76	68	ePc	34	03.94	0.1						iS	44	03.50	
PKI	56.23	275	P	33	18.54	-0.9				epPd	34	15.86	41kmX			DZM	70.85	168	iPd	34	55.60	0.4
DMN	56.40	275	P	33	21.06	0.4	IPM	62.80	244	ePd	34	04.70	0.3			GBA	71.26	270	P	34	56.00	-1.8
GKN	56.46	276	P	33	19.98	-0.9		1.3s	253.70nm				6.2mb			SCH	71.62	24	ePc	34	59.10	-0.3
KHT	56.46	254	iPc	33	20.90	0.2	DUG	63.08	59	P	34	05.20	-0.9				0.9s	204.00nm			6.1mb	
LBFM	57.03	63	P	33	25.10	0.2	CLC	63.15	66	eP	34	06.00	-0.5			TAB	72.91	308	eP	35	09.00	1.5
WDC	57.11	64	eP	33	24.10	-1.1				e	34	19.00				KOD	73.69	267	eP	35	12.50	0.0
			epP	33	37.30	47kmX	BW06	63.19	55	ePc	34	07.00	0.0			EDU	73.86	347	ePd	35	11.70	-0.8
SVO	57.37	174	eP	33	26.00	-1.1	FRB	63.34	20	ePc	34	05.50	-1.8			ASPA	73.91	199	iPd	35	13.00	-0.1
NNT	57.38	251	iPc	33	28.70	1.4		1.0s	782.00nm				6.8mb				1.5s	179.10nm			5.8mb	
SES	57.51	49	ePc	33	27.30	-0.6	KLM	63.61	242	eP	34	10.00	0.3			Z	23s	3.70um			5.6MszX	
	0.8s	206.00nm			6.2mb		SBB	63.76	67	eP	34	10.00	-0.6						eS	44	07.90	
			pP	33	40.00	45kmX				e	34	24.00				ELO	74.03	348	ePd	35	12.90	-0.6
LTCM	57.59	64	P	33	28.60	0.1	NSS	63.76	343	eP	34	09.17	-0.9				1.3s	777.00nm			6.5mb	
KTK1	57.60	341	iP	33	27.11	-1.1	DAU	63.82	58	P	34	11.80	0.5			EBH	74.22	347	ePd	35	14.20	-0.4
HNR	57.66	173	eP	33	29.00	-0.1	PAS	63.90	67	eP	34	09.00	-2.5			IAS	74.25	325	ePd	35	16.00	1.1
			eS	41	21.00					epP	34	23.00	50kmX			BRL	74.29	336	iPc	35	16.00	1.0
PMG	57.77	188	eP	33	29.00	-0.9				eS	42	36.00				BRN	74.36	336	iPc	35	16.70	1.3
MIN	57.82	64	eP	33	30.00	-0.3				eScS	43	45.00				EAB	74.40	348	ePd	35	15.20	-0.4
			epP	33	41.70	40kmX				eSS	47	14.00					1.4s	630.00nm			6.4mb	
TRO	57.97	343	eP	33	31.00	0.2				eSSS	50	11.00				ESY	74.41	347	ePd	35	15.10	-0.6
SOD	58.13	339	iP	33	30.10	-1.9				eLg	50	16.00				EDI	74.49	347	ePd	35	15.40	-0.7
			i	34	11.80					eLR	53	06.00				RMQ	74.58	185	iPc	35	16.80	-0.1
ORV	58.37	65	eP	33	32.80	-1.2	MWC	63.92	67	eP	34	11.00	-0.8				1.5s	738.00nm			6.4mb	
			epP	33	44.00	38kmX				e	34	24.00				KSP	74.91	334	ePc	35	18.00	-0.6
ZSP	58.92	66	eP	33	38.00	0.1	GSC	63.97	66	ePc	34	11.41	-0.6				1.2s	419.00nm			6.3mb	
			epP	33	50.60	44kmX				epPd	34	23.16	40kmX						ic	35	19.10	
BRK	58.97	67	eP	33	38.50	0.3				eS	42	44.41				EKA	75.05	347	Pc	35	18.80	-0.6
			epP	33	49.50	37kmX	NUR	64.18	335	iP	34	11.30	-1.6				0.6s	169.60nm			6.2mb	
BKS	58.98	67	iPd	33	38.00	-0.3		0.5s		46.30nm			5.8mb			QLP	75.05	189	iPd	35	19.70	0.1
	1.2s	250.00nm			6.2mb		Z	22s		5.60um			5.7Msz				1.2s	1500.00nm			6.8mb	
Z	20s	2.70um			5.4Msz					i	34	24.00				ESK	75.08	347	ePd	35	19.40	-0.1
N	20s	2.90um								i	34	48.00					1.0s	360.00nm			6.3mb	
E	20s	1.40um								e	38	36.00				SPC	75.14	331	eP	35	20.00	-0.2
			ipP	33	49.50	39kmX				e	42	40.00					1.8s	808.00nm			6.4mb	
			i	34	26.50					LR	04	04.00				KER	75.27	305	eP	35	22.00	0.8
			iS	41	40.00		RVR	64.50	67	eP	34	14.00	-1.3			BRS	75.32	181	iPc-	35	21.50	0.3
			eSS	45	40.00					e	34	27.00							i	35	34.00	
			eLQ	48	00.00		PEC	64.70	67	P	34	16.00	-0.7						eS	45	00.00	
			eLR	50	20.00		RSSD	65.22	51	iPc	34	20.00	-0.2			BMR	75.34	328	ePc	35	23.00	1.9
FFC	59.05	41	iPc	33	37.90	-0.6		1.1s		0.31nm			3.3mb X			CLL	75.42	336	iP	35	21.20	-0.3
	1.2s	830.00nm			6.7mb		TPC	65.23	66	eP	34	19.00	-1.2				1.4s	700.00nm			6.4mb	
PCC	59.13	67	eP	33	39.50	0.2				e	34	32.00				Z	21s	4.50um			5.7Msz	
LRM	59.63	54	ePc	33	42.40	-0.6	PLM	65.24	67	eP	34	20.00	-0.4						eS	44	55.00	
			e	33	55.40					e	34	33.00							P'P'	02	43.00	
GCC	59.66	67	eP	33	42.50	-0.5	CPE	65.42	68	eP	34	22.40	1.2			BRG	75.55	335	iP	35	21.60	-0.7
			epP	33	53.50	37kmX	RGS	65.42	343	eP	34	21.00	0.2				1.4s	360.00nm			6.2mb	
MHC	59.68	67	eP	33	42.50	-0.8	BAR	65.82	68	eP	34	23.00	-0.9			Z	18s	2.50um			5.6Msz	
			epP	33	55.80	48kmX				e	34	37.00				N	18s	4.00um				
ARN	59.75	67	P	33	43.20	-0.4	IKP	66.19	67	eP	34	27.50	1.2			E	18s	2.50um				
			pP	33	56.30	47kmX	AKU	66.23	357	iPc	34	26.90	1.0						i	35	29.00	
CMB	60.01	65	ePc	33	44.83	-0.6		1.1s	313.92nm				6.3mb						i	39	04.00	
			ipPd	33	56.75	41kmX	UPP	66.61	338	iP	34	27.10	-1.4						e	40	16.00	
SAO	60.17	67	eP	33	46.50	0.0				i	34	38.00							eS	44	52.00	
JNW	60.37	354	eP	33	48.50	1.2	GLA	66.70	66	eP	34	29.00	-0.5			WIT	75.60	340	eP	35	22.00	-0.5
PRS	60.50	67	eP	33	47.70	-1.0				e	34	42.00				VRI	75.67	325	iPc	35	24.70	1.6
			epP	34	00.20	44kmX	NB2	67.05	342	P	34	29.50	-1.9			CEI	75.69	329	eP	35	27.00	3.9X
LLA	60.58	67	eP	33	48.50	-0.8		0.7s		60.40nm			5.8mb			CFR	75.69	324	eP	35	24.20	1.0
			epP	34	01.20	45kmX	GOL	67.59	55	P	34	35.00	-0.4			MBL	75.70	213	eP	35	23.30	-0.1
HPI	60.62	56	P	33	50.50	0.7		1.1s		80.13nm			5.7mb				0.7s	66.00nm			5.7mb	
KVN	60.73	63	P	33	50.40	-0.1		Z	20s	2.50um			5.4Msz			CVO	75.92	325	iPc	35	26.20	1.6
NDI	60.91	281	iPc	33	51.00	-0.6	GLD	67.64	55	ePd	34	36.30	0.7			PRU	76.18	335	Pc	35	25.80	-0.1
	1.1s	177.22nm			6.1mb			1.0s		0.18nm			3.1mb X				1.3s	379.10nm			6.2mb	
			eS	42	02.00			Z	20s	3.00um			5.5Msz				Z	16s	7.20um			6.1MszX
SNG	61.01	246	eP	33	53.40	1.1	KNA	67.68	207	eP	34	35.00	-0.7				N	24s	4.70um			
	1.5s	583.33nm			6.5mb		HYB	67.78	271	iPc	34	35.50	-1.0				E	20s	6.50um			
			e	03	01.00			1.0s		280.00nm			6.3mb						e	35	38.00	
GDH	61.01	11	iPc	33	50.50	-1.2				eS	43	30.00							e	36	13.00	
	1.2s	406.25nm			6.4mb		REY	67.90	358	iPd	34	37.90	1.4						eS	45	04.00	

16d 01h

CCM		76.20	48	ePc	35	25.92	-0.3			1.1s	123.00nm		5.8mb		IVA		80.76	328	iPd	35	51.13	0.0
				epPd	35	38.17	41kmX	ECP		78.58	348	eP	35	38.90	-0.2	VDL		80.77	336	ePc	35	51.80	0.5
				eS	45	06.32				1.2s	1139.00nm		6.7mb		KHL		80.82	319	iP	35	50.80	-0.7
				esS	45	27.56		DOU		78.61	341	Pd+	35	39.00	-0.3	RSCP		80.90	46	P	35	52.00	0.1
MLR		76.29	325	iPc	35	28.00	1.3					S	45	31.00				1.0s	406.72nm			6.4mb	
WTS		76.33	340	iPc	35	25.10	-1.6	NANU		78.61	216	eP	35	39.80	0.3	SRS		80.91	325	ePd	35	51.12	-0.7
		1.2s	751.00nm			6.6mb		HRT		78.69	320	iP	35	38.40	-1.6	EZN		80.92	322	iP	35	51.90	0.1
				e	35	37.50		BHG		78.70	335	iPc	35	40.40	0.6	FLN		80.92	343	iPc	35	51.50	-0.2
PSZ		76.36	330	iP	35	27.30	0.3			1.5s	845.00nm		6.5mb					1.2s	697.30nm			6.5mb	
ISR		76.36	325	eP	35	29.00	2.0	ITU		78.73	321	iPc	35	40.00	-0.1		Z	20s	6.00um			5.9Msz	
MOX		76.39	337	iPd+	35	27.00	-0.1	FUR		78.74	336	eP	35	40.20	0.1	HRV		80.97	33	ePc	35	52.90	0.8
		1.6s	648.00nm			6.4mb				1.4s	1069.00nm		6.6mb						epPd	36	03.83	35kmX
	Z	20s	5.70um			5.9Msz			Z	19s	4.00um		5.8Msz						eS	45	59.78	
	N	34s	3.00um					ISK		78.75	321	iP	35	41.40	1.2					esS	46	19.10	
	E	32s	5.70um					GBZT		78.81	321	eP	35	40.60	0.1	PVY		80.98	328	iPc	35	52.61	0.3
DBN		76.60	341	eP	35	27.00	-1.1	HBVT		78.81	33	P	35	40.20	-0.3	SKO		80.99	326	iP	35	51.80	-0.4
	Z	20s	2.50um			5.5Msz		GPA		78.85	320	iP	35	41.00	0.1			1.4s	918.00nm			6.6mb	
				eS	45	13.00		MZX		78.89	68	iP	35	42.10	0.9		Z	22s	6.39um			5.9Msz	
				eSS	50	20.00		GWF		78.95	338	P	35	41.02	-0.2		N	22s	5.89um				
ELF		76.60	38	P	35	27.70	-0.7	KBA		79.14	334	iPc	35	42.80	0.3		E	22s	5.31um				
HOF		76.62	336	eP	35	29.30	0.9			0.9s	308.00nm		6.3mb							i	35	52.50	
		1.4s	569.00nm			6.4mb						ic	35	44.00						iS	45	58.00	
FVM		76.66	47	P	35	28.10	-0.7					i	35	58.10						iPS	47	06.50	
		1.0s	250.00nm			6.2mb						i	36	00.80						i	48	19.00	
				pP	35	41.50	46kmX	BNH		79.26	31	P	35	43.70	0.8					iSS	51	38.00	
DLA		76.77	39	P	35	29.30	0.0					pP	35	56.10	42kmX	LDF		81.01	343	iPc	35	51.90	-0.3
TNR		76.78	327	ePc	35	30.00	0.7	STR		79.28	338	P	35	43.12	0.2	BCK		81.07	318	iP	35	52.40	-0.4
GAC		76.79	33	ePc	35	29.00	-0.3	VAL		79.30	350	iP	35	43.70	0.7	VAY		81.13	325	iPc	35	53.00	0.1
		1.0s	229.00nm			6.1mb						S	45	30.00				1.3s	923.00nm			6.6mb	
				pP	35	42.10	45kmX	DIM		79.36	324	iPc	35	44.00	0.5					i	36	04.00	
CMP		76.82	326	iPd	35	37.00	7.4X	PTJ		79.41	332	iPc	35	42.50	-1.3	NKY		81.13	328	iPd	35	52.20	-0.9
SRO		76.96	331	iPd	35	30.60	0.4	WATA		79.42	335	iPc	35	44.00	0.1	KNT		81.14	325	ePc	35	52.72	-0.3
ZST		77.01	332	eP	35	30.50	0.0			1.3s	1402.00nm		6.8mb			TBR		81.17	35	P	35	53.50	0.4
BUD		77.02	331	iP	35	31.20	0.6					i	35	57.90		PMO		81.21	124	iP	35	53.90	0.4
DEV		77.08	327	iPd	35	33.00	2.1	MIM		79.43	30	P	35	44.50	0.7			1.2s	105.00nm			5.7mb	
VKA		77.19	333	eP	35	31.50	0.0					pP	35	57.20	43kmX	BRY		81.21	329	iPd	35	52.48	-1.0
		1.7s	761.00nm			6.5mb		WTTA		79.47	335	iPc	35	44.50	0.3	SAL		81.29	335	Pc	35	54.10	0.4
	Z	20s	3.70um			5.7Msz				1.1s	1291.00nm		6.8mb			TPT		81.34	124	iP	35	54.60	0.3
				i	35	33.40		ZAG		79.47	332	eP	35	44.00	0.0			1.2s	125.00nm			5.8mb	
				i	36	13.00		WLS		79.54	338	P	35	44.16	-0.3	GRR		81.35	344	iPc	35	54.00	0.0
				i	36	44.10		MOTA		79.54	336	iPc	35	44.60	0.0	MDI		81.36	336	Pc	35	52.80	-1.2
				e	39	28.00				1.2s	1416.00nm		6.8mb			TTG		81.38	328	iPc	35	53.35	-0.8
				e	41	23.00						i	35	56.20		PNJ		81.39	35	iP	35	55.00	0.7
				LR	15	30.00		CDF		79.56	338	P	35	44.34	-0.3					SS	50	55.10	
BNS		77.21	339	ePd	35	31.60	0.0	SOTA		79.62	335	iPc	35	45.10	0.1	GMTN		81.40	35	iP	35	55.30	1.0
		1.3s	552.00nm			6.4mb				1.2s	1070.00nm		6.7mb			PRK		81.43	322	eP	35	54.00	-0.5
	Z	22s	6.50um			5.9MszX						i	35	58.20		LOR		81.44	340	eP	35	54.30	-0.2
KHC		77.22	335	iPc	35	31.80	0.0	PLD		79.64	324	iPc	35	45.00	0.0			1.1s	763.10nm			6.6mb	
		1.3s	512.00nm			6.4mb		KDZ		79.74	324	iP	35	47.00	1.4		Z	22s	10.25um			6.1Msz	
	Z	20s	5.90um			5.9Msz		FVI		79.75	334	Pc	35	45.30	-0.2	GBTN		81.49	45	P	35	55.00	0.1
	N	20s	4.30um					CMS		79.76	187	ePd	35	46.00	0.4	FAM		81.50	314	e(P)	35	55.50	0.6
	E	20s	4.00um					ECH		79.77	338	P	35	45.27	-0.4	GRG		81.51	325	ePc	35	53.68	-1.3
				S	45	18.00		EDC		79.85	321	iP	35	41.50	-4.7X	VAI		81.53	336	Pc	35	54.60	-0.3
GRF		77.36	336	ePc	35	32.80	0.3	SLE		79.85	337	ePd	35	46.30	0.2	VAH		81.54	124	iP	35	55.70	0.4
		1.0s	704.00nm			6.6mb		FEL		79.87	338	P	35	45.79	-0.5			1.2s	95.00nm			5.7mb	
	Z	21s	6.00um			5.9Msz		ALT		79.96	319	iP	35	47.50	0.6	THE		81.57	325	ePc	35	54.12	-1.1
				e	35	45.00		RZN		79.99	324	iPc	35	47.00	-0.1	MMK		81.57	337	ePd	35	56.40	0.9
				e	36	13.70						e	36	40.00		BHL		81.58	312	P	35	55.00	-0.5
WET		77.41	335	eP	35	33.00	0.2	OGA		80.00	335	iPc	35	47.60	0.5					S	46	02.00	
	Z	20s	7.00um			6.0Msz		SCP		80.02	38	ePc	35	46.39	-0.7	HCY		81.63	329	iPc	35	55.05	-0.4
TNS		77.59	338	ePc	35	33.40	-0.4					epPd	35	58.47	40kmX	RUV		81.64	124	iP	35	56.10	0.3
DRA		77.61	326	eP	35	35.00	1.1	BLY		80.04	331	eP	35	47.50	0.4			1.2s	125.00nm			5.8mb	
ENN		77.68	340	iPc	35	34.40	0.2	VITF		80.05	339	P	35	47.06	0.0	BDV		81.66	328	iPc	35	53.43	-2.2
		1.2s	1121.00nm			6.8mb		SAX		80.10	337	ePc	35	47.90	0.1	HVAR		81.68	330	iP	35	54.60	-1.1
BZS		77.77	328	ePd	35	38.00	3.3X	MOF		80.11	338	P	35	47.14	-0.5	LBF		81.68	340	eP	35	55.60	-0.2
ELC		77.79	47	P	35	35.00	0.0	ALN		80.13	323	ePc	35	47.80	0.2	DIX		81.69	337	ePc	35	56.80	0.7
				pP	35	48.00	44kmX	ZLA		80.14	337	ePd	35	48.00	0.3	NAV		81.69	41	P	35	55.80	-0.2
MEM		77.81	340	Pc	35	34.60	-0.2	DST		80.14	320	iP	35	47.60	-0.2	SSF		81.71	340	eP	35	55.90	0.0
CLE		77.92	39	iP	35	36.60	1.0	HAU		80.16	339	iPc	35	47.30	-0.5	LPF		81.73	344	iPc	35	56.00	0.1
UZD		77.95	331	iP	35	36.00	0.3			1.2s	511.35nm		6.4mb			IZM		81.73	321	iP	35	56.40	0.2
UCC		78.00	341	Pd+	35	36.10	0.2		Z	22s	11.25um		6.2Msz			ULC		81.79	328	iPc	35	56.11	-0.3
				S	45	26.00		PWLA		80.19	48	P	35	47.50	-0.6	EMS		81.82	338	ePd	35	57.40	0.7
KMR		78.03	334	iP+	35	37.20	1.0	BSF		80.22	338	iPc	35	47.50	-0.7	CSS		81.85	315	eP	35	56.50	-0.3
				i	36	02.30		TRI		80.26	333	iPc	35	47.80	-0.4	PAIG		81.90	324	iPc	35	55.56	-1.4
				i	36	15.20						ePP	41	04.00		BLA		81.94	41	ePc	35	57.80	0.5
ETA		78.06	348	eP	35	36.20	0.0					eS	46	27.00				1.0s	0.05nm			2.5mb	X
OLY		78.07	50	P	35	35.50	-1.1					eSS	51	50.00		ELL		81.96	318	iP	35	56.90	-0.6
RSNY		78.12	33	ePc	35	36.50	-0.2					eSSS	55	08.00		ORX		81.96	337	P	35	56.95	-0.4
ABH		78.12	339	eP	35	36.08	-0.6	BBS		80.38	338	P	35	48.84	-0.1	ORO		81.97	337	Pc	35	57.30	-0.1
WARB		78.16	205	iPc	35	37.70	0.6	EMM		80.38	29	P	35	49.60	0.7	OHR		81.97	326	iPc	35	56.80	-0.6
		0.6s	91.00nm			6.0mb						pP	36	02.30	43kmX			1.0s	424.00nm			6.4mb	
CBM		78.23	28	P	35	37.20	0.0	RIY		80.40	333	eP	35	48.10	-0.9					i	36	07.20	
SNF		78.29	341	iPd	35	37.78	0.3	OSS		80.41	336	ePd	35	49.80	0.5					i	36	09.90	
WVLY		78.33	37	P	35	37.80	-0.1	PLE		80.54	328	iPd	35	50.26	0.3	AVF		82.00	340	iPc	35	57.40	0.0
				pP	35	50.40	43kmX	LLS		80.55	337	ePd	35	50.50	0.4	SMF		82.03	340	iPc	35	57.60	0.0
PVL		78.45	325	iPd	35	38.00	-0.5	CTI		80.57	335	Pc	35	48.90	-1.2	HRI		82.05	312	eP	35	58.00	0.0
COO		78.52	182	ePd	35	39.00	0.1	LOMF		80.66	338	P	35	50.54	0.1	CVL		82.15	39	P	35	58.00	-0.3

16d 01h

FORR	82.19	203	eP	35	58.70	0.3	JSC	84.01	43	P	36	07.80	-0.1				ePS	48	35.00				
	0.4s	95.00nm			6.2mb		ADE	84.03	193	iPd	36	08.30	0.5				eSS	53	20.00				
LIT	82.21	325	ePd	35	57.12	-1.5		0.3s	259.74nm			6.8mb		EPLA	90.35	345	eP	36	38.00	-0.7			
AFR	82.26	127	iP	35	59.40	0.4	LHS	84.04	43	P	36	07.50	-0.6	KIW	90.60	165	eP	36	38.10	-1.3			
	1.2s	170.00nm			6.0mb		CAF	84.06	341	eP	36	08.90	0.8				e	36	51.30				
RSM	82.27	333	P	35	59.90	1.1	RMP	84.11	332	P	36	08.50	0.2	CAW	90.87	164	P	36	40.50	-0.1			
KZN	82.31	325	eP	35	58.10	-1.1	RDP	84.16	332	P	36	08.80	0.2	MRW	90.92	165	P	36	40.50	-0.3			
NA2	82.32	39	P	36	00.00	0.8	KAP	84.17	319	eP	36	08.80	0.1	WEL	90.99	165	P	36	40.70	-0.4			
BGF	82.34	341	eP	35	59.20	0.0	RFI	84.17	331	P	36	10.30	1.8		1.5s	137.78nm				6.1mb			
LSD	82.34	337	P	36	00.02	0.5	FRF	84.24	337	eP	36	09.00	0.1	MTW	91.00	164	P	36	40.90	-0.3			
YER	82.35	319	iP	36	00.20	0.7	LFF	84.33	341	eP	36	10.00	0.6				e	36	52.10				
BOB	82.36	336	P	36	00.60	1.2	CDR	84.36	338	ePd	36	10.30	0.8	TAU	91.00	185	eP	36	43.00	1.9			
PPCY	82.38	315	eP	35	59.00	-0.5	SGO	84.40	330	P	36	09.60	-0.1	WDW	91.01	165	P	36	41.10	-0.1			
LPL	82.39	338	iPc	36	00.40	0.7	LRG	84.41	337	eP	36	10.00	0.3	EVIA	91.06	342	eP	36	42.00	0.0			
PPT	82.40	127	iP	35	59.90	0.2		1.2s	976.25nm			6.8mb		MOW	91.20	164	P	36	41.30	-0.8			
	1.2s	215.00nm			6.1mb		Z	22s	5.25um			5.9Msz		AKSR	91.25	308	iPd	36	42.50	-0.4			
LPG	82.40	338	iPc	36	00.60	0.7	MRWA	84.44	213	eP	36	10.00	0.1	AAHD	91.30	309	iPd	36	43.50	0.3			
	1.2s	1046.00nm			6.8mb		ORI	84.45	329	P	36	11.20	1.1	AKRL	91.39	309	iPd	36	43.40	-0.2			
PPN	82.44	127	iP	36	00.10	0.1	LPO	84.48	341	eP	36	10.70	0.6	AGAL	91.52	308	iPd	36	45.00	0.8			
	1.2s	105.00nm			5.8mb		LMR	84.48	337	eP	36	10.40	0.3	AGMR	91.58	309	iPd	36	45.00	0.5			
SFI	82.45	334	P	36	01.00	1.3	PGF	84.54	335	P	36	10.58	0.0	EBAN	91.77	343	eP	36	45.50	0.3			
SHMJ	82.47	312	P	36	01.80	1.7	VLS	84.61	325	eP	36	10.20	-0.7	EHOR	92.38	344	eP	36	48.00	0.0			
PAE	82.47	127	iP	36	00.20	0.1	MGR	84.69	330	P	36	11.20	0.0	ECOG	92.58	343	eP	36	48.00	-1.1			
	1.2s	100.00nm			5.7mb		MRX	84.72	66	iP	36	13.70	2.0	AFC	92.60	342	eP	36	49.00	-0.2			
SMG	82.49	321	eP	36	00.00	-0.1	TDS	84.85	329	P	36	12.20	0.2	EVAL	92.88	345	eP	36	50.00	-0.3			
ARV	82.51	333	P	36	00.44	0.3	VLI	84.95	323	eP	36	10.50	-2.1	MAL	93.28	343	iPd	36	52.00	-0.1			
	1.5s	690.30nm			6.5mb		NPS	85.09	320	eP	36	12.10	-1.2				iPP	40	36.00				
PGD	82.53	334	P	36	02.20	1.8	MBH	85.30	311	eP	36	14.50	-0.1	LIJA	93.31	344	eP	36	52.50	0.1			
MME	82.54	335	Pc	36	01.50	1.0	AFIF	85.31	301	P	36	17.70	3.0X	GIBL	93.48	344	eP	36	52.50	-0.6			
RSP	82.59	337	P	36	00.84	0.2	AYN	85.45	309	P	36	16.70	1.5	EJIF	93.75	344	eP	36	54.90	0.6			
NEO	82.61	324	eP	35	59.40	-1.3	VAM	85.56	321	eP	36	15.00	-0.7	TPX	93.81	63	(P)	36	49.00	-5.8X			
KSL	82.63	318	eP	36	00.40	-0.4	GRI	85.58	328	P	36	16.47	0.7	MHZ	93.86	169	P	36	56.00	1.6			
BDI	82.69	335	Pc	36	01.20	0.1		1.2s	516.70nm			6.6mb					e	37	08.40				
CRE	82.69	333	Pc	36	00.90	-0.2	HQL	85.62	310	P	36	25.80	9.8X	CNIL	93.94	344	eP	36	56.00	0.8			
MAF	82.72	341	iPc	36	01.50	0.4	BFD	85.71	189	eP	36	16.50	0.4	TLC	93.97	170	eP	36	56.90	2.0			
TCF	82.73	341	eP	36	01.30	0.1	TOO	85.82	187	iPd	36	18.10	1.4				e	37	08.00				
TVO	82.75	127	iP	36	02.00	0.4		1.5s	454.00nm			6.5mb		PLAT	94.13	344	eP	36	57.00	0.9			
	1.2s	115.00nm			5.8mb		KLB	85.98	211	eP	36	17.50	0.0	IFR	96.53	343	iP	37	06.50	-0.9			
FIR	82.76	334	iPc	36	03.00	1.7	MLS	86.15	341	P	36	19.03	0.5	AVE	97.17	345	iP	37	10.50	0.5			
			iS	46	18.00		EPF	86.24	341	eP	36	19.00	0.0				i	37	25.00				
PCP	82.82	336	P	36	02.07	0.3		1.0s	78.15nm			5.9mb		TIO	99.46	344	eP	37	21.00	0.4			
BNI	82.84	338	Pc	36	02.60	0.6	BADA	86.25	310	P	36	20.70	1.5	BCAO	114.86	310	iPKPc	42	18.30	-0.6			
BURJ	82.84	311	P	36	04.20	2.1	BTH	86.27	342	P	36	20.00	0.9		0.8s	27.00nm							
RYD	82.85	299	P	36	03.00	0.8				PcP	36	24.00					id	42	31.00				
BHB	82.88	337	P	36	00.95	-1.1				pP	36	29.00	28kmX				ic	43	13.50				
LSF	82.91	341	eP	36	02.10	-0.1	ETER	86.36	339	eP	36	22.00	2.5	IKZ	118.42	288	iPKP	42	37.90	12.1X			
MFF	82.93	343	iPc	36	02.50	0.3	SOI	86.37	328	P	36	19.76	0.2				i	42	51.50				
RRL	82.93	337	P	36	03.10	0.5		1.1s	204.30nm			6.3mb		LKO	119.76	337	PKP	42	26.54	-1.6			
ASS	82.98	333	P	36	03.20	0.6	KOT	86.69	313	ePc	36	23.50	2.2	PTZ	122.32	286	ePKPc	42	32.00	-1.1			
CKI	83.00	336	P	36	01.90	-0.7	PPM	86.77	65	(P)	36	23.20	0.7		0.8s	32.90nm							
PII	83.02	334	P	36	02.40	-0.3	III	86.79	66	iP	36	22.50	0.3				i	42	56.90				
PYM	83.06	340	P	36	03.50	0.5	MUN	86.87	212	eP	36	22.00	0.1	TIC	122.38	335	PKP	42	31.92	-1.2			
SALJ	83.09	311	P	36	04.20	0.8	MNO	86.97	329	P	36	24.40	1.6	KIC	122.57	335	PKP	42	32.08	-1.4			
MDSJ	83.10	311	P	36	03.10	-0.4	HLW	86.99	313	ePc+	36	24.00	1.2	LIC	122.78	335	PKP	42	33.08	-0.8			
SSB	83.15	339	P	36	03.91	0.5				e	36	40.00			Z	21s	1.75um			5.7Msz			
DOI	83.20	337	Pc	36	01.90	-1.9				eS	46	46.00		NNA	124.30	67	iPKP	42	36.50	-0.4			
KFNJ	83.21	311	P	36	04.80	1.0	III	87.00	65	(P)	36	24.50	1.2		1.0s	26.00nm							
FIN	83.22	336	P	36	02.28	-1.5	ECRI	87.23	343	eP	36	24.70	0.9		Z	20s	0.18um			4.7Msz			
ROB	83.23	336	P	36	03.00	-0.9	TBI	87.23	130	eP	36	26.00	2.2	LSZ	125.11	288	iPKP	42	38.00	-0.5			
PZZ	83.24	337	P	36	02.59	-1.4		1.3s	150.00nm			6.1mb					e	42	51.00				
FOUF	83.30	337	ePc	36	04.60	0.5	WAJH	87.32	307	P	36	25.70	1.3				i	43	08.00				
JVI	83.32	312	eP	36	05.00	0.5	NWAO	87.38	211	eP	36	24.80	0.5	KMZ	125.21	291	iPKPd	42	38.80	0.1			
CNB	83.33	184	eP	36	05.00	0.8	Z	22s	0.70um			5.0Msz			0.7s	5.80nm							
AQU	83.40	332	P	36	05.60	0.8				e	47	17.00		VNDA	125.60	178	PKP	42	38.50	0.9			
ENR	83.41	337	P	36	03.00	-1.9	LVVM	87.56	63	eP	36	26.70	1.1	BUL	128.40	283	iPKPc	42	44.90	0.1			
STV	83.42	337	P	36	03.10	-1.8	ERC	87.58	331	P	36	25.90	0.3		1.0s	5.00nm							
BRT	83.47	329	P	36	05.00	-0.1	IISM	87.58	64	iP	36	25.80	0.0				ipP	42	58.00				
LBL	83.50	340	P	36	05.75	0.6	MEU	87.63	329	P	36	26.70	0.8				iPP	44	51.90				
EVR	83.50	325	eP	36	02.80	-2.6	PZI	87.70	329	P	36	26.70	0.5	ARE	131.02	66	ePKP	42	51.00	1.0			
ATH	83.56	323	eP	36	05.00	-0.6	ERUA	88.25	346	eP	36	28.80	0.1	SLR	132.53	278	iPKPc	42	51.00	-1.5			
KEK	83.57	326	eP	36	05.70	0.1	EBR	88.32	340	eP	36	28.00	-1.0		0.9s	116.00nm							
IMI	83.58	336	P	36	05.36	-0.3				eS	47	12.00		ZOBO	132.89	62	ePKP	42	54.14	0.2			
MNS	83.60	332	Pc	36	05.20	-0.6				ePPS	48	40.00					eHPP	45	21.13				
SAOF	83.60	337	P	36	05.27	-0.5	PUZ	88.56	161	P	36	28.90	-1.0				iPP	45	21.95				
AUTN	83.63	337	P	36	05.77	-0.4	ESEL	88.75	338	eP	36	33.00	1.9				eSKP	46	16.86				
PRM	83.66	44	P	36	06.50	0.4	ETOR	88.86	342	eP	36	32.00	0.2	CNCB	133.40	63	PKP	42	35.70	-19.2X			
TOUF	83.66	337	P	36	05.77	-0.5	GUD	89.44	344	eP	36	34.20	-0.4				i	42	55.80				
LCI	83.69	328	P	36	04.40	-1.7	OXX	89.44	65	iP	36	36.50	1.5	KSR	133.53	279	ePKP	42	41.50	-12.9X			
DUI	83.69	331	P	36	06.80	0.5	ECHE	89.82	341	eP	36	35.00	-1.2		1.3s	10.00nm							
AZI	83.72	332	Pc	36	06.40	0.1	SRAT	90.03	297	P	36	39.30	1.5				i	42	52.50				
SBF	83.75	337	eP	36	06.20	-0.3	KMTA	90.11	298	P	36	39.30	1.2	PRY	133.86	278	iPKPc	43	01.00	6.0X			
AURF	83.75	337	P	36	06.12	-0.5	DHJN	90.13	297	P	36	39.30	1.0		1.0s	80.00nm							
RJF	83.82	341	eP	36	07.30	0.5	TOL	90.16	344	ePc	36	37.78	0.0	SEK	134.69	276	ePKP	42	41.00	-15.5X			
Z	22s	5.25um			sz			1.1s	202.53nm			6.3mb			1.0s	180.00nm							
SDI	83.86	331	P	36	06.4	7				ePP	40	13.37					i	42	57.00				
REVF	83.88	337	P	36	07.2	0				eSKS	47	05.00		CCH	134.93	61	PKP	42	57.00	-0.4			
CALN	83.99	337	P	36	07.7	2				eS	47	45.00		SIV	136.68	54	PKP	42	45.40	-15.0X			

WIN	137.50	292	ePKP	42	50.00	-12.1X
SPA	138.08	180	iPKPc	42	50.10	-11.6X
	1.0s	45.00nm				
			i	45	51.90	
BAO	142.63	37	ePKPd	43	05.00	-6.3X
PDCR	142.65	22	ePKP	43	06.10	-5.1X
			e	43	10.70	
			e	43	22.40	
BDF	142.70	37	ePKP	43	06.69	-4.7X
BDF	142.70	37	ePKPc	43	11.65	0.2
			ePP	46	16.03	
			eHPP	46	16.53	
ROCH	142.92	83	ePKP	43	07.50	-4.0X
TACH	143.38	83	ePKP	43	08.50	-3.5X
CER	143.41	277	iPKPc	43	19.00	6.9X
	1.0s	40.00nm				
FCH	143.61	82	ePKP	43	09.00	-3.8X
BLE	144.16	277	iPKPd	43	11.00	-2.3
	1.0s	39.00nm				
ITB1	147.33	54	ePKP	43	20.50	1.7
ITB	147.54	54	ePKP	43	22.50	3.3X
ITB7	147.82	54	ePKP	43	32.10	12.5X
VAO	149.62	41	ePKP	43	22.90	0.3
			e	43	27.00	
			e	43	34.10	
			e	43	50.60	
JFO	149.98	34	ePKP	43	25.10	2.0
			e	43	29.60	
			e	43	35.20	
			e	43	53.60	
BMA	150.53	37	ePKPc	43	24.80	0.9
			e	43	30.10	
			e	43	37.40	
			e	43	41.90	
			e	43	55.30	
LPA	152.65	73	PKPc+	43	26.00	-0.5
	1.0s	224.00nm				
	Z 20s	0.71um			5.5Msz	
AIA	153.47	144	ePKP	43	34.50	7.8X
	S.D. = 0.9	on 558 of 591 obs.				

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* FEB 16, 1991 01h 23m 59.65± 0.96s
40.360 N ±10.4km 26.192 E ±10.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.2 (ISK).

EZN	0.54	169	ePg	24	10.40	-0.2
			eSg	25	18.90	
EDC	1.28	90	ePn	24	23.50	0.2
BNT	1.32	90	iPn	24	24.00	0.0
RZN	1.73	320	iPc	24	28.00	-2.2
			Sg	24	48.00	
DIM	1.76	344	eP	24	30.00	-0.3
			Sg	24	52.00	
DST	2.02	111	iPn	24	34.30	0.1
JMB	2.13	8	e(P)	24	39.00	3.4X
			(Sg)	25	06.00	
PGB	2.67	326	eP	24	39.00	-4.5X
			Sg	25	22.00	
VTS	3.16	316	iP	24	53.00	2.5
			iSg	25	37.00	
	S.D. = 1.7	on	7 of	9	obs.	

? FEB 16, 1991 01h 30m 36.83±18.86s
40.394 N ±76.1km 26.047 E ±141.km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

EZN	0.61	159	ePg	30	49.00	0.0
			iSg	30	57.90	
EDC	1.39	91	ePn	31	02.00	-0.2
BNT	1.43	91	ePn	31	03.00	0.2
DST	2.13	111	ePn	31	13.00	0.0
	S.D. = 0.3	on	4 of	4	obs.	

? FEB 16, 1991 01h 47m 31.91± 1.25s
48.084 N ±33.3km 154.531 E ±15.9km
DEPTH = 33.0km (normal)
4.3mb (2 obs.)
KURIL ISLANDS (221)

FBA	34.52	39	P	54	19.00	0.3
INK	40.01	33	eP	55	05.00	0.3
YKA	49.28	38	eP	56	18.70	-0.2
	0.8s	0.80nm			3.8mb	
GUN	55.84	275	P	57	08.60	-0.2
KKN	56.32	275	P	57	12.80	0.7
PKI	56.38	275	P	57	13.00	0.3
DMN	56.56	275	P	57	14.40	0.6
TNP	61.85	63	P	57	50.20	-0.1
HYB	67.93	272	eP	58	28.50	-1.1
CLL	75.64	336	iPd	59	14.20	-0.8
KBA	79.37	334	iPd	59	36.00	0.1
	0.7s	6.20nm			4.7mb	
			ic	59	36.30	
	S.D. = 0.6	on	11 of	11	obs.	

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* FEB 16, 1991 01h 59m 40.27± 0.71s
48.122 N ±15.4km 154.460 E ±10.7km
DEPTH = 33.0km (normal)
4.6mb (10 obs.)
KURIL ISLANDS (221)

CN2	20.56	269	eP	04	17.00	-1.6
TIY	32.12	267	eP	06	07.80	1.2
FBA	34.52	40	P	06	27.00	0.0
INK	40.00	33	eP	07	14.00	1.0
CD2	41.91	265	eP	07	28.20	-1.0
YKA	49.28	38	eP	08	27.20	-0.1
	0.6s	1.30nm			4.1mb	
GUN	55.79	275	P	09	15.80	-1.0
KKN	56.27	275	P	09	21.20	1.1
PKI	56.33	275	P	09	21.90	1.2
DMN	56.51	275	P	09	22.80	1.0
GKN	56.56	276	P	09	22.00	-0.1
TNP	61.87	63	P	09	58.00	-0.8
NB2	67.22	342	P	10	30.20	-2.7
	0.9s	2.50nm			4.3mb	
HYB	67.88	272	eP	10	37.50	-0.1
WRA	70.11	200	P	10	51.00	-0.1
	0.6s	1.20nm			4.1mb	
CLL	75.58	336	iP	11	22.80	-0.2
KBA	79.31	334	iPd	11	44.80	0.8
	0.8s	8.30nm			4.8mb	
CDF	79.72	338	eP	11	45.50	-0.5
HAU	80.33	339	eP	11	48.80	-0.4
	0.7s	3.30nm			4.4mb	
BSF	80.38	339	eP	11	49.20	-0.4
GRR	81.52	344	eP	11	55.60	0.2
LOR	81.60	340	eP	11	55.90	0.0
	0.6s	4.50nm			4.7mb	
SSF	81.88	340	eP	11	57.50	0.2
	0.8s	5.35nm			4.6mb	
AVF	82.17	340	eP	11	59.10	0.3
LPL	82.56	338	eP	12	01.80	0.6
	1.0s	11.00nm			4.9mb	
LPG	82.57	338	eP	12	02.00	0.7
	1.1s	17.10nm			5.0mb	
MAF	82.88	341	eP	12	03.20	0.6
	0.9s	12.30nm			5.0mb	
	S.D. = 0.9	on	27 of	27	obs.	

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* FEB 16, 1991 02h 06m 16.40± 0.99s
25.799 S ±11.1km 179.029 W ±18.6km
DEPTH = 400.0km (geophysicist)
4.7mb (3 obs.)
SOUTH OF FIJI ISLANDS (171)

HBZ	11.98	190	eP	09	00.50	1.9
PUZ	12.45	190	eP	09	03.30	-0.5
			eS	11	19.30	
WLZ	12.84	200	P	09	11.40	3.5X
NOZ	13.02	190	eP	09	09.20	-0.5
DZM	13.79	283	iPc	09	19.00	0.7
PGZ	15.29	194	eP	09	35.40	1.5
MTW	15.98	195	eP	09	40.20	-0.9
WDW	16.21	196	eP	09	42.30	-1.1
TCW	16.35	198	eP	09	43.40	-1.5
LTZ	18.39	201	eP	10	06.70	1.3
RMQ	28.89	261	iPc	11	42.80	0.5
	0.9s	98.00nm			5.1mb	
WRA	43.19	268	P	13	41.00	-0.5
	0.5s	9.70nm			4.4mb	
TNP	85.97	44	P	18	16.00	2.0
	1.0s	12.50nm			4.7mb	
UPP	144.05	346	iPKP	25	04.30	-1.5
NB2	144.08	352	PKP	25	04.60	-1.4
	0.8s	6.80nm				
CLL	152.92	343	iPKP	25	28.70	8.8X
	S.D. = 1.4	on	14 of	16	obs.	

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* FEB 16, 1991 02h 15m 14.42± 0.37s
49.447 S ± 9.2km 116.838 E ± 8.4km
DEPTH = 21.7km (5 depth phases)
5.0mb (7 obs.) 5.1Msz (1 obs.)
SOUTH OF AUSTRALIA (437)

NWAO	16.51	1	eP	19	07.60	1.5
	0.7s	33.00nm			4.6mb	
MUN	17.46	358	eP	19	19.40	1.4
ADE	21.61	56	eP	20	03.80	-1.1
	1.3s	176.92nm			5.3mb	
TAU	22.00	84	eP	20	10.00	1.4
BFD	22.24	66	eP	20	16.00	4.9X
TOO	23.78	71	eP	20	28.00	1.8
WARB	24.44	22	iPd	20	32.50	-0.1
	0.6s	13.00nm			4.7mb	
ASPA	29.01	34	eP	21	11.30	-3.5X
	1.9s	10.50nm			4.3mb	
	Z 20s	4.50um			5.1Msz	
WB2	32.60	32	eP	21	45.50	-1.0
RMQ	33.63	59	eP	21	55.00	-0.4
BRS	35.26	65	iPKP	22	10.00	0.6
IPM	55.53	341	ePc	24	49.00	-1.2
CHG	69.79	342	eP	26	24.20	-0.7
GBA	71.74	319	P	26	36.00	-0.8
BUL	73.84	258	eP	26	50.80	1.4
HYB	74.71	322	eP	26	55.00	0.9
KMI	75.29	347	Pc	26	58.60	1.0
			pP	27	05.50	22km
PTZ	76.41	264	iPc	27	04.30	0.2
			i	27	11.50	23km
LSZ	77.69	261	iPc	27	12.70	1.5
			i	27	19.20	21km
IKZ	78.58	268	eP	27	30.00	13.8X
KMZ	80.56	260	iP	27	29.00	2.2
			i	27	36.00	22km
CD2	80.84	349	P	27	28.00	0.3
PKI	81.63	332	P	27	31.64	-0.6
DMN	81.76	332	P	27	32.58	-0.3
GUN	81.80	333	P	27	33.24	0.0
KKN	81.87	332	P	27	32.52	-0.9
GKN	82.27	332	P	27	35.20	-0.2
	0.9s	46.00nm			5.5mb	
XAN	83.41	353	P	27	40.70	-0.3
LZH	85.94	349	eP	27	53.00	-0.8
	2.0s	54.00nm			5.4mb	
			pP	28	05.00	39kmX
TIY	86.87	357	eP	27	58.00	-0.1
BJI	89.11	359	eP	28	08.50	-0.2
GTA	89.75	347	eP	28	12.00	0.0
	1.1s	10.00nm			5.0mb	
			pP	28	18.60	21km
			sP	28	22.00	
CN2	93.17	6	eP	28	29.00	1.6
WMQ	96.32	339	eP	28	40.60	-1.4
IMA	133.58	34	PKP	34	31.00	1.4
KVN	140.11	84	PKP	34	42.80	0.0
TNP	140.15	86	PKP	34	43.50	0.6
INK	141.71	34	ePKP	34	39.00	-5.4X
MSU	143.67	89	PKP	34	47.50	-1.6
EKA	143.92	303	PKPc	34	46.30	-2.3
	1.5s	29.90nm				
PNT	143.99	68	ePKP	34	47.00	-2.0
DUG	144.17	86	PKP	34	48.60	-1.2
NEW	145.11	71	PKP	34	50.10	-0.9
DAU	145.30	86	PKP	34	52.60	0.7
ALQ	145.31	98	ePKPd	34	51.00	-0.9
	1.2s	39.06nm				
ANMO	145.31	98	PKP	34	52.60	0.7
MBC	145.34	20	ePKP	34	50.00	-0.5
	1.5s	78.00nm				
PV09	145.65	91	PKP	34	53.00	0.5
PTI	145.80	82	PKP	34	54.40	1.9
LRM	147.06	77	ePKP	34	54.60	0.1
BW06	147.58	84	PKP	34	56.60	1.2
GOL	148.76	92	PKP	35	02.20	4.7X
GLD	148.88	92	PKP	35	03.30	5.8X
YKA	149.31	45	ePKP	34	55.10	-2.1
	1.0s	10.60nm				
SES	149.58	70	ePKP	34	57.00	-1.1
	1.6s	173.00nm				
RSSD	151.77	85	PKP	35	01.50	-0.3
	S.D. = 1.1	on	50 of	56	obs.	

? FEB 16, 1991 03h 11m 38.36± 2.88s
3.871 S ±28.3km 130.214 E ±63.1km
DEPTH = 33.0km (normal)
4.2mb (3 obs.)

16d 03h

CERAM (272)

MTN	8.96	174	eP	13	49.00	0.4
	0.3s	130.00nm			6.6mb	X
			eS	15	31.00	
KNA	11.89	187	eP	14	29.00	0.4
			eS	16	43.00	
WB2	16.48	166	eP	15	24.00	-4.8X
			eS	18	22.00	
ASPA	20.00	170	eP	16	10.60	-0.6
	1.1s	40.30nm			4.7mb	
			eS	19	40.70	
WARB	22.45	188	eP	16	39.00	3.0X
	0.4s	3.00nm			4.1mb	
CHG	38.16	307	eP	18	58.00	1.3
CHTO	38.16	307	P	18	57.00	0.3
GBA	55.17	289	Pd	21	08.80	-1.7
	0.6s	1.40nm			4.2mb	

S.D. = 1.3 on 6 of 8 obs.

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* FEB 16, 1991 03h 26m 42.49± 0.78s
31.281 S ±10.0km 68.790 W ±11.8km
DEPTH = 100.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTCB	0.20	182	iPd	26	57.40	0.1
CFA	0.57	125	iPc	26	58.80	-0.3
			eS	27	11.10	
RTCV	0.62	160	e(P)	26	59.80	0.3
RTRS	1.25	332	iPc	27	06.00	0.0
FCH	2.40	212	ePd	27	26.50	5.2X
ROCH	2.53	228	iPd	27	23.00	0.1
TACH	2.98	217	iPc	27	28.50	-0.3
			iS	28	05.40	

S.D. = 0.3 on 6 of 7 obs.

FEB 16, 1991 03h 34m 32.62± 0.15s
1.863 N ± 3.3km 128.152 E ± 4.9km
DEPTH = 133.9km (3 depth phases)
5.6mb (50 obs.)
HALMAHERA (267)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 20C
Centroid Location:
Origin Time 03:34:37.5 1.3
Lat 2.30N 0.11 Lon 128.14E 0.08
Dep 131.1 3.1 Half-duration 2.0
Moment Tensor; Scale 10**17 Nm
Mrr= 1.22 0.08 Mtt=-0.69 0.16
Mff=-0.53 0.17 Mrt=-0.22 0.11
Mrf= 0.34 0.11 Mtf= 0.86 0.13
Principal Axes:

T	Val= 1.28	Plg=80	Azm=258
N	0.24	6	134
P	-1.53	8	43

Best Double Couple:Mo=1.4*10**17
NP1:Strike=126 Dip=37 Slip= 81
NP2: 318 53 97

DAV	5.79	334	eP	36	01.00	3.5X
KKM	12.61	290	ePc	37	33.70	5.2X
	0.5s	37.20nm			5.2mb	
OCP	14.49	332	eP	37	56.00	3.5X
MTN	14.91	169	eP	37	58.00	0.1
	0.3s	98.00nm			5.6mb	
BAG	16.27	333	eP	38	12.00	-3.0X
	1.4s	511.63nm			5.6mb	
KNA	17.51	178	eP	38	30.60	0.6
PJG	20.23	54	eP	39	00.50	1.3
GUA	20.23	54	eP	39	00.50	1.2
	0.5s	101.41nm			5.5mb	
PMG	21.99	121	e(P)	39	17.00	0.2
WB2	22.51	165	iPc	39	22.00	0.2
			eS	43	19.00	
MBL	24.29	199	iPd	39	39.40	0.4
	0.4s	13.00nm			4.8mb	
QZH	24.73	339	Pc	39	44.00	0.9
	3.0s	1400.00nm			5.9mb	
QIZ	24.75	315	Pc	39	43.70	0.3
	1.2s	200.00nm			5.5mb	
			S	43	53.50	
QIS	24.95	154	iPc	39	45.70	0.5
GZH	25.52	327	iPc	39	51.00	0.6
			S	44	12.00	
ASPA	25.98	168	iPc	39	54.40	-0.3
	1.3s	54.90nm			5.0mb	
	Z 23s	0.50um			4.0MszX	
			ipP	40	23.80	141km
			iPcP	43	19.30	
			iS	44	15.40	
			iScP	46	45.90	
			iScS	50	34.20	
IPM	27.21	276	ePd	40	06.50	0.5
			e	43	24.00	
NANU	27.22	206	eP	40	16.00	10.1X
WARB	27.92	183	eP	40	13.00	0.8
	0.3s	4.00nm			4.6mb	X
SSE	29.81	348	Pd	40	28.00	-1.0
	1.0s	37.00nm			5.1mb	
	Z 20s	0.50um			4.1Msz	
			PP	41	36.50	
NST	30.84	298	eP	40	39.30	1.0
NJ2	31.28	345	Pd	40	42.50	0.6
	1.3s	100.00nm			5.4mb	
WHN	31.38	337	iPc	40	44.20	1.4
	1.0s	100.00nm			5.5mb	
			PcP	43	34.00	
KHT	31.88	295	eP	40	47.80	0.4
GYA	32.00	322	iPc	40	49.40	0.9
	1.4s	200.00nm			5.7mb	
			PcP	43	35.40	
			S	45	53.00	
			ScP	47	06.20	
OLP	32.26	152	eP	40	50.00	-0.5
BDT	32.47	300	eP	40	52.00	-0.5
	1.0s	34.50nm			5.1mb	
FORR	32.53	180	eP	40	52.00	-0.8
	0.4s	19.00nm			5.2mb	
MRWA	33.02	200	eP	40	56.30	-0.9
CHG	33.21	302	iPc	40	59.50	0.6
	1.1s	104.43nm			5.5mb	
KMI	33.70	315	iPc	41	05.00	1.7
	1.0s	400.00nm			6.1mb	
RMO	34.50	146	eP	41	08.50	-1.4
			e	42	29.00	435kmX
			i	43	43.00	
			i	47	15.90	
KLB	34.70	196	eP	41	11.00	-0.5
			e	43	42.00	
MUN	35.51	198	eP	41	18.00	-0.4
TIA	35.67	345	eP	41	18.70	-1.0
MAT	35.74	14	(P)	41	17.00	-3.2X
	1.5s	152.78nm			5.6mb	
			(S)	46	55.00	
XAN	36.71	333	iPc	41	28.30	-0.2
	1.2s	400.00nm			6.1mb	
			PcP	43	48.00	
CD2	36.98	324	iPc	41	31.20	0.4
	1.2s	300.00nm			6.0mb	
			eS	47	07.00	
CMS	37.18	155	iPd	41	32.90	0.6
	1.0s	28.00nm			5.0mb	
DL2	37.35	352	P	41	33.20	-0.5
	1.4s	600.00nm			6.2mb	
BRS	37.52	143	iPd	41	35.00	-0.4
			i	41	59.00	104kmX
			i	43	52.00	
			i(ScP)	47	26.50	
ADE	37.95	166	iPc	41	40.00	1.1
	1.1s	291.14nm			6.0mb	
TIY	38.49	340	iPc	41	43.50	0.1
	1.0s	100.00nm			5.5mb	
	Z 14s	0.60um			4.6MszX	
COO	39.40	147	iPd	41	51.60	0.6
	0.9s	51.00nm			5.3mb	
BJI	39.53	346	eP	41	51.50	-0.3
	1.1s	380.00nm			6.1mb	
			ePcP	43	58.00	
			ePcS	47	43.00	
			eS	47	48.00	
			eSS	50	40.00	
			eScS	51	48.00	
SNY	40.00	355	iPc	41	55.00	-0.6
	1.0s	100.00nm			5.5mb	
LZH	40.82	329	iPc	42	03.20	0.5
	2.0s	1160.00nm			6.2mb	
	Z 36s	1.03um			4.4MszX	
	N 15s	0.62um				
			pP	42	32.00	127km
			sP	42	45.00	
			PP	43	40.00	
			PcP	44	01.00	
			ScP	47	38.00	
			PcS	47	51.60	
			eS	48	06.00	
			sS	48	54.00	
BFD	41.08	162	iPc	42	06.40	1.8
	1.0s	193.00nm			5.8mb	
HHC	41.61	341	iPc	42	09.40	0.3
	1.0s	330.00nm			6.0mb	
			eS	48	18.00	
CN2	41.83	357	P	42	09.00	-1.6
			pP	42	36.00	118kmX
			PcP	44	04.00	
			ScP	47	41.00	
			eS	48	18.00	
BTO	41.91	339	P	42	11.00	-0.5
TOO	42.40	159	ePc	42	17.50	2.1
	1.0s	118.00nm			5.5mb	
MDJ	42.59	2	iPc	42	16.20	-0.6
	1.3s	300.00nm			5.8mb	
			PcP	44	06.60	
DZM	44.31	125	iPc	42	31.70	0.5
LSA	44.73	312	iP	42	37.20	2.3
GTA	45.42	329	iPc	42	40.40	0.6
	1.2s	210.00nm			5.7mb	
			pP	43	05.40	107kmX
			PcP	44	17.00	
			PP	44	31.80	
			ScP	47	57.40	
			PcS	48	09.20	
			S	49	14.00	
			ScS	52	22.80	
GUN	47.97	307	Pc	43	01.04	0.8
	0.8s	566.00nm			6.4mb	
PKI	48.21	306	Pc	43	02.36	0.3
	1.0s	325.00nm			6.1mb	
KKN	48.40	306	Pc	43	03.90	0.5
	0.9s	421.00nm			6.2mb	
DMN	48.47	306	Pc	43	04.62	0.6
	0.9s	499.00nm			6.3mb	
GKN	49.01	306	Pc	43	08.38	0.4
	1.0s	471.00nm			6.3mb	
KOD	51.02	282	eP	43	23.60	-0.1
HYB	51.09	291	iPc	43	24.00	0.1
	1.0s	140.00nm			5.7mb	
			e	43	55.00	133km
GBA	51.48	286	P	43	27.00	0.3
WMQ	55.06	325	iPc	43	52.50	-0.3
	1.5s	200.00nm			5.8mb	
			sP	44	37.00	
			eS	51	22.50	
NDI	55.33	304	iP	43	53.60	-1.3
POO	55.70	291	iPc	43	55.50	-2.2
	1.1s	81.01nm			5.6mb	
THZ	59.36	142	eP	44	22.00	-1.1
KHZ	60.13	143	eP	44	26.80	-1.3
SDN	77.93	34	eP	46	16.90	-0.2
VNDA	81.41	173	P	46	36.10	0.8
SVW	81.73	28	iPc	46	38.70	1.3
TTA	81.92	27	ePc	46	39.40	1.1
TAB	82.41	308	eP	46	42.00	0.5
BRW	83.49	18	e(P)	46	47.60	1.5
IMA	83.51	24	iPc	46	47.60	1.1
	1.0s	75.70nm			5.5mb	
PMR	84.90	28	ePc	46	53.40	0.1
	0.9s	104.20nm			5.7mb	
FBA	85.79	25	e(P)	46	57.50	-0.3
TOA	B6.33	28	eP	47	02.10	1.5
HRI	91.01	303	eP	47	23.00	-0.3
INK	91.37	22	iPc	47	22.90	-1.2
	1.2s	46.00nm			5.5mb	
JVI	91.41	302	eP	47	25.00	-0.1
SPA	91.85	180	iPc	47	27.20	0.7
	1.0s	37.50nm			5.5mb	
RMN	92.11	300	eP	47	28.00	-0.4
KEV	92.12	340	iP	47	27.20	-0.3
SOD	92.72	338	iP	47	28.90	-1.4
MBC	93.45	13	ePc	47	33.00	-0.6
	1.0s	19.00nm			5.3mb	
KAF	93.90	333	iP	47	34.20	-1.6
	0.4s	4.80nm			5.1mb	
NUR	95.01	331	eP	47	39.40	-1.6
	0.6s	7.60nm			5.2mb	
VRI	96.62	316	eP	47	58.00	9 4X
VAY	100.43	312	ePdiff	48	04.30	-1.6
YKA	100.59	25	ePdiff	48	04.50	-1.6
	1.0s	8.00nm			5.3mb	
NB2	101.08	334	Pdiff	48	06.60	-1.8
	0.7s	13.30nm			5.7mb	

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U. S. DEPARTMENT OF THE INTERIOR

Geological Survey

EARTHQUAKE DATA REPORT

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

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

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

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

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

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

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

Hypocenter Symbols

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

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

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

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

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

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

References

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

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

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

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

Jordan, Thomas H. and Keith A. Sverdrup (1981), Teleseismic Location Techniques and their Application to Earthquake Clusters in the South-Central Pacific, *Bull. Seis. Soc. Am.*, **71**, pp. 1105–1130.

KSP	102.18	323	ePdiff	48	13.20	-0.3
			e	52	27.00	
PRU	103.52	323	ePdiff	48	19.50	0.1
BRG	103.57	324	iPdiff	48	19.10	-0.6
	1.0s	20.00nm			6.0mb	
CLL	103.97	324	iPdiff	48	21.40	0.0
KHC	104.40	322	ePdiff	48	24.00	0.6
GRF	105.63	323	e(PKP)	52	43.00	1.4
			e	52	56.00	
BSF	109.06	323	ePKP	52	48.50	0.3
	1.0s	10.00nm				
HAU	109.26	323	ePKP	52	48.90	0.4
	1.0s	8.00nm				
BCAO	109.40	275	iPKPd	52	49.10	-0.6
	0.9s	9.00nm				
LPG	110.08	320	ePKP	52	50.00	-0.5
	0.7s	3.85nm				
LPL	110.08	320	ePKP	52	50.80	0.4
	0.7s	3.30nm				
FFC	110.20	28	ePKP	52	49.00	-1.0
	1.0s	17.00nm				
SSF	111.40	323	ePKP	52	52.20	-0.3
BGF	112.04	323	ePKP	52	53.70	0.0
FRB	113.38	8	ePKP	52	55.00	-0.7
MFF	113.81	324	ePKP	52	57.30	0.1
	0.7s	3.85nm				
ALQ	117.20	49	ePKPd	53	04.00	-0.3
SCH	122.18	10	ePKP	53	13.00	0.1
GAC	128.22	21	ePKPd	53	25.40	0.6
	1.0s	10.00nm				
KIC	132.27	280	PKP	53	33.22	-0.2
TIC	132.50	281	PKP	53	33.68	-0.2
LKO	132.55	285	PKP	53	33.14	-0.9
LIC	132.57	280	PKP	53	33.90	-0.1
LNV	143.20	152	ePKP	53	49.50	-3.4X
TACH	143.67	153	ePKPd	53	51.50	-2.3
ROCH	144.20	152	iPKPd	53	53.80	-1.2
FCH	144.24	153	iPKPd	53	52.60	-2.6
JACH	144.64	152	ePKPd	53	55.50	-0.1
NNA	153.26	113	ePKP	54	09.50	0.2
	1.0s	9.00nm				
			i	54	18.00	
ARE	155.83	128	e(PKP)	54	24.00	10.9X
CNCB	158.26	134	PKPc	54	18.00	1.6
LPB	158.36	133	PKPc	54	16.80	0.4
	1.0s	20.00nm				
			i	54	52.50	
PPD	159.95	181	ePKP	54	17.30	-0.2
SIV	163.28	148	PKPc	54	21.80	0.9
			i	55	11.00	
PDCR	163.53	229	ePKP	54	21.00	-0.2
			e	55	14.30	
SOB1	166.89	236	ePKP	54	27.20	3.1X
			e	55	32.20	

S.D. = 0.9 on 119 of 129 obs.

& FEB 16, 1991 04h 31m 24.00s
29.700 N 113.800 W
DEPTH = 10.0km (geophysicist)
GULF OF CALIFORNIA (49)
<SPEC>. Held to mainshock location.

GLA	3.46	346	eP	32	23.00	4.0
IKP	3.54	327	eP	32	32.00	11.7
BAR	3.86	321	eP	32	24.00	-0.7
PLM	4.48	325	eP	32	45.00	11.3
GSC	6.13	336	eP	33	07.00	10.1
SES	20.78	5	eP	36	07.00	-0.6

6 obs. associated

? FEB 16, 1991 05h 44m 27.92±10.25s
40.641 N ±35.0km 30.460 E ±76.8km
DEPTH = 5.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

GPA	0.37	198	iPg	44	35.10	-0.3
			iSg	44	42.10	
HRT	0.63	287	iPg	44	40.30	-0.2
ISK	1.14	292	ePn	44	49.80	0.0
DST	1.74	234	ePn	44	59.50	0.4

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

FEB 16, 1991 06h 06m 01.39± 0.83s
29.430 N ± 9.4km 114.005 W ± 7.8km
DEPTH = 10.0km (geophysicist)
4.6mb (7 obs.)
BAJA CALIFORNIA (48)

SPX	2.05	322	ePn	06	35.95	-0.6
			S	07	02.73	
ECBX	2.23	336	ePn	06	37.57	-1.3
			S	07	05.47	
EMX	2.76	338	ePn	06	44.57	-1.9
			S	07	18.75	
RDX	3.00	327	ePn	06	48.99	-1.1
PBX	3.29	315	ePn	06	53.86	-0.1
ENX	3.35	318	ePn	06	54.40	-0.4
CBX	3.67	322	ePn	06	58.63	-0.9
GLA	3.68	349	eP	06	59.00	-0.6
IKP	3.68	331	eP	07	03.00	3.3X
BAR	3.97	325	eP	07	03.00	-0.6
CPE	4.34	323	eP	07	32.70	23.8X
PLM	4.61	329	eP	07	11.00	-1.9
TPC	4.98	340	eP	07	19.00	1.1
PEC	5.20	330	e(P)	07	24.00	2.9X
MWC	5.89	325	eP	07	32.00	1.0
SBB	6.16	329	eP	07	39.00	4.3X
GSC	6.31	339	eP	07	38.00	1.1
A8L	6.98	322	eP	07	46.00	-0.4
ISA	7.27	330	eP	07	52.00	1.7
BCH	7.71	320	eP	07	56.00	-0.4
ALQ	8.43	47	eP	08	01.00	-5.7X
TNP	9.03	344	eP	08	14.50	-0.5
MSU	9.19	9	eP	08	17.00	-0.1
BONR	9.22	338	eP	08	19.50	1.8
PV09	9.91	23	eP	08	26.00	-1.1
KVN	10.18	342	eP	08	30.50	-0.2
DAU	11.19	11	eP	08	47.00	2.3X
GOL	12.46	32	e(P)	09	05.00	3.1X
BW06	13.79	14	e(P)	09	14.00	-5.5X
LRM	16.41	4	eP	09	55.60	2.1X
RSSD	16.67	26	eP	09	57.50	0.7
	1.2s	33.71nm			4.3mb	
LON	1B.33	343	eP	10	18.00	0.7
NEW	18.96	354	eP	10	25.00	0.0
	1.2s	17.05nm			4.1mb	
OLY	19.94	67	eP	10	36.00	-0.3
PNT	20.32	349	eP	10	44.00	3.8X
FFC	26.73	16	eP	11	43.00	0.4
	1.1s	21.00nm			4.7mb	
LHS	28.53	71	e(P)	12	04.00	4.8X
YKA	33.07	359	eP	12	39.30	0.3
	1.2s	2.60nm			4.0mb	
PMR	39.60	334	eP	13	35.80	1.5
	1.3s	30.90nm			4.8mb	
INK	40.58	349	eP	13	45.00	2.7X
PDB	40.64	330	eP	13	44.70	1.8
FBA	41.29	339	eP	13	52.30	4.1X
SVW	41.92	331	eP	13	54.70	1.2
IMA	43.93	338	eP	14	10.90	1.0
	1.6s	34.80nm			4.9mb	
MBC	46.96	358	eP	14	37.50	3.8X
	1.5s	19.00nm			5.0mb	
CNCB	63.92	130	eP	16	37.00	-0.6
SIV	68.17	124	P	17	03.20	-1.1

S.D. = 1.1 on 33 of 47 obs.

? FEB 16, 1991 06h 38m 03.36± 1.27s
15.241 N ± 8.7km 60.943 W ±41.0km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)
ML 2.7 (FDF).

CRM	0.49	177	eP	38	15.10	1.3
FDF	0.54	202	eP	38	15.27	0.6
	0.1s	0.35nm				
			S	38	34.10	
MVM	0.68	176	eP	38	15.83	-0.8
BIM	0.73	190	eP	38	16.00	-1.2
DEG	1.07	354	eP	38	22.20	0.1
			S	38	39.00	

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

& FEB 16, 1991 07h 49m 48.70s
40.338 N 127.555 W
DEPTH = 5.0km
3.8mb (2 obs.)
OFF COAST OF NORTHERN CALIFORNIA(34)
<BRK>. ML 3.7 (BRK).

FHC	2.76	79	eP	50	30.60	-3.9
			e	50	54.60	
			e(S)	51	03.10	
WDC	3.83	85	eP	50	46.80	-2.9
			eS	51	29.60	
LBFM	4.41	75	eP	50	53.50	-4.6
MIN	4.55	88	eP	50	56.30	-3.6
BRK	4.80	119	eP	51	00.70	-2.6
PCC	4.93	123	eP	51	01.90	-3.3
MHC	5.50	121	eP	51	10.30	-3.1
			eS	52	12.50	
ARN	5.57	120	eP	51	11.30	-3.0
SAO	5.97	125	eP	51	16.80	-3.1
			e(S)	52	25.40	
CMB	6.03	110	eP	51	20.30	-0.4
PRS	6.29	127	eP	51	21.50	-3.0
PNT	10.59	29	eP	52	27.00	2.8
FFC	22.31	41	eP	54	42.00	-6.4
	1.3s	19.00nm			4.4mb	
YKA	23.52	15	eP	55	00.80	0.7
	1.1s	0.90nm			3.3mb	

14 obs. associated

FEB 16, 1991 07h 55m 59.96± 0.59s
18.483 S ± 7.0km 177.914 W ± 6.8km
DEPTH = 578.0 ± 7.6 km
5.2mb (13 obs.)
FIJI ISLANDS REGION (181)

SVA	3.47	275	eP	57	22.10	1.4
NDF	4.47	279	eP	57	28.90	1.1
			eS	58	43.20	
AFI	7.44	53	P	57	52.00	-2.0
DZM	15.10	254	iPc	59	11.10	1.6
NOZ	20.37	189	eP	59	59.40	0.2
THZ	24.49	197	eP	00	36.60	0.1
KHZ	24.94	195	eP	00	39.00	-1.3
LTZ	25.61	197	eP	00	45.00	-1.3
BRS	28.36	246	iP	01	11.00	0.6
MMCZ	28.57	199	P	01	11.40	-0.7
MHZ	28.58	199	P	01	11.40	-0.8
TLC	28.76	199	P	01	13.70	-0.1
COO	29.89	240	iPd	01	24.30	0.7
	0.8s	43.00nm			5.1mb	
RMO	31.74	249	eP	01	39.00	-0.1
PMG	35.02	280	iPc	02	07.00	0.4
	1.0s	220.00nm			5.7mb	
CMS	35.16	241	iPd	02	08.80	1.2
TAU	38.13	223	eP	02	34.00	2.2
BFD	39.27	233	eP	02	42.00	0.9
QIS	40.01	260	eP	02	46.00	-1.4
WB2	44.98	260	iPc	03	25.20	-1.2
ASPA	45.09	255	eP	03	26.20	-1.0
	0.6s	168.30nm			5.7mb	
Z	23s	0.10um			3.7MszX	
			iS	09	22.60	
			eScS	10	39.90	
GUA	48.53	308	eP	03	52.50	-0.9
	0.8s	149.25nm			5.6mb	
PJG	48.60	308	eP	03	53.00	-0.8
MTN	49.26	269	eP	03	57.30	-1.4
	0.3s	50.00nm			5.5mb	
FORR	50.16	245	eP	04	04.00	-1.1
	0.4s	71.00nm			5.5mb	
KNA	50.88	264	iPd	04	09.70	-1.0
WARB	51.54	251	eP	04	15.00	-0.4
	0.4s	23.00nm			5.0mb	
MBL	58.30	256	eP	05	01.00	-1.5
MUN	60.28	243	eP	05	15.10	-0.4
	0.3s	155.00nm			5.8mb	
MRWA	60.71	246	eP	05	17.20	-1.2
NANU	62.02	254	eP	05	26.40	-0.5
SPA	71.63	180	iPc	06	26.70	1.6
	1.0s	32.50nm			4.8mb	
GCC	76.31	43	eP	06	51.90	0.4
PRS	76.31	44	eP	06	51.90	0.4
PCC	76.34	42	eP	06	51.80	0.2
SAO	76.51	44	eP	06	53.00	0.4
BRK	76.64	42	eP	06	53.70	0.5
PRI	76.67	44	eP	06	54.30	0.7
MHC	76.72	43	eP	06	54.40	0.5
FRI	77.79	44	eP	06	59.30	-0.1
CMB	77.94	43	ePd	07	00.30	0.0
WDC	78.08	40	ePd	07	01.20	0.3
ORV	78.11	41	eP	07	01.40	0.3
MIN	78.51	40	eP	07	03.30	-0.1
NJ2	78.66	309	Pd	07	05.00	0.9
TNP	80.04	44	P	07	11.00	-0.5
CN2	80.76	322	eP	07	15.00	0.2

16d 08h

PNT	84.94	34	ePd	07	35.00	-0.5
	0.8s	40.00nm			5.1mb	
TIY	86.00	312	eP	07	41.50	0.6
ALQ	86.08	51	eP	07	41.20	-0.4
	1.0s	13.00nm			4.6mb	
FBA	86.26	12	P	07	39.90	-1.6
			epP	09	45.00	578kmX
XAN	86.98	307	P	07	46.30	0.6
LRM	87.11	40	eP	07	46.00	-0.3
			e	11	15.50	
SES	90.20	36	eP	08	00.00	-0.2
INK	92.31	15	P	0B	08.00	-1.4
	0.3s	1.20nm			4.4mb	
YKA	94.65	25	eP	08	18.60	-1.6
	0.8s	3.50nm			4.6mb	
KSP	145.79	344	iPKPc	14	36.40	2.0
CLL	146.12	348	iPKPd	14	36.40	1.5
	0.9s	15.00nm				
			i	14	47.80	
BRG	146.33	346	iPKP	14	36.70	1.4
MML	147.01	301	ePKP	14	40.00	3.0X
PRU	147.02	345	ePKP	14	39.00	2.6
MKT	147.63	299	ePKP	14	42.00	4.0X
RMN	148.18	298	ePKP	14	43.00	4.0X
FLN	149.72	3	ePKP	14	45.80	5.2X
GRR	150.07	4	ePKP	14	46.70	5.6X
BSF	150.48	354	ePKP	14	47.70	5.8X
	0.8s	4.05nm				
LOR	151.25	357	ePKP	14	49.50	6.5X
	0.7s	4.95nm				
MFF	151.90	3	ePKP	14	50.80	6.9X
	0.7s	6.60nm				
	S.D. = 1.1	on	60 of	68 obs.		

? FEB 16, 1991 09h 14m 30.22± 1.06s
2.409 N ±35.5km 66.623 E ±17.0km
DEPTH = 10.0km (geophysicist)
4.8mb (2 obs.)
CARLSBERG RIDGE (421)

GBA	15.43	43	P	18	18.00	8.4X
HYB	18.97	37	eP	19	05.00	10.8X
CHTO	35.59	60	P	21	31.20	1.0
BCAO	48.04	274	iPd	23	13.10	1.0
	0.9s	14.00nm			5.0mb	
			id	24	41.20	
VRI	55.57	327	eP	24	16.50	8.3X
CLL	66.14	326	eP	25	19.00	-0.9
WRA	69.99	112	P	25	44.00	-0.5
	0.9s	3.30nm			4.5mb	
YKA	115.27	1	ePKP	33	12.80	-0.5
	0.9s	0.50nm				
	S.D. = 1.3	on	5 of	8 obs.		

& FEB 16, 1991 09h 54m 24.54s
58.687 N 155.183 W
DEPTH = 133.0km
ALASKA PENINSULA (12)
<AEIC>.

MCNL	0.67	41	iP	54	44.28	-1.0
CDD	0.84	72	iP	54	45.62	-1.0
			eS	55	02.18	
AUI	1.12	54	iP	54	48.19	-0.9
AUH	1.13	52	iP	54	48.55	-0.8
AUE	1.15	53	iP	54	48.75	-0.7
PDB	1.22	24	iP	54	48.71	-1.4
			S	55	07.69	
SYI	1.46	92	eP	54	51.23	-1.5
			S	55	12.31	
HOM	2.07	60	eP	54	58.45	-1.4
			iS	55	24.86	
RS2	2.17	34	iP	54	59.96	-1.4
			eS	55	27.77	
RSO	2.17	34	iP	54	59.97	-1.4
			eS	55	26.82	
NCT	2.20	30	iP	55	00.18	-1.5
			eS	55	27.69	
CNPM	2.20	66	eP	54	59.74	-1.9
			iS	55	26.61	
REF	2.20	34	iP	55	00.30	-1.5
			eS	55	28.41	
RDN	2.21	33	iP	55	00.34	-1.5
			eS	55	27.84	
RDT	2.36	36	iP	55	02.10	-1.6
NNL	2.41	54	iP	55	03.17	-1.1
SVW	2.44	355	iPd	55	03.70	-1.0
BRLK	2.46	62	eP	55	02.63	-2.3
			eS	55	32.20	
NKA	2.87	42	eP	55	09.96	-0.2
CKL	2.90	28	iP	55	09.09	-1.5
BGL	2.94	27	eP	55	09.99	-1.2
SPU	2.96	31	eP	55	09.61	-1.7
CRP	3.00	29	eP	55	11.07	-1.0
SLKM	3.11	52	eP	55	10.96	-2.4
NCG	3.12	28	eP	55	12.20	-1.3
SEW	3.26	62	eP	55	12.66	-2.6
SUA	3.56	37	eP	55	17.20	-2.2
SKT	3.77	27	eP	55	20.11	-2.0
PMS	3.82	45	eP	55	19.98	-2.7
PWA	3.98	39	eP	55	22.59	-2.3
LTI	3.99	67	iP	55	22.47	-2.5
MTU	4.07	68	iP	55	23.78	-2.3
KNIM	4.14	63	eP	55	23.57	-3.5
PLRM	4.20	44	eP	55	24.26	-3.5
PMR	4.20	44	eP	55	25.10	-2.7
TTA	4.28	355	iPd	55	27.60	-1.3
KNK	4.34	48	eP	55	25.97	-3.8
GHO	4.39	43	eP	55	27.02	-3.5
SDN	4.44	223	eP	55	29.80	-1.1
CUT	4.45	31	eP	55	28.17	-3.0
MID	4.63	77	iP	55	31.11	-2.4
GLI	4.64	58	eP	55	29.66	-4.1
VZW	4.96	58	eP	55	34.30	-3.7
VLZ	5.08	57	eP	55	36.34	-3.3
HUR	5.09	30	eP	55	36.68	-3.1
TRF	5.34	24	eP	55	40.20	-3.1
KLU	5.42	55	eP	55	40.61	-3.8
TOA	5.63	49	eP	55	44.40	-2.8
RND	5.64	30	eP	55	43.29	-4.1
MCK	5.89	28	eP	55	47.26	-3.5
TZL	5.90	51	eP	55	47.47	-3.3
SDG	6.11	47	eP	55	50.59	-3.1
BWN	6.15	24	eP	55	50.63	-3.6
GLB	6.33	59	eP	55	53.01	-3.7
PAX	6.40	44	eP	55	53.78	-4.0
TGL	6.58	66	eP	55	57.00	-3.2
NEA	6.59	24	eP	55	55.48	-4.7
WRH	6.72	27	eP	55	57.17	-4.7
BALM	6.88	65	iP	56	01.05	-3.2
CCB	6.93	27	eP	55	59.83	-5.0
HDA	6.95	31	eP	56	00.29	-4.8
RDS	7.00	25	eP	56	00.95	-4.9
YAH	7.04	70	iP	56	03.95	-2.6
MDM	7.10	25	eP	56	02.18	-4.9
FBA	7.15	26	eP	56	03.20	-4.5
GLM	7.31	27	eP	56	05.21	-4.8
IMA	7.44	5	eP	56	09.30	-2.6
BCPM	8.05	74	eP	56	18.05	-1.9
PNL	8.17	76	eP	56	18.28	-3.2
HON	8.44	78	eP	56	22.15	-2.9
INK	13.56	36	eP	57	27.00	-5.3
	71 obs. associated					

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* FEB 16, 1991 10h 04m 57.51± 0.67s
13.698 N ±15.2km 120.645 E ±11.9km
DEPTH = 33.0km (normal)
4.7mb (1 obs.)
MINDORO, PHILIPPINE ISLANDS (250)

CHTO	21.44	287	P	09	45.00	-0.1
GUN	35.30	299	P	11	52.80	0.7
PKI	35.61	298	P	11	54.20	-0.5
KKN	35.77	299	P	11	56.00	0.0
DMN	35.87	298	P	11	57.20	0.3
WRA	36.04	158	P	12	18.00	20.0X
	0.8s	1.50nm				
GKN	36.38	299	P	12	00.60	-0.4
ASPA	39.33	161	eP	12	25.60	0.0
	0.3s	4.00nm			4.7mb	
			i	12	41.50	
FBA	78.37	26	(P)	16	56.00	0.0
INK	83.12	21	eP	17	21.00	0.0
	S.D. = 0.4	on	9 of	10 obs.		

& FEB 16, 1991 11h 25m 34.00s
29.700 N 113.800 W
DEPTH = 10.0km (geophysicist)
GULF OF CALIFORNIA (49)
<SPEC>. ML 3.9 (GS). Held to mainshock location.

ECBX	2.07	329	ePn	26	10.70	1.5
			S	26	49.50	
EMX	2.60	332	ePn	26	27.43	10.7
PBX	3.24	310	ePn	26	32.19	6.3
ENX	3.29	312	ePn	26	34.19	7.6
GLA	3.46	346	eP	26	34.00	5.0
IKP	3.54	327	eP	26	42.00	11.7
CBX	3.58	317	ePn	26	41.51	10.7
BAR	3.86	321	eP	26	27.00	-7.7
PLM	4.48	325	eP	26	53.00	9.3
TPC	4.79	337	eP	26	53.00	5.0
GSC	6.13	336	eP	27	12.00	5.1
ALQ	8.12	48	eP	27	31.00	-3.9
TNP	8.83	342	eP	27	44.50	-0.3
MSU	8.89	8	P	27	48.00	2.3
PV09	9.59	23	eP	27	57.00	1.6
PNT	20.09	349	eP	30	14.00	3.6
SES	20.78	5	eP	30	17.00	-0.6
	17 obs. associated					

% FEB 16, 1991 11h 59m 18.10± 0.91s
27.907 N ±10.0km 17.775 W ± 8.9km
DEPTH = 10.0km (geophysicist)
CANARY ISLANDS REGION (394)
MD 3.6 (MDD).

CHIE	0.24	223	iPd	59	23.30	0.0
			iS	59	24.80	
TBT	0.78	351	iPc	59	33.20	-0.1
			iS	59	44.30	
CTFE	1.45	67	iPc	59	44.90	0.5
			iS	00	05.00	
GGC	1.90	83	iPd	59	51.60	0.7
			eS	00	14.80	
CFTV	3.30	80	iPd	00	09.70	-1.2
			iS	00	46.40	
	S.D. = 1.0	on	5 of	5 obs.		

& FEB 16, 1991 12h 18m 15.00s
29.700 N 113.800 W
DEPTH = 10.0km (geophysicist)
GULF OF CALIFORNIA (49)
<SPEC>. Held to mainshock location.

GLA	3.46	346	eP	19	09.00	-1.0
IKP	3.54	327	eP	19	20.00	8.7
BAR	3.86	321	eP	19	09.00	-6.7
PLM	4.48	325	eP	19	33.00	8.3
TPC	4.79	337	eP	19	33.00	4.0
RVR	5.25	326	eP	19	49.00	13.6
SBB	6.03	327	eP	19	52.00	5.5
GSC	6.13	336	eP	20	16.00	28.1
SES	20.78	5	eP	22	58.00	-0.6
	9 obs. associated					

% FEB 16, 1991 13h 17m 22.62± 1.14s
42.438 N ± 9.1km 19.811 E ± 9.0km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.8 (TTG).

PVY	0.20	37	iPgc	17	26.72	-0.3
			iSg	17	30.53	
TTG	0.41	269	iPgc	17	30.60	-0.3
			iSg	17	37.05	
IVA	0.44	8	iPgc	17	31.83	0.2
			iSg	17	38.77	
ULC	0.63	222	iPgc	17	35.73	0.4
			iSg	17	45.05	
NKY	0.71	302	iPgc	17	37.05	0.4
			iSg	17	47.45	
BDV	0.74	258	iPgc	17	36.82	-0.4
			iSg	17	48.73	
	S.D. = 0.5	on	6 of	6 obs.		

? FEB 16, 1991 13h 29m 34.15± 3.32s
29.565 N ±31.5km 113.898 W ±12.0km
DEPTH = 10.0km (geophysicist)
4.2mb (6 obs.)
GULF OF CALIFORNIA (49)

ECBX	2.15	333	ePn	30	14.29	3.9X
GLA	3.57	347	eP	30	29.00	-1.7
IKP	3.61	329	eP	30	33.00	1.6
BAR	3.91	323	eP	30	34.00	-1.6
PLM	4.55	327	eP	30	45.00	0.2
TPC	4.88	339	eP	30	49.00	-0.4
PEC	5.13	328	e(P)	31	01.00	8.1X

RVR 5.32 327 eP 31 13.00 17.5X
MWC 5.84 324 eP 31 08.00 5.0X
SBB 6.10 328 eP 31 10.00 3.5X
GSC 6.23 338 eP 31 10.00 1.6
ABL 6.94 321 e(P) 31 17.00 -1.5
CLC 6.97 334 eP 31 22.00 3.2X
ALQ 8.27 48 eP 31 33.00 -4.2X
TNP 8.93 343 eP 31 46.50 0.1
MSU 9.04 9 eP 31 48.00 0.1
PV09 9.75 23 eP 31 56.50 -1.2
KVN 10.08 341 eP 32 03.50 1.3
DUG 10.64 5 e(P) 32 12.50 2.7X
BW06 13.64 14 eP 32 51.20 1.0
LRM 16.27 4 eP 33 28.50 4.0X
RSSD 16.51 26 eP 33 28.50 1.0
1.0s 8.81nm 3.8mb
NEW 18.84 353 eP 33 55.50 -0.8
1.0s 8.75nm 3.9mb
PNT 20.20 349 eP 34 13.00 1.3
SES 20.92 5 eP 34 18.00 -1.2
0.9s 42.00nm 4.8mb
FFC 26.57 16 eP 35 13.00 -1.0
0.9s 9.00nm 4.5mb
YKA 32.94 359 eP 36 09.80 -0.8
0.9s 0.90nm 3.7mb
INK 40.46 349 eP 37 16.00 1.9
MBC 46.83 358 eP 38 08.00 2.6X
1.4s 13.00nm 4.8mb
S.D. = 1.3 on 19 of 29 obs.

& FEB 16, 1991 15h 10m 46.00s
29.700 N 113.800 W
DEPTH = 10.0km (geophysicist)
GULF OF CALIFORNIA (49)
<SPEC>. Held to moinshock location.

GLA 3.46 346 eP 11 40.00 -1.0
IKP 3.54 327 eP 11 45.00 2.7
BAR 3.86 321 eP 11 52.00 5.3
PLM 4.48 325 eP 12 05.00 9.3
RVR 5.25 326 eP 12 22.00 15.6
SBB 6.03 327 eP 12 23.00 5.5
GSC 6.13 336 eP 12 47.00 28.1
ALQ 8.12 48 eP 12 43.00 -3.9
SES 20.78 5 eP 15 30.00 0.4
9 obs. associoted

• FEB 16, 1991 15h 24m 41.83± 1.84s
5.503 S ±13.8km 128.956 E ±19.9km
DEPTH = 303.6 ± 21.4 km
4.7mb (7 obs.)
BANDA SEA (280)

MTN 7.61 164 iPd 26 31.90 0.6
KNA 10.18 181 eP 27 02.60 -0.6
0.2s 24.00nm 5.0mb X
eS 28 52.00
WB2 15.28 160 iP 28 03.20 -1.4
eS 32 01.00
QIS 18.19 146 iPd 28 35.50 0.3
i 28 39.40
eS 31 52.00
ASPA 18.68 166 eP 28 40.50 0.4
0.3s 46.60nm 5.3mb
iS 31 53.80
WARB 20.68 186 eP 29 01.00 1.1
0.3s 3.00nm 4.1mb
NANU 21.35 216 eP 29 06.00 -0.3
CHTO 38.19 310 P 31 35.80 1.2
GUN 53.19 311 P 33 32.08 -0.1
0.4s 25.00nm 5.0mb
PKI 53.37 310 P 33 33.00 -0.4
0.5s 9.00nm 4.4mb
KKN 53.58 311 P 33 34.68 -0.2
0.4s 11.00nm 4.7mb
DMN 53.62 310 P 33 34.66 -0.5
0.5s 9.00nm 4.5mb
GKN 54.18 310 P 33 38.92 -0.1
0.4s 29.00nm 5.1mb
S.D. = 0.8 on 13 of 13 obs.

% FEB 16, 1991 15h 27m 16.45± 1.44s
40.472 N ± 6.2km 23.755 E ±12.4km
DEPTH = 5.0km (geophysicist)
GREECE (364)
MD 2.0 (THE).

PAIG 0.55 186 ePc 27 27.52 0.1
eS 27 34.68
THE 0.62 285 ePc 27 28.80 -0.1
eS 27 35.40
SRS 0.66 349 iPc 27 29.62 0.0
eS 27 40.28
KNT 0.95 317 ePd 27 34.24 -0.7
eS 27 46.56
LIT 1.04 249 ePd 27 36.04 -0.5
eS 27 49.24
GRG 1.14 296 ePc 27 39.38 1.1
eS 27 53.36
S.D. = 0.8 on 6 of 6 obs.

? FEB 16, 1991 16h 17m 01.86± 1.06s
20.523 S ±43.0km 173.624 W ±25.0km
DEPTH = 36.5km (2 depth phoses)
4.8mb (4 obs.)
TONGA ISLANDS (173)

DZM 18.64 262 iPc 21 19.20 0.2
CMS 37.85 245 eP 24 17.00 -0.1
ASPA 48.50 256 eP 25 42.00 -1.5
1.1s 9.10nm 4.7mb
WB2 48.64 261 iPc 25 42.40 -2.2
e 28 26.00
i 28 47.80
MUN 63.00 244 eP 27 28.20 0.5
MRWA 63.62 247 eP 27 32.00 0.2
TNP 78.74 42 P 29 02.90 0.3
pP 29 13.90 36km
PV09 84.22 45 P 29 32.00 0.6
pP 29 43.50 37km
ALQ 84.25 50 eP 29 32.00 0.5
1.0s 7.50nm 4.8mb
PNT 84.44 32 eP 29 32.00 0.2
8W06 86.22 42 P 29 41.00 -0.2
IPM 87.24 276 ePc 29 48.80 2.3
0.6s 18.30nm 5.5mb
FBA 87.44 11 P 29 44.80 -1.5
INK 93.27 14 eP 30 13.00 -0.4
CHTO 94.13 288 P 30 21.00 2.6
YKA 94.86 24 eP 30 20.30 -0.5
0.9s 0.50nm 3.9mb
EKA 144.51 9 PKPd 36 34.50 -1.2
0.8s 4.30nm
KSP 148.75 348 ePKP 36 47.40 4.6X
CLL 148.84 352 ePKP 36 47.00 4.1X
1.0s 11.00nm
e 36 56.00
BRG 149.13 351 e(PKP)36 48.60 5.2X
PRU 149.89 349 ePKP 36 50.50 5.9X
S.D. = 1.3 on 17 of 21 obs.

• FEB 16, 1991 17h 40m 18.25± 0.65s
31.959 S ±12.2km 69.476 W ±13.1km
DEPTH = 120.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTCB 0.74 51 iPd 40 38.10 -0.2
eS 40 51.80
RTCV 0.80 83 e(P) 40 39.20 0.4
RTLL 1.06 54 e(P) 40 41.00 -0.3
FCH 1.53 207 iPd 40 52.00 5.3X
iS 41 18.00
ROCH 1.64 232 iPc 40 48.00 0.0
iS 41 10.20
RTRS 1.78 0 iPc 40 49.60 0.2
eS 41 11.60
TACH 2.09 216 iP 40 53.30 0.0
iS 41 20.20
S.D. = 0.3 on 6 of 7 obs.

• FEB 16, 1991 17h 42m 07.21± 2.13s
14.397 N ± 6.6km 60.207 W ±19.5km
DEPTH = 31.5 ± 6.6 km
WINDWARD ISLANDS (95)
MD 3.0 (TRN). ML 2.9 (FDF).

MVM 0.69 283 iPc 42 20.85 0.3
S 42 30.70
CRM 0.77 297 iPc 42 22.05 0.3
S 42 32.10
SLW 0.80 242 eP 42 21.99 -0.2
eS 42 31.87
BIM 0.85 278 iPc 42 22.58 -0.3
S 42 33.30

FDF 0.97 290 iPc 42 24.14 -0.6
0.1s 1.10nm
S 42 36.00
SLB 0.99 235 eP 42 24.96 0.0
eS 42 35.48
SOA 1.37 222 eP 42 45.98 15.7X
eS 42 48.48
SVV 1.45 223 eP 42 31.34 -0.2
eS 42 47.11
BBL 1.66 313 eP 42 34.00 -0.6
S 42 53.00
DEG 2.08 337 eP 42 40.20 -0.4
S 43 04.00
PAG 2.16 319 eP 42 41.50 -0.3
S 43 06.00
SEG 2.35 328 eP 42 45.00 0.5
S.D. = 0.4 on 11 of 12 obs.

& FEB 16, 1991 17h 47m 13.49s
62.711 N 148.716 W
DEPTH = 54.4km
CENTRAL ALASKA (1)
<AEIC>.

HUR 0.50 303 iP 47 25.26 0.1
eS 47 34.35
RND 0.70 355 iP 47 27.37 -0.3
S 47 37.41
CUT 0.78 248 iP 47 28.56 0.0
GHO 0.95 186 iP 47 30.64 -0.2
eS 47 44.03
MCK 1.03 355 iP 47 31.81 -0.1
eS 47 45.66
TRF 1.03 317 eP 47 31.82 -0.3
PLRM 1.14 190 iP 47 33.23 -0.2
eS 47 48.89
PMR 1.14 190 iPc 47 33.70 0.3
PWA 1.20 208 iP 47 34.74 0.6
eS 47 50.45
KNK 1.31 175 iP 47 35.93 0.1
S 47 54.04
TOA 1.33 116 ePc 47 36.80 0.7
SDG 1.48 96 eP 47 38.06 -0.1
eS 47 57.06
SKT 1.50 242 eP 47 38.53 0.0
eS 48 00.06
BWN 1.50 347 eP 47 37.69 -0.8
eS 47 57.97
PAX 1.51 79 iP 47 38.30 -0.4
eS 47 57.43
THY 1.52 61 eP 47 39.22 0.4
eS 48 00.66
PMS 1.52 196 eP 47 39.17 0.4
iS 48 00.12
SUA 1.57 218 eP 47 40.12 0.5
eS 48 01.61
TZL 1.67 112 eP 47 41.23 0.4
S 48 03.38
WRH 1.79 9 eP 47 41.14 -1.3
eS 48 05.52
KLU 1.80 132 eP 47 42.04 -0.6
HDA 1.88 24 eP 47 42.51 -1.2
eS 48 07.45
NEA 1.88 355 iP 47 42.36 -1.4
eS 48 07.77
VLZ 1.95 144 eP 47 43.51 -1.1
VZW 1.95 147 eP 47 43.89 -0.9
eS 48 08.87
CCB 1.99 11 eP 47 43.55 -1.7
eS 48 09.36
GLI 1.99 157 eP 47 44.53 -0.8
eS 48 09.56
NCG 2.08 233 eP 47 46.85 0.1
RDS 2.14 7 iP 47 46.01 -1.4
CRP 2.18 230 eP 47 49.60 1.5
SPU 2.20 227 eP 47 48.61 0.3
eS 48 17.43
FBA 2.24 10 ePc 47 47.70 -1.0
BGL 2.26 232 eP 47 50.04 0.8
MDM 2.27 5 iP 47 47.83 -1.4
CKL 2.29 230 eP 47 50.25 0.6
NKA 2.31 212 eP 47 53.25 3.5
SLKM 2.33 199 eP 47 50.96 0.9
GLM 2.36 14 eP 47 48.95 -1.6
KNIM 2.42 168 eP 47 49.78 -1.5
GLB 2.64 117 eP 47 53.88 -0.6
eS 48 24.60

16d 17h

SEW	2.64	188	eP	47	54.69	0.3
TMW	2.68	74	eP	47	54.06	-1.0
LTI	2.71	171	eP	47	54.35	-1.1
RDT	2.77	221	eP	47	56.52	0.0
MTU	2.78	169	eP	47	56.76	0.3
RDN	2.93	223	eP	47	58.71	-0.1
REF	2.93	222	eP	47	59.40	0.5
NCT	2.95	225	eP	47	59.67	0.7
RS2	2.97	222	eP	48	01.01	1.6
RSO	2.97	222	eP	48	00.64	1.2
TTA	3.36	277	eP	48	03.90	-0.8
TGL	3.42	122	eP	48	04.01	-1.6
CNPM	3.42	202	eP	48	05.28	-0.3
BALM	3.45	116	eP	48	04.37	-1.8
SVW	3.64	247	eP	48	08.10	-0.6
CTGM	3.91	113	eP	48	11.29	-1.3
IMA	4.00	330	eP	48	12.50	-1.3
INK	8.43	42	P	49	13.00	-2.5
	0.3s		0.80nm			4.1mb
YKA	15.60	76	eP	50	50.90	-0.1
	0.6s		0.10nm			2.2mb
	59 obs. ossocioted					

FEB 16, 1991 18h 13m 01.61± 0.64s
23.682 N ± 5.0km 121.342 E ± 8.9km
DEPTH = 10.0km (geophysicist)
3.9mb (1 obs.)
TAIWAN (244)

TWF1	0.33	187	iPc	13	08.40	-0.1
			eS	13	13.00	
TWD	0.46	30	iPc	13	11.20	0.3
			eS	13	18.60	
TWQ	0.75	322	ePc	13	16.60	0.3
TWK	0.89	242	ePc	13	18.80	0.1
TWG	0.89	196	ePc	13	18.70	0.0
TWC	1.03	27	iPc	13	21.40	0.3
			eS	13	36.90	
SSE	7.39	359	eP	14	51.10	-0.9
			e(S)	16	06.50	
			Lg	16	53.00	
CHG	21.42	261	eP	17	56.80	4.8X
CHTO	21.42	261	P	17	55.60	3.6X
	1.0s		5.75nm			3.9mb
	S.D. = 0.5		on 7 of 9 obs.			

% FEB 16, 1991 18h 28m 12.56± 0.69s
43.108 N ± 7.4km 0.568 W ± 4.7km
DEPTH = 5.0km (geophysicist)
PYRENEES (378)
MD 1.0 (STR).

ESCF	0.03	189	Pg	28	13.93	0.1
			Sg	28	15.08	
OGE	0.09	49	Pg	28	14.67	0.0
ATE	0.10	258	Pg	28	14.99	0.2
			Sg	28	16.57	
JAU	0.16	116	Pg	28	15.90	-0.1
			Sg	28	18.83	
ISSF	0.18	244	Pg	28	16.14	-0.3
			Sg	28	19.87	
MADF	0.19	282	Pg	28	16.43	0.0
			Sg	28	19.78	
	S.D. = 0.2		on 6 of 6 obs.			

? FEB 16, 1991 19h 02m 09.57± 3.40s
48.383 N ±43.7km 113.903 W ±23.8km
DEPTH = 5.0km (geophysicist)
MONTANA (456)
ML 3.0 (BUT).

NEW	2.15	268	eP	02	46.60	0.0
HRY	2.18	139	ePn	02	47.70	0.5
HBMT	2.74	161	ePn	02	56.20	1.0
LRM	2.75	158	ePn	02	54.30	-1.1
SXM	2.89	140	ePn	02	56.90	-0.4
DPW	2.93	262	e(P)	03	01.00	3.3X
MEMT	3.43	143	ePn	03	06.80	1.8X
	S.D. = 1.1		on 5 of 7 obs.			

FEB 16, 1991 19h 02m 13.13± 0.83s
32.441 N ± 6.0km 49.561 E ± 7.8km
DEPTH = 61.8 ± 10.5 km
4.0mb (3 obs.)
WESTERN IRAN (347)

KER	2.80	314	eP	02	57.00	0.4
TEH	3.62	24	eP	03	08.00	-0.1
BBU	6.25	173	iPn	03	45.30	0.5
			iSn	04	53.30	
BEE	6.46	172	iPn	03	48.30	0.6
RYD	8.12	199	eP	04	09.00	-1.8
AFIF	10.03	216	eP	04	37.30	0.2
GKN	30.54	89	P	08	22.78	-0.3
DMN	31.06	90	P	08	27.80	0.1
KKN	31.15	89	P	08	28.40	-0.1
PKI	31.33	89	P	08	29.94	-0.2
GUN	31.62	89	P	08	33.04	0.3
NB2	37.90	331	P	09	24.80	-0.8
	0.9s		2.00nm			4.0mb
BCAO	40.23	233	ePc	09	46.40	0.9
	0.6s		4.00nm			4.4mb
FBA	82.03	7	(P)	14	29.00	1.6
YKA	84.54	353	eP	14	39.00	-1.3
	0.6s		0.30nm			3.5mb
	S.D. = 0.9		on 15 of 15 obs.			

FEB 16, 1991 19h 18m 22.57± 0.57s
23.670 N ± 4.5km 121.350 E ± 8.3km
DEPTH = 10.0km (geophysicist)
3.9mb (1 obs.)
TAIWAN (244)

TWF1	0.32	189	iPc	18	29.30	0.1
			eS	18	33.50	
TWD	0.47	29	iPc	18	32.10	0.1
			eS	18	38.60	
TWQ	0.76	322	eP	18	37.50	0.0
TWG	0.88	197	ePd	18	39.40	-0.1
TWK	0.89	243	ePc	18	39.70	0.1
TWC	1.04	26	ePc	18	42.30	0.1
			eS	18	57.90	
ANP	1.52	6	eP	18	49.30	-0.5
SSE	7.40	359	eP	20	13.50	0.3
			e(S)	21	33.50	
			Lg	22	22.60	
CHTO	21.43	261	P	23	17.20	4.2X
	1.0s		5.00nm			3.9mb
	S.D. = 0.3		on 8 of 9 obs.			

* FEB 16, 1991 19h 34m 22.73± 2.20s
29.806 N ±23.9km 113.781 W ± 9.1km
DEPTH = 10.0km (geophysicist)
4.6mb (4 obs.)
GULF OF CALIFORNIA (49)

RDX	2.82	319	ePn	35	09.16	0.3
PBX	3.18	308	ePn	35	11.47	-2.4
ENX	3.23	311	ePn	35	17.56	3.1X
GLA	3.36	345	eP	35	14.00	-2.3
IKP	3.46	325	eP	35	23.00	5.1X
CBX	3.52	316	ePn	35	17.92	-0.7
BAR	3.79	320	eP	35	21.00	-1.4
PLM	4.41	324	eP	35	33.00	1.7
TPC	4.70	336	eP	35	41.00	5.6X
PEC	4.99	326	e(P)	35	45.00	5.6X
RVR	5.17	325	eP	35	49.00	7.0X
MWC	5.71	322	eP	36	06.00	16.2X
SBB	5.95	326	eP	35	58.00	4.9X
CLC	6.80	333	eP	35	57.00	-8.0X
ABL	6.82	319	eP	36	07.50	2.1
BCH	7.56	317	eP	36	15.00	-0.7
ALQ	8.04	49	eP	36	18.80	-3.7X
ANMO	8.04	49	eP	36	19.00	-3.5X
FRI	8.71	327	e(P)	36	36.90	5.2X
TNP	8.73	342	eP	36	33.00	0.8
MSU	8.79	8	eP	36	33.40	0.4
PV09	9.49	23	eP	36	42.00	-0.7
CMB	9.87	328	eP	36	50.40	2.7X
KVN	9.89	340	eP	36	51.50	3.4X
BW06	13.38	14	eP	37	37.40	2.0X
LRM	16.02	3	eP	38	14.20	4.3X
RSSD	16.25	26	eP	38	12.50	-0.3
	1.4s		34.30nm			4.3mb
NEW	18.61	353	eP	38	43.00	0.9
	0.9s		9.87nm			4.0mb
OLY	19.61	67	eP	38	54.00	-0.2
PNT	19.99	349	eP	39	02.00	4.0X
SES	20.67	5	ePd	39	05.00	-0.2
	1.2s		120.00nm			5.1mb
FVM	21.00	61	eP	39	10.50	1.9X
ELC	21.74	63	eP	39	15.00	-1.2
FFC	26.32	16	eP	40	00.00	-0.2
	1.7s		47.00nm			4.9mb
INK	40.25	349	eP	42	03.00	2.1
MBC	46.59	358	eP	42	54.00	1.9
	S.D. = 1.4		on 19 of 36 obs.			

% FEB 16, 1991 19h 38m 13.86± 2.49s
17.742 N ±21.6km 66.699 W ± 7.5km
DEPTH = 10.0km (geophysicist)
PUERTO RICO REGION (90)

PORP	0.32	11	P	38	20.60	0.2
MGP	0.46	305	P	38	23.10	0.0
SJG	0.64	55	iP	38	26.40	-0.3
CPD	0.80	68	P	38	29.90	0.5
LPR	0.97	54	P	38	32.00	-0.3
			S	38	45.00	
	S.D. = 0.5		on 5 of 5 obs.			

FEB 16, 1991 20h 26m 37.90± 0.34s
50.519 N ± 7.7km 177.430 W ± 3.8km
DEPTH = 48.7km (15 depth phoses)
4.8mb (36 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS. (7)
ML 4.7 (PMR).

ADK	1.44	19	iPc	27	00.40	-1.6
SMY	5.72	296	eP	28	00.90	-1.5
SDN	11.29	58	eP	29	15.10	-4.1X
SVW	16.12	41	eP	30	23.20	0.8
			i	30	26.50	
			i	30	38.80	
IMA	19.76	29	eP	31	04.90	-1.4
	1.1s		19.10nm			4.3mb
			e	31	08.00	12kmX
			i	31	18.50	
TOA	20.62	44	eP	31	16.70	1.4
FBA	21.11	36	eP	31	18.50	-1.7
SIT	25.38	59	e(P)	32	02.80	1.0
			i	32	18.00	65kmX
INK	27.68	34	eP	32	22.00	-0.8
			pP	32	34.00	47km
MBC	34.09	21	eP	33	19.00	-0.2
	1.0s		14.00nm			4.8mb
			pP	33	32.00	50km
YKA	35.20	46	eP	33	28.60	-0.3
	0.6s		1.80nm			4.2mb
PNT	36.43	69	eP	33	40.00	0.6
	0.8s		13.00nm			4.9mb
NEW	38.38	69	eP	33	55.50	-0.3
	0.9s		18.64nm			5.0mb
			epP	34	08.50	49km
EDM	38.48	60	iPc	33	57.00	0.4
LBFM	38.87	82	eP	34	01.30	1.1
WDC	38.88	83	eP	34	01.30	1.2
SES	40.97	63	ePd	34	16.80	-0.4
			pP	34	31.00	55km
CMB	41.71	85	eP	34	24.10	0.7
FRI	42.77	85	eP	34	32.50	0.5
TNP	43.69	82	eP	34	40.00	0.2
	0.8s		5.88nm			4.4mb
FFC	43.95	54	eP	34	41.00	-0.3
	0.8s		10.00nm			4.6mb
FFC	43.95	54	eP	34	54.00	12.7X
	0.8s		16.00nm			
CLC	44.83	85	eP	34	48.00	-0.8
SBB	45.39	87	eP	34	53.00	-0.3
GSC	45.66	85	eP	34	55.00	-0.4
BW06	45.74	72	eP	34	55.80	-0.4
	0.7s		5.85nm			4.6mb
			e	35	14.00	73kmX
BJI	46.41	284	eP	35	01.00	-0.1
	1.0s		12.00nm			4.8mb
MSU	46.61	79	eP	35	03.30	0.2
PLM	46.86	87	eP	35	05.00	-0.1
TPC	46.90	86	eP	35	04.00	-1.2
RSSD	48.29	68	eP	35	15.00	-1.1
GLA	48.35	86	eP	35	16.00	-0.6
BTO	49.86	288	eP	35	28.00	-0.1
GOL	50.10	73	eP	35	29.60	-0.6
	1.0s		8.13nm			4.7mb
			e	35	47.50	71kmX
TIY	50.14	284	Pc	35	30.50	0.2
FRB	53.31	32	eP	35	53.00	-0.6
LZH	56.46	288	Pc	36	15.50	-1.7
	1.5s		34.00nm			5.2mb
			pP	36	29.00	49km
GTA	56.70	293	iPd	36	17.80	-1.0
	0.8s		10.00nm			4.9mb

FVM	60.13	66	e(P)	36 40.00	-2.5
SCH	60.17	39	eP	36 42.00	-0.6
WMO	60.54	304	P	36 44.50	-0.8
SOD	61.04	350	iP	36 46.90	-1.4
HBVT	64.99	50	eP	37 19.70	5.0X
CBM	65.42	45	eP	37 30.00	12.6X
KAF	66.14	348	eP	37 20.00	-1.7
	0.7s	6.90nm		4.8mb	
NUR	67.90	34B	iP	37 30.80	-2.1
	0.8s	14.70nm		5.1mb	
			i	37 45.00	50km
JSC	67.99	63	eP	37 33.30	-0.6
LHS	68.10	62	eP	37 33.50	-1.0
			e	37 48.00	52km
NB2	68.58	355	P	37 36.40	-0.7
	0.9s	7.60nm		4.7mb	
UPP	69.30	352	iP	37 40.80	-0.7
GUN	72.99	293	Pd	38 05.00	0.4
	0.5s	62.00nm		5.8mb	
KKN	73.43	294	Pd	38 07.30	0.3
	0.6s	42.00nm		5.6mb	
PKI	73.52	293	Pd	38 07.68	0.0
	0.5s	12.00nm		5.1mb	
GKN	73.64	294	Pd	3B 08.28	0.1
	0.6s	48.00nm		5.6mb	
DMN	73.67	294	Pd	38 08.76	0.3
	0.5s	23.00nm		5.4mb	
EKA	74.41	3	P	3B 13.00	1.1
	0.8s	4.60nm		4.5mb	
WTS	77.80	357	eP	3B 32.00	1.0
	0.8s	8.00nm		4.8mb	
			e	38 45.00	44km
CLL	78.16	353	e(P)	3B 33.00	-0.1
KSP	78.34	351	eP	38 34.20	0.1
			e	3B 49.50	54km
BRG	78.52	353	eP	3B 35.50	0.4
	1.0s	20.00nm		5.1mb	
			i	3B 49.40	48km
ENN	79.05	358	eP	38 39.00	1.1
	0.7s	15.00nm		5.0mb	
			e	38 52.50	46km
SNF	79.34	359	P	3B 40.20	0.7
PRU	79.35	352	eP	38 40.00	0.4
			e	38 53.50	46km
DOU	79.75	359	P	38 42.80	1.1
			e	38 56.10	45km
GRF	79.90	354	ePd	38 43.60	1.1
			e	38 57.40	48km
ZST	80.87	350	eP	38 48.40	0.7
			e	39 02.40	48km
CDF	81.37	357	eP	38 51.10	0.7
	0.5s	1.45nm		4.2mb	
GRR	81.43	2	eP	38 52.00	1.4
HAU	81.80	357	eP	38 53.20	0.6
BSF	81.96	357	eP	38 54.10	0.5
	0.5s	2.90nm		4.6mb	
WRA	82.01	225	P	38 53.00	-0.9
	1.0s	2.10nm		4.1mb	
KBA	82.34	353	iPd	38 57.00	1.4
	0.8s	20.50nm		5.2mb	
			ic	38 57.30	1kmX
			i	39 11.20	
LOR	82.59	359	eP	38 57.60	0.9
	0.9s	6.55nm		4.7mb	
CMP	82.62	344	ePc	39 01.00	4.1X
SSF	82.80	359	eP	38 58.50	0.7
	0.9s	13.10nm		5.0mb	
LBF	82.87	359	eP	38 5B.70	0.5
	0.9s	8.20nm		4.8mb	
AVF	83.07	359	eP	38 59.80	0.7
	0.7s	5.50nm		4.7mb	
SMF	83.21	359	eP	39 00.50	0.6
	0.7s	8.80nm		4.9mb	
LSF	83.61	1	eP	39 02.70	0.8
	0.7s	7.70nm		4.8mb	
MAF	83.64	0	eP	39 03.40	1.3
	0.9s	9.85nm		4.8mb	
BEO	83.78	347	e(P)	39 03.00	0.2
LFF	84.91	1	eP	39 09.10	0.6
	0.7s	11.00nm		5.1mb	
LPO	85.17	1	eP	39 10.80	1.0
HYB	85.33	292	eP	39 25.00	13.9X
FIR	85.78	354	eP	39 14.50	1.7
GBA	88.98	290	P	39 28.00	-0.7
SLR	148.34	312	iPKPd	46 21.00	4.3X
			i	46 35.00	
S.D. = 0.9 on 80 of 87 obs.					

? FEB 16, 1991 21h 03m 15.36± 4.57s
29.483 N ±42.3km 114.059 W ±12.9km
DEPTH = 10.0km (geophysicist)
4.8mb (1 obs.)
BAJA CALIFORNIA (48)
ML 4.2 (GS).

SPX	1.98	322	ePc	03 49.10	-0.4
ECBX	2.16	337	ePn	03 55.50	3.7X
EMX	2.70	338	ePn	04 05.03	5.5X
RDX	2.93	327	ePn	04 05.99	2.9X
PBX	3.22	315	ePn	04 06.14	-0.8
ENX	3.28	317	ePn	04 07.64	-0.2
CBX	3.60	322	ePn	04 11.17	-1.3
IKP	3.61	331	eP	04 24.00	11.4X
GLA	3.62	350	eP	04 13.00	0.3
BAR	3.90	326	eP	04 20.00	3.4X
PLM	4.54	329	eP	04 28.00	2.1
TPC	4.91	340	eP	04 34.00	3.0X
PEC	5.13	330	e(P)	04 44.00	9.9X
RVR	5.31	329	eP	04 54.00	17.4X
MWC	5.82	325	eP	05 01.00	17.0X
GSC	6.25	339	eP	05 05.00	15.1X
CLC	6.98	336	eP	05 33.00	32.7X
ALQ	8.43	48	eP	05 15.00	-5.6X
TNP	8.97	344	eP	05 31.50	3.4X
MSU	9.14	9	eP	05 31.00	0.5
PV09	9.88	23	eP	05 39.00	-1.7
BW06	13.75	14	eP	06 33.50	0.6
PNT	20.26	349	eP	08 00.00	6.5X
SES	21.01	5	eP	08 01.00	-0.4
INK	40.52	349	eP	10 57.00	1.3
MBC	46.90	358	eP	11 50.50	3.3X
	1.5s	13.00nm		4.8mb	
S.D. = 1.2 on 11 of 26 obs.					

FEB 16, 1991 22h 15m 30.67± 0.48s
36.964 N ± 5.3km 28.667 E ± 5.9km
DEPTH = 17.4 ± 6.4 km
DODECANESE ISLANDS (369)
MD 3.9 (ATH), 3.8 (ISK).

YER	0.35	299	iPg	15 38.40	0.2
ELL	1.02	102	iPn	15 48.90	-0.7
KSL	1.12	139	iPnc	15 52.00	0.8
KHL	1.52	26	iPn	15 57.50	0.4
BCK	1.61	72	iPn	15 59.30	0.8
SMG	1.64	298	ePn	15 58.80	0.0
IZM	1.81	323	iPn	16 01.00	-0.4
KAP	1.86	221	ePn	16 05.00	3.0X
ALT	2.38	28	iPn	16 10.00	0.5
APE	2.51	273	ePb	16 21.20	9.8X
DST	2.64	359	iPn	16 13.00	-0.2
PRK	2.96	321	ePn	16 22.30	4.6X
NPS	3.00	236	ePn	16 21.00	2.7X
EDC	3.44	350	ePn	16 25.00	0.6
BNT	3.44	350	ePn	16 25.00	0.5
GPA	3.56	21	ePn	16 34.00	7.7X
HRT	3.93	11	ePn	16 44.00	12.5X
VAM	3.93	248	ePn	16 36.40	4.9X
ISK	4.11	4	ePn	16 47.00	13.0X
CSS	4.28	116	eP	16 37.50	1.0
BBTK	4.31	47	iPc	16 36.50	-0.5
VLI	4.60	269	ePn	16 46.10	5.0X
HLW	7.43	162	(P)	17 22.70	1.8
			(S)	18 39.00	
KOT	7.50	15B	ePn	17 21.50	-0.3
PRNI	8.45	140	eP	17 34.00	-1.2
MBH	8.86	142	eP	17 39.00	-1.8
S.D. = 1.0 on 17 of 26 obs.					

? FEB 16, 1991 22h 49m 14.55± 2.63s
39.213 N ±20.0km 22.802 E ±25.3km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 2.2 (THE).

AGG	0.41	243	eP	49 23.00	0.0
			eS	49 30.50	
LIT	0.92	345	eP	49 32.00	-0.1
KNT	1.95	2	eP	49 48.30	0.3
SRS	2.00	17	eP	49 48.50	-0.2
S.D. = 0.4 on 4 of 4 obs.					

FEB 16, 1991 23h 35m 40.77± 0.69s
42.435 N ± 5.8km 19.749 E ± 4.8km
DEPTH = 5.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.2 (TTG).

PVY	0.23	46	iPgd	35 44.32	-1.2
			iSg	35 48.35	
TTG	0.36	269	iPgd	35 47.55	-0.5
			iSg	35 54.57	
IVA	0.45	14	iPgd	35 49.39	-0.4
			iSg	35 57.17	
ULC	0.60	218	iPgc	35 52.02	-0.8
			iSg	36 01.82	
NKY	0.67	305	iPgc	35 54.95	0.8
			iSg	36 06.75	
BDV	0.70	258	iPgc	35 54.87	0.1
			iSg	36 06.14	
PLE	0.93	344	iPgd	35 59.64	0.5
			iSg	36 15.02	
BRY	1.00	298	iPgc	36 00.49	0.2
			iSg	36 17.42	
SKO	1.34	110	ePg	36 07.20	1.2
			iSg	36 22.60	
S.D. = 0.9 on 9 of 9 obs.					

& FEB 17, 1991 02h 11m 10.76s
61.279 N 150.673 W
DEPTH = 41.5km
SOUTHERN ALASKA (2)
<AEIC>.

SUA	0.19	350	iP	11 18.49	0.2
			eS	11 24.69	
PWA	0.53	45	eP	11 21.45	-0.5
			eS	11 30.60	
PMS	0.54	93	iP	11 21.75	-0.4
			iS	11 30.77	
NKA	0.60	207	eP	11 24.32	1.4
SPU	0.68	262	iP	11 23.40	-0.6
			iS	11 33.79	
CRP	0.72	270	eP	11 24.04	-0.7
			eS	11 35.03	
NCG	0.73	281	iP	11 24.03	-0.7
			eS	11 34.83	
PLRM	0.81	66	eP	11 24.60	-1.1
			eS	11 37.09	
SLKM	0.80	164	iP	11 24.84	-1.0
CKL	0.81	265	iP	11 25.10	-0.8
			eS	11 36.75	
SKT	0.81	330	iP	11 24.97	-1.0
BGL	0.83	270	iP	11 25.40	-0.8
			eS	11 37.15	
GHO	0.97	59	eP	11 27.39	-0.8
			eS	11 41.09	
KNK	1.08	82	eP	11 29.07	-0.6
			eS	11 43.72	
RDT	1.10	231	iP	11 29.24	-0.8
CUT	1.15	9	eP	11 29.64	-0.9
REF	1.27	232	eP	11 31.78	-0.7
RDN	1.28	234	eP	11 31.54	-1.0
			eS	11 48.18	
NNL	1.28	194	eP	11 32.70	0.2
			iS	11 49.70	
RSO	1.31	232	iP	11 32.33	-0.7
RS2	1.31	232	eP	11 32.35	-0.7
NCT	1.32	238	iP	11 32.38	-0.7
			eS	11 49.36	
SEW	1.32	152	eP	11 33.42	0.4
BRLK	1.52	184	eP	11 35.31	-0.7
			eS	11 54.72	
KNIM	1.72	122	eP	11 36.39	-2.3
CNPM	1.78	189	eP	11 38.78	-0.8
GLI	1.78	101	eP	11 37.42	-2.2
			eS	11 59.81	
LTI	1.86	131	eP	11 39.13	-1.6
VLZ	2.11	92	eP	11 42.20	-2.0
PDB	2.29	231	eP	11 45.96	-1.0
KLU	2.30	83	eP	11 44.90	-2.2
RND	2.30	21	eP	11 44.81	-2.3
TOA	2.30	67	eP	11 45.42	-1.7
TZL	2.62	71	eP	11 50.12	-1.4
SDG	2.73	60	eP	11 50.80	-2.4
35 obs. associated					

FEB 17, 1991 03h 19m 17.19± 0.61s
2.642 N ± 9.3km 96.118 E ± 6.5km
DEPTH = 23.5km (5 depth phases)
5.4mb (22 obs.)

17d 03h

NORTHERN SUMATERA (706)

IPM		5.26	68	ePc	20	37.90	1.4
		0.7s	329.90nm			6.0mb	
KLM		5.54	85	eP	20	41.50	1.2
SNG		6.35	45	eP	20	53.00	1.2
		1.1s	139.24nm			5.7mb	
NNT		10.51	20	eP	21	52.00	2.4
KHT		12.31	11	eP	22	05.00	-9.0X
PCT		13.05	23	eP	22	31.10	7.2X
CHTO		16.31	10	P	23	05.80	-0.6
KOD		20.00	293	eP	23	54.00	2.5
QIZ		21.11	39	eP	24	02.00	-0.7
	N	13s	1.10um				
	E	15s	1.70um				
GBA		21.44	302	P	24	11.00	5.0X
				S	27	21.00	
HYB		22.65	312	eP	24	20.00	1.9
SHL		23.15	350	eP	24	20.50	-2.7
				eS	28	31.50	
KMI		23.24	15	eP	24	25.00	0.9
		2.0s	150.00nm			5.2mb	
	Z	16s	1.80um			4.6MszX	
				pP	24	32.00	25km
GYA		25.75	22	iPd	24	48.00	-0.1
		1.4s	100.00nm			5.3mb	
	N	14s	1.90um				
	E	14s	1.10um				
PKI		26.82	339	P	24	57.92	-0.2
GUN		26.96	340	P	24	59.74	0.3
		1.0s	217.00nm			5.7mb	
DMN		26.97	338	P	24	59.44	0.0
		1.1s	164.00nm			5.6mb	
KKN		27.07	339	P	24	59.98	-0.3
		1.1s	248.00nm			5.8mb	
QCP		27.36	63	eP	25	06.00	3.2X
GKN		27.50	338	P	25	04.16	0.0
		1.0s	251.00nm			5.9mb	
BAG		27.68	59	eP	25	05.60	-0.3
CD2		29.03	14	P	25	16.40	-1.4
		0.8s	40.00nm			5.2mb	
	Z	12s	3.10um			5.1MszX	
NDI		31.54	327	iPc	25	39.80	-0.2
WHN		32.68	30	eP	25	49.50	-0.4
XAN		33.45	20	P	25	52.70	-3.9X
LZH		34.04	11	iPc	25	59.50	-2.4
		1.5s	100.00nm			5.5mb	
	Z	20s	0.73um			4.4Msz	
	E	11s	0.42um				
				pP	26	14.00	57kmX
				sP	26	19.50	
NJ2		36.24	34	eP	26	18.50	-2.0
GTA		36.75	5	iPc	26	24.00	-0.9
		1.2s	100.00nm			5.5mb	
	Z	20s	0.60um			4.4Msz	
				pP	26	30.80	23km
TIY		37.98	21	Pd	26	35.00	-0.2
	Z	15s	1.80um			5.0MszX	
	N	13s	1.50um				
QUE		38.91	318	eP	26	50.30	7.1X
BTO		39.82	17	P	26	51.00	0.5
HHC		40.51	18	P	26	57.20	1.0
		1.0s	80.00nm			5.4mb	
	Z	14s	0.90um			4.8MszX	
BJI		41.43	23	eP	27	05.00	1.4
		1.0s	160.00nm			5.7mb	
				pP	27	11.00	20km
WMQ		41.68	351	iPc	27	05.70	0.0
		1.2s	100.00nm			5.4mb	
	Z	20s	0.60um			4.5Msz	
				pP	27	14.20	29km
WB2		43.73	123	iPd	27	21.60	-1.1
ASPA		45.12	128	eP	27	33.00	-0.9
		1.4s	9.60nm			4.5mb	
SNY		46.14	29	iPd	27	41.20	-0.4
		1.0s	30.00nm			5.2mb	
CN2		48.53	28	P	27	59.60	-0.8
		0.5s	10.00nm			5.1mb	
	Z	14s	1.50um			5.1MszX	
				pP	28	05.80	21km
BCAO		77.43	274	ePd	31	14.10	1.2
		0.5s	4.00nm			4.7mb	
KAF		78.32	333	eP	31	16.00	-0.8
		0.7s	11.30nm			5.0mb	
NUR		78.64	331	eP	31	17.60	-1.0
		0.9s	12.00nm			4.9mb	
SOD		79.77	338	iP	31	23.20	-1.4
SRO		79.86	318	eP	31	25.20	-0.3
KEV		80.39	341	eP	31	38.00	10.1X
ZST		80.71	318	eP	31	29.70	-0.3
KSP		81.53	321	eP	31	34.50	0.2
UPP		81.95	330	iP	31	35.90	-0.3
NB2		85.23	331	P	31	46.10	-6.9X
		1.1s	8.50nm			4.9mb	
IMA		95.68	23	eP	32	42.90	0.7
		1.1s	10.90nm			5.2mb	
SVW		96.43	28	eP	32	46.60	1.0
INK		101.42	17	ePdiff	33	08.00	0.2
YKA		110.99	15	ePdiff	33	52.00	1.5
		0.6s	0.20nm				
ZOBO		159.41	228	ePKP	39	23.00	6.5X
		S.D. = 1.2	on	44 of	53	obs.	

? FEB 17, 1991 04h 07m 26.96± 5.35s
61.270 N ±14.5km 2.836 E ±44.0km
DEPTH = 10.0km (geophysicist)
NORWEGIAN SEA (642)
MD 2.2 (BER).

SUE		0.96	102	iPd	07	45.41	0.3
				eS	07	54.43	
ASK		1.40	123	eP	07	52.87	0.4
				iSg	08	06.73	
HYA		1.62	92	iP	07	55.09	-0.6
				eS	08	12.01	
ODD1		2.31	124	iP	08	05.44	-0.3
				eS	08	29.49	
MOL		2.58	58	eP	08	09.64	0.2
				eS	08	36.09	
		S.D. = 0.6	on	5 of	5	obs.	

* FEB 17, 1991 04h 37m 36.98± 0.79s
1.413 S ± 7.8km 77.960 W ±16.3km
DEPTH = 45.7 ± 13.0 km
4.7mb (1 obs.)
ECUADOR (107)
MD 4.5 (QUI).

TUNG		0.49	269	iP	37	48.20	0.0
VC1		0.89	330	iPd	37	53.00	-0.8
QTO		1.33	334	iPd	37	59.40	-0.4
				S	38	16.80	
QUR		1.36	335	iPd	38	00.80	0.6
				S	38	18.00	
CAYA		1.48	359	iPd	38	01.00	-1.1
				eS	38	19.00	
COTA		1.78	348	iP+	38	08.00	1.7
				S	38	32.50	
NNA		10.56	174	eP	40	07.50	-1.3
		0.6s	8.00nm			5.0mb X	
				eS	42	04.00	
ZOBO		17.66	147	P	41	43.00	1.0
	Z	20s	0.26um				
				LR	49	16.00	
LPB		17.89	148	eP	41	49.00	4.3X
				(S)	45	07.00	
CNCB		18.18	148	P	41	50.00	1.6
SIV		22.07	132	P	42	29.20	-0.6
GOL		48.00	331	P	46	14.00	0.2
		0.9s	7.58nm			4.7mb	
KIC		73.49	83	P	49	05.90	-1.5
INK		79.20	342	eP	49	39.00	0.6
		S.D. = 1.2	on	13 of	14	obs.	

? FEB 17, 1991 06h 37m 03.30± 8.04s
41.804 N ±57.8km 19.617 E ±20.9km
DEPTH = 10.0km (geophysicist)
ALBANIA (391)
ML 2.3 (TTG).

ULC		0.32	300	iPgd	37	10.03	0.1
				iSg	37	15.04	
TTG		0.68	337	iPgc	37	16.38	-0.4
				iSg	37	27.06	
BDV		0.76	309	iPgc	37	18.16	0.0
				iSg	37	30.68	
PVY		0.83	18	iPgc	37	19.03	-0.5
				iSg	37	31.78	
HCY		1.05	308	iPgc	37	22.76	-0.4
IVA		1.09	11	iPgd	37	24.39	0.6
BRY		1.35	324	iPgd	37	28.73	0.4
				iSg	37	49.98	
		S.D. = 0.5	on	7 of	7	obs.	

FEB 17, 1991 06h 59m 12.64± 0.12s
21.189 S ± 3.3km 169.831 E ± 3.6km
DEPTH = 58.5km (10 depth phases)
5.6mb (40 obs.)
LOYALTY ISLANDS REGION (189)
Ms 5.6 (BRK). Mo=1.0*10**18 Nm
(PPT).
CENTROID, MOMENT TENSOR (HRV)
Doto Used: GDSN
L.P.B.: 20S, 44C
Centroid Location:
Origin Time 06:59:19.8 0.3
Lot 21.02S 0.03 Lon 169.46E 0.03
Dep 59.6 1.2 Half-duration 3.6
Moment Tensor; Scale 10**17 Nm
Mrr=-5.95 0.14 Mtt= 2.06 0.26
Mff= 3.88 0.27 Mrt=-1.44 0.18
Mrf= 4.80 0.18 Mtf= 6.89 0.19
Principal Axes:
T Val= 10.39 Plg=10 Azm=308
N -0.85 36 211
P -9.54 52 51
Best Double Couple:Mo=1.0*10**18
NP1:Strike= 73 Dip=47 Slip= -37
NP2: 190 64 -131

DZM		3.27	254	iPd	00	01.90	-0.8
				iS	00	37.70	
PVC		3.72	337	iPc	00	10.50	1.6
				iS	00	56.00	
BKM		3.81	337	iP	00	11.50	1.3
				iS	00	59.30	
NDF		7.96	66	eP	01	11.80	3.6X
SVA		8.68	71	ePd	01	22.90	4.7X
HNR		15.07	319	ePc	02	44.00	0.4
				eS	05	45.00	
SVO		15.37	320	eP	02	49.00	1.5
				eS	05	48.00	
BRS		16.72	245	iPd	03	06.70	2.1
				i	03	22.00	
				i	03	29.00	
				iS	06	21.00	
				eScS	11	30.00	
WLZ		17.33	165	eP	03	13.70	1.8
HBZ		17.93	158	eP	03	22.40	3.1X
PUZ		18.33	158	P	03	25.80	1.4
KETZ		18.54	166	eP	03	30.00	3.0X
COO		18.63	236	eP	03	31.00	2.9X
NOZ		18.75	160	P	03	30.10	0.6
AFI		18.96	71	P	03	30.50	-1.6
				eS	07	08.00	
MNG		19.96	167	P	03	42.80	0.2
RMQ		19.98	251	eP	03	44.00	1.0
KIW		20.08	169	eP	03	44.70	0.8
				e	05	26.00	
PGZ		20.13	166	P	03	43.90	-0.5
		0.7s	320.00nm			5.8mb	
TCW		20.31	170	Pc	03	47.20	0.9
CAW		20.35	169	P	03	46.50	-0.2
MRW		20.40	169	P	03	47.30	0.1
WEL		20.47	169	P	03	48.00	0.1
				S	07	36.00	
MTW		20.48	168	P	03	47.20	-0.8
WDW		20.49	169	P	03	48.00	-0.1
THZ		20.68	173	P	03	51.00	0.9
BLW		20.68	168	P	03	49.00	-1.0
MOW		20.69	168	eP	03	49.60	-0.5
RIV		20.76	229	eP	03	52.00	1.1
KHZ		21.39	172	P	03	56.50	-0.7
		0.7s	95.00nm			5.3mb	
CTA		22.09	269	iP	04	06.00	1.7
		1.2s	246.88nm			5.5mb	
				iS	08	06.00	
CNB		22.81	228	iPc	04	14.90	3.5X
CMS		23.78	240	iPc	04	23.00	2.2
		0.7s	60.00nm			5.2mb	
				e	04	36.00	53km
QLP		23.99	252	iPc	04	24.20	1.3
				i	04	37.60	55km
PMG		24.77	295	iPd	04	31.10	0.7
		1.0s	700.00nm			6.1mb	
QIS		28.23	266	iPc	05	02.00	-0.2
RAR		28.32	96	eP	05	20.00	17.0X
				S	09	48.00	
BFD		28.52	230	eP	05	06.00	1.3
				e	05	19.00	52km
TAU		28.70	216	iPc	05	07.00	0.8

ADE	30.56	237	e(P)	05	21.60	-1.3		Z	26s	2.10um		5.3MszX	WDC	87.84	45	iPd	11	57.90	1.1
WB2	33.20	266	iPd	05	44.80	-1.3				S	20	24.00	MWC	87.92	52	eP	11	58.00	0.4
			iPcP	08	27.40		TIA	75.76	318	Pd	10	54.60 0.6	LTCM	87.93	45	P	11	58.50	1.3
			eS	10	59.60			1.4s	100.00nm			5.6mb	FRI	88.02	49	iPd	11	58.50	0.8
ASPA	33.25	259	iPd	05	45.90	-0.7		Z	23s	1.50um		5.2MszX	ORV	88.02	46	eP	11	58.50	0.8
	0.4s	116.10nm				6.1mb				S	20	30.00	CMB	88.04	48	iPd	11	58.80	0.9
			eS	10	59.30		SNY	75.90	326	iPd	10	54.60 0.0	ISA	88.28	51	eP	12	00.00	0.9
MTN	37.84	276	iPc	06	25.70	0.1		1.2s	50.00nm			5.3mb				e	15	27.00	
	0.3s	87.00nm				6.2mb		Z	28s	1.50um		5.2MszX	SBB	88.30	52	eP	12	00.00	0.7
FORR	38.53	247	eP	06	31.00	-0.2				S	20	34.00	RVR	88.32	53	eP	12	00.00	0.7
	0.4s	75.00nm				5.9mb	CN2	76.40	329	iPd	10	57.60 0.2	MIN	88.34	45	eP	11	59.80	0.4
KNA	39.24	271	eP	06	37.00	-0.3		1.4s	300.00nm			6.1mb	PLM	88.41	53	eP	12	00.00	0.0
	0.5s	95.00nm				5.9mb		Z	22s	5.50um		5.8Msz	PEC	88.43	53	P	12	00.10	0.2
WARB	39.73	254	eP	06	41.40	0.1				pP	11	14.00 59km	LBFM	88.65	44	P	12	02.50	1.5
	0.5s	25.00nm				5.3mb				S	20	38.00	SHL	88.75	298	eP	12	02.00	0.2
GUA	42.31	322	eP	07	03.20	0.7				SS	25	36.00				eS	22	24.00	
Z	20s	4.26um				5.3Msz	NNT	76.57	289	eP	11	01.20 2.3	PMR	88.79	18	eP	12	00.90	0.0
			eS	13	20.50		GYA	77.39	305	iPd	11	04.00 0.6		1.5s	63.40nm				5.7mb
PJG	42.37	322	eP	07	03.20	0.2		1.4s	100.00nm			5.6mb	GTA	88.86	313	iPd	12	02.80	0.9
MBL	46.46	261	iPd	07	35.90	0.1				pP	11	20.00 57km		1.4s	80.00nm				5.8mb
MEKA	46.96	253	iPc	07	39.70	0.0				sP	11	30.00	Z	32s	2.40um				5.4MszX
KLB	47.40	246	eP	07	42.20	-1.0				S	20	50.00	E	20s	1.70um				
	0.4s	31.00nm				5.6mb	NST	77.56	292	eP	11	07.00 2.7				pP	12	19.00	56km
NWAO	47.85	244	eP	07	46.00	-0.6	KHT	78.51	291	eP	11	10.70 1.1				SKS	22	24.00	
	0.6s	43.00nm				5.6mb	BJI	78.79	321	eP	11	11.00 0.3				S	22	45.00	
MUN	48.72	246	eP	07	54.00	0.7		1.5s	120.00nm			5.6mb				sS	23	12.00	
Z	20s	10.00um				5.8Msz		Z	24s	1.27um		5.2MszX				SS	28	39.00	
MRWA	49.01	249	eP	07	55.00	-0.6				epP	11	24.00 44kmX	CLC	88.98	51	eP	12	03.00	0.5
NANU	50.18	258	eP	08	04.50	-0.1				eS	21	06.00	GSC	89.32	52	eP	12	05.00	0.8
	0.4s	14.00nm				5.3mb				esS	21	28.00				e	15	35.00	
DAV	51.73	298	eP	08	16.90	0.4	TIY	79.64	317	iPd	11	16.00 0.6	BONR	89.46	49	P	12	05.80	0.8
OCP	59.65	302	eP	09	16.50	3.1X		5.0s	800.00nm			5.9mb X	KLU	89.69	20	P	12	05.80	0.5
BAG	61.07	304	eP	09	22.00	-1.3		Z	25s	1.80um		5.3MszX	GLA	89.81	54	eP	12	08.00	1.6
			e	17	30.00			E	18s	1.70um			TOA	90.08	19	eP	12	07.00	-0.1
KAKJ	63.60	333	P	09	39.30	-0.3				pP	11	36.00 74kmX	KVN	90.10	48	P	12	08.30	0.5
IIDJ	63.97	331	P	09	41.70	-0.4				sP	11	45.50	TNP	90.27	49	P	12	09.00	0.3
CHJJ	63.97	332	P	09	41.40	-0.6				S	21	16.00		1.2s	44.35nm				5.7mb
WKYJ	64.01	329	eP	09	39.90	-2.5				sS	21	41.00	RND	90.31	17	P	12	07.00	-1.1
KAGJ	64.09	323	P	09	43.10	0.2	KMI	79.77	302	Pd	11	18.00 1.4	BMW	90.41	39	P	12	10.00	1.1
TKSJ	64.59	327	eP	09	44.70	-1.4		1.5s	330.00nm			6.0mb	BALM	90.51	21	P	12	09.50	0.4
MAT	64.73	332	eP	09	45.00	-1.9		Z	25s	1.60um		5.3MszX	SHW	90.86	40	P	12	12.20	1.2
	1.1s	98.73nm				5.7mb				pP	11	34.00 57km	LSA	91.02	301	eP	12	13.40	0.8
			eS	18	13.00					S	21	17.00	GMW	91.21	39	P	12	13.30	0.8
TSRJ	64.90	330	P	09	48.10	0.1	XAN	79.83	313	iPd	11	15.50 -1.0	IMA	91.26	14	eP	12	12.50	0.0
MTMJ	64.94	332	P	09	48.00	-0.4				pP	11	38.00 85kmX		2.2s	74.90nm				5.7mb
NIIJ	64.98	333	P	09	48.50	0.0				S	21	15.50	LON	91.39	40	P	12	13.00	-0.4
KUMJ	65.15	324	P	09	49.60	-0.1	CHTO	79.96	295	iPd	11	19.00 1.5	PGC	91.39	38	eP	12	14.00	0.8
SHK	65.71	327	eP	09	52.50	-0.8	SDN	80.31	17	P	11	17.40 -1.1	RMW	91.74	39	P	12	15.50	0.5
YONJ	65.84	328	eP	09	52.20	-1.9		1.2s	151.52nm			5.8mb	MCW	91.76	38	P	12	16.20	1.2
SHNJ	66.21	325	eP	09	55.70	-0.8	CD2	81.86	307	P	11	28.00 0.8	FBA	91.77	17	eP	12	13.30	-1.4
QZH	67.69	310	eP	10	08.00	2.0				pP	11	41.00 44kmX	CRZF	92.48	218	eP	12	27.00	8.5X
Z	40s	4.00um				5.3MszX				sP	11	48.00				eS	23	12.00	
E	40s	4.00um								S	21	37.00	PNT	93.92	38	ePd	12	25.00	0.1
		S		19	00.00		HHC	82.05	319	Pd	11	29.40 1.3		0.7s	9.00nm				5.3mb
SPA	68.94	180	iPd	10	14.00	0.5		1.3s	150.00nm			5.8mb	MSU	94.05	50	P	12	27.20	1.2
	1.0s	100.00nm				5.7mb		Z	26s	2.80um		5.5MszX	GUN	94.61	298	PKP	12	29.46	0.5
Z	20s	1.44um				5.2Msz				S	21	41.50	PKI	94.87	298	PKP	12	30.48	0.3
		i		10	32.00	67km	BTO	82.85	318	P	11	33.00 0.7	NEW	94.91	40	P	12	32.20	2.7
SSE	69.86	317	Pd	10	18.50	-0.8	LZH	84.44	312	iPd	11	41.20 0.7		1.0s	5.63nm				5.0mb
	1.1s	58.00nm				5.4mb		1.5s	310.00nm			6.1mb	KKN	95.06	298	PKP	12	31.34	0.4
Z	20s	1.40um				5.2Msz		Z	38s	2.74um		5.4MszX	DMN	95.14	297	PKP	12	31.88	0.6
		S		19	20.00			N	20s	2.01um				1.1s	88.00nm				6.1mb
		sS		19	48.00					pP	11	59.00 64km	GKN	95.66	298	PKP	12	33.52	-0.1
		ScS		20	17.00					sP	12	06.00	LRM	96.78	43	eP	12	37.60	-0.8
GZH	70.47	305	Pd	10	24.60	1.4				SKS	21	56.00	ALQ	96.94	55	eP	12	38.60	-0.7
Z	32s	2.00um				5.2MszX				S	22	04.00		1.5s	11.81nm				5.2mb
		S		19	34.00		AIA	84.52	160	eP	11	42.10 1.9	Z	18s	1.37um				5.5Msz
QIZ	71.03	300	P	10	27.00	0.3	GCC	86.43	48	eP	11	51.50 1.4	GBA	97.00	282	Pd	12	39.30	-0.3
		PP		13	06.50		PRS	86.53	49	eP	11	52.20 1.6		0.6s	5.80nm				5.3mb
		S		19	42.00		SVW	86.61	16	eP	11	51.50 1.0	HYB	97.28	286	eP	12	41.50	0.6
NJ2	71.99	316	Pd	10	32.70	0.5	BRK	86.67	47	eP	11	52.50 1.3				e	13	00.00	66km
	1.4s	100.00nm				5.6mb	SAO	86.69	49	eP	11	52.40 1.0	WMQ	98.95	313	iPd	12	48.00	0.1
Z	26s	1.40um				5.1MszX	BKS	86.69	47	iPd	11	52.40 1.0	Z	28s	1.70um				5.4MszX
		S		19	46.00			0.8s	47.00nm			5.7mb				PP	16	55.50	
SNG	73.50	285	eP	10	42.20	0.9	Z	20s	1.80um			5.5Msz				SKS	23	18.00	
		eS		20	00.80		N	20s	0.70um				SES	99.41	40	eP	12	51.00	1.1
ADK	73.71	9	e(P)	10	40.90	-0.9	E	20s	2.10um				YKA	102.14	27	ePdiff	13	07.00	5.2X
WHN	74.06	312	Pd	10	45.00	0.7				e(PS)	23	36.00		0.5s	2.40nm				5.1mb
	1.0s	30.00nm				5.2mb				eLQ	34	50.00	MBC	105.99	14	ePKPc	17	29.50	-1.1
Z	24s	1.40um				5.2MszX				eLR	38	40.00		0.5s	4.00nm				
		eS		20	14.00		MHC	86.83	48	eP	11	52.50 0.3	ZOBQ	112.06	119	ePKP	17	44.00	-0.5
DL2	74.90	323	P	10	49.50	0.6	RSQ	86.84	18	P	11	52.80 0.9				LR	18	56.00	
	1.0s	400.00nm				6.3mb	BCH	86.89	50	P	11	54.00 1.5	SIV	117.88	122	PKPc	17	54.00	-1.0
Z	28s	2.20um				5.3MszX	ARN	86.91	48	P	11	54.10 1.6	FRB	122.65	27	ePKPd	18	00.80	-1.8
		S		20	22.00		PRI	86.93	49	eP	11	54.70 2.0	BUL	124.09	225	iPKPc	18	07.10	0.1
MDJ	75.09	331	iPd	10	50.00	0.0	LLA	86.97	49	eP	11	54.20 1.4		0.8s	26.87nm				
	1.2s	100.00nm				5.6mb	ABL	87.36	51	P	11	55.80 0.9	PTZ	126.14	233	iPKPc	18	10.20	-0.8

17d 07h

			i	18	25.60					i	22	21.00					i	18	54.40				
			i	18	35.00		GRG	146.13	313	ePKPc	18	46.38	-0.6	SOTA	148.79	331	iPKPc	18	50.50	-0.6
SCH	126.17	37	ePKP	18	08.00	-1.8	HOF	146.13	334	ePKP	18	46.20	-0.5		1.8s	98.90nm					
JFO	126.45	141	(PKP)	18	13.00	1.6	SKO	146.31	315	ePKP	18	46.80	-0.4				id	18	54.80		
KEV	126.56	345	iPKP	18	09.40	-0.7		1.2s	435.00nm					HVAR	148.79	321	iPKPd	18	54.00	2.9X
	0.8s	33.70nm						Z 20s	0.93um			5.6Msz		GWF	148.85	337	PKP	18	51.14	0.1
LSZ	127.75	229	ePKP	18	17.00	2.9X		N 20s	1.24um					DOU	148.88	341	iPKPd	18	55.10	4.1X
SOD	128.35	343	iPKP	18	13.00	-0.5		E 20s	0.61um								i	19	14.80		
KMZ	130.65	229	ePKP	18	21.00	1.4				i	18	48.50		ECP	148.93	355	ePKP	18	53.90	2.9X
KAF	132.07	338	ePKP	18	20.10	-0.6				i	19	14.80			0.8s	142.00nm				
	0.5s	23.40nm								i	22	22.80		VVI	149.13	329	PKP	18	51.90	0.3
NUR	133.74	337	ePKP	18	22.70	-1.2	ATH	146.35	307	ePKP	18	47.50	0.2	OGA	149.14	331	iPKPc	18	51.80	0.0
	0.5s	35.60nm					LIT	146.43	312	ePKPc	18	46.86	-0.6	VAL	149.31	0	ePKP	18	56.00	4.5X
PDCR	136.05	137	ePKP	18	15.30	-14.4X	WTS	146.54	341	ePKP	18	47.00	-0.2	WLS	149.41	337	PKP	18	51.76	-0.2
			e	18	20.70			1.0s	74.00nm					CDF	149.44	337	PKP	18	51.56	-0.5
			e	18	30.20					e	22	22.00		CTI	149.46	329	PKP	18	51.20	-1.0
UPP	136.62	340	iPKP	18	30.00	0.6	WET	146.60	332	iPKPc	18	47.50	0.0	FEL	149.61	335	ePKP	18	52.16	-0.2
SOB1	137.30	132	ePKP	18	19.50	-12.7X	VAM	146.77	303	ePKP	18	50.00	1.9	BRT	149.62	316	PKP	18	56.30	3.9X
			e	18	33.90		KMR	146.83	330	iPKP+	18	45.40	-2.4	ECH	149.65	337	PKP	18	51.65	-0.6
			e	22	03.50					i	18	50.20		MOF	149.96	336	PKP	18	52.50	-0.4
NB2	137.46	345	PKP	18	21.60	-9.5X	KZN	146.84	312	ePKP	18	45.80	-2.4	VITF	150.07	338	PKP	18	52.47	-0.3
	0.5s	7.70nm					IVA	146.86	318	iPKPd	18	49.97	1.8	BSF	150.11	337	PKP	18	52.76	-0.3
BMR	142.16	322	ePKPd	18	38.00	-2.0	GRF	146.88	334	ePKPd	18	47.50	-0.4	HAU	150.12	337	ePKP	18	52.20	-0.8
TNR	142.74	319	ePKPd	18	37.00	-4.1X		Z 21s	1.00um			5.6Msz			Z 22s	1.65um				5.8Msz
SPC	143.05	326	ePKP	18	39.80	-1.9				id	18	50.20		BBS	150.14	336	PKP	18	52.86	-0.2
ALN	143.62	311	ePKPd	18	38.90	-3.7X	DBN	146.92	343	ePKP	18	46.00	-1.8	SAL	150.31	330	PKP	18	56.50	3.2X
GZR	143.78	320	iPKPc	18	41.00	-1.9	PLE	146.93	319	iPKPd	18	50.49	2.2	LOMF	150.50	336	PKP	18	53.47	-0.2
KSP	143.86	331	iPKPd	18	40.00	-2.7	PVY	146.95	317	iPKPd	18	50.07	1.7	ORI	150.54	316	PKP	18	56.90	3.1X
	0.7s	54.00nm					OHR	147.14	314	iPKP	18	47.70	-0.9	MDI	150.56	331	PKP	18	57.70	4.1X
			i	19	02.00			0.6s	345.00nm					ARV	150.58	324	PKP	18	53.80	0.0
			i	22	16.00					i	18	50.50		TDS	150.82	315	PKPd	18	59.80	5.5X
RDO	143.88	312	ePKP	18	40.20	-2.9				i	19	08.70		SFI	150.87	326	PKP	18	54.40	0.2
PSZ	144.02	325	iPKP	18	41.00	-2.2	BNS	147.32	340	ePKPd	18	47.50	-1.0	DUI	150.88	320	PKP	18	59.20	4.8X
PRK	144.04	308	ePKP	18	40.80	-2.6				id	18	51.00		VAI	150.91	332	PKP	18	53.40	-0.7
PLD	144.08	314	iPKPd	18	41.00	-2.4	VLI	147.35	306	ePKP	18	50.30	1.3	PGD	150.97	326	PKP	18	57.60	3.0X
SMG	144.09	306	ePKP	18	41.00	-2.5	PTJ	147.38	325	ePKP	18	47.90	-1.0	SGO	151.00	317	PKP	18	59.70	5.2X
PGB	144.25	314	iPKPd	18	42.00	-1.8	EVR	147.39	310	ePKP	18	50.90	1.8	ASS	151.02	324	PKP	18	59.60	5.1X
EDU	144.29	353	ePKPd	18	40.40	-2.9	ZAG	147.42	325	iPKPd	18	49.00	0.2	CRE	151.02	326	PKP	18	59.80	5.2X
	0.6s	57.00nm					BLY	147.43	323	ePKP	18	51.80	2.9X	AQU	151.07	322	PKP	19	00.50	5.9X
BZS	144.36	321	ePKPc	18	47.00	3.3X	NKY	147.45	318	iPKPd	18	51.54	2.4	MGR	151.07	317	PKP	18	59.60	5.0X
KAP	144.39	302	ePKP	18	42.20	-1.9	TTG	147.49	317	iPKPd	18	51.39	2.4	SDI	151.24	321	PKPd	19	00.10	5.2X
EBH	144.64	354	ePKP	18	41.70	-2.2	TNS	147.51	338	ePKPd	18	48.20	-0.7	MME	151.27	328	PKPd	18	59.70	4.6X
BUD	144.75	325	iPKP	18	43.30	-1.0	BCAO	147.53	243	iPKPd	18	49.50	-0.5	FIR	151.28	327	ePKP	18	54.00	-0.8
EAB	144.78	354	ePKPd	18	42.20	-1.9		0.8s	88.00nm					BDI	151.41	328	PKP	18	59.70	4.6X
BRG	144.85	333	iPKPd	18	43.60	-0.8				ic	19	07.30		FLN	151.42	347	ePKP	18	54.30	-0.5
			i	18	48.20		BHG	147.66	330	iPKPc	18	48.80	-0.4		1.6s	136.80nm				
			i	18	57.20					i	18	52.20			Z 22s	1.75um				5.8Msz
			i	22	18.20		BRY	147.69	319	iPKPd	18	51.92	2.4	ORX	151.43	333	PKP	19	00.24	5.1X
CLL	144.91	335	iPKP	18	43.10	-1.4	ULC	147.74	317	iPKPd	18	52.02	2.5	ORO	151.44	333	PKP	18	51.40	-3.7X
	1.4s	280.00nm					BDV	147.84	317	iPKPd	18	52.26	2.6	BOB	151.45	330	PKP	19	01.00	5.9X
			iSKP	22	18.80		ENN	147.88	341	ePKP	18	49.00	-0.4	MNS	151.46	323	PKP	18	54.00	-1.2
SRO	144.92	326	iPKP	18	42.80	-1.8		1.2s	216.00nm					LDF	151.50	346	ePKP	18	54.20	-0.8
EAU	145.03	353	ePKPd	18	43.30	-1.3	KBA	147.90	329	ePKP	18	48.00	-1.8		1.5s	B3.55nm				
	0.6s	105.00nm						0.7s	97.90nm					LOR	151.61	340	ePKP	18	54.70	-0.5
EBL	145.06	353	ePKPd	18	43.20	-1.4				id	18	52.00			1.5s	47.00nm				
	0.7s	64.00nm								i	18	57.20			Z 22s	2.42um				6.0Msz
SRS	145.24	313	ePKPd	18	43.78	-1.7				e	22	22.00		PII	151.70	327	PKPd	19	00.20	4.8X
PRU	145.25	332	iPKPd	18	44.60	-0.5				i	22	24.10		SOI	151.81	312	PKPd	19	02.30	6.5X
	1.6s	262.50nm					HCY	147.96	318	iPKPd	18	52.39	2.6	LBF	151.82	339	ePKP	18	54.90	-0.7
	Z 24s	2.10um				5.8MszX	MEM	148.00	340	PKP	18	46.30	-3.2X	GRR	151.85	347	ePKP	18	55.10	-0.4
	N 24s	2.10um								e	18	49.60			1.8s	112.20nm				
	E 24s	0.60um								id	18	52.50		SSF	151.90	340	ePKP	18	55.00	-0.7
			e	19	04.00		FUR	148.04	332	iPKPc	18	49.80	0.0		0.9s	13.10nm				
			i	22	19.90					i	18	53.00		LSD	151.92	334	PKP	19	02.80	6.7X
ZST	145.29	327	ePKP	1B	44.20	-1.0	IGT	148.17	312	ePKPd	18	52.82	2.6	RSL	151.95	334	PKP	19	02.36	6.4X
BEO	145.48	320	ePKP	18	43.50	-2.2	UCC	148.32	342	PKPc	18	50.20	0.1	LPL	152.05	334	ePKP	18	55.80	-0.4
EKA	145.50	353	PKPd	18	44.30	-1.1				id	18	53.60			1.2s	17.85nm				
	0.8s	103.40nm					ETA	148.40	355	ePKP	18	52.90	2.8X	LPG	152.05	334	ePKP	18	55.70	-0.6
ESK	145.52	353	iPKPd	18	44.80	-0.6		1.2s	170.00nm						1.5s	47.00nm				
	0.8s	132.00nm					FVI	148.52	329	PKP	18	49.30	-1.2	RSP	152.12	333	PKP	19	02.09	5.9X
UZD	145.53	324	iPKP	18	46.00	0.3	WATA	148.54	331	iPKPc	18	50.00	-0.8	SMF	152.16	339	ePKP	18	55.30	-0.8
VKA	145.63	328	ePKP	18	45.00	-0.9		1.8s	106.00nm						1.5s	33.95nm				
	4.5s	1847.00nm								id	18	53.90		AVF	152.19	340	ePKP	18	55.20	-0.9
			ic	18	47.20		VLS	148.56	309	ePKP	18	54.70	3.8X	LPF	152.23	347	ePKP	18	55.60	-0.5
			i	19	02.80		WTTA	148.56	331	iPKPc	18	50.40	-0.5		1.3s	72.20nm				
			i	19	06.70			2.0s	234.00nm					CKI	152.25	331	PKP	19	01.60	5.4X
PLG	145.65	311	ePKP	18	45.40	-0.8				i	18	54.30		MAO	152.28	325	PKP	19	01.50	5.1X
PAIG	145.66	311	ePKPd	18	44.74	-1.4	RIY	148.58	326	ePKP	18	53.40	2.7	BHB	152.37	333	PKP	19	01.88	5.4X
NPS	145.70	302	ePKP	18	47.20	0.8	SNF	148.60	342	PKPd	18	50.80	0.3	BNI	152.45	334	PKP	18	51.80	-4.9X
KNT	145.70	313	ePKPc	1B	45.06	-1.2				ic	18	54.20		FIN	152.45	331	PKP	19	02.50	5.9X
VAY	145.85	313	iPKP	18	46.40	0.0	TRI	148.66	327	iPKPc	18	50.20	-0.6	RRL	152.51	333	PKP	19	03.93	7.0X
	1.2s	198.00nm								e	33	38.00		ROB	152.53	331	PKP	19	02.60	5.9X
WIT	145.87	342	ePKP	18	47.00	1.0				e	36	20.00		BGF	152.56	340	ePKP	18	55.90	-0.7
			e	22	21.50					e	43	16.00			1.2s	34.20nm				
THE	145.88	312	ePKPd	18	45.06	-1.4				e	48	36.00		DOI	152.64	332	PKP	19	02.20	5.3X
MOX	145.98	335	iPKP-	18	46.00	-0.4	MOTA	148.74	332	iPKPc	18	50.40	-0.7	PZZ	152.71	332	PKP	19	02.80	5.7X
	2.0s	328.00nm						0.7s	89.80nm					ENR	152.79	332	PKP	19	01.91	4.8X

STV 152.82 332 PKP 19 02.50 5.4X
IMI 152.82 331 PKP 19 03.62 6.5X
FOUF 152.82 333 e(PKP)18 57.05 0.1
i 19 04.78
PLDF 152.83 339 PKP 18 56.74 -0.4
SAOF 152.92 331 PKP 18 57.28 0.1
MAF 152.95 340 ePKP 18 56.60 -0.6
1.6s 49.75nm
AUTN 152.97 331 PKP 18 57.85 0.3
TCF 153.00 341 ePKP 18 56.70 -0.6
1.6s 105.70nm
TOUF 153.03 332 PKP 19 00.03 2.4
SBF 153.07 331 ePKP 18 56.40 -1.1
1.3s 83.05nm
AURF 153.10 331 PKP 18 59.06 1.5
SSB 153.09 337 PKP 19 05.03 7.6X
PYM 153.22 339 PKP 18 57.49 -0.2
LSF 153.24 342 ePKP 18 56.90 -0.7
1.6s 90.15nm
PGF 153.31 327 PKP 18 57.74 -0.2
LBL 153.60 338 PKP 18 57.87 -0.2
FRF 153.66 332 ePKP 18 57.60 -0.6
1.7s 110.30nm
LRG 153.87 332 ePKP 18 58.40 -0.1
1.4s 87.15nm
Z 22s 1.13um 5.6Msz
LMR 153.90 332 ePKP 18 57.90 -0.6
RJF 154.10 341 ePKP 18 58.70 -0.1
1.5s 83.55nm
Z 21s 0.13um 4.7Msz
CAF 154.26 340 ePKP 18 59.20 0.1
1.6s 87.05nm
LFF 154.66 342 ePKP 18 59.70 0.2
1.5s 104.45nm
LPO 154.76 341 ePKP 18 59.80 0.2
1.6s 124.40nm
EPF 156.51 340 ePKP 19 02.20 0.0
1.5s 83.55nm
GUD 159.94 347 ePKP 19 06.40 0.1
LIC 164.31 199 PKP 19 10.60 -0.6
KIC 164.35 200 PKP 19 10.50 -0.8
TIC 164.71 200 PKP 19 11.50 -0.1
LKO 167.61 202 PKP 19 13.60 -0.3
S.D. = 1.2 on 306 of 367 obs.

FEB 17, 1991 07h 00m 36.54± 0.52s
33.465 N ±10.1km 72.026 E ± 7.9km
DEPTH = 33.0km (normal)
4.6mb (4 obs.)
PAKISTAN (710)

QUE 5.42 234 eP 01 57.50 0.2
eS 02 43.00
NDI 6.52 136 iPnd 02 13.00 0.3
iPg 02 39.00
iSn 03 24.50
iSg 03 57.00
GKN 12.13 113 P 03 30.00 -0.2
DMN 12.69 114 P 03 37.00 -0.7
KKN 12.73 113 P 03 37.60 -0.6
PKI 12.94 113 P 03 40.40 -0.7
GUN 13.14 111 P 03 43.80 0.0
POO 14.96 173 eP 04 15.00 7.6X
HYB 17.02 158 eP 04 27.00 -6.8X
GBA 20.38 165 P 05 09.00 -4.2X
S 08 29.00
CHTO 28.12 115 (P) 06 29.00 1.4
KAF 40.64 329 iP 08 14.10 -0.6
0.6s 3.40nm 4.3mb
NUR 40.80 326 iP 08 15.30 -0.7
0.4s 7.20nm 4.8mb
SOD 42.84 336 iP 08 32.80 0.1
NB2 47.32 325 P 09 07.20 -1.5
0.4s 2.00nm 4.5mb
MBC 70.32 3 ePc 11 50.00 1.8
0.5s 12.00nm 5.2mb
LKO 74.50 271 P 12 09.90 -4.1X
INK 76.76 9 eP 12 27.00 1.2
pP 13 43.00 331kmX
S.D. = 1.0 on 14 of 18 obs.

FEB 17, 1991 07h 19m 48.16± 0.80s
60.960 N ±11.2km 150.989 W ± 7.8km
DEPTH = 10.0km (geophysicist)
KENAI PENINSULA, ALASKA (14)

SLKM 0.59 140 P 20 00.00 -0.1
RSO 1.00 241 P 20 07.00 -0.3
PMR 1.10 54 P 20 07.90 -0.9
PDB 1.98 235 P 20 22.30 0.3
SVW 2.26 276 P 20 30.00 3.8X
KLU 2.51 75 P 20 29.70 0.0
TOA 2.58 61 P 20 31.70 1.0
RND 2.65 21 P 20 38.00 6.2X
S.D. = 0.8 on 6 of 8 obs.

% FEB 17, 1991 07h 40m 40.03± 1.06s
43.847 N ±11.2km 12.031 E ± 8.5km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

SFI 0.15 300 P 40 43.50 0.1
eSg 40 46.70
PGD 0.23 277 P 40 45.10 0.1
eSg 40 49.90
CRE 0.23 195 P 40 44.60 -0.4
eSg 40 47.90
ARV 0.75 118 P 40 54.30 -0.4
eSg 41 05.00
ASS 0.90 149 P 40 58.00 0.7
eSg 41 10.00
S.D. = 0.6 on 5 of 5 obs.

? FEB 17, 1991 08h 31m 55.76± 1.06s
40.468 N ±12.8km 21.838 E ±12.7km
DEPTH = 33.0km (normal)
GREECE (364)

LIT 0.62 126 ePc 32 08.18 0.1
eS 32 17.82
GRG 0.65 41 ePd 32 09.14 0.6
KNT 1.06 49 ePc 32 13.70 -0.7
IGT 1.49 232 ePd 32 20.42 0.0
S.D. = 0.9 on 4 of 4 obs.

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* FEB 17, 1991 10h 13m 33.99± 0.43s
8.066 S ± 6.3km 129.564 E ±12.5km
DEPTH = 33.0km (normal)
5.0mb (9 obs.)
TIMOR SEA (290)

MTN 4.99 162 eP 14 49.70 1.0
KNA 7.68 186 eP 15 26.70 0.4
0.3s 61.00nm 6.1mb X
eS 16 49.50
WB2 12.69 159 iPc 16 30.10 -4.9X
eS 18 45.20
QIS 15.76 143 eP 17 13.00 -2.3
e 17 22.00
ePcP 19 57.00
eS 21 50.00
MBL 16.05 215 eP 17 18.00 -1.0
eS 20 05.00
ASPA 16.06 165 iPd 17 17.20 -1.9
0.4s 22.90nm 4.7mb
Z 19s 0.90um 3.4Msz
eS 20 09.00
WARB 18.23 188 eP 17 45.60 -0.7
0.4s 8.00nm 4.2mb
NANU 19.75 222 eP 18 06.00 1.9
MEKA 21.21 208 eP 18 25.00 5.7X
0.4s 4.00nm 4.2mb
eS 22 13.00
FORR 22.71 183 iPd 18 36.70 2.6X
0.4s 30.00nm 5.1mb
QLP 23.09 145 iPd 18 41.20 3.3X
MRWA 24.61 210 eP 18 56.00 3.4X
RMQ 25.84 137 e(P) 19 08.00 3.7X
e 26 36.00
KLB 25.86 204 eP 19 06.00 1.5
MUN 26.84 206 iPd 19 18.20 4.8X
ADE 28.06 164 e(P) 19 24.20 -0.3
CHTO 40.31 312 P 21 09.20 -1.0
TIY 48.27 342 eP 22 15.50 1.5
BJI 49.44 346 eP 22 16.50 -6.4X
GTA 54.70 332 eP 23 01.60 -0.9
0.4s 10.00nm 5.2mb
GUN 55.33 312 P 23 06.58 -1.0
0.4s 29.00nm 5.6mb
PKI 55.49 311 P 23 07.32 -1.4
0.6s 10.00nm 5.0mb
KKN 55.71 312 P 23 08.96 -1.2
0.4s 8.00nm 5.1mb
DMN 55.74 311 P 23 09.34 -1.1
GKN 56.30 311 P 23 13.04 -1.3
0.4s 30.00nm 5.7mb
WMQ 64.05 328 eP 24 06.20 -0.8
FBA 94.13 25 (P) 26 50.40 0.2
INK 100.00 22 ePdiff27 17.00 0.2
MBC 102.74 13 ePdiff27 29.00 0.1
BSF 117.66 320 ePKP 32 19.30 0.7
LPL 118.46 318 ePKP 32 21.50 1.1
1.1s 12.20nm
LOR 119.71 320 ePKP 32 23.00 0.6
LBF 119.74 320 ePKP 32 23.50 1.0
SSF 120.01 320 ePKP 32 23.70 0.7
1.6s 31.10nm
AVF 120.21 320 ePKP 32 24.30 1.0
BGF 120.63 320 ePKP 32 25.60 1.4
0.6s 5.40nm
LKO 135.68 275 PKP 32 55.60 1.7
0.5s 5.00nm
CNCB 149.80 145 PKP 33 27.00 8.1X
LPB 149.95 144 ePKP 33 26.00 7.0X
ZOBO 150.15 144 iPKP 33 27.10 7.6X
SIV 153.88 156 PKP 33 34.20 10.0X
i 33 48.00
S.D. = 1.2 on 29 of 41 obs.

FEB 17, 1991 11h 17m 42.77± 0.32s
39.833 N ± 6.3km 77.683 E ± 5.6km
DEPTH = 16.9km (3 depth phases)
5.0mb (25 obs.)
SOUTHERN XINJIANG, CHINA (321)

KSH 1.37 255 Pg 18 12.00 4.8X
Sg 18 34.00
WMQ 8.47 59 P 19 46.00 -1.7
S 21 17.40
NDI 11.13 182 eP 20 25.00 0.9
0.5s 21.13nm 5.7mb
eS 22 26.00
QUE 13.03 226 P 20 50.00 0.1
GKN 13.13 152 P 20 49.72 -1.5
0.5s 53.00nm 5.9mb
KKN 13.56 150 P 20 55.66 -1.3
0.7s 75.00nm 5.8mb
DMN 13.66 151 P 20 56.82 -1.5
GUN 13.69 148 P 20 58.08 -0.8
0.5s 55.00nm 5.7mb
PKI 13.81 150 P 20 58.90 -1.5
0.7s 64.00nm 5.6mb
LSA 14.97 128 eP 21 18.20 2.5
GTA 17.06 84 Pd 21 39.50 -2.6
1.3s 10.00nm 3.8mb X
Z 10s 0.70um 3.7MszX
pP 21 45.20
SHL 18.54 136 eP 22 01.00 0.4
LZH 20.94 92 eP 22 25.50 -1.7
1.5s 28.00nm 4.4mb
Z 25s 0.99um 4.1MszX
N 12s 0.57um
pP 22 32.50 26km
eS 26 19.00
HYB 22.35 178 eP 22 44.50 3.1X
CD2 22.99 105 eP 22 48.80 1.2
1.5s 100.00nm 5.1mb
BTO 24.63 78 eP 23 06.00 2.4
XAN 25.55 93 Pc 23 13.60 1.3
HHC 25.76 77 eP 23 16.00 1.8
GBA 26.13 181 P 23 21.00 3.4X
S 27 41.00
TIY 27.08 83 eP 23 28.80 2.5
Z 15s 0.50um 4.2MszX
GYA 27.55 110 P 23 32.60 1.8
CHG 27.84 133 eP 23 39.40 6.1X
CHTO 27.84 133 P 23 32.30 -1.0
e 23 37.30 18km
WHN 31.19 96 eP 24 03.00 -0.1
NUR 38.41 320 eP 25 05.00 0.4
SOD 39.14 332 eP 25 10.00 -0.6
KEV 39.83 335 eP 25 17.00 0.7
KSP 43.35 306 eP 25 46.50 1.1
e 27 21.50 514kmX
HFS 43.83 319 eP 25 48.60 -0.6
0.4s 1.40nm 4.1mb
Z 16s 0.20um 4.1MszX
LR 43 27.00
PRU 44.61 305 P 25 56.60 0.9
BRG 44.81 306 eP 25 58.80 1.6
1.0s 14.00nm 4.8mb

17d 11h

NB2	45.01	321	P	25 58.20	-0.6
	0.6s		4.90nm		4.6mb
CLL	45.30	307	eP	26 02.00	0.9
	1.5s		17.00nm		4.8mb
TRI	46.18	299	ePd	26 07.00	-1.1
GRF	46.77	305	ePc	26 14.00	1.2
			e	26 16.20	7km
CDF	49.62	305	eP	26 35.00	-0.1
	1.1s		12.20nm		4.8mb
BSF	50.11	304	eP	26 38.70	-0.2
	1.2s		29.75nm		5.2mb
LPG	50.92	301	eP	26 45.50	0.3
	1.4s		28.30nm		5.0mb
LPL	50.92	301	eP	26 45.40	0.2
	1.2s		26.80nm		5.1mb
RSL	50.93	301	P	26 45.33	0.1
LBF	52.20	304	eP	26 53.70	-0.9
SMF	52.41	303	eP	26 55.60	-0.6
	1.1s		17.10nm		4.9mb
SSF	52.47	304	eP	26 55.90	-0.7
	1.4s		41.40nm		5.2mb
AVF	52.67	304	eP	26 57.70	-0.4
	1.1s		28.10nm		5.1mb
TCF	53.59	303	eP	27 03.70	-1.2
	1.4s		19.60nm		4.9mb
MBC	63.69	4	eP	28 14.00	-0.9
	0.7s		13.00nm		5.2mb
BCAO	63.72	253	iPd	28 17.50	1.6
	0.8s		7.00nm		4.9mb
INK	69.67	12	eP	28 51.00	-1.8
YKA	77.54	6	eP	29 37.00	-1.7
	0.7s		2.50nm		4.4mb
WRA	79.52	127	P	29 52.00	1.8
	1.1s		7.00nm		4.6mb
ASPA	82.07	130	eP	30 06.40	2.8X
	2.3s		12.80nm		4.6mb
FFC	85.81	360	eP	30 22.00	-0.1
	0.8s		10.00nm		5.1mb
	S.D. = 1.3		on 47 of 52 obs.		

? FEB 17, 1991 12h 29m 47.26± 1.99s
35.271 N ±41.9km 26.248 E ± 9.2km
DEPTH = 10.0km (geophysicist)
CRETE (370)
MD 3.7 (ATH).

NPS	0.52	269	ePb	29 57.20	-0.6
KAP	0.81	69	ePb	30 02.80	-0.1
VAM	1.68	275	ePb	30 17.60	0.8
VLI	3.05	299	ePn	30 36.30	-0.1
	S.D. = 1.0		on 4 of 4 obs.		

% FEB 17, 1991 13h 03m 13.26± 1.42s
42.406 N ± 9.9km 19.848 E ±10.8km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
MD 2.2 (TTG).

PVY	0.21	26	iPgd	03 17.43	-0.5
			iSg	03 21.48	
TTG	0.44	273	iPgc	03 21.30	-0.8
			iSg	03 29.42	
IVA	0.47	5	iPgd	03 23.18	0.4
			iSg	03 30.18	
ULC	0.63	225	iPgc	03 26.15	0.3
NKY	0.75	303	iPgc	03 28.50	0.5
			iSg	03 39.68	
BDV	0.77	261	iPgd	03 28.37	0.1
			iSg	03 40.60	
	S.D. = 0.7		on 6 of 6 obs.		

FEB 17, 1991 13h 51m 20.98± 0.63s
35.696 N ± 6.5km 27.432 E ± 5.2km
DEPTH = 39.3 ± 7.8 km
3.9mb (4 obs.)
DODECANESE ISLANDS (369)
MD 4.0 (ATH), 3.9 (ISK).

KAP	0.25	236	ePb	51 28.10	-0.6
NPS	1.55	254	ePb	51 49.30	2.8X
YER	1.59	25	iPn	51 48.60	1.4
KSL	1.80	76	ePn	51 51.00	1.0
CIN	1.97	15	iPd	51 52.00	-0.6
APE	2.06	312	ePn	51 54.00	0.1
SMG	2.07	347	ePn	51 55.50	1.6
ELL	2.26	62	iPn	51 59.30	2.5
VAM	2.65	265	ePn	52 04.40	2.1
IZM	2.70	357	iPn	52 02.40	-0.6
BCK	3.09	54	iPn	52 10.50	1.9
KHL	3.11	32	iPn	52 08.80	0.0
VLI	3.78	287	ePn	52 19.60	1.4
ALT	3.97	32	iPn	52 20.00	-1.2
DST	4.02	13	iPn	52 21.00	-0.7
PPCY	4.10	100	e(P)	52 22.50	-0.3
EDC	4.66	4	ePn	52 28.00	-2.7
BNT	4.67	5	iPn	52 31.00	0.1
CSS	4.88	97	eP	52 32.50	-1.4
			eSn	53 31.00	
ALN	5.31	349	ePd	52 40.88	1.1
DMK	6.12	2	ePn	52 49.30	-2.1
ADI	6.95	110	eP	53 01.50	-1.5
DSI	7.80	120	eP	53 13.00	-1.9
MBH	8.62	131	eP	53 25.00	-1.2
SMF	20.78	309	eP	56 00.30	-0.7
	0.7s		4.10nm		3.9mb
LBF	20.83	310	eP	56 01.10	-0.5
SSF	21.16	310	eP	56 04.30	-0.5
	0.6s		3.60nm		3.9mb
FLN	24.29	311	eP	56 35.20	-0.4
GRR	24.39	310	eP	56 36.70	0.2
	1.8s		94.95nm		5.0mb X
HFS	26.02	344	eP	56 50.50	-1.3
	0.4s		1.20nm		3.8mb
GKN	48.61	82	P	00 03.80	0.8
DMN	49.15	82	P	00 09.00	1.7
KKN	49.22	82	P	00 08.60	0.8
PKI	49.41	82	P	00 11.20	1.8
GUN	49.65	82	P	00 12.80	1.5
YKA	77.50	343	eP	03 11.80	-1.9
	0.4s		0.20nm		3.5mb
	S.D. = 1.4		on 35 of 36 obs.		

? FEB 17, 1991 13h 52m 23.49±13.16s
24.435 N ±17.4km 123.225 E ±108.km
DEPTH = 33.0km (normal)
SOUTHWESTERN RYUKYU ISLANDS (246)

TWC	1.27	278	iPc	52 45.40	0.5
			eS	52 59.60	
TWD	1.53	257	iPc	52 48.70	-0.1
			eS	53 06.20	
TWZ	1.63	294	eP	52 50.20	-0.1
TWF1	2.07	239	ePc	52 56.50	-0.1
TWQ	2.18	266	ePc	52 57.80	-0.4
TWK	2.76	246	ePd	53 06.70	0.3
	S.D. = 0.4		on 6 of 6 obs.		

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* FEB 17, 1991 14h 05m 45.99± 1.00s
16.222 N ±20.4km 94.957 W ± 9.6km
DEPTH = 33.0km (normal)
3.7mb (1 obs.)
OAXACA, MEXICO (60)

OXX	1.90	297	iPc	06 18.20	1.4
			iS	06 41.70	
SCX	2.29	77	iP	06 21.70	-0.4
			(S)	06 41.20	
TPX	2.91	116	(P)	06 31.50	0.5
			(S)	07 04.00	
IISM	3.59	320	iP	06 39.00	-1.7
			iS	07 17.80	
IIT	4.24	312	iP	06 50.70	0.6
			(S)	07 18.50	
PPM	4.50	309	eP	06 55.55	1.4
ACX	4.75	278	(P)	06 55.50	-1.6
III	4.81	297	iP	06 58.20	0.0
			(S)	07 31.50	
MRX	6.87	301	(P)	07 27.00	0.0
YKA	48.24	348	eP	14 20.70	-4.7X
	0.7s		0.50nm		3.7mb
	S.D. = 1.3		on 9 of 10 obs.		

& FEB 17, 1991 14h 20m 44.96s
59.180 N 152.535 W
DEPTH = 66.3km
SOUTHERN ALASKA (2)
<AEIC>.

AUE	0.47	293	iP	20 57.00	-0.3
			eS	21 05.42	
AUI	0.48	289	eP	20 56.93	-0.5
			eS	21 05.73	
XLV	0.50	56	eP	20 56.68	-0.9
			eS	21 05.66	
AUH	0.50	292	eP	20 57.30	-0.4
			eS	21 05.61	
SYI	0.58	172	iP	20 57.80	-0.6
			eS	21 07.58	
HOM	0.66	43	iP	20 59.05	-0.3
			eS	21 09.44	
CNPM	0.75	62	eP	20 59.75	-0.7
			eS	21 11.37	
MCNL	0.93	271	eP	21 01.43	-1.2
			eS	21 13.31	
BRLK	1.03	54	eP	21 03.08	-0.8
			eS	21 17.13	
PDB	1.04	307	eP	21 03.09	-1.0
			eS	21 17.07	
NNL	1.07	36	iP	21 04.89	0.4
RSO	1.29	355	eP	21 06.81	-0.8
			eS	21 24.01	
RS2	1.29	355	eP	21 06.84	-0.8
			eS	21 24.74	
REF	1.32	356	eP	21 07.13	-0.8
			eS	21 24.57	
RDN	1.34	355	eP	21 07.47	-0.8
			eS	21 24.45	
NCT	1.40	352	eP	21 08.21	-0.8
RDT	1.40	3	iP	21 08.01	-0.9
NKA	1.70	22	eP	21 13.87	1.0
SLKM	1.77	40	eP	21 12.90	-1.1
SEW	1.82	58	eP	21 13.81	-0.8
SPU	2.02	7	eP	21 16.75	-0.7
CKL	2.03	3	eP	21 17.17	-0.4
BGL	2.09	2	eP	21 18.30	-0.2
NCG	2.24	5	eP	21 20.03	-0.5
SUA	2.46	20	eP	21 23.30	-0.3
SVW	2.47	323	eP	21 22.73	-1.1
PMS	2.55	34	iP	21 24.12	-0.7
KNIM	2.70	62	eP	21 24.94	-1.9
PWA	2.81	27	eP	21 27.79	-0.6
SKT	2.85	10	eP	21 28.07	-1.0
PLRM	2.95	33	eP	21 28.86	-1.5
KNK	3.02	40	iP	21 29.60	-1.9
GHO	3.16	33	eP	21 32.48	-0.9
GLI	3.22	56	iP	21 31.76	-2.4
CUT	3.42	18	eP	21 35.57	-1.4
VZW	3.54	55	eP	21 36.48	-2.2
VLZ	3.67	55	eP	21 37.65	-2.7
	37 obs. associated				

? FEB 17, 1991 14h 28m 24.90± 1.46s
52.639 S ±20.8km 140.128 E ±45.3km
DEPTH = 10.0km (geophysicist)
4.5mb (3 obs.)
WEST OF MACQUARIE ISLAND (701)

TOO	15.53	16	e(P)	32 06.00	0.6
ASPA	29.32	348	eP	34 29.20	-0.4
	1.1s		9.50nm		4.5mb
QIS	32.02	359	iPd	34 53.10	-0.5
	0.3s		3.00nm		4.7mb
WRA	32.94	350	P	35 01.00	-0.6
	1.2s		7.20nm		4.5mb
CHG	79.61	321	eP	40 36.90	3.2X
CHTO	79.61	321	P	40 35.00	1.4
YKA	140.96	45	ePKP	48 01.70	6.2X
	0.6s		0.10nm		
KAF	144.63	312	ePKP	48 02.20	0.3
	0.8s		7.00nm		
NUR	144.95	309	ePKP	48 01.10	-1.4
SOD	145.60	321	ePKP	48 04.00	0.6
	S.D. = 1.0		on 8 of 10 obs.		

% FEB 17, 1991 16h 21m 26.95± 0.97s
44.622 N ± 3.9km 6.774 E ± 8.9km
DEPTH = 5.0km (geophysicist)
FRANCE (538)
ML 1.8 (GEN).

FOUF	0.09	177	iPgc	21 29.11	0.1
			e(Sg)	21 30.00	
PZZ	0.26	117	P	21 32.62	0.3
			S	21 36.10	
RRL	0.30	1	P	21 33.33	0.3
BHB	0.41	58	P	21 35.31	0.1
			S	21 40.18	
STV	0.55	134	P	21 37.64	-0.3
			S	21 45.12	
ENR	0.61	130	P	21 39.07	-0.1
			S	21 47.18	

```
RSP      0.63  33 P      21 39.59   0.0
                S       21 48.20
LSD      0.88  18 P      21 44.00  -0.5
     S.D. = 0.3  on   8 of   8 obs.
-------------------------------------
%  FEB 17, 1991  17h 08m 23.55± 2.73s
   0.156 S ± 7.5km   78.567 W ±27.0km
   DEPTH =  10.0km  (geophysicist)
 ECUADOR                          (107)
      Felt (IV) at Quito. Also felt at
      Ambato.

QUR      0.04 112 iP+    08 25.30  -0.7
OTO      0.06 146 iP     08 24.60  -1.6
VC1      0.51 162 iP+    08 34.30   0.3
                eS      08 40.00
COTA     0.54  25 iPd    08 34.50  -0.1
                eS      08 47.00
CAYA     0.63  68 iP+    08 36.60   0.1
                S       08 47.10
     S.D. = 1.1  on   5 of   5 obs.
-------------------------------------
?  FEB 17, 1991  17h 55m 51.26± 5.15s
   29.686 N ±49.1km  113.214 W ±12.0km
   DEPTH =  10.0km  (geophysicist)
   3.9mb (  1 obs.)
 GULF OF CALIFORNIA               ( 49)

GLA      3.63 338 eP     56 48.00  -0.7
PLM      4.80 320 eP     57 05.70   0.2
PEC      5.37 322 e(P)   57 20.00   6.5X
ALO      7.75  46 eP     57 46.30  -0.8
ANMO     7.76  46 eP     57 47.00  -0.1
MSU      8.85   5 eP     58 03.40   1.1
PV09     9.42  20 eP     58 11.00   0.7
KVN     10.17 338 eP     58 19.50  -1.1
NEW     18.79 352 eP     00 12.00  -0.8
        1.0s     8.13nm          3.9mb
PNT     20.20 348 eP     00 31.00   2.1
SES     20.75   4 eP     00 34.00  -0.6
     S.D. = 1.2  on  10 of  11 obs.
-------------------------------------
*  FEB 17, 1991  18h 41m 37.98± 1.94s
   51.602 N ± 9.2km    7.528 E ±17.5km
   DEPTH =  10.0km  (geophysicist)
 GERMANY                          (543)
      ML 2.1 (BNS).

WTS      0.60 312 ePg    41 50.00   0.0
BNS      0.68 199 iPgc   41 51.80   0.4
        0.5s    73.00nm
                iSg     42 01.60
STB      1.10 204 iPnd   41 58.40  -0.2
        0.2s    16.00nm
                iPg     41 59.30
KQE      1.19 174 iPnd   41 59.90  -0.2
        0.3s  *******nm
                iS      42 17.20
ENN      1.31 231 ePg    42 02.00  -0.2
MEM      1.38 225 eP     42 03.30   0.1
     S.D. = 0.3  on   6 of   6 obs.
-------------------------------------
*  FEB 17, 1991  19h 02m 06.49± 0.72s
   31.685 N ± 9.9km  132.101 E ± 8.7km
   DEPTH =  33.0km  (normal)
   4.1mb (  2 obs.)
 SOUTHEAST OF SHIKOKU, JAPAN      (237)

KAGJ     1.15 245 iP+    02 28.50   2.2
                S       02 44.60
KUMJ     1.37 308 P      02 30.20   0.7
                S       02 47.50
SHNJ     2.57 341 P      02 46.80   0.1
TKSJ     2.82  35 P      02 51.00   0.8
SHK      2.88  10 eP     02 51.00  -0.1
MAT      7.01  45 eP     03 49.00  -0.4
                eS      05 04.00
BJI     15.35 307 eP     06 00.00  17.7X
XAN     19.61 283 eP     06 37.50   2.5
LZH     23.83 288 eP     07 27.60  10.0X
        1.5s    28.00nm
                pP      07 54.20 129kmX
                sP      08 12.50
                PP      08 46.00
CD2     24.21 276 eP     07 20.00  -1.2
GTA     27.27 295 eP     07 50.00   0.1
CHTO    32.48 255 P      08 34.20  -2.0

GUN     40.06 277 P      09 39.80  -1.0
PKI     40.56 277 P      09 44.60  -0.3
KKN     40.60 277 P      09 44.40  -0.7
DMN     40.80 277 P      09 46.40  -0.4
GKN     41.08 277 P      09 47.60  -1.4
WRA     51.38 177 P      11 11.00   0.8
        0.9s    2.80nm          4.2mb
INK     62.55  25 eP     12 29.00   0.0
                pP      12 42.00  46kmX
MBC     63.73  15 eP     12 37.00   0.3
YKA     72.16  27 eP     13 29.40   0.0
        0.8s    1.20nm          3.9mb
     S.D. = 1.2  on  19 of  21 obs.
-------------------------------------
*  FEB 17, 1991  19h 20m 12.07± 1.51s
   23.801 N ±12.1km  122.452 E ±15.8km
   DEPTH =  33.0km  (normal)
   3.9mb (  1 obs.)
 TAIWAN REGION                    (243)

TWD      0.83 290 iPd    20 26.80  -0.5
                eS      20 38.20
TWC      0.97 326 eP     20 29.80   0.4
                eS      20 44.00
TWF1     1.15 247 ePc    20 32.20   0.3
                eS      20 46.30
TWG      1.60 233 ePc    20 38.40   0.0
ANP      1.62 329 eP     20 44.20   5.4X
YKA     82.87  23 eP     32 34.20  -0.1
        0.9s    1.10nm          3.9mb
     S.D. = 0.5  on   5 of   6 obs.
-------------------------------------
   FEB 17, 1991  20h 04m 40.24± 0.33s
   46.654 N ± 3.1km    7.794 E ± 3.5km
   DEPTH =  10.0km  (geophysicist)
 SWITZERLAND                      (544)
      MD 2.7 (STR). ML 2.7 (LDG).

MMK      0.61 169 ePd    04 51.50  -1.3
DIX      0.63 205 ePd    04 52.30  -0.8
EMS      0.84 226 ePc    04 56.60   0.1
ZLA      0.92  26 ePc    04 59.00   1.1
ORO      1.04 173 P      04 58.90  -1.0
                eSg     05 13.00
VAI      1.04 139 P      04 58.90  -0.9
                eSg     05 13.50
VDL      1.17  98 ePc    05 00.90  -1.3
SLE      1.21  23 ePd    05 02.50  -0.3
SAX      1.22  60 ePc    05 03.80   0.7
FEL      1.23   7 ePn    05 02.82  -0.4
RSL      1.26 220 Pn     05 03.62  -0.2
                Sg      05 22.64
LPL      1.36 213 Pn     05 06.30   0.9
                Sg      05 25.00
BSF      1.36 330 Pn     05 05.30   0.0
                Pg      05 06.60
                Sg      05 23.80
LPG      1.37 212 Pn     05 06.00   0.4
MDI      1.59 123 P      05 09.40   0.9
                eSg     05 26.50
OSS      1.62  88 ePc    05 09.10   0.0
HAU      1.67 325 Pn     05 09.70   0.0
                Sg      05 33.80
CDF      1.79 349 Pn     05 11.00  -0.5
                Pg      05 15.60
                Sg      05 38.20
CKI      2.26 171 P      05 20.00   1.8
LBF      2.64 279 Pn     05 24.10   0.4
                Sg      06 03.20
SMF      2.72 271 Pn     05 23.60  -1.2
                Pg      05 32.20
                Sg      06 06.80
LOR      2.76 284 Pn     05 25.80   0.4
                Pg      05 33.00
                Sg      06 07.00
SBF      2.80 185 Pn     05 27.60   1.6
SSF      2.97 279 Pg     05 37.00   8.7X
                Sg      06 14.80
AVF      3.06 274 Pn     05 29.80   0.3
                Sg      06 17.20
BGF      3.41 270 Pn     05 33.80  -0.8
                Sg      06 28.40
     S.D. = 0.9  on  25 of  26 obs.
-------------------------------------
*  FEB 17, 1991  20h 33m 52.70± 0.57s
   56.353 N ±14.8km  162.547 E ±10.7km
   DEPTH =  33.0km  (normal)
     4.5mb (  7 obs.)
 NEAR EAST COAST OF KAMCHATKA     (218)

IMA     22.71  47 eP     38 52.90   0.4
FBA     25.17  50 P      39 16.00   0.0
MAT     25.72 230 eP     39 21.00  -0.4
        0.7s    7.53nm          4.4mb
INK     30.44  41 eP     40 03.00  -0.8
MBC     33.48  25 eP     40 31.00   0.7
YKA     39.83  46 eP     41 23.20  -0.8
        0.5s    1.10nm          3.9mb
GUN     59.97 276 P      43 58.66   0.2
        0.3s    9.00nm          5.3mb
KKN     60.40 276 P      44 01.14   0.0
PKI     60.50 276 P      44 01.86  -0.1
        0.6s    6.00nm          4.9mb
GKN     60.59 277 P      44 02.06  -0.3
        0.7s    8.00nm          5.0mb
DMN     60.63 276 P      44 03.14   0.3
NB2     60.79 344 P      44 03.80   0.6
        0.9s    1.80nm          4.2mb
GBA     76.10 274 P      45 38.00  -0.7
WRA     79.64 207 P      45 59.00   1.0
        1.2s    1.70nm          3.9mb
     S.D. = 0.6  on  14 of  14 obs.
-------------------------------------
?  FEB 17, 1991  20h 47m 13.96± 1.14s
   60.994 N ±25.9km  166.819 E ±20.2km
   DEPTH =  33.0km  (normal)
   3.9mb (  3 obs.)
 EASTERN SIBERIA                  (671)

IMA     18.08  57 eP     51 24.50   0.6
FBA     20.65  59 P      51 52.00  -0.8
INK     25.56  48 eP     52 42.00   1.1
YKA     35.10  52 eP     54 04.60  -0.9
        0.7s    0.90nm          3.8mb
NB2     56.86 346 P      56 57.00  -0.2
        1.0s    3.70nm          4.4mb
WRA     84.79 210 P      59 46.00   0.2
        1.6s    1.30nm          3.9mb
     S.D. = 1.0  on   6 of   6 obs.
-------------------------------------
   FEB 17, 1991  21h 13m 52.80± 0.31s
   39.644 N ± 3.4km   20.341 E ± 2.5km
   DEPTH =  10.0km  (geophysicist)
   3.9mb (  2 obs.)
 GREECE-ALBANIA BORDER REGION     (392)
      ML 3.8 (ATH), 3.5 (TIR). MD 3.5
      (THE).

IGT      0.11 183 iPd    13 56.62   0.9
                eS      14 02.10
SRN      0.35 312 iPn    14 00.30   0.2
                iSg     14 07.30
LSK      0.54  21 iPgd   14 01.70  -2.1
                iSg     14 09.50
KBN      1.04  20 iPgc   14 11.30  -1.2
                iSg     14 24.70
VLO      1.05 322 iPg    14 14.20   1.7
                iSg     14 30.70
KZN      1.28  58 ePb    14 14.80  -1.8
EVR      1.35 122 ePb    14 17.50  -0.2
FNA      1.39  35 eP     14 17.10  -1.1
                eS      14 35.50
VLS      1.48 172 ePb    14 20.20   0.8
OHR      1.51  13 iPnd   14 20.60   0.7
                iSn     14 43.10
                LO      14 49.20
AGG      1.66 111 eP     14 23.00   0.9
LIT      1.72  74 ePc    14 23.26   0.4
                eS      14 48.22
TIR      1.74 348 iPnd   14 24.80   1.6
                iSn     14 49.60
LCI      1.96 291 P      14 26.00  -0.4
                eSn     14 54.00
PHP      2.04   2 iPnc   14 28.40   0.8
                iSn     14 55.40
GRG      2.05  50 ePd    14 28.86   1.1
                eS      14 54.30
THE      2.24  63 ePd    14 30.94   0.5
                eS      15 01.50
VAY      2.39  45 iPn    14 33.00   0.5
                iSn     15 09.40
                LO      15 18.30
KKS      2.43   1 ePn    14 35.00   1.9
                iSn     15 09.50
```

17d 21h

SDA	2.45	345	ePn	14	40.10	6.6X
ULC	2.46	341	ePn	14	35.00	1.4
			eSn	15	05.00	
SKO	2.47	19	iPn	14	34.50	0.8
			i	15	02.30	
			iSg	15	11.50	
			LQ	15	13.60	
KNT	2.47	51	ePd	14	33.66	-0.1
PLG	2.49	72	ePn	14	33.70	-0.4
PAIG	2.59	83	iPc	14	35.42	0.0
			eS	15	06.78	
SOH	2.59	62	eP	14	36.00	0.5
			eS	15	10.80	
BRT	2.70	298	P	14	37.60	0.6
			eSn	15	16.50	
BDV	2.88	337	ePn	14	40.00	0.5
SRS	2.89	58	ePc	14	39.58	-0.1
TTG	2.90	344	ePn	14	40.70	0.9
			eSn	15	16.00	
PVY	2.96	355	ePn	14	42.50	1.7
			eSn	15	18.00	
ORI	3.02	279	P	14	42.60	1.0
			eSn	15	22.00	
BAI	3.04	300	P	14	42.00	0.3
TDS	3.09	272	P	14	43.70	1.2
			eSn	15	24.00	
ATH	3.12	121	ePn	14	44.20	1.3
MMB	3.23	52	eP	14	44.00	-0.5
IVA	3.24	354	ePn	14	46.00	1.2
NKY	3.32	343	ePn	14	45.70	-0.3
			eSn	15	22.50	
VLI	3.57	144	ePn	14	49.60	0.3
VTS	3.66	35	iP	14	52.00	1.3
			eS	15	36.00	
SOI	3.70	246	P	14	50.80	-0.4
			eSn	15	34.60	
MGR	3.71	279	P	14	52.90	1.4
RZN	3.90	57	iP	14	55.00	0.7
SGO	3.97	285	P	14	55.90	1.0
ATN	4.08	250	P	14	56.30	-0.3
PGB	4.10	44	iPd	14	57.00	0.2
RDO	4.24	68	ePn	14	57.80	-1.1
KDZ	4.35	61	eP	15	00.00	-0.5
			i	15	52.00	
ALN	4.54	72	ePc	15	02.62	-0.5
HVAR	4.59	322	ePn	15	02.10	-1.7
DIM	4.61	57	eP	15	15.00	10.8X
APE	4.82	121	ePg	15	23.20	16.0X
DUI	4.91	296	P	15	08.40	0.0
MEU	4.95	241	P	15	06.50	-2.6
			eSn	16	05.00	
PVL	5.18	45	eP	15	11.00	-1.1
VAM	5.22	143	ePn	15	11.50	-1.3
SDI	5.37	295	P	15	14.80	-0.2
BZS	6.04	9	eP	15	27.55	3.3X
MNS	6.41	298	P	15	30.00	0.4
ASS	6.72	303	P	15	34.00	0.1
ARV	6.75	307	P	15	32.00	-2.4
PTJ	7.03	334	eP	15	34.80	-3.6X
CRE	7.44	305	P	15	42.90	-1.2
SFI	7.65	307	P	15	47.30	0.4
PGD	7.70	306	P	15	46.10	-1.8
TRI	7.76	324	e(Pn)	15	47.30	-1.1
			e(Sn)	17	07.00	
FVI	8.87	324	P	16	01.20	-2.7
CTI	9.04	318	P	16	02.80	-3.5X
NUR	21.06	6	eP	18	35.50	-3.6X
SLL	21.31	350	eP	18	37.50	-4.2X
	1.1s		10.00nm		4.1mb	
NB2	22.16	348	P	18	48.00	-2.2
	0.9s		2.60nm		3.7mb	
KAF	22.79	7	eP	18	56.60	0.2

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

FEB 17, 1991 21h 49m 12.63± 0.36s
41.235 N ± 4.8km 25.404 E ± 3.2km
DEPTH = 10.0km (geophysicist)
GREECE-BULGARIA BORDER REGION (363)
MD 3.6 (THE), 3.4 (ATH).

RDO	0.13	131	ePg	49	17.00	1.2
ALN	0.59	125	iPd	49	24.98	0.4
			eS	49	35.12	
SRS	1.37	266	iPc	49	37.58	-0.2
			eS	49	57.64	
EZN	1.57	153	ePn	49	43.60	3.0X
SOH	1.60	256	eP	49	40.70	-0.4
			eS	50	03.10	
PLG	1.72	241	ePb	49	42.20	-0.6
PAIG	1.85	226	ePd	49	44.44	-0.2
			eS	50	09.08	
DMK	1.86	71	iPn	49	42.40	-2.4
KNT	1.89	269	ePc	49	45.08	-0.2
			eS	50	09.88	
THE	1.94	253	eP	49	46.50	0.5
			eS	50	11.20	
EDC	2.07	115	iPn	49	47.50	-0.3
PRK	2.10	161	ePn	49	49.30	1.1
BNT	2.10	114	iPn	49	48.40	0.1
VAY	2.14	273	iPn	49	49.00	0.2
			i	50	15.00	
			i	50	18.40	
			i	50	21.40	
			LQ	50	23.70	
			LR	50	24.00	
GRG	2.29	264	ePd	49	51.32	0.3
			eS	50	19.80	
LIT	2.49	244	ePc	49	54.16	0.3
			eS	50	23.60	
NEO	2.55	222	ePn	49	53.90	-0.8
ITU	2.73	92	ePn	50	05.00	7.7X
			iSg	50	39.00	
ISK	2.77	92	ePn	49	56.00	-1.8
KZN	2.91	253	ePn	50	00.60	0.7
DST	2.95	122	iPn	50	00.10	-0.3
SKO	3.06	285	ePn	50	02.40	0.4
			i	50	09.60	
			i	50	50.80	
			iSg	50	52.50	
			LQ	50	56.90	
			LR	50	58.00	
FNA	3.08	263	eP	50	02.80	0.5
IZM	3.17	153	ePn	50	05.10	1.5
AGG	3.23	228	eP	50	03.80	-0.6
HRT	3.25	96	iPn	50	03.50	-1.2
OHR	3.48	269	ePn	50	07.00	-0.9
			LQ	51	08.90	
EVR	3.60	231	ePn	50	09.60	-0.1
TLB	3.87	29	eP	50	25.50	12.1X
ISR	3.99	12	eP	50	20.00	4.9X
CMP	4.04	356	ePc	50	30.00	14.2X
CIN	4.18	149	eP	50	18.00	0.1
ALT	4.21	120	iPn	50	18.40	0.0
IGT	4.23	248	eP	50	17.70	-0.9
MLR	4.27	5	eP	50	22.00	2.7
KHL	4.30	131	eP	50	20.50	0.8
CFR	4.43	26	eP	50	29.00	7.7X
TNR	4.49	350	ePc	50	20.00	-2.2
GZR	4.58	336	iPd	50	17.50	-6.0X
VRI	4.73	11	iPc	50	28.50	2.8
BZS	5.17	329	ePc	50	31.50	-0.4
KER	18.45	105	eP	53	23.00	-7.2X

S.D. = 1.2 on 34 of 42 obs.

? FEB 17, 1991 21h 58m 01.26± 1.94s
52.138 N ±36.6km 167.821 W ±20.1km
DEPTH = 33.0km (normal)
4.4mb (2 obs.)
FOX ISLANDS, ALEUTIAN ISLANDS (9)

SDN	5.40	51	eP	59	26.00	4.5X
ADK	5.48	271	eP	59	23.00	0.3
PDB	10.80	39	eP	00	37.50	0.9
PMR	13.88	40	eP	01	23.00	5.4X
KLU	15.14	43	eP	01	33.30	-0.9
TOA	15.34	41	eP	01	36.40	-0.3
IMA	15.68	22	eP	01	43.50	2.3
FBA	16.41	31	eP	01	49.00	-1.4
INK	23.03	32	eP	03	02.20	-1.7
YKA	29.68	49	eP	04	06.70	1.0
	0.4s		1.40nm		4.1mb	
SCH	54.98	44	eP	07	32.00	0.9
HFS	68.08	359	eP	08	56.20	-2.9
	0.3s		2.60nm		4.8mb	
LOR	80.72	6	eP	10	13.50	1.3
SSF	80.90	6	eP	10	13.40	0.3
LBF	81.01	6	eP	10	13.70	0.0
LSF	81.57	7	eP	10	17.00	0.4
GBA	93.83	298	P	11	16.00	-0.4

S.D. = 1.4 on 15 of 17 obs.

% FEB 17, 1991 23h 00m 55.29± 0.74s
40.805 N ±10.7km 21.595 E ± 4.8km
DEPTH = 5.0km (geophysicist)

GREECE (364)
MD 1.9 (THE).

FNA	0.17	263	eP	00	58.70	-0.1
GRG	0.63	76	ePc	01	07.72	-0.2
			eS	01	17.32	
OHR	0.68	297	ePg	01	08.90	0.1
			eSg	01	17.80	
LIT	0.98	136	ePd	01	14.44	0.1
			eS	01	29.40	
KNT	1.05	70	ePd	01	15.68	0.1
			eS	01	29.44	

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

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* FEB 17, 1991 23h 05m 23.14± 2.86s
31.233 S ±14.8km 71.993 W ±25.3km
DEPTH = 58.8 ± 23.1 km
4.8mb (1 obs.)
NEAR COAST OF CENTRAL CHILE (135)

IHA	1.81	171	iPc	05	54.80	2.3
			iS	06	19.10	
JACH	1.87	141	iPc	05	52.20	-1.2
			iS	06	12.50	
ROCH	1.92	155	iPc	05	53.50	-0.8
			iS	06	16.50	
RTRS	2.43	65	iPc	06	02.60	1.6
FCH	2.54	146	iPc	06	03.80	0.8
			iS	06	35.50	
			i	06	38.50	
TACH	2.57	160	iPd	06	02.70	-0.5
			iS	06	32.00	
LNV	2.76	170	ePd	06	04.50	-1.3
			i	06	36.00	
			iS	06	45.50	
RTCV	3.02	103	eP	06	09.90	0.3
RTLL	3.02	93	ePd	06	09.00	-0.6
			eS	06	44.00	
CFA	3.23	98	eP	06	12.50	-0.1
			eS	06	49.10	
SIV	18.15	36	P	09	31.20	-1.5
KIC	74.19	72	P	16	56.00	0.3
LKO	75.33	69	P	17	02.80	0.5
	0.7s		9.00nm		4.8mb	

S.D. = 1.3 on 13 of 13 obs.

& FEB 17, 1991 23h 21m 27.91s
61.373 N 149.613 W
DEPTH = 36.0km
SOUTHERN ALASKA (2)
<AEIC>.

PMS	0.13	169	iP	21	34.33	0.0
			eS	21	39.37	
PWA	0.31	336	iP	21	35.70	-0.2
PLRM	0.32	46	iP	21	35.27	-0.8
			eS	21	41.40	
GHO	0.52	39	iP	21	37.98	-0.9
			eS	21	46.43	
SUA	0.55	280	iP	21	38.66	-0.7
			eS	21	47.37	
KNK	0.56	85	iP	21	38.28	-1.1
			eS	21	46.76	
SLKM	0.92	199	iP	21	43.69	-0.8
NKA	1.01	232	iP	21	46.91	1.2
CUT	1.08	344	eP	21	46.12	-0.6
			eS	22	00.36	
SKT	1.10	305	iP	21	46.68	-0.4
			eS	22	01.83	
SPU	1.19	262	eP	21	47.78	-0.7
			eS	22	04.44	
NCG	1.22	273	iP	21	48.94	0.0
			iS	22	05.82	
CRP	1.23	266	eP	21	49.19	0.1
SEW	1.28	176	eP	21	48.83	-0.7
GLI	1.32	111	iP	21	48.80	-1.4
			eS	22	05.79	
CKL	1.33	264	eP	21	50.08	-0.3
BGL	1.34	267	iP	21	50.47	-0.2
KNIM	1.38	137	eP	21	49.05	-2.0
			eS	22	08.22	
VZW	1.51	101	eP	21	51.94	-1.2
			eS	22	11.37	
NNL	1.57	213	eP	21	54.85	0.9
RDT	1.58	241	iP	21	53.36	-0.7
VLZ	1.60	97	eP	21	52.88	-1.5
HUR	1.61	360	eP	21	54.06	-0.4

```
MTU      1.69  144 eP     21 53.79   -1.9
BRLK     1.73  202 eP     21 55.25   -1.0
REF      1.75  241 iP     21 56.11   -0.5
                 eS     22 18.71
RDN      1.76  242 eP     21 55.86   -0.9
KLU      1.78   85 eP     21 55.43   -1.5
                 eS     22 17.99
RSO      1.79  241 eP     21 56.64   -0.5
RS2      1.79  241 eP     21 56.65   -0.5
                 eS     22 19.36
TOA      1.79   64 eP     21 56.82   -0.3
NCT      1.81  245 eP     21 56.91   -0.5
RED      1.82  240 eP     21 56.77   -0.7
CNPM     2.02  204 eP     21 59.25   -1.0
RND      2.07   10 eP     22 00.40   -0.7
TZL      2.11   70 eP     22 00.78   -0.7
SDG      2.25   57 eP     22 03.54    0.1
PAX      2.52   49 eP     22 07.76    0.3
GLB      2.79   86 eP     22 09.26   -2.0
       39 obs. associated
-------------------------------------
&  FEB 18, 1991  00h 14m 21.00s
   29.700 N          113.800 W
   DEPTH =  10.0km  (geophysicist)
   3.8mb (  2 obs.)
 GULF OF CALIFORNIA                ( 49)
      <SPEC>. Held to mainshock
      location.

ECBX     2.07  329 eP     15 02.90    6.7
GLA      3.46  346 eP     15 19.50    3.5
IKP      3.54  327 eP     15 29.00   11.7
BAR      3.86  321 eP     15 24.00    2.3
PLM      4.48  325 eP     15 33.30    2.6
TPC      4.79  337 eP     15 42.00    7.0
PEC      5.06  326 e(P)   15 48.40    9.6
RVR      5.25  326 eP     16 01.00   19.6
SBB      6.03  327 eP     16 20.00   27.5
GSC      6.13  336 eP     16 23.00   29.1
ALQ      8.12   48 eP     16 19.00   -2.9
MSU      8.89    8 eP     16 34.00    1.3
PV09     9.59   23 eP     16 42.50    0.1
RSSD    16.35   26 eP     18 12.50    0.1
        1.2s     12.76nm          3.9mb
NEW     18.71  353 eP     18 44.30    2.7
        0.9s      3.84nm          3.6mb
       15 obs. associated
-------------------------------------
?  FEB 18, 1991  01h 55m 17.51± 6.17s
   20.519 S ±64.7km   69.140 W ±16.7km
   DEPTH = 159.9 ± 44.2 km
 NORTHERN CHILE                    (123)

CNCB     3.85   17 iPc    56 18.00    0.7
                 iS     56 52.00
LPB      4.09   14 P      56 19.50   -0.8
        1.0s    200.00nm
                 S      56 52.00
CCH      4.22   43 Pc     56 22.00    0.1
ZOBO     4.34   13 Pc     56 23.80    0.1
     Z  18s      0.07um
                 S      57 05.00
                 LR     58 14.00
ARE      4.61  331 eP     56 27.00    0.0
                 iS     57 12.00
SIV      8.89   61 iPc    57 23.60   -0.2
VAO     20.74  101 eP     59 57.10   10.0X
BMA     23.33  100 eP     00 23.60   11.2X
SOB1    29.47   72 eP     01 19.50   10.8X
LIC     68.33   74 P      06 03.90    0.1
KIC     68.64   74 Pc     06 05.70    0.0
YKA     90.19  341 eP     08 12.10   11.7X
        0.6s      0.20nm
      S.D. = 0.5  on   8 of  12 obs.
-------------------------------------
   FEB 18, 1991  01h 59m 19.63± 0.56s
   17.324 N ± 7.2km  121.313 E ± 9.3km
   DEPTH =  33.0km  (normal)
   4.8mb ( 16 obs.)  4.2Msz (  1 obs.)
 LUZON, PHILIPPINE ISLANDS         (249)

BAG      1.15  218 iPd-   59 38.20   -1.4
OCP      2.68  185 eP     00 05.00    3.6X
GZH      9.42  309 eP     01 38.00    1.8
SSE     13.71  360 eP     02 34.00    0.0
     Z  20s      0.50um
     N  10s      0.20um
     E  14s      0.70um
                 sP     02 42.50
WHN     14.61  336 eP     02 48.00    2.2
KMI     18.96  297 eP     03 43.00    1.9
XAN     20.01  329 P      03 48.30   -4.2X
CD2     20.93  313 eP     03 59.00   -3.0
CHG     21.32  277 eP     04 06.50    0.5
TIY     21.76  341 eP     04 09.20   -1.2
SNG     22.57  246 eP     04 21.00    2.4
BJI     23.07  350 eP     04 23.00   -0.2
        1.5s     39.00nm          4.7mb
IPM     23.57  240 ePd    04 27.00   -1.3
        0.9s     26.10nm          4.7mb
LZH     24.27  324 P      04 35.00   -0.2
        2.0s    150.00nm          5.2mb
     Z  20s      0.73um          4.2Msz
     E  15s      1.24um
                 pP     04 44.00   32kmX
SNY     24.50    4 Pd     04 36.00   -1.0
        1.6s    100.00nm          5.1mb
HHC     24.91  342 eP     04 41.40    0.2
BTO     25.16  339 eP     04 44.00    0.4
CN2     26.62    7 eP     04 54.50   -2.5
     Z  13s      0.90um          4.5MszX
GTA     28.88  324 eP     05 17.20   -0.4
        1.2s    10.00nm          4.4mb
LSA     30.18  300 eP     05 29.60   -0.2
GUN     34.25  294 P      06 04.42   -0.8
        0.8s    41.00nm          5.4mb
PKI     34.60  294 P      06 06.80   -1.4
KKN     34.75  294 P      06 08.08   -1.3
DMN     34.88  294 P      06 09.22   -1.3
        0.6s    19.00nm          5.2mb
GKN     35.35  294 P      06 13.00   -1.4
        0.8s    42.00nm          5.4mb
WMO     38.74  320 P      06 42.50   -0.1
                 sP     06 51.40
WB2     39.19  160 eP     06 45.80   -0.7
GBA     42.38  271 P      07 08.00   -4.9X
ASPA    42.56  163 eP     07 15.00    0.9
        1.1s     7.60nm          4.3mb
PMR     74.72   30 eP     10 57.80    0.1
        0.9s    10.30nm          4.8mb
KEV     75.38  339 eP     11 02.00    0.7
SOD     75.95  337 iP     11 05.30    0.7
KAF     77.17  331 eP     11 12.10    0.6
        0.6s     5.60nm          4.8mb
NUR     78.33  330 iP     11 18.50    0.7
        0.6s     5.00nm          4.7mb
INK     79.52   21 eP     11 24.30    0.0
MBC     79.90   12 eP     11 26.00   -0.2
        1.0s     8.00nm          4.7mb
HFS     83.60  331 eP     11 45.40   -0.3
        0.5s     3.60nm          4.8mb
NB2     84.33  333 P      11 49.80    0.3
        0.7s     2.40nm          4.5mb
VAY     85.11  312 eP     11 54.00    0.3
SKO     85.70  313 eP     11 57.80    1.1
KSP     85.88  322 ePc    11 58.70    1.3
                 ic     12 01.00
YKA     89.22   23 eP     12 13.50    0.2
        1.0s     1.40nm          4.2mb
KIC    121.75  289 PKP    18 15.40    2.6
      S.D. = 1.3  on  40 of  43 obs.
-------------------------------------
&  FEB 18, 1991  02h 35m 39.20s
   40.605 N          124.418 W
   DEPTH =  23.0km
 NEAR COAST OF NORTHERN CALIF.   ( 35)
      <BRK>. ML 3.6 (BRK). Felt (II)
      at Rio Dell.

FHC      0.38   59 iPd    35 47.09   -0.3
WDC      1.43   90 iPc    36 01.91   -2.0
                 eS     36 19.12
LTCM     1.80  102 eP     36 07.50   -1.7
LBFM     2.05   68 eP     36 12.20   -0.9
MIN      2.16   96 eP     36 12.11   -2.5
                 eS     36 36.50
ORV      2.47  114 ePc    36 16.08   -2.8
BRK      3.20  148 eP     36 27.50   -1.7
BKS      3.21  147 eP     36 27.30   -2.0
MHC      3.91  146 ePc    36 37.80   -1.6
ARN      3.95  144 eP     36 38.00   -1.9
CMB      4.05  128 iPd    36 39.80   -1.5
SAO      4.48  148 eP     36 43.70   -3.8
KVN      5.11  106 eP     36 53.50   -2.9
FRI      5.15  133 iPd    36 55.50   -1.4
ABL      7.07  143 eP     37 21.70   -2.4
PEC      8.85  137 eP     37 45.80   -2.9
       16 obs. associated
-------------------------------------
   FEB 18, 1991  02h 37m 25.12± 0.14s
    8.870 N ± 3.5km  126.480 E ± 3.9km
   DEPTH =  23.9km  (geophysicist)
   6.0mb ( 97 obs.)  6.6Msz ( 45 obs.)
 MINDANAO, PHILIPPINE ISLANDS      (259)
      Ms 6.6 (BRK), 6.1 (PAS).
      Mo=2.0*10**19 Nm (PPT). Felt
      (III RF) at Cagayan de Oro,
      Bislig and on Macton and (I RF)
      at Cotabato. Depth from
      broadband displacement
      seismograms.
      FAULT PLANE SOLUTION: P-Waves
       NP1:Strike=355 Dip=68 Slip= 105
       NP2:       139     26       57
       Principal Axes:
        T                Plg=64  Azm=290
        P                  22        74
      Comment: The focal mechanism is
        poorly controlled and
        corresponds to reverse
        faulting with a small left-
        lateral strike-slip component.
        The preferred fault plane is
        NP2.
      RADIATED ENERGY
       No. of sta:   4  Focal mech.  F
       Energy        5.0±1.5*10**13 Nm
      MOMENT TENSOR SOLUTION
      Dep  25           No. of sta: 14
      Moment Tensor;   Scale 10**19 Nm
        Mrr= 1.86       Mtt= 0.20
        Mff=-2.06       Mrt=-1.16
        Mrf= 2.98       Mtf= 0.11
       Principal axes:
        T  Val=  3.73  Plg=59  Azm=238
        N        0.04      9       344
        P       -3.77     29        79
      Best Double Couple:Mo=3.8*10**19
       NP1:Strike=194 Dip=18 Slip= 121
       NP2:       341     75       81
      CENTROID, MOMENT TENSOR    (HRV)
      Data Used: GDSN
      L.P.B.: 14S, 38C  M.W.: 18S, 34C
      Centroid Location:
      Origin Time       02:37:35.1 0.1
      Lat  9.15N 0.01 Lon 126.79E 0.01
      Dep  27.7 0.6 Half-duration  8.0
      Moment Tensor;   Scale 10**19 Nm
        Mrr= 1.12 0.01  Mtt=-0.01 0.01
        Mff=-1.11 0.01  Mrt= 0.18 0.03
        Mrf= 1.10 0.04  Mtf=-0.15 0.01
       Principal Axes:
        T  Val=  1.58  Plg=68  Azm=280
        N        0.01      1       188
        P       -1.59     22        98
      Best Double Couple:Mo=1.6*10**19
       NP1:Strike=186 Dip=23 Slip=  88
       NP2:         9     67        91

CGP      1.81  257 eP     38 00.50    5.2X
DAV      1.98  207 iPc+   38 04.80    7.0X
MAP      2.86  301 iPd    38 14.50    4.4X
PGP      7.11  311 ePc    39 16.00    5.6X
                 iS     39 42.00
                 i      40 03.00
PPR      7.70  277 iPc    39 22.00    3.4X
                 iS     40 21.00
QCP      7.80  318 eP     39 22.00    2.0
BAG      9.45  323 iPc+   39 41.20   -1.9
TSM      9.54  242 ePd    39 55.20   11.0X
        1.0s    743.70nm
CVP      9.88  333 eP     39 50.00    1.2
                 eS     40 37.00
SZP     10.43  326 eP     40 00.30    3.9X
KKM     10.56  255 ePc    40 06.50    8.3X
        1.2s    792.70nm          6.9mb
PIP     10.99  329 iPc    40 10.00    6.0X
TATO    16.71  344 ePc    41 21.06    1.7
ANP     16.90  344 iPc    41 26.00    4.1X
                 iS     44 32.80
QZH     17.66  336 iPc    41 31.50    0.2
```

18d 02h

```
        9.0s  ********nm           6.6mb X
     Z  16s      94.90um           5.1MszX
     N  16s      73.20um
     E  16s      48.30um
HKC    17.84 320 iP      41 35.00   1.5
MCO    18.11 318 eP      41 51.50  14.6X
PJG    18.63  74 eP      41 42.30  -1.0
                 eTT     00 36.00
GUA    18.66  74 eP      41 41.60  -2.1
        1.3s    923.08nm           5.8mb
     Z  21s     128.32um           4.3Msz
                 e       41 45.70
GZH    18.93 320 iPc     41 47.00   0.1
        1.0s    200.00nm           5.3mb
     N  23s     585.00um
     E  20s     304.00um
QIZ    19.03 304 iPc     41 49.00   0.9
        0.9s    300.00nm           5.5mb
     N  16s     219.00um
     E  16s     232.00um
MTN    22.06 168 eP      42 20.00  -0.1
SSE    22.66 348 iPd     42 26.40   0.5
        1.0s   1260.00nm           6.4mb
     N  18s     105.00um
     E  18s      93.20um
                 pP      42 32.60  22kmX
                 sP      42 40.00
                 S       46 20.00
MNDI   22.72 130 e(P)    42 26.00  -0.9
NJ2    24.13 344 iPc     42 40.00  -0.2
        0.8s    400.00nm           6.0mb
     Z  21s      50.40um           6.0Msz
     N  14s      47.30um
     E  14s      65.70um
WHN    24.36 334 iPc     42 42.00  -0.4
        1.5s    300.00nm           5.6mb
     Z  20s     123.00um           6.4Msz
     N  14s     220.00um
     E  20s     222.00um
KNA    24.56 175 eP      42 43.80  -0.7
        0.6s    538.00nm           6.3mb
PCT    25.20 286 iPc     42 53.20   2.6
        0.5s     13.00nm           4.8mb X
KLM    25.34 258 eP      42 56.00   4.0X
IPM    25.63 262 ePc     42 57.00   2.2
                 e       43 38.20 210kmX
SNG    25.66 268 eP      42 57.20   2.2
        1.1s    493.67nm           6.1mb
GYA    25.67 315 iPc     42 56.00   0.8
        6.0s   8500.00nm           6.6mb X
     N  15s     155.00um
     E  15s     162.00um
                 PP      43 36.00
SHK    26.17  12 iPc     43 00.80   1.3
        1.0s    300.00nm           5.9mb
NNT    26.53 280 iPc     43 06.20   3.1X
NST    26.60 287 eP      43 06.00   2.3
KBR    26.89 283 eP      43 13.00   6.7X
PMG    27.45 131 eP      43 09.00  -2.4
KMI    27.79 308 ePc     43 14.71   0.0
        2.5s    920.00nm           6.0mb
     N  13s      12.00um
     E  12s      23.00um
                 eS      48 21.22
KHT    27.90 285 iPc     43 17.50   1.9
BDT    28.00 290 eP      43 15.50  -0.9
        0.8s    270.00nm           6.0mb
CHG    28.46 293 iPc     43 21.00   0.3
        1.0s    175.00nm           5.7mb
                 eS      48 24.00
CHTO   28.46 293 iPc     43 20.62   0.0
                 ed      43 33.20  49kmX
TIA    28.52 344 Pc      43 19.20  -1.7
     N  15s      52.20um
     E  15s      62.90um
                 S       48 02.00
                 sS      48 30.00
RAB    28.71 116 iP-     43 22.00  -0.9
                 eS      48 16.00
MAJO   29.54  19 ePc     43 27.46  -2.7
                 epPd    43 33.91  22kmX
                 ec      43 43.35
                 eS      48 12.29
MAT    29.54  19 eP      43 28.00  -2.1
        1.8s    159.09nm           5.5mb
                 eS      48 27.00
WB2    29.66 165 iPc     43 27.40  -4.0X
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                 eS      48 20.20
XAN    29.81 330 P       43 29.30  -3.3X
     N  12s      57.00um
     E  12s      46.90um
                 pP      43 49.50  88kmX
                 PcP     46 37.00
                 sS      48 50.00
DL2    30.22 352 iPc     43 36.00  -0.1
        1.0s   1000.00nm           6.6mb
     Z  18s      49.40um           6.2Msz
     N  14s      55.30um
     E  14s      38.60um
                 iS      48 33.00
CD2    30.49 319 P       43 37.50  -1.2
     N  17s     279.00um
     E  17s     229.00um
MBL    30.55 192 iPd     43 38.60  -0.6
        0.5s     43.00nm           5.5mb
TIY    31.40 338 iPc     43 44.50  -2.1
        1.0s    100.00nm           5.6mb
     Z  17s      60.00um           6.3MszX
     N  15s      71.50um
                 pP      44 03.00  79kmX
                 S       48 47.00
OIS    31.96 156 iPd     43 49.10  -2.6
BJI    32.37 345 iPc     43 53.96  -1.0
        1.0s    390.00nm           6.3mb
     E  16s      49.50um
                 epPd    44 00.58  23kmX
                 eS      49 08.00
SNY    32.92 356 iPc     43 59.30  -0.5
        1.0s   1100.00nm           6.7mb
     Z  20s      92.70um           6.5Msz
     N  14s      46.10um
     E  12s      32.40um
                 sP      44 15.00
                 iS      49 16.00
NANU   33.03 199 eP      44 01.00   0.1
ASPA   33.14 167 iPc     43 59.50  -2.4
        0.6s     40.80nm           5.5mb
                 eS      49 16.30
LZH    34.04 326 ePc     44 08.88  -0.9
        2.4s    500.00nm           6.0mb
     E  16s      93.30um
                 esPd    44 20.64
                 S       49 29.50
HHC    34.49 340 iPc     44 13.00  -0.6
        9.0s   8900.00nm           6.7mb X
     Z  18s      50.80um           6.3Msz
     N  16s      24.30um
     E  15s      31.40um
                 PP      45 34.00
CTA    34.74 146 iPc     44 14.70  -1.1
        1.0s    100.00nm           5.7mb
                 iS      49 17.00
CN2    34.81 359 P       44 15.00  -1.1
        1.0s    200.00nm           6.0mb
     Z  20s     125.00um           6.7Msz
     N  15s      55.00um
     E  15s      24.00um
                 PP      45 30.00
                 eS      49 44.00
                 eSS     51 51.00
BTO    34.82 338 iPc     44 15.00  -1.4
        9.0s   9100.00nm           6.7mb X
     N  15s      54.90um
     E  15s      29.00um
                 pP      44 32.00  70kmX
                 PP      45 36.00
                 iS      49 45.00
WARB   34.84 180 eP      44 16.00  -0.6
        0.4s     80.00nm           6.0mb
MDJ    35.71   4 iPc     44 23.50  -0.3
        1.5s    200.00nm           5.8mb
     Z  20s      74.60um           6.4Msz
     N  15s      42.00um
     E  14s      45.40um
                 S       49 58.00
                 SS      52 20.00
MEKA   36.10 192 eP      44 27.30   0.0
SAP    36.46  18 eP      44 29.00  -1.0
SVO    37.72 117 P       44 40.00  -1.0
HNR    37.96 118 eP      44 42.00  -1.0
                 eS      50 08.00
GTA    38.65 326 Pc      44 47.80  -0.9
        1.0s     70.00nm           5.4mb
     Z  15s     146.00um           6.9MszX
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     E  15s     111.00um
                 sP      45 09.00
                 PP      46 24.00
                 ScS     54 48.00
LSA    39.02 307 eP      44 53.20   0.9
     Z  20s     150.00um           6.8Msz
     N  15s      25.50um
                 S       50 50.00
                 sS      51 12.00
MRWA   39.19 195 eP      44 53.00  -0.2
        0.4s     30.00nm           5.4mb
QLP    39.23 154 eP      44 51.00  -2.5
                 i       44 59.60  29kmX
FORR   39.52 178 eP      44 54.50  -1.3
COOL   39.85 187 eP      44 58.00  -0.7
        0.3s      9.00nm           5.0mb X
BAL    40.35 193 eP      45 02.50  -0.3
YSS    40.46  17 iPc     45 03.00  -0.4
                 eS      50 58.00
HIA    40.66 353 iPc     45 04.58  -0.5
                 epPd    45 10.87  21kmX
                 ePP     46 42.65
                 eScP    50 56.78
KLB    41.09 191 eP      45 08.40  -0.3
        0.5s     92.00nm           5.8mb
RMQ    41.27 149 eP      45 09.00  -1.3
MUN    41.79 193 iPd     45 15.30   0.8
        0.7s    238.00nm           6.0mb
     Z  20s      29.40um           6.2Msz
     N  20s      34.60um
     E  20s      31.60um
NWAO   42.49 192 eP      45 20.20   0.0
        0.7s    208.00nm           6.0mb
                 eS      51 46.00
GUN    42.66 302 P       45 22.54   0.3
PKI    42.96 301 P       45 24.30  -0.3
        0.6s    319.00nm           6.2mb
KKN    43.13 301 P       45 25.72  -0.2
DMN    43.22 301 P       45 26.66   0.0
GKN    43.74 301 P       45 30.40  -0.3
        0.6s    609.00nm           6.6mb
BRS    44.14 146 iPc     45 31.80  -2.0
     Z  20s      60.00um           6.5Msz
                 i       45 39.00  24kmX
                 i       45 44.00
                 iS      52 00.00
CMS    44.20 156 eP      45 33.00  -1.1
ADE    45.11 166 iPc     45 40.80  -0.7
        0.7s    273.97nm           6.3mb
COO    46.19 149 eP      45 50.00  -0.1
IRK    46.91 341 ePc     45 54.30  -1.2
                 e       46 16.00  90kmX
                 e       46 47.00
                 ePP     47 46.00
                 ePPP    48 36.80
                 ePcS    51 22.00
                 eS      52 35.00
                 e       53 42.00
                 e       55 26.00
                 eSS     56 06.00
                 e       57 16.00
                 eSSS    57 55.00
HYB    47.33 285 ePc     46 00.20   0.9
                 e       47 54.00 652kmX
                 eS      53 52.00
BFD    48.22 163 iPd     46 06.00   0.1
        0.9s    250.00nm           6.2mb
GBA    48.27 280 P       46 08.00   1.4
KOD    48.32 276 iP      46 08.00   0.6
        0.9s    226.89nm           6.2mb
WMQ    48.45 323 iPc     46 07.48  -0.3
        1.4s    300.00nm           6.1mb
     Z  20s      49.20um           6.5Msz
                 pP      46 16.50  30kmX
                 PcP     47 32.50
                 PP      47 59.00
                 eScP    51 21.04
                 S       53 05.00
                 esS     53 23.22
RIV    48.50 152 eP      46 14.00   5.9X
                 ePP     48 08.00
                 e       51 26.00
                 eS      53 08.00
CNB    48.97 155 eP      46 10.00  -1.8
TOO    49.51 160 eP      46 16.00   0.1
     Z  18s      53.80um           6.6Msz
DZM    49.81 129 iPd     46 19.50   1.0
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NDI	50.23	300	iPc	46	20.00	-1.5
	0.5s	28.17nm			5.5mb	
PET	51.14	24	eP	46	26.00	-2.0
			eS	53	43.00	
POO	51.87	287	iPc	46	33.20	-1.0
	1.1s	329.11nm			6.2mb	
			iSn	54	12.00	
BOM	52.87	287	iP	46	41.00	-0.6
			eS	53	54.00	
KSH	54.30	313	P	46	52.00	0.0
E	16s	138.00um				
TAU	54.93	161	eP	46	56.00	-0.3
FRU	56.45	316	iPc	47	07.00	-0.5
			iS	54	58.00	
SMY	58.22	32	eP	47	22.30	2.6
Z	21s	20.30um			6.2Msz	
GAR	58.35	311	iPc	47	19.00	-2.0
			iPcP	48	00.00	
			iPP	49	33.00	
			iPPP	50	51.00	
			PcP	52	00.00	
			iS	55	21.00	
			iSS	59	57.00	
			iSSS	01	39.00	
DSH	59.40	310	eP	47	27.00	-1.3
			eS	55	35.00	
TIK	62.72	1	iPc	47	48.60	-1.5
			iS	56	14.00	
ADK	62.92	36	eP	47	53.00	1.3
	1.5s	484.10nm			6.4mb	
Z	20s	40.50um			6.6Msz	
THZ	65.92	144	eP	48	10.30	-1.2
LTZ	66.19	145	P	48	14.40	1.2
KIW	66.58	142	eP	48	18.10	2.5
MRW	66.67	142	P	48	17.70	1.5
KHZ	66.70	144	P	48	14.30	-2.0
	0.5s	53.00nm			5.9mb	
WEL	66.74	142	eP	48	18.00	1.4
			S	56	44.00	
WDW	66.87	142	eP	48	19.00	1.5
HBZ	66.91	137	eP	48	17.20	-0.6
	1.0s	331.00nm			6.4mb	
BLW	67.22	142	eP	48	22.30	2.6
PGZ	67.28	141	eP	48	21.10	1.1
ILT	69.07	19	iPc	48	31.00	0.2
			iS	57	36.00	
TEH	72.79	305	eP	48	50.00	-4.1X
SDN	73.11	35	e(P)	48	56.50	1.2
Z	22s	37.60um			6.6Msz	
			e	48	57.10	2kmX
PAF	75.94	214	iPc	49	17.00	5.4X
			ePP	52	15.00	
			ePPP	54	16.00	
			eS	59	30.00	
			eSS	04	50.00	
			eSSS	08	10.00	
DRV	75.98	174	iPc	49	16.00	4.5X
			S	58	57.00	
			SS	03	58.00	
KER	76.30	303	ePc	49	13.00	-1.3
SVW	76.44	29	ePc	49	15.30	0.9
TTA	76.47	27	e(P)	49	15.20	0.6
TAB	76.85	307	eP	49	17.00	-0.3
PDB	77.02	31	P	49	18.00	0.5
RYD	77.19	293	ePc	49	20.00	0.7
BRW	77.41	19	P	49	20.40	0.9
RAR	78.29	114	P	49	28.00	2.7X
			S	59	20.00	
BKR	78.92	311	iPc	49	29.00	0.4
			iS	59	29.00	
KMSA	79.50	289	ePc	49	31.70	-0.3
PMR	79.59	29	ePc	49	31.20	-0.4
	0.9s	0.20nm			3.1mb	X
Z	21s	17.20um			6.4Msz	
COL	80.22	26	iPc	49	34.59	-0.3
			ic	49	51.81	62kmX
			ePP	52	48.75	
AFIF	80.35	293	ePc	49	38.70	2.1
KLU	81.13	29	P	49	40.00	0.1
ABHA	81.36	287	ePc	49	44.70	2.6
OBO	81.59	281	ePd	49	44.71	1.7
ATA	81.74	280	ePd	49	45.88	2.1
TDD	81.99	281	ePd	49	46.98	1.9
ARO	82.08	280	iP+	49	47.00	1.3
			i	52	00.00	634kmX
SGH	82.29	280	ePd	49	48.42	1.6
KSU	82.47	280	eP+	49	49.44	1.7
OBN	82.73	325	iPc	49	47.20	-1.0
	1.0s	230.00nm			6.2mb	
Z	18s	44.00um			6.9Msz	
			iS	00	00.00	
APA	83.07	337	iPc	49	49.50	-0.3
KVT	84.57	311	eP	49	55.60	-2.4
KEV	85.01	340	iP	50	01.20	1.7
Z	22s	16.80um			6.4Msz	
			e	51	20.00	337kmX
			e	53	20.00	
			e	01	24.00	
			e	03	33.00	
			e	05	52.00	
			LR	32	20.00	
SIM	85.47	315	iPc	50	00.00	-2.4
PUL	85.50	330	ePc	50	02.00	-0.1
			eS	00	22.00	
INK	85.50	22	iP	50	02.00	0.0
	1.3s	635.00nm			6.7mb	
MDSJ	85.61	301	P	50	05.70	2.3
SOD	85.65	338	iP	50	02.00	-0.8
			i	50	15.00	43kmX
BHL	85.80	304	Pc	50	03.00	-1.4
			PP	53	26.00	
			SKKS	00	33.00	
HRI	85.82	303	eP	50	04.00	-0.5
SHMJ	85.87	302	P	50	08.50	3.9X
KBS	85.94	350	eP	50	04.00	-0.1
CRZF	85.95	222	iPc	50	13.00	8.4X
			ePP	53	30.00	
			eS	00	56.00	
			eSS	06	39.00	
KFNJ	86.06	301	P	50	07.30	1.8
WAJH	86.07	296	ePc	50	06.70	1.0
MKRJ	86.13	301	P	50	07.50	1.5
AYN	86.20	298	ePc	50	07.40	1.2
JVI	86.33	302	eP	50	07.00	0.1
KTK1	86.48	339	eP	50	05.80	-1.1
AFR	86.74	108	eP	50	11.00	2.0
	1.2s	160.00nm			6.1mb	
PPT	86.93	108	eP	50	12.00	2.0
	1.2s	215.00nm			6.3mb	
PAE	86.95	108	eP	50	12.00	2.0
	1.2s	170.00nm			6.2mb	
KAF	86.96	332	iP	50	08.60	-0.7
	1.1s	240.30nm			6.3mb	
HQL	86.96	299	ePc	50	12.00	2.0
MBC	87.02	13	ePc	50	09.70	0.3
	1.0s	571.00nm			6.8mb	
SIT	87.06	33	eP	50	12.20	2.4
Z	20s	19.50um			6.5Msz	
PPN	87.06	108	eP	50	13.00	2.4
	1.2s	175.00nm			6.2mb	
BADA	87.11	298	ePc	50	12.00	1.3
RMN	87.15	300	eP	50	10.50	-0.5
BBTK	87.23	310	iPc	50	10.00	-1.2
TVO	87.28	108	eP	50	14.00	2.3
	1.2s	225.00nm			6.3mb	
CSS	87.55	305	eP	50	11.50	-1.2
TRO	87.76	340	iPc	50	12.88	-0.1
PMO	88.08	105	iP	50	18.70	3.2X
	1.2s	215.00nm			6.4mb	
NUR	88.12	331	iP	50	13.20	-1.7
	1.1s	160.70nm			6.3mb	
Z	16s	22.10um			6.7MszX	
			i	50	17.20	13kmX
			e	51	32.00	
			e	53	38.00	
			e	02	12.00	
			LR	33	40.00	
TPT	88.34	105	iP	50	19.90	3.2X
	1.2s	185.00nm			6.3mb	
PPCY	88.36	305	e(P)	50	15.00	-1.6
VAH	88.37	106	iP	50	20.10	3.2X
	1.2s	130.00nm			6.1mb	
MAW	88.46	200	e(P)	50	20.00	3.7X
	1.1s	159.00nm			6.3mb	
Z	23s	14.00um			6.3MszX	
			e(S)	02	02.00	
VNDA	88.52	173	iPc	50	19.20	2.7X
RUV	88.60	106	iP	50	21.20	3.2X
	1.2s	160.00nm			6.2mb	
BCK	89.31	308	iP	50	20.60	-0.6
HRT	89.38	311	iP	50	21.80	0.4
ALT	89.38	309	iP	50	20.50	-1.0
SBA	89.43	172	iP	50	27.60	6.8X
IAS	89.57	318	eP	50	20.00	-2.1
CFR	89.59	316	eP	50	20.00	-2.2
ISK	89.79	311	eP	50	23.00	-0.2
TLB	89.80	315	eP	50	30.50	7.3X
ITU	89.81	311	iPc	50	24.00	0.7
NAI	89.87	269	iPd	50	26.60	2.1
KHL	89.97	309	eP	50	22.70	-1.6
ELL	89.98	307	iP	50	24.30	-0.1
HLW	90.06	300	iP+	50	25.00	0.3
			e	51	25.00	247kmX
KSL	90.35	307	eP	50	25.30	-0.7
DST	90.40	310	iP	50	24.10	-2.1
VRI	90.42	316	eP	50	31.00	4.9X
DMK	90.59	312	eP	50	25.50	-1.4
ISR	90.71	316	eP	50	35.00	7.5X
BNT	90.78	311	iP	50	26.70	-1.2
MLR	91.04	316	eP	50	35.00	5.9X
BUC	91.19	315	ePd	50	25.00	-4.6X
UPP	91.66	331	iP	50	30.00	-1.4
IZM	91.70	309	eP	50	31.30	-0.9
CMP	91.72	316	iPc	50	28.00	-4.1X
ALN	92.05	312	ePd	50	32.08	-1.6
BMR	92.13	319	ePd	50	37.00	3.1X
TNR	92.14	317	ePd	50	35.00	0.9
SMG	92.18	309	eP	50	33.70	-0.6
NSS	92.24	337	iP	50	31.97	-2.1
PRK	92.26	310	eP	50	34.40	-0.3
RDO	92.36	312	eP	50	34.40	-0.7
KAP	92.39	306	eP	50	34.40	-0.9
UZH	92.63	320	iPc	50	37.00	0.8
			iS	01	40.00	
GZR	93.23	317	ePd	50	38.00	-1.1
HFS	93.38	332	eP	50	37.50	-1.9
	0.5s	9.90nm			5.5mb	
Z	18s	38.85um			6.9Msz	
			LR	23	43.00	
RGS	93.53	336	eP	50	40.20	0.2
NPS	93.69	306	eP	50	41.40	0.0
SPC	93.76	321	iP	50	40.60	-1.1
SRS	93.80	312	ePc	50	41.04	-0.7
BZS	93.95	317	eP	50	46.50	4.2X
PAIG	94.04	311	iPc	50	40.72	-2.1
NB2	94.10	334	P	50	40.80	-2.0
	1.7s	164.70nm			6.2mb	
KNT	94.29	313	ePd	50	42.28	-1.7
PSZ	94.38	320	e(P)	50	45.00	0.6
THE	94.38	312	iP	50	41.92	-2.5
GRG	94.71	313	ePd	50	43.08	-2.9X
VAM	94.78	307	eP	50	46.10	-0.3
BSD	94.78	328	iPc	50	47.20	1.3
	1.0s	66.00nm			6.0mb	
JNW	94.78	347	iP	50	47.80	2.1
LIT	94.87	312	ePc	50	44.84	-1.9
MOL	94.91	336	iP	50	46.78	0.4
YKA	94.94	24	eP	50	45.70	-0.9
	1.1s	82.00nm			6.1mb	
BEO	94.96	317	eP	50	45.50	-1.5
BUD	95.08	319	e(P)	50	47.00	-0.5
SKO	95.12	314	iP	50	45.90	-1.9
Z	19s	20.39um			6.6Msz	
N	20s	22.50um				
E	20s	19.70um				
			i	50	48.00	7kmX
			i	51	56.00	
			iPP	54	43.00	
			iS	01	30.00	
			iSP	03	41.00	
			iPS	03	48.00	
			i	05	36.00	
			iSS	09	02.00	
			iSSS	12	46.00	
SRO	95.42	320	ePKP	50	46.50	-2.6
			i	50	49.20	8kmX
VLI	95.44	308	eP	50	47.70	-1.7
KONO	95.45	333	ePc	50	49.84	0.9
			ic	51	07.22	61kmX
KSP	95.61	323	eP	50	48.80	-1.1
	1.0s	74.00nm			6.1mb	
			i	50	53.40	14kmX
			e	51	59.00	
			e	01	40.00	
UZD	95.65	319	e(P)	50	51.00	0.9
OHR	95.82	313	eP	50	59.80	8.7X
	1.1s	******nm			8.2mb	X
			eS	01	23.00	
ZST	96.06	321	ePKP	50	51.60	-0.4
Z	17s	59.60um			7.1MszX	
PGC	96.33	39	eP	50	50.00	-3.1X

18d 02h

TTG 96.52 315 eP 50 56.00 1.8
e(S) 02 18.00
VKA 96.52 321 eP 50 54.00 -0.1
8.0s 2388.00nm 6.7mb X
Z 17s 26.00um 6.8MszX
ic 50 55.10 3kmX
i 54 53.70
LR 42 03.00
NKY 96.59 315 eP 50 54.00 -0.6
IGT 96.63 312 ePd 50 53.28 -1.5
MCW 96.70 39 P 50 56.00 1.1
BRN 96.78 325 eP 50 56.00 0.9
BRY 96.88 315 eP 50 55.60 -0.4
PRU 96.97 323 P 50 56.70 0.7
1.3s 45.10nm 5.8mb
Z 18s 35.50um 6.9Msz
N 18s 15.20um
E 18s 31.10um
e 02 18.00
BRG 96.98 324 iP 50 56.00 0.0
1.5s 100.00nm 6.1mb
Z 18s 31.00um 6.8Msz
N 18s 20.00um
E 18s 12.00um
i 50 59.30 10kmX
i 51 13.10
i 51 23.20
e 59 12.00
eSKS 01 24.00
eS 02 24.00
HCY 97.05 315 eP 50 56.50 -0.1
GMW 97.14 40 P 50 57.80 0.9
BMW 97.25 41 P 50 56.50 -1.0
CLL 97.35 325 eP 50 57.00 -0.7
1.9s 120.00nm 6.1mb
Z 18s 47.00um 7.0Msz
eS 02 26.00
PTJ 97.60 319 eP 51 02.40 3.3X
ZAG 97.61 319 eP 51 01.00 2.0
RMW 97.79 40 P 51 01.50 1.6
COR 97.87 43 iPc 51 04.02 3.9X
ePP 54 56.23
eSKS 01 38.72
esSKS 02 03.55
iPS 03 45.85
ePPS 04 34.85
KHC 97.88 322 P 51 00.70 0.5
1.1s 25.00nm 5.7mb
Z 20s 26.00um 6.7Msz
N 20s 20.40um
E 20s 21.40um
e 02 42.00
LWI 97.93 269 iPc 50 59.60 -1.7
KMR 97.96 321 iP+ 51 00.40 -0.2
iPP 55 02.30
LON 98.06 40 ePc 51 01.91 0.8
ec 51 19.62 62kmX
WET 98.29 323 iPc 51 02.70 0.6
1.4s 69.00nm 6.0mb
Z 20s 35.00um 6.9Msz
PNT 98.41 37 eP 51 03.00 0.4
1.0s 55.00nm 6.0mb
MOX 98.42 324 eP+ 51 03.00 0.4
2.1s 150.00nm 6.2mb
Z 18s 32.20um 6.9Msz
N 20s 18.60um
E 16s 15.60um
BRT 98.48 314 P 51 09.00 6.0X
SPA 98.81 180 iPd 51 09.50 5.4X
1.0s 25.00nm 5.7mb
Z 20s 15.77um 6.5Msz
BHG 98.87 321 eP 51 04.50 -0.2
1.1s 62.00nm 6.1mb
GRF 99.05 324 ePc 51 05.10 -0.4
1.1s 26.00nm 5.7mb
Z 20s 25.00um 6.7Msz
e 51 09.20 13kmX
TRI 99.10 319 eP 51 03.00 -2.7
e 51 49.00 184kmX
i 54 29.00
i 56 58.00
i 03 27.00
i 10 53.00
i 16 45.00
VGB 99.19 41 P 51 09.00 2.8X
FVI 99.38 320 P 51 05.90 -1.1
TDS 99.52 313 P 51 03.80 -4.0X

BFT 99.55 245 iPc 51 08.50 0.1
0.8s 33.00nm 5.9mb
FUR 99.67 322 eP 51 09.60 1.2
Z 18s 29.00um 6.8Msz
WDC 99.80 46 eP 51 11.20 2.1
WTTA 99.82 321 iPc 51 07.90 -1.4
1.0s 60.60nm 6.1mb
i 51 23.90 55kmX
WATA 99.83 321 iPc 51 07.80 -1.5
1.2s 59.80nm 6.0mb
i 51 20.70 43kmX
SGO 99.95 314 P 51 09.00 -0.7
SOTA 100.11 321 iPdiff51 08.80 -1.6
1.3s 87.20nm 6.1mb
i 51 23.70
i 51 37.10
MOTA 100.12 321 iPdiff51 09.10 -1.4
1.0s 56.00nm 6.0mb
i 51 21.10
EDM 100.15 32 ePdiff51 11.00 0.6
WIT 100.16 328 ePdiff51 11.00 0.7
SOI 100.26 311 Pdiff 51 25.00 13.9X
CTI 100.32 320 Pdiff 51 07.90 -3.5X
BUL 100.34 251 iPdiff51 12.00 -0.1
1.1s 21.52nm 5.6mb
i 02 00.00
NEW 100.35 37 Pdiff 51 10.80 -0.6
1.0s 50.00nm 6.0mb
OGA 100.37 321 iPdiff51 11.70 0.0
1.0s 28.00nm 5.7mb
TNS 100.42 325 ePdiff51 11.30 -0.4
CIO 100.47 317 ePdiff51 12.25 0.1X
WTS 100.49 327 ePdiff51 13.00 1.2
1.0s 26.00nm 5.7mb
SDI 100.58 315 Pdiff 51 09.50 -3.1X
BNS 100.79 326 iPdiff51 13.30 0.1
Z 18s 40.40um 7.0Msz
BRK 100.95 49 e(Pdif51 16.80 2.6
BKS 100.97 49 ePdiff51 16.00 1.7
Z 20s 19.00um 6.6Msz
N 20s 7.00um
E 20s 15.00um
ePP 55 28.00
i 01 51.00
iS 02 50.00
e 04 14.00
i 08 07.00
eSS 09 44.00
eSSS 13 35.00
e 14 59.00
eLQ 16 43.00
eLg 18 39.00
eLR 22 56.00
SFI 101.05 318 Pdiff 51 12.30 -2.2
ABH 101.10 325 ePdiff51 14.62 0.0
MNS 101.10 316 Pdiff 51 15.00 0.1
CRE 101.10 318 Pdiff 51 17.00 2.1
SLR 101.14 245 iPdiff51 15.00 -0.6
1.5s 50.00nm 5.8mb
Z 22s 39.60um 6.9Msz
PGD 101.16 318 Pdiff 51 12.30 -3.0X
DBN 101.31 327 ePdiff51 16.00 0.5
Z 16s 36.50um 7.0MszX
epP 52 24.00
ePP 55 28.00
epPP 56 34.00
epPPP 58 39.00
eSKS 01 52.00
ePPS 04 40.00
eSS 10 08.00
MNO 101.32 312 Pdiff 51 13.30 -2.9X
FIR 101.50 318 e(Pdif51 18.00 1.5
i(S) 01 50.00
MHC 101.59 49 e(Pdif51 20.40 3.1X
MME 101.70 319 Pdiff 51 17.40 -0.4
SEK 101.91 243 iPdiff51 22.00 3.0X
0.7s 11.00nm 5.6mb
CDF 101.95 324 ePdiff51 19.70 1.1
1.3s 25.25nm 5.7mb
GDH 102.07 0 ePdiff51 08.00 -10.4X
i 55 30.00
i 02 59.00
i 04 47.00
i 05 40.00
VAI 102.21 321 Pdiff 51 19.00 -0.6
CMB 102.28 48 ePdiff51 22.50 2.3
KSR 102.40 245 ePdiff51 15.50 -5.7X

UCC 102.42 327 Pdiff 51 25.00 4.6X
BSF 102.51 323 ePdiff51 20.70 -0.4
1.2s 11.90nm 5.4mb
SNF 102.61 326 Pdiff 51 22.10 0.8
DOU 102.65 326 Pdiff+51 21.60 0.1
0.9s 25.00nm 5.9mb
Z 18s 23.50um 6.8Msz
PP 55 37.00
SKS 01 55.00
PS 04 41.00
FRI 103.16 49 ePdiff51 26.30 2.2
KVN 103.54 46 Pdiff 51 28.00 2.0
EKA 103.56 333 Pdiff 51 30.00 4.6X
2.0s 89.60nm 6.2mb
LPG 103.64 321 ePdiff51 26.30 -0.1
0.9s 18.00nm 5.9mb
LPL 103.64 321 ePdiff51 26.30 -0.1
0.9s 14.75nm 5.8mb
BONR 103.83 47 Pdiff 51 29.90 2.4
SBC 104.09 51 iPdiff51 31.25 3.0X
eSKS 02 10.38
eSKKS 02 37.20
e 02 46.47
ePS 04 52.61
LRM 104.31 38 ePdiff51 31.20 1.8
LOR 104.52 324 ePdiff51 31.20 1.3
1.1s 17.10nm 5.8mb
Z 21s 37.50um 6.9Msz
TNP 104.56 47 Pdiff 51 30.70 0.1
1.0s 9.17nm 5.6mb
ISA 104.58 50 ePdiff51 30.45 -0.1
ec 51 48.16
LBF 104.59 323 ePdiff51 31.50 1.2
0.9s 11.45nm 5.8mb
FFC 104.80 27 ePdiff51 31.00 0.0
1.0s 22.00nm 6.0mb
SSF 104.83 324 ePdiff51 32.70 1.4
1.1s 7.35nm 5.5mb
SMF 104.84 323 ePdiff51 32.90 1.5
0.8s 4.05nm 5.4mb
AVF 105.06 323 ePdiff51 33.60 1.3
0.8s 5.35nm 5.5mb
PAS 105.38 51 ePdiff51 21.00 -13.1X
ePP 55 54.00
eSKS 01 53.00
e 06 04.00
ePPS 06 12.00
eSKKP 09 34.00
eLR 25 13.00
GSC 105.98 49 ePdiff51 37.89 1.1
ec 51 56.43
ePP 56 01.23
eHPP 56 02.39
eSKS 02 19.76
ePS 05 00.74
TCF 105.99 323 ePdiff51 38.20 1.7
1.0s 8.00nm 5.7mb
IMW 106.19 39 Pdiff 51 44.00 6.1X
FRB 106.69 7 ePdiff51 39.00 -0.1
CAF 106.80 322 ePdiff51 39.40 -0.8
BCAO 106.97 277 iPdiff51 43.00 1.4
0.5s 5.00nm 5.8mb
id 52 31.30
BW06 107.63 40 Pdiff 51 48.20 4.0X
MSU 107.96 45 Pdiff 51 50.00 4.2X
VAL 108.97 333 Pdiff 51 50.00 0.4
EBR 109.93 319 ePdiff51 52.00 -2.1
ePP 56 28.00
RSSD 110.26 36 Pdiff 52 03.30 7.5X
Z 20s 11.30um 6.4Msz
WIN 111.20 249 iPdiff51 52.00 -8.5X
Z 20s 95.30um 7.4Msz
GOL 111.93 41 Pdiff 52 18.00 14.6X
Z 22s 20.00um 6.7Msz
GLD 112.00 41 Pdiff 52 18.00 14.4X
Z 22s 20.86um 6.7Msz
GUD 112.97 321 ePKP 56 04.20 1.8
ANMO 113.70 46 ePdiff52 13.40 2.1
esP 52 24.99
eSKS 02 54.35
ALQ 113.70 46 ePdiff52 19.50 8.1X
Z 22s 14.07um 6.5Msz
ALQ 113.70 46 e(PKP)56 00.00 -4.1X
PTO 115.35 324 ePdiff52 27.00 8.8X
ePKS 56 52.00
CCM 121.53 35 ePKP 56 18.62 0.0
ePP 57 40.83

			eSKS	03	18.71	
			eSKKS	04	14.33	
			eSDIF	04	45.45	
			ePS	07	39.07	
FVM	122.04	34	ePKPd	56	19.00	-0.6
GAC	122.21	18	ePKP	56	21.50	1.8
	0.7s	10.00nm				
ELC	123.20	34	PKP	56	21.00	-0.9
RSNY	123.54	18	PKP	56	21.80	-0.5
	Z 21s	8.70um			6.4Msz	
			pP	56	36.80	
HBVT	124.14	17	PKP	56	20.90	-2.6
			pP	56	38.20	
PWLA	125.52	35	PKP	56	25.00	-1.5
HRV	126.28	17	iPdiff	53	10.76	3.9X
			eSKS	03	31.73	
TBR	126.71	19	PKP	56	38.20	9.6X
			pP	56	43.20	
PNJ	126.94	20	PKPd	56	33.90	4.9X
			pP	56	43.20	
GMTN	126.96	20	ePKP	56	28.10	-1.0
TKL	127.32	31	PKP	56	18.00	-11.9X
BLA	127.69	27	PKP	56	17.00	-13.6X
CVL	127.89	25	PKP	56	31.00	0.1
C8N	128.15	24	ePKP	56	32.00	0.6
			e	57	12.00	
LKO	128.89	290	PKP	56	17.94	-15.6X
KIC	129.08	286	PKP	56	19.86	-14.0X
LIC	129.39	286	PKP	56	20.36	-14.1X
	Z 21s	14.00um			6.6Msz	
MBO	136.99	302	ePKP	56	53.30	4.5X
			i	59	35.30	
STH	144.70	41	ePKPc	56	58.08	-4.4X
HOJ	144.80	41	ePKPc	57	01.84	-0.8
YHJ	145.04	40	ePKPc	57	01.18	-1.9
UPA	148.60	56	iPKPc+	57	10.50	1.5
	Z 20s	10.99um			6.6Msz	
LNV	150.09	149	ePKP	57	14.00	3.3X
PORP	150.28	26	PKP	57	14.00	2.6
SJG	150.43	25	ePKP	57	16.00	4.3X
CPD	150.59	25	ePKP	57	15.00	3.1X
IHA	150.70	148	ePKP	57	14.50	2.9X
JACH	151.52	149	ePKPc	57	22.00	9.0X
LPA	153.77	172	PKPd+	57	26.00	10.0X
	1.0s	160.00nm				
	Z 22s	6.67um			6.4Msz	
			ePP	02	04.00	
PSO	154.26	68	ePKP	57	20.50	2.7X
FUQ	155.32	55	ePKP	57	18.00	-1.1
FDF	155.36	18	ePKPc	57	20.00	1.3
TOV	155.38	42	ePKP	57	15.90	-2.9X
SDV	155.47	44	ePKP	57	20.40	1.3
8OG	155.52	58	iPKP	57	20.00	0.6
PT10	156.73	100	e(PKP)	57	16.00	-4.5X
NNA	156.86	100	iPKPc	57	23.00	2.2
	1.0s	16.00nm				
	Z 22s	2.04um			5.9Msz	
ARE	160.92	115	ePKP	57	28.00	2.5
			e	23	16.00	
CNCB	163.85	121	PKPc	57	29.70	0.9
LPB	163.88	120	PKPc	57	28.80	0.2
	1.1s	50.63nm				
	Z 24s	15.50um				
			e	58	11.00	
			LR	54	20.00	
JFO	163.88	216	ePKP	57	31.60	3.5X
			e	57	34.40	
			e	57	41.80	
			e	58	24.50	
ZOBO	163.97	119	ePKPc	57	29.91	1.0
	Z 25s	6.25um				
			ic	57	49.12	
			LR	54	20.00	
CCH	165.08	126	PKP	57	29.00	-0.6
PDCR	165.39	254	ePKP	57	30.20	0.7
			e	58	40.50	
SOB1	167.53	267	ePKP	57	34.30	3.1X
			e	58	40.50	
SIV	169.78	135	PKPc	57	32.00	-0.5
	S.D. = 1.3	on 319 of 411 obs.				

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* FEB 18, 1991 02h 48m 06.40± 1.90s
38.380 N ± 8.9km 20.292 E ±17.7km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 3.6 (ATH).

VLS	0.31	131	ePg	48	11.40	-1.5
EVR	1.30	65	ePg	48	31.20	0.6
AGG	1.72	67	eP	48	42.00	5.4X
LSK	1.78	8	ePn	48	41.80	4.3X
KZN	2.24	30	ePn	48	45.00	0.9
BERA	2.33	354	ePn	48	52.70	7.3X
LIT	2.42	44	eP	48	48.20	1.5
FNA	2.54	19	eP	48	48.50	0.1
VLI	2.68	127	ePb	48	51.90	1.6
OHR	2.76	8	ePn	48	50.80	-0.7
TIR	2.98	354	ePn	49	06.50	12.0X
THE	3.05	42	eP	48	55.10	-0.5
PHP	3.31	2	ePn	48	59.50	0.3
SOH	3.40	43	eP	49	00.20	-0.3
VAY	3.42	30	ePn	49	01.00	0.2
KNT	3.43	35	eP	49	00.00	-0.9
SRS	3.73	42	eP	49	04.00	-1.3
	S.D. = 1.1	on 13 of 17 obs.				

? FEB 18, 1991 02h 52m 45.95± 1.18s
8.982 N ±24.0km 126.515 E ±13.6km
DEPTH = 33.0km (normal)
5.0mb (9 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

SSE	22.56	348	Pc	57	45.50	0.9
	1.0s	114.00nm			5.3mb	
			e	03	37.00	
IPM	25.68	262	ePc	58	15.80	0.9
	1.0s	91.40nm			5.3mb	
GUN	42.64	302	P	00	41.96	0.4
	0.7s	65.00nm			5.5mb	
PKI	42.93	301	P	00	43.76	-0.2
	0.8s	24.00nm			5.0mb	
KKN	43.10	301	P	00	45.06	-0.2
DMN	43.20	301	P	00	45.98	-0.1
GKN	43.71	301	P	00	49.76	-0.3
GBA	48.29	280	Pd	01	26.00	-0.3
	0.9s	3.40nm			4.4mb	
PMR	79.47	29	P	04	50.00	-0.5
INK	85.39	22	eP	05	22.00	1.1
MML	86.17	302	eP	05	26.00	0.4
JVI	86.30	302	eP	05	27.00	0.7
MBC	86.91	13	ePc	05	29.50	1.2
	0.9s	61.00nm			5.8mb	
MBH	87.01	300	eP	05	30.00	0.1
HFS	93.30	332	eP	05	56.50	-2.0
	0.4s	1.10nm			4.6mb	
NB2	94.01	334	P	06	00.20	-1.7
	0.9s	2.80nm			4.7mb	
YKA	94.83	24	eP	06	05.30	-0.2
	0.9s	2.70nm			4.7mb	
	S.D. = 0.9	on 17 of 17 obs.				

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* FEB 18, 1991 02h 59m 42.57± 2.40s
23.765 N ±15.0km 121.660 E ±29.6km
DEPTH = 10.0km (geophysicist)
TAIWAN (244)

TWD	0.32	349	iPd	59	48.10	-1.1
			eS	59	52.10	
TWF1	0.53	219	iPc	59	52.80	-0.5
			eS	00	01.00	
TWC	0.86	12	ePd	59	58.70	-0.4
			eS	00	11.80	
TWK	1.18	245	iPc	00	05.10	0.4
ANP	1.42	355	eP	00	10.00	1.5
			eS	00	22.80	
PKI	32.82	284	P	06	22.48	3.6X
	S.D. = 1.4	on 5 of 6 obs.				

FEB 18, 1991 04h 46m 19.90± 0.30s
8.914 N ± 4.9km 126.630 E ± 6.7km
DEPTH = 17.9km (4 depth phases)
5.2mb (21 obs.) 4.9Msz (4 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

DAV	2.09	210	eP	47	01.10	6.5X
BAG	9.50	322	eP	48	42.20	3.0
QIZ	19.13	303	P	50	45.00	0.2
	N 15s	2.90um				
	E 14s	3.70um				
		PP		51	03.00	
		sS		54	31.00	
SSE	22.65	348	Pd	51	22.00	0.7
	1.0s	74.00nm			5.1mb	
	Z 20s	3.20um			4.8Msz	
	E 12s	1.60um				
		sS		55	40.00	
NJ2	24.13	344	Pc	51	37.00	1.3
	5.0s	900.00nm				5.6mb X
	Z 18s	1.50um				4.5Msz
	N 11s	0.90um				
	E 13s	0.70um				
		sP		51	52.00	
KNA	24.60	175	eP	51	40.00	-0.4
IPM	25.78	262	ePc	51	53.40	1.7
	1.0s	69.90nm				5.3mb
SNG	25.81	268	eP	51	53.50	1.5
NNT	26.67	280	eP	52	01.00	1.1
NST	26.73	287	eP	52	03.50	3.1X
PMG	27.37	131	eP	52	08.00	1.7
KHT	28.04	285	eP	52	14.00	1.6
TIA	28.52	344	eP	52	17.50	1.0
CHG	28.58	293	eP	52	17.00	-0.3
WB2	29.67	165	eP	52	38.00	11.0X
XAN	29.84	329	P	52	24.20	-4.3X
CD2	30.55	319	eP	52	33.20	-1.6
MBL	30.62	193	iPd	52	35.00	-0.4
	0.5s	10.00nm				4.9mb
TIY	31.41	338	eP	52	40.60	-1.7
QIS	31.95	157	iPc	52	45.60	-1.5
	1.0s	119.00nm				5.8mb
BJI	32.37	345	eP	52	50.00	-0.5
SNY	32.89	356	iPc	52	55.60	0.5
	1.0s	100.00nm				5.7mb
		pP		53	06.60	40kmX
ASPA	33.15	168	eP	52	54.10	-3.5X
	0.9s	10.00nm				4.7mb
LZH	34.09	326	eP	53	15.00	9.2X
	2.0s	36.00nm				5.0mb
	Z 18s	3.30um				5.1Msz
	E 16s	2.20um				
		pP		53	20.50	19km
		i		53	35.50	
HHC	34.50	340	P	53	09.20	0.0
CN2	34.77	358	P	53	11.00	-0.3
		pP		53	21.00	35kmX
BTO	34.84	338	eP	53	10.10	-2.0
WARB	34.89	180	eP	53	13.00	0.5
MDJ	35.66	4	eP	53	19.50	0.6
MEKA	36.18	192	eP	53	23.10	-0.4
SHL	36.93	301	iP	53	29.00	-1.1
		eS		59	27.00	
GTA	38.69	326	eP	53	44.00	-0.7
	1.1s	10.00nm				4.5mb
	Z 18s	4.40um				5.3Msz
	E 15s	2.30um				
		sS		59	52.60	
LSA	39.11	307	eP	53	49.00	0.3
KLB	41.16	192	eP	54	05.00	0.1
MUN	41.86	193	eP	54	11.00	0.3
NWAO	42.56	192	eP	54	17.00	0.6
	0.5s	20.00nm				5.1mb
GUN	42.77	302	P	54	18.50	-0.2
	0.9s	148.00nm				5.7mb
PKI	43.06	301	P	54	20.32	-0.7
	0.9s	35.00nm				5.1mb
KKN	43.24	301	P	54	21.86	-0.5
	0.9s	43.00nm				5.2mb
DMN	43.33	301	P	54	22.62	-0.5
	0.8s	54.00nm				5.4mb
GKN	43.84	301	P	54	26.30	-0.9
	0.9s	76.00nm				5.5mb
BRS	44.09	146	iPd	54	28.00	-1.0
		i		54	33.00	17km
ADE	45.11	166	eP	54	37.20	0.1
	1.2s	109.38nm				5.7mb
HYB	47.46	285	eP	54	56.50	0.5
BFD	48.21	163	eP	55	02.00	0.5
GBA	48.41	280	Pd	55	02.70	-0.6
	0.9s	15.20nm				5.0mb
KOD	48.46	276	eP	55	04.50	0.4
WMQ	48.51	323	iPd	55	03.50	-0.3
	Z 16s	2.70um				5.3MszX
		sP		55	18.00	
DZM	49.72	129	iPc	55	13.00	-0.4
NDI	50.33	300	eP	55	15.00	-3.0
POO	52.00	287	iPc	55	29.40	-1.4
QUE	59.41	300	eP	56	24.20	-0.1
SVW	76.33	29	eP	58	10.20	0.8
		i		58	17.00	22km
PMR	79.48	29	eP	58	26.90	0.3
	1.2s	33.30nm				5.2mb

18d 04h

```
KEV     85.02 340 eP     58 49.00   -6.3X
INK     85.41  22 ePc    58 57.50    0.3
MBC     86.95  13 ePc    59 06.00    1.3
        1.0s     60.00nm          5.8mb
PRNI    86.96 300 eP     59 06.00    0.3
KAF     86.99 332 eP     59 09.60    4.5X
MBH     87.15 300 eP     59 07.00    0.3
NUR     88.15 331 iP     59 18.40    7.7X
                  e      59 23.00   14km
HFS     93.41 332 eP     59 33.30   -1.9
        0.5s     0.90nm          4.4mb
NB2     94.12 334 P      59 38.80    0.2
        0.9s     2.90nm          4.7mb
YKA     94.84  24 eP     59 41.70   -0.1
        0.9s     3.10nm          4.7mb
KSP     95.66 323 eP     59 42.00   -3.8X
SIV    169.70 134 ePKP   06 29.00    0.8
     S.D. = 1.1  on  56 of  66 obs.
-------------------------------------------
?  FEB  18, 1991  04h 49m 27.85± 1.13s
   38.454 N ± 8.1km   30.194 E ±11.5km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      MD 2.8 (ISK).

KHL      0.54 256 iPg    49 38.50   -0.4
                  iSg    49 47.20
ALT      0.60 354 ePg    49 39.60   -0.5
                  eSg    49 48.00
BCK      1.04 162 iPg    49 47.60    0.1
DST      1.68 314 ePn    49 58.20    0.8
     S.D. = 1.0  on   4 of   4 obs.
-------------------------------------------
%  FEB  18, 1991  05h 37m 39.15± 0.82s
   39.497 N ± 7.0km   27.122 E ± 7.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      MD 2.9 (ISK).

EZN      0.70 298 iPg    37 52.90    0.0
                  eSg    38 03.00
EDC      1.02  34 iPn    37 58.50    0.0
BNT      1.05  35 iPn    37 59.00    0.0
IZM      1.10 174 ePn    37 59.90    0.0
DST      1.17  84 ePn    38 01.00    0.0
     S.D. = 0.0  on   5 of   5 obs.
-------------------------------------------
*  FEB  18, 1991  05h 46m 45.00± 0.49s
   18.702 S ±18.4km  176.423 E ± 8.4km
   DEPTH =  33.0km  (normol)
   4.7mb (  5 obs.)
 FIJI ISLANDS REGION               (181)
      MD 4.8 (SVA).

NDF      1.36  46 iP     47 08.00    0.2
SVA      2.02  74 eP     47 17.10   -0.3
                  eS     47 44.50
VUN      2.06  71 eP     47 16.90   -1.0
                  eS     47 43.40
OVA      2.46  66 eP     47 23.30   -0.4
                  eS     47 58.80
MBU      2.78  52 eP     47 27.50   -0.8
                  eS     47 58.80
KRO      3.14  64 eP     47 32.50   -0.9
                  eS     48 17.50
NDE      3.47  53 eP     47 37.10   -1.1
                  eS     48 17.40
DZM      9.94 249 iPc    49 07.60   -1.2
WB2     39.65 261 eP     54 14.10   -1.6
ASPA    39.85 255 iPd    54 17.50    0.1
        1.5s     10.40nm          4.4mb
CN2     77.74 325 eP     58 39.00   -1.2
TIY     82.21 314 eP     59 04.00   -0.4
XAN     82.90 309 P      59 07.60   -0.4
TNP     84.02  47 P      59 15.00    1.1
CHTO    84.69 292 P      59 16.50   -0.8
CD2     85.42 305 eP     59 21.70    0.9
MZX     86.04  64 (P)    59 27.00    3.1X
LZH     87.54 309 Pd     59 30.50   -0.7
        1.5s     31.00nm          5.4mb
     Z  16s      0.39um          4.9MszX
     E  15s      0.40um
PNT     88.21  36 eP     59 36.00    2.1
PV09    89.89  49 P      59 44.00    1.5
ALQ     90.47  53 eP     59 47.00    1.9
        1.0s     4.50nm          4.7mb
GTA     91.80 311 eP     59 51.20    0.1

        1.2s     10.00nm          5.1mb
YKA     97.14  26 eP     00 14.50   -0.3
        0.6s      0.40nm          4.1mb
BMA    122.86 134 ePKP   05 39.90   -0.1
JFO    124.08 134 iPKPc  05 41.10   -1.4
                  e      05 49.00
KSP    144.26 338 ePKP   06 17.50   -1.6
                  e      09 15.00
CLL    144.92 342 iPKPd  06 19.10   -1.1
        1.3s     23.00nm
BRG    145.01 341 iPKP   06 19.60   -0.8
        1.0s     24.00nm
PRU    145.58 339 PKP    06 21.50    0.1
WTS    145.79 349 ePKP   06 22.00    0.4
BUD    145.87 332 e(PKP) 06 22.00    0.1
MOX    145.91 343 ePKP   06 22.50    0.6
        1.4s     28.00nm
                  e      09 00.00
SRO    145.92 333 iPKP   06 22.40    0.4
ZST    146.12 335 ePKP   06 23.00    0.7
                  e      09 20.50
KHC    146.64 339 PKPc   06 25.10    1.9
GRF    146.88 342 ePKP   06 25.80    2.3
ABH    147.64 347 ePKP   06 27.26    2.5X
SNF    147.65 351 PKP    06 32.20    7.5X
DOU    148.00 350 PKP    06 28.60    3.3X
CDF    149.08 346 ePKP   06 31.30    4.1X
        1.0s     12.00nm
OHR    149.44 322 ePKP   06 30.00    2.1
BSF    149.74 346 ePKP   06 32.80    4.6X
        1.0s      8.00nm
LPF    150.67 357 ePKP   06 35.00    5.6X
        0.8s     13.45nm
LOR    150.86 350 ePKP   06 35.70    5.9X
        0.9s      9.85nm
LBF    151.12 349 ePKP   06 36.10    5.9X
SSF    151.12 350 ePKP   06 36.30    6.1X
        0.9s     11.45nm
MFF    152.03 355 ePKP   06 38.20    6.7X
        0.8s      4.05nm
BCAO   154.16 239 ePKPc  06 41.00    5.5X
        0.6s      3.00nm
     S.D. = 1.2  on  36 of  48 obs.
-------------------------------------------
%  FEB  18, 1991  05h 52m 11.16± 0.72s
   43.423 N ± 5.3km    5.471 E ± 5.5km
   DEPTH =  10.0km  (geophysicist)
 NEAR SOUTH COAST OF FRANCE        (379)
      MD 2.6 (STR).

GELF     0.05 219 Pg     52 12.89   -0.5
BERF     0.19 125 Pg     52 16.09    0.6
PUYF     0.20  57 Pg     52 15.46   -0.1
TREF     0.21 342 Pg     52 15.75    0.0
CDR      0.33  40 ePg    52 17.10   -0.9
                  i(Sg)  52 21.20
PRAF     0.44 330 Pg     52 20.70    0.6
VILF     0.46  22 Pg     52 20.80    0.2
TAVF     0.47  65 Pg     52 20.87    0.2
     S.D. = 0.6  on   8 of   8 obs.
-------------------------------------------
   FEB  18, 1991  05h 55m 50.77± 0.27s
   15.416 N ± 4.9km   91.753 W ± 4.1km
   DEPTH = 188.2km  (  9 depth phases)
   4.6mb ( 37 obs.)
 MEXICO-GUATEMALA BORDER REGION  ( 62)

TPX      0.71 224 iP     56 16.10   -1.6
                  iS     56 36.00
SOG2     0.72 166 iPd    56 16.80   -1.2
FUG      1.30 137 iPc    56 22.40    0.2
BVA      1.31 125 iPd    56 22.90    0.5
GCG      1.44 125 eP     56 24.70    1.3
                  S      56 50.50
HUG      1.45 163 iPd    56 22.50   -0.7
TER      1.51 137 iPc    56 23.90    0.0
REC      1.54 129 iPc    56 25.30    1.0
SCX      1.56 327 iP     56 25.01    0.7
                  iS     56 48.09
SLP      1.57 115 iPd    56 25.40    0.8
TME      2.70 121 iPd    56 39.50    2.7
VSS      2.95 124 eP     56 42.60    2.8
LFU      3.05 123 eP     56 43.70    2.8
SJAS     3.05 124 eP     56 43.70    2.7
OXX      5.05 290 iP     57 05.38   -1.1
                  iS     57 58.16
LVVM     6.21 314 iP     57 19.20   -2.1

                  (S)    58 26.83
IISM     6.44 304 iP     57 22.45   -2.0
                  (S)    58 29.49
IIT      7.22 301 iP     57 35.78    0.8
                  (S)    58 54.00
PPM      7.50 300 iP     57 39.82    0.7
IIA      7.57 300 (P)    57 38.62   -0.8
ACX      7.92 282 iP     57 42.41   -1.7
                  (S)    59 09.68
III      7.95 293 iP     57 44.68    0.0
                  (S)    59 04.00
UNM      8.09 300 iP     57 47.00    0.4
CRX      8.54 299 (P)    57 52.89    0.5
MRX      9.96 297 iP     58 12.46    1.8
CGX     11.95 293 iP     58 39.00    2.4
UYO     18.83 353 iPd    59 57.80   -0.9
PWLA    19.76   9 P      00 07.60   -0.6
OLY     20.00   1 P      00 10.50   -0.1
HBF     20.26  29 P      00 15.40    2.2
SGS     20.42  28 P      00 17.20    2.4
PRM     20.43  23 P      00 16.00    1.1
JSC     21.03  25 P      00 22.70    1.9
GBTN    21.27  17 P      00 24.80    1.6
TKL     21.39  18 P      00 26.00    1.6
LHS     21.39  25 P      00 26.20    1.9
SDV     21.63 105 eP     00 27.40    0.3
ELC     21.90   5 P      00 30.00    0.7
TOV     22.14 102 eP     00 32.60    0.7
FVM     22.51   3 P      00 35.40    0.2
        1.0s     50.00nm          5.0mb
                  pP     01 11.00 188km
MORO    23.26  98 iP     00 42.30   -0.5
ALQ     23.51 328 eP     00 45.90    0.8
        0.9s     30.46nm          4.9mb
                  e      01 20.00 174kmX
MGP     23.76  80 iP     00 49.00    1.6
MCP     23.76  79 iP     00 49.00    1.6
NAV     23.88  22 P      00 49.20    0.7
BLA     23.93  23 P      00 50.00    1.1
        1.0s     42.50nm          5.0mb
                  pP     01 26.40 187km
PORP    24.19  80 iP     00 52.20    0.7
SJG     24.65  80 iP     00 55.90    0.1
LPR     24.93  80 iP     00 58.00   -0.4
CVL     25.36  25 P      01 02.50    0.4
NA2     25.78  26 P      01 08.50    2.6
CBN     26.01  26 eP     01 09.30    1.3
        1.0s    125.00nm          5.6mb
                  e      01 48.00 194km
GOL     26.97 336 P      01 16.20   -0.9
        0.9s      5.97nm          4.3mb
                  pP     01 56.80 203kmX
GLA     27.30 314 eP     01 21.00    1.1
                  e      02 02.00 204kmX
CLE     27.44  17 iP     01 21.10    0.1
PLM     28.89 313 eP     01 36.00    1.7
                  e      02 11.00 169kmX
MSU     29.20 326 P      01 37.60    0.5
WVLY    29.25  20 P      01 37.00   -0.2
LVNJ    29.29  27 P      01 36.60   -0.9
PEC     29.39 313 P      01 39.80    1.3
        1.1s     14.88nm          4.6mb
TBR     29.80  27 P      01 42.20    0.2
GSC     29.93 316 eP     01 50.00    6.7X
                  e      02 23.00 157kmX
RSSD    30.46 342 P      01 46.90   -1.1
        0.7s      3.98nm          4.3mb
NNA     30.97 151 iP     01 53.50    1.0
        1.0s     29.00nm          5.0mb
BW06    31.25 334 P      01 53.90   -1.1
        0.6s      1.74nm          4.0mb
ISA     31.26 315 eP     01 56.00    1.1
                  e      02 35.00 188km
TNP     31.85 320 P      02 01.40    1.2
        1.2s     28.23nm          4.8mb
BONR    32.45 319 P      02 08.00    2.4
                  pP     02 47.00 187km
RSNY    32.50  23 P      02 05.80    0.3
        1.0s    119.31nm          5.5mb
                  pP     02 44.00 183km
FRI     32.82 316 eP     02 09.00    0.6
HBVT    32.92  25 P      02 08.80   -0.4
KVN     32.99 321 P      02 11.20    1.1
GAC     33.15  21 eP     02 11.50    0.4
        1.0s     34.00nm          5.0mb
PRS     33.60 314 eP     02 16.30    1.1
CMB     33.85 317 eP     02 18.30    1.1
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		epP	02	57.50	187km
MHC	34.31	315 eP	02	23.20	1.9
LRM	34.94	334 ePc	02	26.70	0.0
WDC	36.65	319 eP	02	40.20	-0.6
LBFM	36.69	321 P	02	42.50	1.1
CNCB	39.69	143 iPc	03	08.00	1.1
LON	40.02	328 P	03	09.20	0.5
FFC	40.02	351 eP	03	08.00	-0.6
	0.5s	5.00nm		4.3mb	
BMW	40.59	326 P	03	14.20	0.8
PNT	40.74	332 eP	03	15.00	0.5
	0.9s	19.00nm		4.7mb	
GMW	41.05	328 P	03	16.60	-0.5
EDM	41.38	340 eP	03	19.50	-0.3
MCW	41.82	329 P	03	23.40	0.0
PGC	42.10	329 eP	03	27.00	1.3
SIV	43.49	135 iPc	03	36.00	-1.4
SCH	43.82	21 ePc	03	39.10	-0.5
	1.1s	95.00nm		5.3mb	
YKA	49.71	346 eP	04	24.10	-1.2
	0.6s	14.60nm		4.7mb	
FRB	50.89	13 ePc	04	32.70	-1.5
LNV	52.78	159 iP	04	49.00	0.4
SOB1	56.01	113 eP	05	12.20	-0.2
VAO	58.12	130 eP	05	25.60	-1.5
		e	06	09.10	189km
PDCR	59.02	115 eP	05	30.90	-2.5
INK	59.16	343 eP	05	32.00	-1.6
	0.9s	26.00nm		5.0mb	
		pP	06	16.00	191km
MBC	62.54	353 ePc	05	55.00	-1.2
	0.5s	3.00nm		4.4mb	
EKA	76.68	36 P	07	21.00	-1.3
	1.2s	24.00nm		4.8mb	
GUD	78.34	51 eP	07	31.30	-0.6
LPF	79.18	43 eP	07	34.60	-1.5
	0.6s	7.20nm		4.6mb	
GRR	79.23	43 eP	07	34.80	-1.6
	0.5s	7.30nm		4.7mb	
FLN	79.40	42 eP	07	35.90	-1.4
LDF	79.67	42 eP	07	36.40	-2.3
MFF	80.06	44 eP	07	39.50	-1.3
	0.7s	5.50nm		4.4mb	
LFF	81.02	46 eP	07	44.50	-1.3
	1.2s	29.75nm		4.9mb	
LSF	81.26	45 eP	07	45.40	-1.7
RJF	81.47	45 eP	07	46.70	-1.5
	1.4s	34.85nm		4.9mb	
TCF	81.71	44 eP	07	48.00	-1.5
	0.5s	1.80nm		4.1mb	
CAF	81.93	46 eP	07	48.30	-2.4
MAF	81.97	44 eP	07	49.40	-1.4
	0.9s	6.55nm		4.4mb	
BGF	82.08	44 eP	07	50.10	-1.3
	0.9s	9.00nm		4.5mb	
AVF	82.36	44 eP	07	51.20	-1.6
	0.8s	5.35nm		4.3mb	
SSF	82.39	43 eP	07	51.30	-1.7
	0.9s	8.20nm		4.5mb	
LOR	82.58	43 eP	07	52.50	-1.4
	1.0s	12.00nm		4.6mb	
SMF	82.72	44 eP	07	53.00	-1.7
	0.8s	5.35nm		4.3mb	
LBF	82.73	43 eP	07	53.00	-1.8
	0.9s	4.90nm		4.3mb	
NB2	82.79	29 P	07	54.50	-0.3
	1.0s	4.50nm		4.2mb	
LKO	83.85	82 P	07	59.22	-1.7
HAU	84.00	42 eP	08	00.30	-0.9
	0.8s	5.35nm		4.3mb	
HFS	84.25	29 ePKP	08	00.80	-1.3
	0.5s	0.80nm		3.7mb	
BSF	84.34	42 eP	08	01.80	-1.1
	1.2s	14.90nm		4.6mb	
CDF	84.48	41 eP	08	02.40	-1.2
	1.2s	14.90nm		4.6mb	
LPL	84.96	44 eP	08	06.00	-0.3
LIC	85.23	85 PKP	08	07.16	-0.7
KIC	85.47	85 PKP	08	07.52	-1.5
WB2	135.94	257 ePKP	14	53.00	1.3
ASPA	136.35	252 ePKP	14	52.70	0.3
	2.3s	12.30nm			
HYB	146.00	17 ePKP	15	08.50	-1.1
KHT	148.30	341 ePKP	15	16.70	3.4X
GBA	149.25	21 PKP	15	13.00	-1.7
	S.D. = 1.3	on 129 of 131 obs.			

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* FEB 18, 1991 06h 03m 12.29± 0.48s
8.933 N ± 7.8km 126.552 E ± 9.5km
DEPTH = 33.0km (normal)
4.8mb (10 obs.) 4.2Msz (1 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

DAV	2.07	208 eP	03	51.10	5.7X
QIZ	19.05	304 eP	07	34.80	0.2
SSE	22.61	348 Pc	08	12.00	0.5
	1.0s	15.00nm		4.4mb	
	Z 20s	0.90um		4.2Msz	
	N 12s	0.30um			
		sS	12	26.00	
IPM	25.71	262 ePd	08	43.60	2.1
KHT	27.96	285 eP	09	03.50	1.4
CHTO	28.50	293 P	09	06.80	-0.2
WB2	29.70	165 eP	09	15.50	-2.2
		eS	14	44.30	
BJI	32.33	345 eP	09	39.00	-1.6
SNY	32.87	356 eP	09	45.50	0.3
	1.6s	100.00nm		5.5mb	
ASPA	33.19	168 iPc	09	47.10	-1.2
CN2	34.75	359 eP	10	01.00	-0.5
WARB	34.90	180 eP	10	04.00	1.0
MDJ	35.65	4 eP	10	10.20	1.0
GTA	38.64	326 eP	10	33.00	-1.5
	0.6s	10.00nm		4.8mb	
GUN	42.69	302 P	11	08.12	-0.3
	0.6s	33.00nm		5.2mb	
PKI	42.99	301 P	11	09.80	-1.0
	0.5s	9.00nm		4.7mb	
KKN	43.16	301 P	11	11.36	-0.7
	0.4s	9.00nm		4.9mb	
DMN	43.25	301 P	11	12.06	-0.8
GKN	43.77	301 P	11	15.92	-1.0
	0.5s	22.00nm		5.2mb	
HYB	47.38	285 eP	11	45.60	-0.1
BFD	48.25	163 eP	11	53.00	0.9
GBA	48.33	280 P	11	53.60	0.6
KOD	48.38	276 eP	11	54.50	0.7
WMO	48.44	323 eP	11	53.50	-0.1
PMR	79.50	29 (P)	15	17.50	0.6
INK	85.42	22 eP	15	48.80	1.4
MBC	86.95	13 eP	15	56.50	1.6
	0.5s	3.00nm		4.8mb	
HFS	93.36	332 eP	16	23.50	-1.6
	0.4s	0.80nm		4.5mb	
YKA	94.86	24 eP	16	32.60	0.6
	0.7s	1.80nm		4.6mb	
	S.D. = 1.2	on 28 of 29 obs.			

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* FEB 18, 1991 06h 22m 45.33± 0.58s
8.808 N ±10.0km 126.544 E ±17.2km
DEPTH = 33.0km (normal)
4.5mb (3 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

SSE	22.73	348 P	27	45.00	-0.7
WB2	29.59	165 eP	28	48.20	-1.5
ASPA	33.07	168 eP	29	20.60	0.3
	1.1s	6.60nm		4.4mb	
WARB	34.78	180 eP	29	36.00	1.0
HYB	47.41	286 eP	31	19.00	0.1
GBA	48.34	280 P	31	26.00	-0.2
INK	85.54	22 eP	35	21.20	0.1
MBC	87.07	13 eP	35	29.50	1.0
	0.6s	3.00nm		4.7mb	
YKA	94.97	24 eP	36	05.40	-0.2
	0.6s	0.80nm		4.3mb	
	S.D. = 0.9	on 9 of 9 obs.			

? FEB 18, 1991 06h 27m 46.99± 0.88s
42.220 N ± 7.4km 13.307 E ± 8.7km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

AQU	0.15	28 P	27	50.60	0.0
		eSg	27	58.50	
AZI	0.25	157 P	27	52.40	0.1
		eSg	27	56.00	
MNS	0.49	290 P	27	57.00	0.0
		eSg	28	05.00	
SDI	0.64	143 P	27	59.70	-0.1
		eSg	28	10.20	
	S.D. = 0.2	on 4 of 4 obs.			

FEB 18, 1991 06h 55m 33.22± 1.04s
39.094 N ± 6.5km 22.275 E ± 5.4km
DEPTH = 78.1 ± 13.5 km
GREECE (364)
MD 2.9 (ATH), 2.5 (THE).

AGG	0.08	149 eP	55	44.70	0.3
		eS	55	51.20	
EVR	0.40	244 iPbc	55	46.00	-0.3
		eSb	55	50.00	
NEO	0.77	74 iPnd	55	49.70	0.0
LIT	1.02	9 iP	55	52.66	0.0
		eS	56	07.10	
KZN	1.27	342 ePn	55	56.50	0.6
PAIG	1.37	52 iPd	55	56.90	-0.2
		eS	56	13.50	
PLG	1.56	35 ePn	55	59.00	-0.8
		eSn	56	18.00	
IGT	1.57	287 ePd	55	58.98	-0.8
		eS	56	18.34	
ATH	1.59	134 ePn	56	00.50	0.4
		eSn	56	20.00	
THE	1.63	19 ePd	55	59.94	-0.6
FNA	1.82	338 eP	56	03.90	0.6
GRG	1.86	3 iPc	56	03.90	0.1
		eS	56	25.86	
SOH	1.91	25 eP	56	04.80	0.3
		eS	56	28.50	
KNT	2.12	13 ePc	56	07.70	0.4
		iS	56	29.58	
SRS	2.26	26 ePd	56	08.74	-0.4
		eS	56	35.70	
OHR	2.31	331 e(Pn)	56	10.20	0.3
	S.D. = 0.5	on 16 of 16 obs.			

FEB 18, 1991 08h 01m 03.20± 0.74s
42.118 N ± 7.2km 15.850 E ± 7.7km
DEPTH = 23.8 ± 7.6 km
ADRIATIC SEA (382)

DUI	1.14	247 P	01	24.00	0.3
		eSg	01	38.50	
HVAR	1.15	22 iPg	01	24.00	0.2
		iSg	01	40.50	
BAI	1.26	142 P	01	26.00	0.7
		eSg	01	42.00	
SDI	1.57	256 P	01	31.00	1.1
		eSn	01	51.00	
BRT	1.60	140 P	01	30.00	-0.3
		eSg	01	49.40	
SGO	1.61	195 P	01	29.70	-0.7
MGR	1.99	187 P	01	35.60	-0.3
ARV	2.55	304 P	01	43.00	-0.9
	S.D. = 0.9	on 8 of 8 obs.			

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* FEB 18, 1991 08h 15m 36.38± 0.64s
8.844 N ±11.4km 126.611 E ±21.7km
DEPTH = 33.0km (normal)
4.5mb (4 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

SSE	22.71	348 Pc	20	35.50	-1.0
	0.8s	20.00nm		4.6mb	
WB2	29.60	165 eP	21	39.60	-1.3
ASPA	33.09	168 eP	22	12.40	0.9
	0.8s	4.60nm		4.4mb	
GBA	48.40	280 P	24	18.00	0.3
FBA	80.18	26 (P)	27	45.30	0.6
INK	85.48	22 eP	28	12.00	0.2
MBC	87.02	13 eP	28	20.00	0.7
	1.0s	7.00nm		4.8mb	
YKA	94.91	24 eP	28	56.00	-0.4
	0.7s	0.30nm		3.8mb	
	S.D. = 1.0	on 8 of 8 obs.			

FEB 18, 1991 09h 06m 22.43± 0.30s
31.645 N ± 4.6km 102.534 E ± 4.6km
DEPTH = 20.9km (3 depth phases)
4.8mb (26 obs.)
SICHUAN PROVINCE, CHINA (307)
ML 5.3 (BJI).

CD2	1.28	125 iPgd	06	46.30	1.1
		Sg	07	05.00	
LZH	4.56	13 iPnc	07	32.40	0.2
	Z 10s	6.04um			
		Pg	07	47.00	
		Sg	08	53.00	

18d 09h

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XAN      5.88   64 Pn     07 50.50   -0.1
                  Pg     08 05.80
GYA      6.31  144 iPnd   07 55.00   -1.7
                  Pg     08 17.00
                  Sn     09 07.00
                  Sg     09 35.00
KMI      6.50  178 Pd     07 59.50    0.0
      Z  10s      4.20um
                  iS     09 14.00
GTA      8.06  345 ePn    08 20.00   -1.3
         1.0s    10.00nm          5.0mb
      Z  10s      3.20um           3.4Msz
                  eS     09 47.00
LSA      9.99  262 ePn    08 46.60   -1.7
      N  10s      4.40um
                  S      10 44.40
TIY     10.15   51 Pd     08 47.40   -2.7
WHN     10.19   93 Pd     08 49.00   -1.6
         1.0s   100.00nm          6.1mb X
      Z  16s      3.60um           3.4MszX
      E  10s      6.50um
                  pP     08 54.50
                  iS     10 49.00
BTO     10.79   32 P      08 58.00   -0.8
      N  11s      3.60um
      E  11s      4.00um
SHL     11.14  240 iP     09 01.00   -2.8
                  eS     11 02.00
HHC     11.72   36 P      09 10.00   -1.5
         1.0s    80.00nm          5.9mb X
      Z  12s      5.90um           3.8MszX
GZH     12.83  129 Pd     09 24.00   -2.4
      N  11s      4.50um
      E  11s      4.20um
TIA     12.94   65 ePn    09 28.70    0.9
      N  10s      2.40um
      E  10s      1.60um
CHG     13.18  195 ePn    09 30.60   -0.5
BJI     13.87   49 P      09 40.00    0.0
      N  10s      4.02um
      E  10s      3.34um
NJ2     13.88   84 Pc     09 40.00   -0.2
      Z  11s      1.40um
                  sP     09 51.50
QIZ     14.19  151 P      09 46.00    1.7
      N  10s      3.80um
      E  10s      6.60um
                  eS     12 27.40
BDT     14.69  193 ePn    09 52.00    1.1
GUN     14.93  260 P      09 58.90    4.5X
PKI     15.44  259 P      09 57.40   -3.5X
KKN     15.47  260 P      09 59.00   -2.3
QZH     15.63  111 ePn    10 05.00    1.9
         1.0s    80.00nm          4.9mb
DMN     15.68  260 P      09 59.00   -5.0X
SSE     15.95   87 P      10 09.00    1.9
         1.0s    25.00nm          4.3mb
      Z  12s      3.20um           6.0Msz
      N  12s      5.10um
GKN     15.95  261 P      10 01.80   -5.6X
NST     16.05  188 ePn    10 11.00    2.5
WMQ     16.87  320 iPd    10 19.50    0.7
      Z  14s      1.10um
      N  10s      3.00um
NNT     19.14  188 ePn    10 47.30    0.3
SNY     19.65   53 iPd    10 52.80    0.1
         1.0s    20.00nm          4.4mb
      Z  14s      1.50um           5.2MszX
      E  13s      1.40um
                  pP     11 01.70   36kmX
CN2     21.73   50 Pc     11 14.00   -0.2
         1.0s    50.00nm          4.9mb
      Z  15s      2.50um           4.7MszX
                  pP     11 20.60   24km
                  eS     15 08.00
NDI     22.07  269 iPc    11 14.00   -3.7X
                  eS     15 20.00
BAG     22.35  129 ePn    11 27.00    6.3X
KSH     22.91  297 ePn    11 27.00    0.9
      E  10s      3.20um
MDJ     24.78   51 ePn    11 44.50    0.5
      Z  14s      0.89um           4.4MszX
      N  10s      1.30um
HYB     25.93  243 ePn    11 55.00   -0.1
         1.0s    65.00nm          5.2mb
                  e      11 56.80    6kmX
IPM     26.96  183 ePc    12 02.30   -2.2

GBA     29.19  238 P      12 22.00   -2.7
KOD     31.51  233 eP     12 45.60    0.0
KEV     55.69  336 eP     16 03.00    3.9X
SOD     55.82  333 iP     16 02.20    2.1
BBTK    55.93  299 eP     15 56.00   -5.4X
KAF     56.20  327 eP     16 03.70    0.8
NUR     57.16  325 eP     16 10.10    0.4
VRI     58.69  308 ePd    16 35.50   14.8X
MLR     59.32  307 eP     16 35.50   10.3X
HFS     62.57  326 eP     16 45.80   -1.1
         0.4s     1.60nm          4.5mb
      Z  17s      0.19um           4.3MszX
                  LR     40 21.00
ASPA    62.66  148 eP     16 51.10    3.2X
         0.9s     9.10nm          4.9mb
QIS     62.91  141 eP     16 52.00    2.5
NB2     63.48  327 P      16 55.70    2.8
         0.6s     1.70nm          4.4mb
SKO     63.49  305 iP     16 56.80    3.6X
KSP     63.95  315 eP     17 00.00    3.9X
PRU     65.29  315 eP     17 08.00    3.2X
                  e      17 30.00   86kmX
BRG     65.34  316 e(P)   17 06.20    1.1
CLL     65.74  316 eP     17 09.00    1.3
KHC     66.18  314 eP     17 16.20    5.6X
SVW     68.20   31 eP     17 22.90   -0.3
MBC     69.21   10 eP     17 28.00   -1.1
         1.0s    12.00nm          5.0mb
FBA     69.53   25 P      17 30.00   -1.2
         1.0s     4.50nm          4.6mb
                  e      17 37.00   22km
CDF     70.29  315 eP     17 36.60    0.3
PMR     70.72   29 eP     17 36.90   -1.6
         1.1s    32.20nm          5.4mb
SLKM    70.82   30 e(P)   17 49.80   10.6X
BSF     70.83  315 eP     17 40.60    1.0
         0.7s     6.60nm          4.9mb
LPG     71.90  313 eP     17 46.80    0.5
         0.7s    15.45nm          5.2mb
LPL     71.90  313 eP     17 46.80    0.5
         0.7s     7.70nm          4.9mb
INK     72.09   19 eP     17 45.00   -1.6
LBF     72.92  315 eP     17 53.80    1.8
         0.7s     3.30nm          4.5mb
SMF     73.17  315 eP     17 53.70    0.3
         0.7s     9.90nm          5.0mb
SSF     73.17  315 eP     17 53.70    0.3
         0.7s     4.40nm          4.6mb
AVF     73.39  315 eP     17 54.90    0.2
         0.7s     8.80nm          4.9mb
TCF     74.33  315 eP     18 01.00    0.9
         0.7s     4.40nm          4.6mb
GRR     75.08  318 eP     18 05.20    0.8
         0.7s     8.80nm          4.9mb
LPF     75.37  318 eP     18 07.70    1.7
         0.7s     4.40nm          4.6mb
YKA     81.56   16 eP     18 38.00   -1.6
         0.7s     4.90nm          4.7mb
BCAO    82.59  271 iPc    18 45.80    0.0
         0.7s    12.00nm          5.1mb
                  id     18 51.00   16km
EDM     89.91   21 eP     19 21.50    0.3
PNT     91.09   26 eP     19 27.00    0.3
         0.8s     8.00nm          5.1mb
FFC     91.43   14 eP     19 28.00   -0.1
         0.7s     6.00nm          5.1mb
JFO    148.05  280 ePKP   26 10.80    5.5X
                  e      26 19.60
ZOBO   162.49  329 ePKP   26 33.00    8.3X
      S.D. = 1.4  on  62 of  80 obs.
-------------------------------------------
? FEB 18, 1991  09h 45m 45.19± 1.26s
   40.335 N ±10.7km   25.808 E ±20.4km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                          (365)
      MD 2.9 (ATH).

EZN      0.65  142 iPg    45 57.90   -0.2
                  iSg    46 06.50
RDO      0.84  346 iPg    46 01.30    0.0
                  eSg    46 14.00
PRK      1.14  162 ePb    46 06.70    0.1
                  eSb    46 22.50
PLG      1.81  272 ePg    46 22.00    5.4X
                  eSn    46 45.00
DMK      2.09   44 ePn    46 24.00    3.3X
DST      2.29  108 ePn    46 23.70    0.1

      S.D. = 0.2  on   4 of   6 obs.
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?  FEB 18, 1991  09h 49m 47.55± 3.54s
   16.992 N ±25.0km  100.497 W ±25.2km
   DEPTH =  33.0km  (normal)
 NEAR COAST OF GUERRERO, MEXICO  ( 58)

ACX      0.62  101 iP     49 59.90    0.0
                  iS     50 11.50
III      1.69   35 iP     50 15.50    0.1
                  iS     50 38.00
CRX      2.52   18 (P)    50 32.00    4.6X
                  (S)    51 07.00
UNM      2.64   28 (P)    50 35.00    6.0X
PPM      2.72   40 (P)    50 32.00    1.6
                  (S)    51 09.00
MRX      2.78  346 iP     50 30.50   -0.1
                  (S)    51 09.00
IIT      2.90   46 (P)    50 31.00   -1.7
                  (S)    51 17.00
IISM     3.57   56 (P)    50 46.00    4.0X
OXX      3.61   88 (P)    51 03.00   20.2X
      S.D. = 1.6  on   5 of   9 obs.
-------------------------------------------
*  FEB 18, 1991  10h 10m 32.04± 0.60s
   18.569 S ±20.9km  176.415 E ± 8.9km
   DEPTH =  27.1km  (  2 depth phases)
   5.1mb (  3 obs.)  4.4Msz (  1 obs.)
 FIJI ISLANDS REGION                (181)
      Mo=8.0*10**16 Nm (PPT).

NDF      1.27   51 iP     10 54.00   -0.1
SVA      1.99   77 ePc    11 05.00    0.5
                  eS     11 32.60
VUN      2.02   74 eP     11 04.80   -0.2
                  eS     11 30.90
OVA      2.42   69 eP     11 14.80    4.2X
                  eS     11 41.90
MBU      2.71   55 eP     11 14.80    0.0
                  eS     11 47.30
KRO      3.10   67 eP     11 19.10   -1.2
                  eS     11 56.40
NDE      3.40   55 eP     11 24.70    0.1
                  eS     12 05.40
DZM      9.98  248 iPc    12 58.20    1.2
WB2     39.66  261 eP     17 59.20   -4.5X
ASPA    39.88  255 eP     18 02.80   -2.7
         1.0s    12.60nm          4.6mb
      Z  20s      0.60um           4.4Msz
CN2     77.63  325 Pc     22 27.80    0.3
                  pP     22 39.00   37km
TIY     82.11  314 Pd     22 52.00    0.2
TNP     83.93   47 P      23 03.00    1.7
CHTO    84.64  292 P      23 03.00   -2.0
LZH     87.45  309 Pc     23 19.40    0.7
         1.5s    42.00nm          5.5mb
      Z  25s      0.31um           4.6MszX
      N  15s      0.62um
                  pP     23 25.00   18km
                  sP     23 28.00
FBA     87.60   14 P      23 18.00   -0.6
GTA     91.71  311 eP     23 39.20    0.6
         1.2s    10.00nm          5.1mb
INK     93.87   17 eP     23 47.50   -0.2
KSP    144.13  338 ePKP   30 05.80   -1.0
CLL    144.79  342 iPKPc  30 07.20   -0.7
         1.6s    29.00nm
BRG    144.88  341 iPKP   30 07.80   -0.3
         1.4s    36.00nm
PRU    145.45  339 PKP    30 09.80    0.7
         1.2s    18.20nm
MOX    145.78  343 ePKP   30 10.50    0.8
         1.4s    31.00nm
SRO    145.80  333 ePKP   30 09.70    0.0
ZST    145.99  335 ePKP   30 10.60    0.5
KHC    146.51  339 PKP    30 12.60    1.6
GRF    146.75  342 ePKP   30 13.80    2.5X
CDF    148.95  346 ePKP   30 19.40    4.4X
HAU    149.54  347 ePKP   30 20.80    5.0X
         0.9s     6.55nm
BSF    149.61  346 ePKP   30 21.10    5.1X
         0.9s     6.55nm
LOR    150.73  350 ePKP   30 24.00    6.4X
SSF    150.99  350 ePKP   30 24.70    6.8X
         0.7s     5.50nm
      S.D. = 1.1  on  24 of  32 obs.
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? FEB 18, 1991 11h 13m 42.75± 1.97s
59.896 N ±47.6km 165.880 E ±19.3km
DEPTH = 33.0km (normal)
4.7mb (4 obs.)
EASTERN SIBERIA (671)

FBA	21.62	57	P	18 29.80	-1.7
INK	26.65	46	eP	19 19.00	-0.7
YKA	36.15	51	eP	20 41.70	-1.5
	0.8s	1.40nm		3.9mb	
PNT	42.17	70	eP	21 36.00	2.6X
EDM	42.38	62	eP	21 37.00	1.9
FFC	46.17	53	eP	22 06.00	0.5
	1.6s	34.00nm		5.0mb	
TNP	51.64	79	(P)	22 49.20	1.0
NB2	57.81	346	P	23 34.40	1.7
	0.6s	1.90nm		4.3mb	
PKI	61.86	277	P	24 00.00	-1.2
EKA	64.79	353	P	24 25.00	5.3X
	1.9s	46.20nm		5.3mb	

S.D. = 1.7 on 8 of 10 obs.

• FEB 18, 1991 11h 17m 49.71± 0.71s
1.174 N ±15.0km 123.203 E ±20.1km
DEPTH = 33.0km (normal)
4.4mb (3 obs.)
MINAHASSA PENINSULA (265)

WB2	23.66	153	eP	22 59.10	-0.2
NANU	24.75	197	iPc	23 10.00	0.3
ASPA	26.79	158	eP	23 28.80	-0.1
	1.2s	6.00nm		4.1mb	
QIS	26.92	144	eP	23 30.00	0.0
CHTO	29.55	308	P	23 53.20	-0.6
GUN	44.51	310	P	26 00.34	-0.3
PKI	44.71	309	P	26 02.06	-0.1
KKN	44.91	310	P	26 04.30	0.6
DMN	44.96	309	P	26 04.94	0.8
GKN	45.51	309	P	26 08.28	-0.1
	0.7s	10.00nm		4.8mb	
GBA	46.93	288	P	26 19.00	-0.5
	0.6s	2.50nm		4.4mb	

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

• FEB 18, 1991 12h 51m 21.78± 1.42s
30.973 N ±17.5km 113.258 W ± 7.5km
DEPTH = 10.0km (geophysicist)
4.2mb (3 obs.)
GULF OF CALIFORNIA (49)

ECBX	1.61	288	ePn	51 49.50	-0.9
			S	53 12.30	
GLA	2.46	328	eP	52 03.00	0.3
IKP	2.95	305	eP	52 15.00	5.4X
PLM	3.87	309	eP	52 24.00	1.2
TPC	3.91	324	eP	52 28.00	4.7X
PEC	4.40	312	e(P)	52 35.00	4.8X
GSC	5.24	326	eP	53 07.00	24.8X
SBB	5.34	315	eP	53 04.00	20.5X
CLC	6.04	324	eP	53 00.00	6.6X
ISA	6.40	318	eP	53 00.00	1.5
ALQ	6.95	53	eP	53 06.00	-0.4
ANMO	6.95	53	P	53 06.40	0.0
MSU	7.58	6	eP	53 14.80	-0.3
TNP	7.81	336	P	53 22.00	3.7X
TNP	7.81	336	e(P)	53 18.00	-0.3
PV09	8.24	23	eP	53 30.50	6.0X
RSSD	15.01	26	e(P)	54 59.00	3.2X
	1.3s	13.72nm		4.2mb	
NEW	17.52	351	eP	55 28.50	0.9
	1.2s	8.52nm		3.8mb	
ELC	20.84	66	e(P)	56 07.00	1.0
TKL	25.03	71	eP	56 48.00	0.6
LHS	27.46	74	eP	57 10.30	0.5
INK	39.20	348	eP	58 49.20	-2.1
MBC	45.44	358	eP	59 40.00	-2.1
	1.5s	16.00nm		4.8mb	

S.D. = 1.2 on 14 of 23 obs.

FEB 18, 1991 12h 55m 47.22± 0.63s
43.420 N ± 4.3km 5.442 E ± 4.9km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
MD 2.8 (STR).

GELF	0.04	196	Pg	55 48.89	-0.4
TREF	0.21	348	Pg	55 51.53	-0.3
BERF	0.21	120	Pg	55 51.97	0.1
PUYF	0.22	59	Pg	55 51.30	-0.7
CDR	0.35	43	e(Pg)	55 53.70	-0.7
			i(Sg)	55 57.90	
PRAF	0.43	333	Pg	55 56.56	0.5
VILF	0.48	25	Pg	55 56.48	-0.4
TAVF	0.49	66	Pg	55 57.16	0.0
TOUF	1.44	65	Pn	56 14.25	0.7
			Sg	56 35.16	
AURF	1.45	70	Pn	56 13.92	0.4
			Sg	56 34.53	
SBF	1.51	72	Pn	56 14.92	0.5
AUTN	1.55	68	Pn	56 15.57	0.5
			Sg	56 37.89	
SAOF	1.63	69	Pn	56 16.50	0.4
			Sg	56 40.62	
PGF	2.75	107	Pn	56 31.56	-0.7

S.D. = 0.6 on 14 of 14 obs.

% FEB 18, 1991 13h 12m 40.74± 1.00s
40.333 N ± 9.2km 24.320 E ± 7.5km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
MD 2.2 (THE).

PAIG	0.64	231	iPc	12 52.72	-0.8
			eS	13 01.00	
SOH	0.88	304	eP	12 56.90	-0.8
SRS	0.96	325	ePc	12 58.89	-0.1
			eS	13 11.64	
THE	1.08	287	ePc	13 00.88	-0.1
			eS	13 13.70	
KNT	1.36	308	ePd	13 05.40	-0.3
			eS	13 23.28	
LIT	1.42	261	iPd	13 07.60	1.0
			eS	13 25.30	
ALN	1.43	66	ePd	13 06.72	0.0
			eS	13 28.68	
GRG	1.59	294	ePd	13 10.08	1.1
			eS	13 31.72	

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

? FEB 18, 1991 13h 47m 43.51± 1.09s
18.378 S ±43.8km 176.254 E ±22.9km
DEPTH = 33.0km (normal)
5.2mb (3 obs.) 4.9Msz (5 obs.)
FIJI ISLANDS REGION (181)
Mo=1.0*10**17 Nm (PPT).

NDF	1.29	62	eP	48 03.50	-1.9
DZM	9.91	247	iPc	50 07.60	0.6
WB2	39.54	261	iPc	55 10.50	-2.9
ASPA	39.78	255	iPc	55 12.70	-2.6
	0.8s	17.50nm		4.9mb	
	Z 19s	1.20um		4.8Msz	
MAT	65.39	327	eP	58 25.00	0.0
	1.2s	26.56nm		5.2mb	
			(S)	07 24.00	
TNP	83.91	47	P	00 09.80	-2.1
CHG	84.43	292	eP	00 15.20	0.7
LZH	87.21	309	Pd	00 27.80	-0.4
	2.0s	57.00nm		5.5mb	
	Z 20s	1.70um		5.5Msz	
	E 14s	0.75um			
			i	00 36.00	
			pP	00 54.00	98kmX
			sP	01 04.00	
FBA	87.45	15	P	00 28.70	0.2
KSP	143.90	338	ePKP	07 15.50	-1.5
CLL	144.56	342	iPKPd	07 16.70	-1.4
	1.5s	41.00nm			
BRG	144.65	341	iPKP	07 18.00	-0.3
	1.2s	42.00nm			
			i	07 23.40	
			i	07 53.00	
PRU	145.22	339	PKP	07 19.80	0.5
	1.2s	28.10nm			
MOX	145.55	343	ePKP	07 21.00	1.1
	2.2s	101.00nm			
SRO	145.56	333	ePKP	07 20.30	0.4
ZST	145.76	335	ePKP	07 21.20	0.9
KHC	146.28	339	iPKP	07 23.00	1.8
	1.0s	6.50nm			
GRF	146.52	342	ePKP	07 23.50	2.0
	Z 22s	0.20um		4.9Msz	
ABH	147.29	346	ePKP	07 25.19	2.5
DOU	147.66	350	PKPc	07 26.70	3.5X
SKO	148.17	323	ePKP	07 27.00	2.6X
CDF	148.73	346	ePKP	07 29.30	4.1X
	1.2s	14.90nm			
OHR	149.09	322	ePKP	07 30.00	4.1X
HAU	149.32	347	ePKP	07 28.20	2.2
	Z 20s	0.17um		4.9Msz	
BSF	149.39	346	ePKP	07 20.90	-5.3X
	1.2s	17.85nm			
LOR	150.52	349	ePKP	07 33.50	5.7X
	1.2s	105.60nm			
	Z 20s	0.17um		4.9Msz	
LBF	150.77	349	ePKP	07 34.20	6.0X
SSF	150.78	350	ePKP	07 34.50	6.3X
	1.2s	25.30nm			
AVF	151.07	350	ePKP	07 34.40	5.8X
LPG	151.58	344	ePKP	07 36.80	7.0X
	1.2s	8.95nm			
BCAO	154.18	240	iPKPc	07 41.10	7.0X
	0.8s	7.00nm			

S.D. = 1.7 on 20 of 31 obs.

FEB 18, 1991 14h 07m 52.22± 0.31s
8.843 N ± 5.4km 126.644 E ± 7.9km
DEPTH = 33.0km (normal)
5.2mb (23 obs.) 4.6Msz (6 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

DAV	2.04	211	iPc	08 30.80	5.9X
QCP	7.93	317	eP	09 54.00	5.9X
BAG	9.57	322	eP	10 13.90	2.9
QZH	17.76	335	eP	12 04.00	5.4X
	Z 18s	1.90um			
	N 15s	1.60um			
			S	15 18.00	
GZH	19.06	320	eP	12 16.00	1.4
	Z 18s	4.40um			
	N 16s	2.10um			
	E 14s	2.00um			
			eS	15 50.00	
QIZ	19.18	304	eP	12 14.00	-2.0
	N 14s	1.50um			
	E 16s	2.80um			
			S	15 50.00	
			sS	15 57.00	
MTN	22.00	168	eP	12 46.00	0.5
	0.3s	118.00nm		5.8mb	
			eS	14 11.00	
SSE	22.72	348	Pc	12 52.70	0.3
	0.6s	20.00nm		4.8mb	
	Z 20s	1.40um		4.4Msz	
	N 18s	2.10um			
			pP	13 00.00	26kmX
			S	16 52.00	
NJ2	24.20	344	Pc	13 09.00	2.2
	Z 17s	0.60um		4.1MszX	
	N 13s	0.80um			
	E 11s	0.40um			
			sP	13 19.00	
LOE	25.69	292	eP	13 25.80	4.6X
IPM	25.79	262	ePc	13 26.00	3.9X
	1.0s	136.40nm		5.5mb	
SNG	25.82	268	eP	13 25.20	2.7
NNT	26.69	280	eP	13 32.70	2.2
PMG	27.31	131	eP	13 34.00	-2.1
KMI	27.93	308	eP	13 52.50	10.5X
	Z 20s	1.50um		4.6Msz	
			i	14 25.50	159kmX
			S	18 58.00	
CHG	28.62	293	eP	13 47.90	-0.1
CHTO	28.62	293	P	13 47.00	-1.0
			pP	13 52.10	18kmX
WB2	29.59	165	iPd	13 54.10	-2.6
XAN	29.91	330	eP	13 56.00	-3.4X
	N 13s	0.70um			
MBL	30.56	193	eP	14 05.00	-0.2
	0.6s	22.00nm		5.1mb	
CD2	30.62	319	eP	14 10.00	4.3X
	Z 16s	3.80um		5.1MszX	
	N 15s	1.30um			
TIY	31.48	338	eP	14 10.90	-2.4
QIS	31.88	157	iPd	14 15.80	-1.0
	0.5s	23.00nm		5.3mb	
BJI	32.44	345	eP	14 27.50	6.0X
SNY	32.96	356	iPd	14 26.20	0.2
	1.4s	100.00nm		5.5mb	
	Z 18s	0.70um		4.4Msz	
			pP	14 31.60	19kmX

18d 14h

			sP	14	37.40	
NANU	33.06	199	eP	14	28.00	1.0
ASPA	33.08	168	iPd	14	25.90	-1.4
	1.5s		23.30nm			4.9mb
Z	21s		0.90um			4.5Msz
LZH	34.16	326	eP	14	35.00	-1.7
	2.0s		21.00nm			4.7mb
WARB	34.82	180	eP	14	42.00	-0.2
	0.4s		11.00nm			5.1mb
CN2	34.84	358	eP	14	41.60	-0.6
Z	20s		1.90um			4.8Msz
			pP	14	47.00	18kmX
			eS	20	04.00	
MDJ	35.73	4	eP	14	50.30	0.5
	1.3s		100.00nm			5.6mb
			pP	15	02.20	43kmX
MEKA	36.11	192	eP	14	53.20	0.0
SHL	36.98	301	eP	15	00.00	-0.8
			eS	20	51.50	
GTA	38.76	326	eP	15	14.00	-1.5
	0.8s		10.00nm			4.7mb
Z	18s		2.60um			5.1Msz
E	20s		2.50um			
LSA	39.16	307	eP	15	19.00	-0.4
MRWA	39.21	195	eP	15	20.20	1.0
FORR	39.49	178	eP	15	21.00	-0.4
	0.4s		43.00nm			5.6mb
KLB	41.09	192	iPd	15	35.20	0.5
	0.6s		27.00nm			5.2mb
RMQ	41.16	149	eP	15	34.00	-1.3
MUN	41.80	193	eP	15	41.50	1.1
NWAO	42.49	192	eP	15	47.10	1.0
	0.6s		25.00nm			5.1mb
GUN	42.82	302	P	15	48.80	-0.6
PKI	43.11	301	P	15	50.16	-1.6
KKN	43.28	301	P	15	51.56	-1.4
DMN	43.38	301	P	15	53.52	-0.3
GKN	43.89	301	P	15	55.98	-1.9
BRS	44.03	146	iPc	15	58.00	-0.7
			i	16	08.20	35kmX
ADE	45.04	166	ePd	16	07.20	0.4
	1.1s		78.48nm			5.5mb
COO	46.08	149	eP	16	17.00	1.9
HYB	47.49	285	ePd	16	27.00	0.5
	1.0s		35.00nm			5.3mb
			e	16	38.10	39kmX
BFD	48.14	163	iPd	16	32.10	0.9
GBA	48.44	280	P	16	35.00	1.2
KOD	48.48	276	eP	16	37.80	3.3X
WMQ	48.57	323	P	16	33.50	-1.1
Z	16s		1.40um			5.0MszX
			PP	18	26.00	
			ScS	26	22.00	
TOO	49.43	160	eP	16	42.00	0.9
DZM	49.67	129	iPc	16	43.30	0.0
NDI	50.38	300	eP	16	46.50	-2.1
POO	52.03	287	eP	16	52.50	-8.8X
SVW	76.38	29	eP	19	41.90	2.1
TTA	76.42	27	P	19	48.90	8.8X
IMA	77.78	24	P	19	48.60	1.0
	0.9s		4.17nm			4.5mb
SLKM	78.98	30	P	19	54.00	-0.2
PMR	79.53	29	eP	19	57.40	0.4
	1.2s		17.10nm			4.9mb
FBA	80.17	26	P	20	00.60	0.1
KEV	85.09	340	eP	20	29.00	3.3X
INK	85.47	22	eP	20	28.30	0.7
	1.2s		66.00nm			5.7mb
			pP	20	40.00	38kmX
SOD	85.74	338	eP	20	40.00	11.0X
MBC	87.01	13	eP	20	36.50	1.4
	1.0s		71.00nm			5.9mb
			pP	20	48.50	39kmX
KAF	87.05	332	eP	20	40.00	4.5X
NUR	88.22	331	eP	20	46.90	5.8X
HFS	93.48	333	eP	21	09.00	3.4X
	0.4s		2.40nm			5.0mb
Z	16s		0.27um			4.8MszX
			LR	00	16.00	
NB2	94.19	334	P	21	14.00	5.0X
	0.7s		1.70nm			4.6mb
YKA	94.90	24	eP	21	12.10	0.0
	1.3s		6.20nm			4.9mb
KHC	98.00	322	eP	21	41.60	15.1X
KIC	129.24	286	PKP	26	59.40	-0.5
ZOBO	163.81	119	PKP	28	03.50	9.0X
			LR	38	40.00	

SIV	169.65	134	ePKP	27	59.00	0.8
	S.D. = 1.3		on	57 of	77 obs.	
?	FEB 18, 1991		14h 13m 30.28± 1.02s			
	39.146 N ± 8.6km		27.547 E ±16.6km			
	DEPTH = 10.0km		(geophysicist)			
	TURKEY					(366)
	MD 2.7 (ISK).					
IZM	0.78	197	ePg	13	45.50	0.0
			iSg	13	57.10	
DST	0.96	61	iPn	13	48.50	0.0
EDC	1.22	11	iPn	13	53.00	0.0
BNT	1.24	13	iPn	13	53.40	0.0
	S.D. = 0.1		on	4 of	4 obs.	
	FEB 18, 1991		15h 31m 38.71± 0.46s			
	39.257 N ± 3.7km		27.710 E ± 5.5km			
	DEPTH = 10.0km		(geophysicist)			
	TURKEY					(366)
	MD 3.1 (ISK).					
DST	0.79	64	iPg	31	53.30	-0.8
			iSg	32	04.50	
IZM	0.93	202	iPg	31	57.00	0.6
			iSg	32	10.60	
EDC	1.09	6	iPn	31	59.00	-0.3
BNT	1.11	8	iPn	31	59.20	-0.3
EZN	1.21	298	iPn	32	01.50	0.2
KGT	1.23	345	iPn	32	01.60	0.0
CIN	1.68	170	ePn	32	08.00	-0.3
KHL	1.70	123	iPn	32	09.50	0.9
ALT	1.88	95	iPn	32	12.00	0.8
ISK	2.08	29	ePn	32	14.50	0.5
YER	2.17	168	ePn	32	14.00	-1.4
HRT	2.17	43	iPn	32	15.50	0.1
DMK	2.56	1	ePn	32	21.00	0.1
	S.D. = 0.7		on	13 of	13 obs.	
%	FEB 18, 1991		15h 55m 35.48± 0.97s			
	40.023 N ± 7.4km		28.774 E ± 8.0km			
	DEPTH = 10.0km		(geophysicist)			
	TURKEY					(366)
	MD 2.4 (ISK).					
DST	0.43	195	ePg	55	44.30	0.0
BNT	0.73	297	iPg	55	50.30	0.4
			iSg	56	00.50	
EDC	0.77	295	ePg	55	50.00	-0.5
			eSg	56	01.00	
HRT	1.05	40	iPg	55	55.30	0.0
KGT	1.20	291	ePn	55	58.00	0.1
	S.D. = 0.5		on	5 of	5 obs.	
%	FEB 18, 1991		16h 09m 55.96± 0.76s			
	40.566 N ± 5.6km		23.967 E ± 5.9km			
	DEPTH = 5.0km		(geophysicist)			
	GREECE					(364)
	MD 2.3 (THE).					
SOH	0.53	299	eP	10	06.70	0.1
SRS	0.62	333	ePd	10	07.85	-0.5
			eS	10	16.89	
PAIG	0.67	199	iPd	10	08.94	-0.5
			eS	10	19.37	
THE	0.77	275	ePc	10	11.48	0.2
			eS	10	22.33	
KNT	1.01	307	ePd	10	15.73	0.2
			eS	10	30.05	
LIT	1.22	248	ePc	10	19.71	0.5
			iS	10	37.50	
GRG	1.25	289	ePc	10	19.42	-0.3
			eS	10	37.69	
ALN	1.61	77	ePd	10	25.42	0.3
	S.D. = 0.5		on	8 of	8 obs.	
	FEB 18, 1991		16h 11m 12.12± 0.53s			
	37.870 N ± 4.4km		26.902 E ± 5.9km			
	DEPTH = 5.0km		(geophysicist)			
	DODECANESE ISLANDS					(369)
	MD 3.5 (ATH), 3.5 (ISK).					
SMG	0.17	198	iPgc	11	15.90	0.3
IZM	0.60	28	iPg	11	23.00	-1.1
			iSg	11	31.60	
CIN	0.98	106	ePg	11	32.00	0.9
			iSg	11	43.00	

YER	1.32	123	ePn	11	36.90	-0.1
APE	1.35	234	ePg	11	37.20	-0.4
			eSb	11	53.20	
PRK	1.46	340	ePn	11	38.00	-1.1
EZN	2.00	347	ePn	11	48.00	1.0
KHL	2.12	77	ePn	11	48.50	-0.2
DST	2.20	37	ePn	11	49.30	-0.5
EDC	2.58	17	ePn	11	56.00	0.7
KGT	2.60	7	ePn	11	56.00	0.5
BNT	2.61	17	ePn	11	56.50	0.9
QUE	33.86	91	eP	17	57.00	-0.9
	S.D. = 0.9		on	13 of	13 obs.	
	FEB 18, 1991		16h 15m 06.59± 0.16s			
	19.028 S ± 3.5km		168.493 E ± 4.7km			
	DEPTH = 39.7km		(10 depth phases)			
	5.7mb (33 obs.)		5.2Msz (10 obs.)			
	VANUATU ISLANDS					(186)
	Mo=3.0*10**17 Nm (PPT).					
	CENTROID, MOMENT TENSOR					(HRV)
	Data Used: GDSN					
	L.P.B.: 15S, 31C					
	Centroid Location:					
	Origin Time				16:15:12.2	0.4
	Lat 19.02S	0.06	Lon 168.20E			0.04
	Dep 50.4	3.0	Half-duration			2.5
	Moment Tensor;		Scale 10**17 Nm			
	Mrr=-0.33	0.07	Mtt=-2.15			0.15
	Mff= 2.49	0.14	Mrt=-2.17			0.13
	Mrf=-1.04	0.11	Mtf= 1.64			0.09
	Principal Axes:					
	T Val= 3.76		Plg=24		Azm=115	
	N -0.05		49		237	
	P -3.72		30		9	
	Best Double Couple:Mo=3.7*10**17					
	NP1:Strike=154		Dip=50		Slip=-175	
	NP2: 61		86		-41	
PVC	1.29	352	iPd	15	30.50	2.0
			iS	15	48.00	
BKM	1.37	350	iPd	15	32.00	2.4
DZM	3.59	212	iPd	15	59.10	-2.1
			iS	16	34.00	
SVA	9.49	86	eP	17	28.10	4.2X
HNR	12.63	318	iPd	18	06.00	-0.5
			eS	20	19.00	
SVO	12.93	318	iP	18	11.00	0.6
			iS	20	30.00	
BRS	16.66	237	iPc	18	58.70	-0.2
			e	21	15.00	
COO	18.93	229	iPc	19	28.30	1.3
	0.9s		39.00nm			4.6mb X
RMQ	19.64	244	iPd	19	35.90	0.8
	1.1s		433.00nm			5.7mb
WLZ	19.74	163	P	19	36.30	0.3
TAZ	20.37	162	P	19	43.70	1.2
HBZ	20.39	157	eP	19	42.40	-0.3
PUZ	20.80	158	P	19	44.80	-2.2
WHH	20.97	162	P	19	49.80	1.0
CTA	20.98	263	iPc	19	50.00	1.0
	1.0s		158.00nm			5.3mb
			iS	23	42.00	
CNZ	21.01	165	P	19	50.10	0.9
NOZ	21.21	159	P	19	50.80	-0.3
RIV	21.36	223	eP	19	53.00	0.4
MOH	21.39	161	P	19	53.90	0.9
TTH	21.67	162	P	19	56.60	0.8
RAB	21.72	311	e(P)	19	52.00	-4.4X
MNG	22.34	166	P	20	02.60	0.2
PGZ	22.53	164	P	20	03.70	-0.6
TCW	22.66	169	P	20	06.20	0.7
CAW	22.72	167	P	20	05.60	-0.5
MRW	22.76	168	P	20	07.20	0.7
PMG	22.76	292	eP	20	07.00	0.3
WEL	22.82	168	P	20	08.00	0.9
			eS	24	10.00	
WDW	22.85	167	eP	20	07.30	-0.1
THZ	22.97	172	P	20	08.70	0.0
BLW	23.05	166	P	20	08.20	-1.2
MOW	23.06	167	P	20	08.50	-0.9
QLP	23.57	247	iPd	20	16.00	1.5
			e	20	25.00	32km
KHZ	23.71	171	P	20	16.10	0.4
LTZ	23.90	173	eP	20	17.80	0.2
CMS	23.90	234	eP	20	19.00	1.3
TOO	27.29	223	eP	20	50.00	0.5
BFD	29.02	226	e(P)	21	05.00	-0.1

TAU 29.78 212 eP 21 20.00 8.3X
ADE 30.77 233 e(P) 21 21.30 0.6
ASPA 32.50 256 eP 21 34.40 -1.5
1.0s 40.50nm 5.2mb
Z 22s 2.00um 4.8Msz
eScS 31 58.50
MBL 45.61 259 eP 23 25.00 -0.1
MEKA 46.43 251 eP 23 30.60 -0.9
KLB 47.16 244 eP 23 36.00 -1.3
0.6s 54.00nm 5.7mb
NWAO 47.68 243 eP 23 41.00 -0.4
0.9s 107.00nm 5.9mb
Z 20s 1.60um 5.0Msz
OCP 57.43 302 eP 24 52.00 -2.1
BAG 58.83 304 eP 25 02.50 -1.6
MAT 62.24 333 iPd 25 25.50 -1.3
1.2s 350.00nm 6.4mb
eS 33 54.00
SHK 63.23 327 eP 25 32.80 -0.5
OZH 65.34 310 eP 25 47.00 -0.2
Z 26s 0.71um 4.7MszX
SSE 67.43 317 Pd 25 59.50 -1.0
1.0s 60.00nm 5.6mb
Z 20s 0.92um 5.0Msz
N 10s 0.45um
NJ2 69.57 316 Pd 26 13.60 -0.1
1.2s 100.00nm 5.7mb
Z 20s 0.50um 4.8Msz
S 35 18.00
IPM 70.39 282 ePd 26 18.00 -1.1
1.0s 415.00nm 6.4mb
SPA 71.09 180 iPc 26 22.60 -0.1
1.0s 45.00nm 5.4mb
i 26 29.50 22kmX
WHN 71.69 313 iPd 26 26.50 -0.1
1.5s 400.00nm 6.2mb
pP 26 39.00 43km
eS 35 41.00
sS 36 05.00
SNG 71.74 285 eP 26 26.80 -0.4
DL2 72.42 323 eP 26 30.00 -0.8
1.0s 600.00nm 6.5mb
Z 28s 1.10um 5.0MszX
MDJ 72.60 332 iPd 26 31.50 -0.2
1.3s 400.00nm 6.2mb
Z 25s 1.00um 5.0MszX
pP 26 48.00 60kmX
TIA 73.32 319 Pd 26 35.80 -0.3
SNY 73.42 327 iPd 26 36.40 -0.1
1.2s 100.00nm 5.7mb
Z 20s 0.90um 5.1Msz
sP 26 57.60
S 36 02.00
CN2 73.91 329 iPd 26 39.30 -0.1
1.4s 200.00nm 5.9mb
Z 22s 1.90um 5.3Msz
pP 26 52.00 43km
ePP 29 28.00
S 36 08.00
esS 36 30.00
NNT 74.67 289 eP 26 43.60 -0.7
LOE 74.93 295 eP 26 45.80 0.0
GYA 75.12 305 iPd 26 47.00 0.1
1.6s 100.00nm 5.5mb
BJI 76.33 321 Pd 26 54.00 0.7
1.5s 250.00nm 6.0mb
Z 32s 1.51um 5.1MszX
epP 27 06.00 40km
eS 36 36.00
eSKS 36 58.00
KHT 76.57 291 eP 26 56.30 1.2
TIY 77.20 318 iPd 26 59.00 0.7
1.4s 200.00nm 6.0mb
Z 26s 1.30um 5.1MszX
N 21s 2.20um
pP 27 11.00 40km
BDT 77.22 293 eP 26 57.00 -1.6
XAN 77.45 313 Pd 27 00.20 0.5
1.0s 100.00nm 5.8mb
pP 27 12.00 39km
KMI 77.56 302 Pd 27 02.00 1.2
2.0s 170.00nm 5.7mb
Z 30s 0.70um 4.8MszX
pP 27 14.50 42km
CHTO 77.92 295 P 27 02.00 -0.6
CD2 79.55 308 Pd 27 11.50 0.2
1.4s 200.00nm 5.9mb
pP 27 23.50 40km
sP 27 31.50
eS 37 11.00
sS 37 30.00
HHC 79.60 320 Pd 27 12.20 0.7
1.2s 140.00nm 5.8mb
Z 26s 1.40um 5.2MszX
sS 37 31.00
BTO 80.41 319 P 27 16.00 0.2
LZH 82.06 312 iPd 27 25.00 0.4
2.0s 360.00nm 6.1mb
Z 24s 0.83um 5.0MszX
E 20s 1.10um
pP 27 36.00 35km
PP 30 34.00
PDB 84.21 18 P 27 33.80 -1.0
SVW 84.90 17 eP 27 38.50 0.2
TTA 86.32 15 eP 27 45.10 -0.3
MHC 86.34 49 ePd 27 46.60 0.5
GTA 86.47 314 iPd 27 47.40 0.7
1.2s 30.00nm 5.4mb
Z 32s 1.14um 5.1MszX
pP 28 00.00 42km
sP 28 05.50
SKS 38 09.00
sS 38 45.00
PRI 86.50 50 ePd 27 47.40 0.5
LLA 86.51 49 ePd 27 47.00 0.2
SHL 86.63 298 iP 27 47.50 -0.3
iS 38 09.50
PMR 87.16 19 eP 27 48.90 -0.4
1.5s 55.10nm 5.6mb
WDC 87.21 45 iPd 27 50.30 0.2
e 28 12.90 83kmX
ORV 87.45 47 ePd 27 51.20 -0.1
CMB 87.54 48 ePd 27 51.90 0.1
e 27 59.20 23kmX
e 28 14.30
FRI 87.57 50 ePd 27 51.90 0.0
MIN 87.74 46 eP 27 52.50 -0.3
ISA 87.90 51 eP 27 54.00 0.4
SBB 87.97 52 eP 27 54.00 0.0
LBFM 88.00 45 P 27 54.60 0.4
RVR 88.02 53 eP 27 54.00 -0.1
PLM 88.15 54 eP 27 55.00 0.0
CLC 88.61 51 eP 27 56.00 -1.0
GSC 88.98 52 eP 27 58.00 -0.8
BONR 88.99 49 P 27 59.10 0.0
pP 28 19.40 73kmX
TPC 89.07 53 eP 27 59.00 -0.2
IMA 89.49 14 P 27 59.90 -0.7
1.2s 15.15nm 5.2mb
GLA 89.59 55 eP 28 02.00 0.3
KVN 89.60 48 P 28 01.90 0.1
TNP 89.82 49 P 28 02.70 -0.2
1.4s 31.25nm 5.4mb
FBA 90.08 17 P 28 01.10 -2.1
1.2s 54.92nm 5.7mb
GMW 90.33 39 P 28 05.10 0.4
LON 90.55 40 P 28 05.50 -0.3
GUN 92.48 299 P 28 15.10 -0.4
PKI 92.76 298 P 28 16.28 -0.5
1.1s 29.00nm 5.6mb
KKN 92.94 298 P 28 17.14 -0.3
PNT 93.02 39 eP 28 17.00 0.0
DMN 93.02 298 P 28 17.62 -0.3
GKN 93.55 298 P 28 19.04 -1.1
1.0s 35.00nm 5.7mb
KOD 94.24 279 eP 28 24.50 0.7
GBA 95.32 282 P 28 28.00 -0.3
INK 96.57 19 eP 28 31.50 -1.4
1.1s 37.00nm 5.8mb
ALQ 96.76 56 eP 28 34.00 -0.8
1.0s_ 2.75nm 4.7mb
YKA 100.81 27 ePdiff28 50.50 -1.7
0.7s 5.10nm 5.2mb
MBC 104.20 14 ePdiff29 06.50 -0.5
ZOBO 114.19 118 PKP 33 44.00 -1.1
Z 24s 0.10um 4.3MszX
LR 45 25.00
SIV 120.09 122 PKP 33 53.20 -2.4
KAF 129.60 338 ePKP 34 11.20 -1.3
0.5s 1.70nm
NUR 131.27 337 iPKP 34 15.70 0.0
0.7s 17.40nm
i 34 28.20
SLL 134.98 343 ePKP 34 18.50 -4.3X
1.1s 16.90nm
NB2 135.06 345 PKP 34 21.00 -2.0
0.8s 5.70nm
BBTK 136.75 308 ePKP 34 26.00 -1.0
KSP 141.37 332 ePKP 34 27.50 -7.4X
ic 38 08.50
BRG 142.37 334 iPKP 34 32.20 -4.4X
1.6s 130.00nm
i 38 10.20
CLL 142.43 335 ePKP 34 31.00 -5.7X
1.9s 35.00nm
i 38 10.20
SRO 142.43 327 ePKP 34 32.00 -4.8X
i 38 10.30
PRU 142.76 332 PKP 34 33.50 -3.8X
e 34 41.30
e 36 10.50
ZST 142.80 328 e(PKP)34 34.20 -3.2X
e 37 47.40
e 38 11.60
e 44 40.00
SRS 142.85 314 ePKPd 34 32.64 -5.1X
BEO 143.02 321 e(PKP)34 33.50 -4.4X
KNT 143.30 314 ePKPc 34 34.04 -4.5X
VAY 143.45 315 iPKP 34 35.00 -3.8X
1.3s 78.00nm
NPS 143.47 304 iPKPd 34 36.00 -3.0X
MOX 143.50 335 ePKP 34 35.00 -3.6X
1.7s 89.00nm
e 38 14.00
HOF 143.65 335 iPKPc 34 35.70 -3.2X
GRG 143.73 314 ePKPd 34 35.20 -4.1X
KHC 143.82 332 iPKPc 34 36.40 -2.8
1.0s 10.00nm
e 34 50.10
SKO 143.89 317 iPKPd 34 36.90 -2.6
1.4s 254.00nm
i 37 51.00
i 38 10.00
LIT 144.05 313 ePKPd 34 36.36 -3.5X
WTS 144.10 341 ePKP 34 36.50 -3.0X
e 38 09.50
WET 144.12 332 iPKPc 34 37.50 -2.2
KMR 144.34 330 iPKP- 34 38.40 -1.7
i 34 39.30
GRF 144.40 334 ePKP 34 38.50 -1.6
Z 24s 0.60um 5.3MszX
e 34 40.20
e 34 45.40
e 34 51.20
IVA 144.42 319 iPKPd 34 38.72 -1.8
KZN 144.45 314 ePKP 34 37.50 -3.1X
PLE 144.48 320 iPKPd 34 39.32 -1.3
PVY 144.52 318 iPKPd 34 38.28 -2.4
VAM 144.53 305 iPKPc 34 39.50 -1.3
BNS 144.86 339 iPKPd 34 39.60 -1.2
1.4s 255.00nm
PTJ 144.90 326 ePKP 34 39.90 -1.3
ZAG 144.94 326 ePKP 34 41.00 -0.1
NKY 145.01 319 iPKPd 34 40.53 -1.0
EVR 145.03 312 ePKP 34 39.50 -2.2
TNS 145.04 338 ePKPc 34 39.10 -2.2
TTG 145.05 319 iPKPd 34 40.30 -1.1
VLI 145.06 307 ePKP 34 38.50 -3.2X
BHG 145.17 331 iPKPd 34 40.80 -0.7
BRY 145.24 320 iPKPd 34 39.82 -2.1
ULC 145.31 318 iPKPd 34 40.53 -1.4
BDV 145.40 319 iPKPd 34 41.35 -0.7
KBA 145.41 330 iPKPd 34 41.20 -1.0
0.7s 56.70nm
i 34 58.20
e 38 00.00
i 38 16.90
ENN 145.44 340 iPKPd 34 41.00 -0.8
1.4s 622.00nm
e 38 17.00
HCY 145.52 319 iPKPd 34 41.50 -0.8
MEM 145.55 340 iPKPd 34 41.74 -0.2
ec 34 54.40
FUR 145.55 333 ePKP 34 42.00 -0.2
2.0s 848.00nm
i 34 55.20
ABH 145.65 338 ePKP 34 41.80 -0.5
IGT 145.79 313 ePKPd 34 41.28 -1.5
UCC 145.89 342 PKPd 34 42.00 -0.6
STU 145.94 335 iPKPd 34 43.00 0.2
1.5s 333.33nm

18d 16h

Z 20s 0.71um 5.4Msz
FVI 146.03 329 PKPc 34 42.70 -0.2
WATA 146.05 331 iPKPd 34 43.00 -0.2
1.0s 68.30nm
i 34 55.70
i 38 06.30
i 38 19.10
WTTA 146.07 331 iPKPd 34 41.80 -1.5
0.8s 64.40nm
id 34 43.50
i 34 51.60
i 34 56.30
i 35 06.30
i 38 03.50
i 38 19.50
ETA 146.15 354 ePKP 34 43.20 0.3
1.4s 546.00nm
SNF 146.16 342 PKPd 34 43.40 0.4
i 34 56.10
TRI 146.17 328 iPKPd 34 43.00 -0.2
VLS 146.21 311 ePKP 34 43.50 -0.1
MOTA 146.25 332 iPKPd 34 43.80 0.3
0.8s 72.60nm
i 34 56.40
i 37 52.60
i 38 03.30
i 38 07.90
i 38 18.90
SQTA 146.30 332 iPKPd 34 44.10 0.5
0.8s 84.80nm
i 34 52.00
i 38 04.00
i 38 19.90
HVAR 146.33 322 iPKP 34 43.60 0.0
GWF 146.38 337 PKP 34 44.51 1.0
DOU 146.44 341 PKPd 34 44.50 1.0
ec 34 57.10
VVI 146.64 329 PKP 34 45.30 1.3
OGA 146.65 331 iPKPc 34 46.10 1.9
ECP 146.67 354 iPKPd 34 44.60 0.8
1.1s 464.00nm
WLS 146.94 337 PKP 34 45.92 1.5
CTI 146.97 330 PKP 34 46.20 1.6
CDF 146.97 337 PKP 34 45.92 1.4
FEL 147.13 336 PKP 34 46.30 1.4
VAL 147.14 359 ePKP 34 47.00 2.5
ECH 147.18 337 PKP 34 46.40 1.6
BCAO 147.29 247 iPKPd 34 47.90 1.9
0.4s 33.00nm
ic 34 59.00
id 36 11.10
MOF 147.49 336 PKP 34 47.25 1.8
VITF 147.61 338 PKP 34 47.82 2.4
BSF 147.64 337 ePKP 34 47.70 2.0
1.6s 146.25nm
HAU 147.65 337 ePKP 34 48.00 2.4
1.6s 186.55nm
Z 22s 0.88um 5.5Msz
BBS 147.66 336 PKP 34 47.70 2.1
LOMF 148.02 336 PKP 34 48.85 2.6
MDI 148.07 331 PKP 34 48.00 1.8
RSM 148.07 326 PKP 34 50.20 3.9X
ARV 148.10 325 PKP 34 49.60 3.2X
ORI 148.11 317 PKP 34 49.90 3.4X
SFI 148.39 327 PKP 34 50.50 3.7X
TDS 148.40 317 PKP 34 50.20 3.2X
VAI 148.42 332 PKPd 34 49.30 2.5
PGD 148.49 327 PKP 34 51.10 3.9X
CRE 148.54 326 PKP 34 49.40 2.2
ASS 148.54 325 PKP 34 50.00 2.8
SGO 148.56 319 PKP 34 49.90 2.7
MGR 148.64 318 PKP 34 49.60 2.2
MME 148.78 328 PKP 34 51.50 3.7X
GRI 148.79 315 PKP 34 51.34 3.6X
0.8s 63.70nm
FIR 148.79 327 ePKP 34 50.00 2.5
AZI 148.81 323 PKP 34 51.02 3.5X
0.1s 20.50nm
BDI 148.92 328 PKP 34 50.50 2.7
ORO 148.95 333 PKP 34 42.90 -4.9X
BOB 148.96 330 PKP 34 51.50 3.7X
MNS 148.99 324 PKP 34 50.60 2.7
FLN 149.03 346 ePKP 34 51.20 3.5X
1.4s 122.00nm
LDF 149.10 345 ePKP 34 51.30 3.5X
1.4s 135.05nm
LOR 149.15 339 iPKPd 34 51.90 3.9X

1.0s 50.00nm
Z 22s 0.88um 5.5Msz
PII 149.21 328 PKP 34 50.60 2.5
RMP 149.35 323 PKP 34 52.40 4.0X
LBF 149.36 339 ePKP 34 52.30 4.0X
1.6s 124.40nm
RDP 149.37 323 PKP 34 52.30 3.8X
SSF 149.45 340 iPKPd 34 52.90 4.5X
1.0s 52.00nm
GRR 149.46 346 iPKPd 34 52.40 4.0X
1.4s 156.85nm
LPL 149.56 334 ePKP 34 53.50 4.6X
1.6s 93.30nm
LPG 149.57 334 ePKP 34 53.90 4.9X
SMF 149.70 339 ePKP 34 52.90 4.1X
1.6s 236.30nm
AVF 149.74 340 ePKP 34 53.10 4.3X
1.6s 99.50nm
CKI 149.76 331 PKP 34 52.30 3.4X
LPF 149.84 346 iPKPd 34 53.30 4.4X
1.2s 154.70nm
BNI 149.96 334 PKP 34 54.20 4.8X
BGF 150.11 340 ePKP 34 54.10 4.7X
1.2s 44.65nm
PLDF 150.36 338 PKP 34 54.42 4.5X
MAF 150.50 340 ePKP 34 55.20 5.2X
1.6s 80.85nm
TCF 150.55 340 ePKP 34 55.20 5.1X
1.6s 136.80nm
SBF 150.58 331 ePKP 34 55.00 4.7X
0.9s 78.60nm
SSB 150.62 337 PKP 34 55.57 5.3X
PYM 150.77 339 PKP 34 55.55 5.0X
LSF 150.80 341 ePKP 34 55.50 5.0X
1.2s 47.60nm
PGF 150.82 328 ePKP 34 56.00 5.3X
0.7s 72.75nm
MFF 150.95 344 ePKP 34 56.00 5.3X
1.6s 130.60nm
LBL 151.13 338 PKP 34 57.01 6.1X
FRF 151.17 332 ePKP 34 56.40 5.3X
1.4s 104.55nm
LRG 151.38 332 ePKP 34 57.10 5.7X
1.0s 36.00nm
Z 22s 0.82um 5.5Msz
LMR 151.41 332 ePKP 34 57.10 5.7X
1.0s 48.00nm
RJF 151.65 340 ePKP 34 58.00 6.2X
Z 24s 0.93um 5.5MszX
LPO 152.31 340 ePKP 34 59.30 6.6X
KIC 165.79 208 PKP 35 08.20 -0.7
LKO 168.97 212 PKP 35 10.86 -0.3
S.D. = 1.2 on 189 of 253 obs.

? FEB 18, 1991 16h 19m 56.40± 1.88s
2.861 N ±36.1km 66.410 E ±15.6km
DEPTH = 10.0km (geophysicist)
5.1mb (2 obs.)
CARLSBERG RIDGE (421)

GBA 15.25 45 P 23 38.00 4.4X
HYB 18.74 39 eP 24 17.00 -0.7
DMN 30.41 34 P 26 12.60 1.0
GKN 30.46 33 P 26 12.20 0.4
PKI 30.55 35 P 26 12.60 -0.3
KKN 30.65 34 P 26 14.60 1.0
GUN 31.08 35 P 26 18.20 0.7
NST 35.56 67 eP 27 10.50 14.4X
CHG 35.56 61 eP 26 54.90 -1.2
BCAO 47.80 273 iPd 28 37.20 0.8
1.0s 15.00nm 5.0mb
SPC 60.58 327 eP 30 04.50 -5.2X
e 34 30.50
e 37 22.80
e 38 05.80
SRO 60.91 325 eP 30 10.40 -1.3
ZST 61.80 325 eP 30 17.10 -0.7
CLL 65.65 326 iPc 30 43.20 0.3
1.8s 23.00nm 5.1mb
S.D. = 1.0 on 11 of 14 obs.

FEB 18, 1991 16h 22m 29.26± 0.74s
41.042 N ± 5.9km 22.388 E ± 5.6km
DEPTH = 5.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.1 (SKO). MD 1.9 (THE).

VAY 0.31 26 iPg 22 35.50 0.0
iSg 22 40.00
KNT 0.40 73 eP 22 37.80 0.4
eS 22 41.60
THE 0.60 133 eP 22 41.40 0.1
eS 22 49.80
SOH 0.76 106 eP 22 44.50 -0.1
FNA 0.81 252 eP 22 45.50 0.0
SRS 0.91 85 eP 22 46.80 -0.4
eS 22 59.30
LIT 0.94 175 eP 22 47.70 0.0
S.D. = 0.3 on 7 of 7 obs.

FEB 18, 1991 16h 59m 05.93± 0.55s
37.919 N ± 4.4km 26.855 E ± 6.0km
DEPTH = 5.0km (geophysicist)
DODECANESE ISLANDS (369)
MD 3.2 (ISK).

SMG 0.21 184 iPgc 59 10.00 -0.2
eSg 59 13.20
IZM 0.58 34 iPg 59 17.70 0.2
iSg 59 26.20
CIN 1.03 108 ePg 59 26.00 0.2
iSg 59 41.00
APE 1.35 232 ePb 59 31.50 0.1
YER 1.38 124 ePn 59 31.90 0.1
PRK 1.40 341 ePb 59 32.70 0.6
eSb 59 53.00
KHL 2.14 78 ePn 59 43.00 0.1
DST 2.18 39 ePn 59 43.00 -0.4
KGT 2.55 8 ePn 59 48.00 -0.6
S.D. = 0.4 on 9 of 9 obs.

% FEB 18, 1991 17h 26m 26.95± 0.54s
39.394 N ± 4.9km 28.668 E ± 6.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.0 (ISK).

DST 0.21 352 iPg 26 31.00 -0.6
BNT 1.12 329 iPg 26 47.80 -0.1
iSg 27 03.50
EDC 1.14 327 iPg 26 48.00 -0.2
eSg 27 04.00
ALT 1.17 106 iPg 26 48.80 -0.1
eSg 27 05.50
KHL 1.26 148 iPn 26 50.10 -0.3
IZM 1.48 228 ePn 26 54.00 0.3
KGT 1.49 316 iPn 26 53.80 0.1
HRT 1.62 28 iPn 26 56.00 0.4
ISK 1.70 10 iPn 26 57.30 0.6
DMK 2.52 344 ePn 27 13.00 4.4X
S.D. = 0.4 on 9 of 10 obs.

% FEB 18, 1991 18h 56m 20.71± 0.94s
39.557 N ±19.6km 28.875 E ±12.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

DST 0.20 284 iPg 56 25.00 -0.1
ALT 1.08 117 ePg 56 41.10 0.0
eSg 56 56.30
BNT 1.08 318 ePg 56 41.00 -0.1
eSg 56 56.00
EDC 1.11 316 ePg 56 41.40 -0.1
KGT 1.50 307 ePn 56 48.00 0.3
S.D. = 0.3 on 5 of 5 obs.

% FEB 18, 1991 19h 08m 47.09± 0.59s
39.525 N ± 7.3km 28.813 E ± 7.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.8 (ISK).

DST 0.16 299 iPg 08 50.40 -0.5
BNT 1.08 321 ePg 09 07.50 0.1
iSg 09 22.50
EDC 1.10 319 ePg 09 08.00 0.3
ALT 1.11 115 iPg 09 08.00 0.0
eSg 09 23.50
KHL 1.32 155 ePn 09 11.60 0.0
HRT 1.45 27 ePn 09 13.20 -0.2
KGT 1.48 309 ePn 09 14.00 0.2
DMK 2.43 341 ePn 09 27.50 0.0
S.D. = 0.3 on 8 of 8 obs.

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% FEB 18, 1991 19h 40m 16.43± 0.60s
  39.567 N ± 6.8km   28.793 E ± 6.5km
  DEPTH = 10.0km (geophysicist)
 TURKEY                          (366)
      MD 2.9 (ISK).

DST     0.13 287 iPg   40 19.40  -0.3
KCT     0.76 334 iPg   40 26.70  -4.6X
BNT     1.04 320 iPg   40 35.50  -0.5
                 iSg   40 50.40
EDC     1.06 318 ePg   40 36.00  -0.3
                 eSg   40 51.80
ALT     1.14 116 iPg   40 37.30  -0.6
                 eSg   40 53.50
KHL     1.37 155 ePn   40 42.10   0.5
HRT     1.42  28 ePn   40 42.20  -0.1
KGT     1.45 308 ePn   40 43.00   0.4
ISK     1.51   8 ePn   40 43.80   0.3
DMK     2.39 341 ePn   40 56.80   0.6
     S.D. = 0.5  on   9 of  10 obs.
---------------------------------------
   FEB 18, 1991 20h 28m 29.73± 0.78s
  39.003 N ± 5.8km   25.892 E ± 7.0km
  DEPTH = 10.0km (geophysicist)
 AEGEAN SEA                      (365)
      MD 3.4 (ISK).

PRK     0.38  50 iPbc  28 37.50  -0.1
EZN     0.89  22 iP    28 47.20   0.5
                 iSg   28 59.80
IZM     1.23 119 ePn   28 52.20  -0.5
                 iSg   28 59.80
SMG     1.49 150 ePb   28 57.50   1.0
                 eSb   29 17.20
KGT     1.81  37 iPn   29 01.60   0.4
EDC     2.03  48 ePn   29 04.00  -0.3
BNT     2.07  49 ePn   29 05.00   0.1
DST     2.21  73 iPn   29 06.10  -0.9
KCT     2.27  56 ePn   29 07.70  -0.2
DMK     3.16  26 ePn   29 21.00   0.6
CDR    15.81 294 eP    32 13.30  -0.6
                 e     32 18.40
     S.D. = 0.6  on  11 of  11 obs.
---------------------------------------
% FEB 18, 1991 20h 49m 03.49± 1.01s
  42.430 N ± 7.1km   19.802 E ± 7.1km
  DEPTH = 10.0km (geophysicist)
 YUGOSLAVIA                      (383)
      ML 1.9 (TTG).

PVY     0.21  38 iPgc  49 07.70  -0.4
                 iSg   49 11.36
TTG     0.40 270 iPgc  49 10.91  -0.8
                 iSg   49 17.98
IVA     0.45   9 iPgd  49 12.91   0.3
                 iSg   49 20.11
ULC     0.62 222 iPgd  49 16.23   0.2
                 iSg   49 26.60
NKY     0.71 303 iPgc  49 17.13  -0.4
                 iSg   49 29.60
BDV     0.74 259 iPgd  49 18.06   0.1
                 iSg   49 30.00
PLE     0.95 342 iPgd  49 21.78   0.2
HCY     0.97 271 iPgc  49 22.08   0.2
                 iSg   49 38.23
BRY     1.04 297 iPgd  49 23.71   0.5
                 iSg   49 40.50
     S.D. = 0.5  on   9 of   9 obs.
---------------------------------------
% FEB 18, 1991 20h 54m 17.54± 1.03s
  38.889 N ±11.2km   29.066 E ±11.9km
  DEPTH = 10.0km (geophysicist)
 TURKEY                          (366)
      MD 2.8 (ISK).

KHL     0.67 147 iPg   54 31.10   0.2
                 iSg   54 41.10
DST     0.79 335 iPg   54 34.00   1.0
ALT     0.83  78 ePg   54 33.50  -0.2
                 eSg   54 45.00
KCT     1.46 338 iPn   54 43.70  -0.3
KGT     2.07 319 ePn   54 52.00  -0.7
     S.D. = 0.9  on   5 of   5 obs.
---------------------------------------
& FEB 18, 1991 22h 02m 14.51s
  56.749 N        155.487 W
     DEPTH =  0.0km
     2.8mb (  1 obs.)
 ALASKA PENINSULA                (12)
      <AEIC>.

CDD     2.40  23 eP    02 54.02  -1.7
                 eS    03 25.82
SYI     2.50  40 eP    02 54.38  -2.7
MCNL    2.52  14 eP    02 55.20  -2.2
AUH     2.84  22 eP    03 00.35  -1.7
AUE     2.85  22 eP    03 00.91  -1.2
PDB     3.12  12 eP    03 03.66  -2.3
                 eS    03 39.67
SDN     3.14 245 eP    03 04.47  -1.7
CNPM    3.58  37 eP    03 10.14  -2.4
RED     3.95  20 eP    03 16.18  -1.6
NNL     3.97  32 eP    03 15.94  -2.1
RS2     3.99  20 eP    03 17.49  -1.0
RSO     3.99  20 eP    03 16.25  -2.2
REF     4.02  20 eP    03 16.96  -2.0
RDN     4.04  20 iP    03 17.53  -1.5
NCT     4.05  18 eP    03 17.31  -1.9
RDT     4.16  21 iP    03 18.29  -2.4
SVW     4.37 359 eP    03 19.71  -4.1
SLKM    4.67  34 eP    03 24.60  -3.3
CKL     4.75  19 eP    03 26.26  -2.9
SPU     4.79  20 iP    03 27.00  -2.7
KNIM    5.43  45 eP    03 33.76  -5.0
PMS     5.45  32 eP    03 34.05  -5.0
SKT     5.62  19 eP    03 37.84  -3.6
YKA    21.16  57 eP    07 01.90  -1.3
       0.8s      0.40nm          2.8mb
     24 obs. ossocioted
---------------------------------------
? FEB 18, 1991 22h 40m 33.26± 0.87s
  21.088 N ±17.7km  145.044 E ±15.4km
  DEPTH = 33.0km (normol)
  4.7mb (  8 obs.)
 MARIANA ISLANDS REGION          (215)

WB5    42.03 195 eP    48 23.10  -0.4
CHTO   43.28 275 P     48 35.00   1.2
GUN    53.83 290 P     49 56.88   1.0
       0.4s      6.00nm          5.0mb
PKI    54.29 289 P     49 58.64  -0.5
       0.4s      3.00nm          4.7mb
KKN    54.37 290 P     50 00.18   0.5
       0.6s      5.00nm          4.8mb
DMN    54.55 289 P     50 00.58  -0.5
       0.6s      4.00nm          4.6mb
GKN    54.91 290 P     50 03.20  -0.4
       0.5s      4.00nm          4.7mb
MBC    71.00  15 eP    51 50.00   0.7
YKA    76.18  28 eP    52 19.30  -0.3
       0.6s      0.60nm          3.8mb
KAF    84.00 336 eP    52 59.90  -1.4
       0.5s      1.40nm          4.4mb
FFC    85.42  32 eP    53 10.00   1.4
       0.7s      6.00nm          4.9mb
NUR    85.58 335 eP    53 07.80  -1.5
     S.D. = 1.1  on  12 of  12 obs.
---------------------------------------
   FEB 18, 1991 22h 51m 45.44± 0.49s
  11.865 N ±10.8km   57.701 E ± 4.5km
  DEPTH = 10.0km (geophysicist)
  4.8mb ( 21 obs.)  4.4Msz (  4 obs.)
 ARABIAN SEA                     (417)

POO    16.93  65 eP    55 48.30   4.1X
AAE    18.83 263 eP    56 09.00   0.9
GBA    19.33  83 P     56 14.00   0.2
KOD    19.47  93 eP    56 15.50  -0.3
NAI    24.52 239 iPd   57 08.50   1.8
TAB    28.00 341 eP    57 41.00   2.3
GKN    29.88  54 Pc    57 56.62   0.9
       1.1s     36.00nm          5.1mb
DMN    30.07  55 Pc    57 58.62   1.0
       0.9s      9.00nm          4.6mb
KKN    30.29  54 Pc    58 00.46   1.0
       0.9s     38.00nm          5.3mb
PKI    30.30  55 Pc    58 00.42   0.7
       0.8s     19.00nm          5.0mb
GUN    30.82  55 Pc    58 05.38   1.1
       1.0s     43.00nm          5.3mb
LWI    31.96 246 ePd   58 10.10  -4.2X
BCK    35.21 321 iP    58 44.50   2.5
LSA    35.77  55 eP    58 47.30  -0.1
BCAO   39.43 263 iPc   59 17.70   0.0
       0.4s     15.00nm          5.0mb
                 id    59 27.60
KHT    39.86  81 iPc   59 22.20   1.0
BDT    40.28  77 eP    59 23.00  -1.6
CHG    40.30  75 eP    59 25.10   0.3
WMQ    41.01  33 P     59 32.00   1.6
                 eS    05 36.50
VAY    42.49 320 eP    59 37.50  -5.0X
VRI    42.90 328 eP    59 56.00  10.2X
MLR    43.06 327 eP    59 56.00   8.8X
KMI    44.50  66 eP    00 02.00   2.7
GTA    46.23  46 eP    00 13.00   0.2
       0.8s     10.00nm          4.9mb
CD2    46.51  59 P     00 13.80  -1.2
LZH    48.00  52 eP    00 25.00  -1.9
       1.5s     25.00nm          5.1mb
     Z 22s      0.75um           4.6Msz
     E 15s      0.40um
                 pP    00 29.80  16kmX
GYA    48.19  65 P     00 28.00  -0.4
SPC    48.39 328 eP    00 29.60  -0.1
SRO    48.63 325 eP    00 32.70   1.3
ZST    49.52 325 eP    00 38.60   0.4
TRI    50.23 321 ePd   00 43.30  -0.4
KBA    51.13 322 e(P)  00 51.00   0.2
       1.3s     8.60nm           4.5mb
                 e     01 17.00
KSP    51.43 328 ePc   00 53.00   0.3
XAN    51.47  56 Pc    00 51.70  -1.6
PRU    51.91 326 eP    00 56.50   0.2
                 e     01 06.10
KHC    52.00 325 P     00 56.90  -0.3
BRG    52.70 327 e(P)  01 02.40   0.1
CLL    53.43 327 eP    01 09.00   1.3
       1.8s     26.00nm          4.9mb
GRF    53.62 324 e(P)  01 08.00  -1.1
NUR    54.30 341 eP    01 13.10  -0.8
LPG    54.62 318 eP    01 15.90  -1.0
       0.7s     5.50nm           4.7mb
LPL    54.64 318 ePg   01 16.00  -1.0
       0.7s     5.50nm           4.7mb
KAF    55.03 343 eP    01 19.40   0.1
       1.0s     9.50nm           4.8mb
TIY    55.06  52 Pc    01 19.00  -1.0
     Z 18s      0.80um           4.8Msz
HHC    55.18  48 eP    01 20.00  -0.8
CDF    55.40 321 eP    01 21.50  -0.8
       1.3s    14.45nm           4.8mb
WHN    55.42  61 P     01 21.50  -1.1
BSF    55.47 321 eP    01 21.70  -1.1
LBF    56.94 319 eP    01 32.80  -0.6
       0.9s     8.00nm           4.7mb
LOR    57.12 319 eP    01 33.80  -0.8
       0.7s     7.70nm           4.8mb
     Z 20s      0.10um           3.9Msz
SSF    57.27 319 eP    01 34.80  -0.8
       0.7s     5.50nm           4.7mb
AVF    57.28 318 eP    01 34.50  -1.2
BGF    57.54 318 eP    01 38.40   0.9
       0.7s     7.70nm           4.8mb
DOU    57.67 322 P     01 38.20  -0.1
HFS    58.04 336 eP    01 39.40  -1.4
       0.4s     2.00nm           4.5mb
     Z 18s      0.14um           4.1Msz
                 LR    27 17.00
BJI    58.41  50 eP    01 43.50  -0.1
NB2    59.57 336 P     01 46.40  -5.1X
       0.9s     2.90nm           4.4mb
LDF    60.08 320 eP    01 53.90  -1.2
       0.7s     6.60nm           4.9mb
TIC    62.02 271 P     02 08.60  -0.3
LIC    62.10 271 P     02 09.10  -0.3
LKO    62.12 275 P     02 09.08  -0.5
MBC    92.04 359 eP    04 57.50   2.1
YKA   105.63 356 ePKP   10 07.90  -2.3
       0.5s     0.20nm
TNP   130.09 355 PKP    10 59.00   1.0
     S.D. = 1.1  on  58 of  64 obs.
---------------------------------------
% FEB 18, 1991 22h 56m 59.32± 1.09s
  45.592 N ±18.6km   6.373 E ±10.4km
  DEPTH = 10.0km (geophysicist)
 FRANCE                          (538)
      ML 2.2 (LDG).

LPL     0.26 107 Pg    57 05.00   0.0
```

18d 22h

		Sg	57 10.10			
LPG	0.28 109	Pg	57 05.20	-0.2		
		Sg	57 10.50			
SMF	2.05 302	Pg	57 33.60	-0.7		
		Sg	57 57.60			
LBF	2.17 311	Pg	57 34.50	-1.5		
		Sg	58 02.00			
BSF	2.26 7	Pg	57 38.00	0.6		
		Sg	58 05.20			
BGF	2.64 293	Pg	57 44.40	1.7		
		Sg	58 17.50			
MAF	2.73 285	Pg	57 46.20	2.2X		
		Sg	58 20.30			

S.D. = 1.4 an 6 af 7 obs.

? FEB 18, 1991 23h 25m 30.02± 4.92s
36.125 N ±38.6km 15.171 E ±15.6km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MEU	0.99 349	P	25 48.60	-0.3		
		eSg	26 01.20			
FAI	1.66 314	Pd	25 58.80	-0.5		
		eSg	26 18.00			
MNO	1.84 348	P	26 02.20	0.1		
		eSn	26 24.00			
MCT	1.94 321	P	26 03.80	0.2		
ATN	2.04 6	P	26 05.00	0.1		
SOI	2.07 20	P	26 05.00	-0.2		
GIB	2.07 334	P	26 05.90	0.5		
		eSn	26 30.00			

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

FEB 18, 1991 23h 33m 08.68± 0.39s
51.695 N ± 8.6km 174.112 E ± 4.6km
DEPTH = 33.0km (normal)
4.8mb (30 abs.) 4.2Msz (4 obs.)
NEAR ISLANDS, ALEUTIAN ISLANDS (5)

SMY	1.04 360	eP	33 25.40	-1.5		
ADK	5.72 84	e(P)	34 33.00	-0.4		
PDB	19.43 53	eP	37 34.50	-0.4		
TTA	19.46 43	eP	37 36.00	0.8		
IMA	21.65 36	eP	37 56.70	-1.3		
FBA	23.53 41	e(P)	38 16.00	-0.2		
TOA	23.67 48	eP	38 18.00	0.3		
KLU	23.71 50	eP	38 14.20	-3.9X		
INK	29.79 36	eP	39 13.00	-1.0		
CN2	33.12 276	eP	39 41.00	-2.5		
Z	17s 1.10um			4.6MszX		
		pP	39 50.00	31kmX		
MBC	34.99 23	eP	39 58.00	-1.3		
	0.5s 3.00nm			4.5mb		
YKA	38.19 45	eP	40 27.50	1.1		
	0.7s 3.90nm			4.4mb		
EDM	42.47 58	eP	41 01.50	-0.3		
HHC	43.31 281	eP	41 09.00	0.0		
WDC	43.96 79	ePc	41 16.00	1.9		
BTO	44.40 282	P	41 18.00	0.2		
TIY	44.69 277	iPd	41 20.90	0.8		
Z	16s 0.60um			4.6MszX		
N	15s 0.80um					
ORV	45.22 79	e(P)	41 29.70	5.5X		
CMB	46.84 80	eP	41 37.40	0.3		
FFC	47.48 52	eP	41 40.00	-1.9		
	0.7s 4.00nm			4.5mb		
FRI	47.92 81	eP	41 45.10	-0.4		
WHN	48.23 268	Pd	41 47.50	-0.5		
		pP	41 55.00	25kmX		
CLC	49.98 80	eP	42 01.00	-0.5		
		e	42 12.00			
SBB	50.58 82	eP	42 06.00	-0.1		
		e	42 15.00			
GSC	50.80 80	eP	42 07.00	-0.8		
		e	42 16.00			
LZH	51.01 281	Pc	42 07.50	-1.9		
	2.0s 79.00nm			5.3mb		
Z	15s 0.53um			4.7MszX		
E	15s 0.40um					
		pP	42 18.00	36kmX		
GTA	51.29 287	P	42 11.00	-0.5		
	1.2s 10.00nm			4.7mb		
Z	20s 0.40um			4.4Msz		
		pP	42 22.00	38kmX		
TPC	52.06 81	eP	42 14.00	-3.3X		
		e	42 27.00			
PLM	52.06 82	eP	42 17.00	-0.5		
		e	42 28.00			
FRB	54.98 29	eP	42 37.00	-1.3		
ALO	57.31 74	eP	42 56.00	0.2		
SOD	58.76 346	eP	42 52.00	-13.2X		
SCH	62.42 35	eP	43 29.00	-1.3		
KAF	63.70 344	iP	43 36.90	-1.7		
	0.4s 11.50nm			5.3mb		
NUR	65.49 344	iP	43 49.00	-1.1		
	0.9s 32.00nm			5.4mb		
CHG	66.31 271	eP	43 55.90	-0.1		
CHTO	66.31 271	P	43 54.60	-1.4		
		e	44 04.50			
NB2	66.79 351	P	43 57.10	-1.4		
	0.7s 17.00nm			5.3mb		
HFS	67.41 350	eP	44 00.50	-1.9		
	0.4s 7.70nm			5.2mb		
EKA	73.32 358	Pd	44 38.10	-0.1		
	0.7s 12.40nm			5.0mb		
KSP	76.12 346	iPd	44 54.20	-0.2		
		e	45 16.50			
CLL	76.13 348	eP	44 53.00	-1.5		
BRG	76.43 347	eP	44 55.80	-0.4		
SPC	77.05 343	eP	45 00.50	0.6		
PRU	77.21 347	eP	45 01.00	0.5		
SNF	77.81 353	P	45 04.10	0.4		
KHC	78.19 347	P	45 06.70	0.8		
	1.0s 6.50nm			4.6mb		
DOU	78.20 353	P	45 06.30	0.4		
ZST	78.56 345	eP	45 08.80	0.9		
SRO	78.73 344	eP	45 09.10	0.3		
WRA	79.36 218	P	45 22.00	9.4X		
	0.9s 4.60nm			4.5mb		
CDF	79.64 351	eP	45 14.00	0.1		
	0.9s 6.55nm			4.6mb		
FLN	79.82 356	eP	45 14.60	-0.1		
	0.8s 18.80nm			5.1mb		
Z	20s 0.10um			4.2Msz		
HYB	79.91 285	eP	45 15.80	0.1		
LDF	79.97 356	eP	45 15.40	-0.1		
	0.9s 16.40nm			5.0mb		
FEL	80.10 351	eP	45 16.41	0.0		
HAU	80.13 352	eP	45 16.70	0.2		
	0.9s 6.55nm			4.6mb		
Z	20s 0.10um			4.2Msz		
GRR	80.20 357	eP	45 16.90	0.1		
	0.7s 8.80nm			4.9mb		
KBA	80.23 347	iPd	45 18.60	1.4		
	0.9s 22.30nm			5.2mb		
		i	45 49.60			
BSF	80.26 351	eP	45 17.20	-0.1		
	0.9s 6.55nm			4.6mb		
SQTA	80.38 348	iPd	45 18.50	0.6		
	1.0s 17.10nm			5.0mb		
PTJ	80.98 345	eP	45 21.60	0.5		
LOR	81.06 353	eP	45 21.60	0.2		
	0.9s 8.20nm			4.7mb		
Z	20s 0.10um			4.2Msz		
SSF	81.29 354	eP	45 23.00	0.4		
	0.7s 6.60nm			4.8mb		
CTI	81.47 348	P	45 25.00	1.3		
AVF	81.57 354	eP	45 24.90	0.9		
	0.9s 9.85nm			4.8mb		
SMF	81.68 353	eP	45 25.10	0.5		
	0.9s 8.20nm			4.7mb		
POO	81.83 289	iPd	45 25.50	-0.3		
MFF	81.96 356	eP	45 27.60	1.6		
	0.9s 8.20nm			4.8mb		
TCF	82.15 354	eP	45 27.80	0.7		
	0.7s 3.85nm			4.6mb		
MAF	82.19 354	eP	45 27.90	0.6		
	1.0s 10.00nm			4.8mb		
LPL	82.56 351	eP	45 30.70	1.2		
	1.0s 8.00nm			4.7mb		
LPG	82.58 351	eP	45 31.20	1.5		
	1.0s 13.00nm			5.0mb		
ASPA	82.91 217	eP	45 30.80	-0.4		
	2.0s 10.40nm			4.6mb		
BOB	83.01 349	P	45 32.80	1.2		
MME	83.42 348	P	45 35.50	1.5		
SFI	83.53 347	P	45 36.30	2.1		
GBA	83.54 284	P	45 35.00	0.4		
PGD	83.60 347	P	45 36.30	1.5		
FIR	83.76 348	e(P)	45 37.00	1.7		

S.D. = 1.0 an 75 af 80 abs.

• FEB 18, 1991 23h 33m 34.78± 0.77s
8.654 N ±15.3km 126.729 E ±13.9km
DEPTH = 34.0km (2 depth phases)
4.7mb (3 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

SSE	22.92 348	P	38 36.10	-0.8		
	1.0s 25.00nm			4.7mb		
KHT	28.20 285	eP	39 28.00	1.4		
CHTO	28.77 293	P	39 31.50	-0.3		
		e	39 41.00	33km		
QIS	31.67 157	iPd	39 57.00	-0.4		
		eS	45 16.00			
GUN	42.99 302	P	41 33.60	0.4		
PKI	43.28 301	P	41 35.20	-0.3		
KKN	43.45 301	P	41 36.80	0.0		
DMN	43.55 301	P	41 37.80	0.2		
GKN	44.06 302	P	41 40.80	-0.9		
HYB	47.63 286	eP	42 10.20	0.2		
INK	85.61 22	eP	46 11.50	0.7		
MBC	87.18 13	eP	46 20.00	1.6		
	0.8s 9.00nm			5.1mb		
		pP	46 31.00	35km		
HFS	93.68 333	ePKP	46 47.20	-1.8		
	0.5s 0.80nm			4.4mb		

S.D. = 1.0 on 13 af 13 obs.

? FEB 18, 1991 23h 38m 54.62± 2.27s
8.713 N ±38.6km 126.896 E ±27.5km
DEPTH = 33.0km (normal)
4.8mb (4 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

SSE	22.90 347	Pc	43 57.00	0.4		
	0.8s 14.00nm			4.5mb		
Z	16s 1.10um			4.4MszX		
		eS	47 44.00			
KHT	28.34 285	eP	44 48.00	0.2		
BJI	32.63 345	eP	45 25.00	-0.5		
QUE	59.74 300	eP	49 00.00	0.9		
INK	85.50 22	eP	51 42.70	12.5X		
MBC	87.09 13	eP	51 39.50	1.6		
	0.9s 13.00nm			5.2mb		
		pP	51 50.50	35kmX		
SLL	93.73 333	eP	52 06.90	-2.3		
	1.0s 8.80nm			5.1mb		
YKA	94.92 24	eP	52 14.40	-0.2		
	0.8s 0.80nm			4.2mb		

S.D. = 1.5 an 7 af 8 obs.

• FEB 19, 1991 00h 44m 50.92± 2.01s
38.008 N ±21.6km 20.791 E ± 8.6km
DEPTH = 23.8 ± 7.6 km
3.8mb (2 abs.)
GREECE (364)
ML 3.6 (ATH).

VLS	0.23 317	iPbc	44 56.00	-0.9		
EVR	1.21 41	ePn	45 14.50	2.0		
		eSn	45 35.20			
AGG	1.58 50	eP	45 18.50	0.8		
NEO	2.30 55	ePn	45 27.50	-0.6		
ATH	2.31 90	ePn	45 30.00	1.8		
KZN	2.42 18	ePb	45 33.00	3.2X		
LIT	2.47 32	eP	45 31.00	0.4		
FNA	2.81 9	eP	45 36.50	1.2		
OHR	3.10 0	ePn	45 41.00	1.5		
THE	3.12 32	eP	45 39.90	0.3		
PLG	3.14 40	ePn	45 38.50	-1.5		
LCI	3.20 317	P	45 47.00	6.1X		
		eSn	46 21.00			
SOH	3.44 34	eP	45 44.50	0.2		
KNT	3.55 27	eP	45 46.20	0.4		
VAY	3.58 22	ePn	45 47.00	0.7		
SRS	3.79 34	eP	45 49.00	-0.1		
BRT	3.99 317	P	45 52.00	-0.1		
SGO	4.96 303	P	46 08.10	2.3		
		eSn	47 01.60			
HFS	22.60 351	eP	49 48.70	-2.1		
	0.5s 2.00nm			3.9mb		
NB2	23.83 348	P	50 00.30	-2.5		
	0.7s 1.60nm			3.7mb		

S.D. = 1.5 an 18 af 20 abs.

FEB 19, 1991 01h 06m 14.58± 0.69s
44.439 N ± 9.0km 9.854 E ± 5.6km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.6 (LDG).

BOB	0.44	319	P	06	22.60	-0.9
			eSg	06	29.90	
BDI	0.65	125	P	06	27.40	-0.3
			eSg	06	37.90	
MME	0.66	112	P	06	28.20	0.4
PII	0.87	146	P	06	30.90	-0.3
			eSg	06	43.20	
CKI	1.13	270	P	06	35.00	-0.7
			eSn	06	49.80	
SBF	1.83	253	Pn	06	46.80	0.4
			Sn	07	09.20	
LPL	2.46	297	Pn	06	57.20	1.6
			Sn	07	28.00	
FRF	2.48	250	Pn	06	54.80	-0.8
			Sn	07	23.00	
LMR	2.66	247	Pn	06	58.40	0.2
			Sn	07	27.20	
LRG	2.71	250	Pn	06	59.40	0.5
			Sn	07	29.60	

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

FEB 19, 1991 01h 15m 12.53± 0.48s
43.216 N ± 4.8km 0.619 W ± 4.0km
DEPTH = 10.0km (geophysicist)
PYRENEES (378)
ML 2.5 (LDG).

OGE	0.12	114	Pg	15	14.96	-0.5
ESCF	0.14	167	Pg	15	16.24	0.4
ATE	0.14	205	Pg	15	16.54	0.6
			Sg	15	21.11	
MADF	0.16	245	Pg	15	16.25	0.0
			Sg	15	20.79	
ISSF	0.23	215	Pg	15	18.08	0.6
			Sg	15	23.50	
JAU	0.25	134	Pg	15	17.65	-0.4
ELYF	0.28	261	Pg	15	17.68	-0.7
LHE	0.30	180	Pg	15	19.12	0.2
BOH	0.31	249	Pg	15	18.56	-0.4
BTH	0.32	107	iPgd	15	19.80	0.7
			eS	15	23.80	
			iSg	15	25.90	
EPF	0.73	104	Pg	15	25.30	-1.5
			Sg	15	36.00	
LPO	1.96	41	Pg	15	45.20	-1.0
			Sg	16	09.00	
LFF	1.98	29	Pg	15	45.80	-0.6
			Sg	16	09.60	
CAF	2.58	48	Pg	15	56.20	1.1
			Sg	16	27.20	
RJF	2.59	36	Pg	15	56.80	1.6
			Sg	16	27.80	

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

FEB 19, 1991 01h 55m 24.16± 0.31s
32.358 S ± 7.5km 178.566 W ± 8.7km
DEPTH = 33.0km (normal)
5.3mb (7 obs.)
SOUTH OF KERMADEC ISLANDS (179)

RAO	3.15	10	P	56	08.00	-4.5X
			S	56	37.50	
HBZ	5.83	205	P	56	56.60	6.1X
PUZ	6.27	204	P	57	01.20	4.5X
			eS	58	16.50	
WLZ	7.27	220	eP	57	19.10	8.3X
NGZ	8.29	213	eP	57	29.00	3.8X
PGZ	9.23	205	eP	57	38.60	0.7
MNG	9.53	208	eP	57	44.20	2.0
MTW	9.99	207	eP	57	48.80	0.4
			eS	59	38.20	
WDW	10.28	208	eP	57	51.80	-0.6
MRW	10.37	209	eP	57	55.00	1.4
			S	59	51.00	
THZ	11.59	214	eP	58	09.20	-1.2
			eS	00	19.00	
KHZ	11.83	210	eP	58	11.20	-2.3
			eS	00	22.60	
LTZ	12.68	212	eP	58	24.00	-1.0
			eS	00	42.20	
DZM	16.80	304	iPc	59	21.40	2.9
COO	25.23	266	iPd	00	53.60	5.0X
	0.7s		19.00nm		4.8mb	
BRS	25.30	274	iP	00	53.20	3.9X
			i	01	07.00	57kmX
TOO	29.79	250	eP	01	34.00	3.9X
OIS	39.02	277	iPd	02	50.70	1.2
PMG	39.05	298	eP	02	48.00	-1.8
ASPA	42.56	269	iPc	03	19.20	0.5
	0.8s		114.80nm		5.7mb	
	Z 22s		0.40um		4.3Msz	
FORR	45.05	257	eP	03	40.00	1.3
	0.4s		37.00nm		5.6mb	
WARB	47.76	263	iPd	04	00.20	0.0
	0.4s		7.00nm		5.0mb	
KNA	50.36	276	eP	04	20.40	0.1
KLB	53.28	253	iPd	04	41.40	-0.6
	0.4s		22.00nm		5.5mb	
NWAO	53.28	251	eP	04	41.50	-0.5
MBL	55.47	265	iPd	04	57.20	-1.0
	0.4s		11.00nm		5.2mb	
NANU	58.49	262	eP	05	18.50	-1.1
PRS	86.79	43	eP	08	07.10	0.9
LLA	87.23	43	eP	08	07.00	-1.4
PLM	87.46	48	eP	08	10.00	0.2
SBB	87.76	46	eP	08	11.00	0.0
ISA	88.02	45	eP	08	13.00	0.7
FRI	88.20	43	eP	08	13.70	0.7
TPC	88.46	47	eP	08	14.00	-0.4
CMB	88.54	42	eP	08	14.80	0.1
GLA	88.55	49	eP	08	16.00	1.2
CLC	88.65	45	eP	08	16.20	0.7
GSC	88.79	46	eP	08	17.00	1.0
ORV	88.97	40	e(P)	08	16.90	0.2
WDC	89.14	39	ePc	08	17.50	0.1
TNP	90.40	44	P	08	23.90	0.3
			pP	08	36.40	41kmX
FBA	99.88	13	P	09	04.30	-1.7
YKA	107.41	26	ePKP	13	46.60	-1.5
	0.4s		0.60nm			
YKA	107.41	26	ePdiff	09	48.70	9.0X
	0.7s		0.30nm		4.5mb	
BUL	121.67	210	iPKPc	14	18.50	1.7
FRB	127.30	32	ePKP	14	25.00	-1.1
SCH	128.03	43	ePKP	14	27.00	-0.9
KEV	139.91	347	ePKP	14	46.00	-3.7X
SOD	141.95	344	iPKP	14	50.70	-2.8
KAF	146.21	339	iPKP	14	59.40	-1.5
	0.5s		23.70nm			
BCAO	147.93	214	iPKPd	15	06.00	0.9
	0.2s		100.00nm			
			ic	15	09.50	
			id	15	38.90	
NUR	147.96	338	iPKP	15	05.00	1.3
	0.3s		11.70nm			
UPP	150.46	343	iPKP	15	11.10	3.6X
NB2	150.60	350	PKP	15	11.60	3.8X
	0.7s		13.80nm			
HFS	151.05	347	ePKP	15	11.60	3.2X
	0.5s		25.70nm			
HRI	151.23	281	ePKP	15	15.00	5.3X
PRNI	151.33	275	ePKP	15	15.50	5.7X
RMN	151.68	275	ePKP	15	16.00	5.5X
LIC	153.31	166	PKP	15	15.02	1.9
KIC	153.50	166	PKP	15	15.00	1.6
BBTK	153.70	295	iPKPd	15	21.00	7.9X
TIC	153.72	165	PKP	15	15.52	1.8
LKO	156.39	162	PKP	15	16.98	-0.3
SPC	158.06	326	ePKP	15	16.60	-1.9
KSP	158.52	334	ePKP	15	18.70	0.0
			e	15	52.20	
			i	15	55.20	
CLL	159.24	339	ePKP	15	18.00	-1.5
			e	15	54.00	
BRG	159.32	337	ePKP	15	18.60	-1.0
	1.4s		16.00nm			
			e	16	13.40	
ZST	160.23	328	ePKP	15	20.50	-0.2
KHC	160.93	335	ePKP	15	22.00	0.6
			e	16	03.90	

S.D. = 1.3 on 52 of 69 obs.

FEB 19, 1991 03h 12m 13.20± 0.62s
43.837 N ± 4.2km 8.049 E ± 4.5km
DEPTH = 5.0km (geophysicist)
CORSICA (380)
ML 2.3 (GEN).

IMI	0.14	302	P	12	16.29	0.2
			S	12	17.52	
FIN	0.39	17	P	12	21.62	0.6
			S	12	26.44	
SBF	0.44	274	Pg	12	22.70	0.6
			Sg	12	27.80	
ROB	0.48	344	P	12	22.85	0.1
			S	12	28.28	
ENR	0.60	311	P	12	25.00	-0.2
			S	12	31.56	
STV	0.66	308	P	12	25.82	-0.6
			S	12	33.21	
PCP	0.79	27	P	12	29.41	0.4
			S	12	39.30	
PZZ	0.95	315	P	12	31.15	-0.8
			S	12	42.07	
FRF	1.05	255	Pg	12	34.00	0.5
			Sg	12	47.90	
BHB	1.15	331	P	12	34.74	-0.5
			S	12	47.84	
LMR	1.23	246	Pg	12	36.20	-0.3
			Sg	12	51.70	
LRG	1.28	253	Pg	12	38.00	0.6
			Sg	12	54.00	
PGF	1.46	151	Pn	12	39.80	-0.6
			Sn	12	57.60	
CDR	1.66	265	eP	12	44.50	1.4X
			e	13	06.10	

S.D. = 0.6 on 13 of 14 obs.

& FEB 19, 1991 03h 47m 28.80s
39.325 N 119.445 W
DEPTH = 1.0km
NEVADA (37)
<BRK>. ML 3.0 (BRK).

KVN	1.08	104	eP	47	48.50	-1.6
CMB	1.48	210	eP	47	55.60	-1.1
			eS	48	15.60	
ORV	1.61	279	eP	47	57.20	-1.2
BONR	1.63	146	eP	47	58.00	-1.1
MIN	1.95	302	ePc	48	03.75	0.2
TNP	2.14	125	eP	48	06.30	0.0
FRI	2.34	185	ePc	48	10.80	1.8
ARN	2.57	220	eP	48	15.00	2.7
WDC	2.69	299	e(P)	48	16.20	2.2
LBFM	2.75	318	eP	48	17.20	2.1

10 obs. ossocioted

% FEB 19, 1991 04h 46m 52.37± 1.03s
38.997 N ±10.3km 30.202 E ± 9.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ALT	0.09	309	iPg	46	54.70	-0.4
			iSg	46	57.70	
KHL	0.86	219	ePg	47	08.80	-0.1
			eSg	47	21.80	
DST	1.36	297	ePn	47	18.50	1.0
KCT	1.90	312	iPn	47	24.50	-0.6
BBTK	2.15	66	eP	47	29.00	0.1
			i	47	57.50	

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

• FEB 19, 1991 04h 53m 25.07± 1.32s
39.353 N ± 8.2km 20.445 E ±13.2km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)

LSK	0.80	8	iPgd	53	37.90	-2.8
			iSg	53	47.90	
EVR	1.15	112	eP	53	46.00	-0.6
VLS	1.18	174	eP	53	46.80	-0.3
			eS	54	05.50	
KZN	1.40	47	eP	53	50.00	-0.6
BERA	1.40	344	ePn	53	50.10	-0.5
AGG	1.50	102	eP	53	53.30	1.2
FNA	1.60	26	eP	53	53.00	-0.5
			eS	54	18.30	
LIT	1.74	64	eP	53	56.40	0.8
			eS	54	25.30	
OHR	1.78	9	iPn	53	58.50	2.4
			iSn	54	23.00	
			LQ	54	32.60	
			LR	54	36.60	
PHP	2.33	360	ePn	54	03.50	-0.5
LACI	2.35	346	ePn	54	00.90	-3.4X
VAY	2.55	39	iPn	54	07.60	0.5
KNT	2.61	45	eP	54	08.50	0.6
SOH	2.67	56	eP	54	06.60	-2.3
SKO	2.72	16	iPn	54	12.50	2.9
SRS	2.98	53	eP	54	13.20	-0.1

S.D. = 1.6 on 15 of 16 obs.

FEB 19, 1991 06h 14m 37.58± 0.70s
40.760 N ± 7.0km 15.277 E ± 8.5km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.20	173	Pc	14	40.70	-1.3
			eSg	14	45.50	
MGR	0.66	161	Pc	14	49.50	-1.2
			eSg	14	59.50	
DUI	1.09	326	P	14	59.80	1.7
			eSg	15	15.00	
ORI	1.13	127	P	15	01.00	2.2
			eSg	15	17.00	
BAI	1.26	73	P	15	00.50	-0.4
TDS	1.37	143	P	15	03.20	0.5
SDI	1.45	311	P	15	04.00	0.1
			eSn	15	24.50	
BRT	1.47	85	P	15	02.70	-1.4
			eSn	15	22.00	
AZI	1.85	312	P	15	08.00	-1.6
			eSg	15	33.00	
ATN	2.60	177	P	15	21.30	0.9
SOI	2.75	167	P	15	23.00	0.5
			eSn	15	55.00	

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

? FEB 19, 1991 06h 55m 12.45± 1.20s
40.722 N ±16.0km 21.540 E ±10.4km
DEPTH = 33.0km (normal)
GREECE (364)

OHR	0.68	305	iPg	55	25.70	0.0
			iSg	55	36.30	
GRG	0.69	70	ePd	55	25.28	-0.6
			eS	55	35.84	
LIT	0.95	130	iPd	55	29.58	0.0
			eS	55	43.32	
KNT	1.12	66	ePc	55	32.40	0.5
SRS	1.60	75	ePc	55	34.24	-4.6X

S.D. = 0.8 on 4 of 5 obs.

FEB 19, 1991 08h 12m 10.81± 1.32s
3.833 N ± 6.9km 95.499 E ± 5.5km
DEPTH = 48.9 ± 11.0 km
4.9mb (24 obs.) 4.1Msz (6 obs.)
OFF W COAST OF NORTHERN SUMATERA(705)

IPM	5.56	82	ePd	13	33.40	0.2
	0.9s	55.30nm			4.9mb	
			e	14	20.10	
			e	15	01.00	
SNG	6.08	57	eP	13	41.10	0.6
	0.9s	137.82nm			5.4mb	
NNT	9.66	25	eP	14	31.80	1.7
PCT	12.25	28	eP	15	12.00	6.8X
CHG	15.26	12	eP	15	49.00	4.2X
	1.0s	11.25nm			4.0mb	
KOD	18.98	291	eP	16	31.50	-0.1
GBA	20.30	300	P	16	44.00	-1.4
QIZ	20.60	42	eP	16	48.80	0.3
N	14s	0.90um				
E	13s	0.80um				
			eS	20	40.50	
HYB	21.41	310	ePc	16	56.70	0.0
	1.0s	70.00nm			5.0mb	
KMI	22.28	1B	Pc	17	08.80	3.2X
Z	18s	0.70um			4.1Msz	
			pP	17	17.00	29kmX
GYA	24.91	24	P	17	31.00	0.0
N	16s	0.90um				
E	16s	0.80um				
PKI	25.49	339	P	17	36.10	-0.6
DMN	25.64	338	P	17	37.96	0.0
GUN	25.64	340	P	17	38.24	0.1
	0.6s	63.00nm			5.3mb	
POO	25.72	306	eP	17	39.00	0.4
KKN	25.74	339	P	17	37.58	-1.3
	0.9s	37.00nm			4.9mb	
LSA	26.05	351	eP	17	42.10	0.1
GKN	26.17	338	P	17	42.56	-0.2
	1.0s	99.00nm			5.3mb	
CD2	28.04	15	iPd	17	58.30	-1.3
Z	13s	1.10um			4.6MszX	
XAN	32.55	21	Pd	18	38.00	-1.6
LZH	33.01	12	eP	18	44.00	0.3
	2.0s	36.00nm			4.9mb	
	Z	18s	0.53um		4.3Msz	
	N	10s	0.33um			
GTA		35.63	6 eP	19	04.60	-1.5
		1.0s	10.00nm		4.7mb	
	Z	24s	1.20um		4.6MszX	
	E	29s	3.80um			
TIY		37.11	23 eP	19	20.00	1.5
	Z	12s	0.70um		4.7MszX	
	N	12s	0.70um			
QUE		37.62	317 eP	19	23.30	0.3
BTO		38.87	18 eP	19	32.50	-0.8
	N	13s	0.60um			
	E	13s	0.60um			
HHC		39.59	19 P	19	40.00	0.7
WMO		40.42	351 P	19	45.40	-0.6
BJI		40.60	25 eP	19	48.50	1.1
		1.0s	18.00nm		4.8mb	
WB5		44.87	123 iPd	20	20.70	-1.9
SNY		45.41	30 eP	20	25.60	-0.8
Z	22s	0.60um			4.5Msz	
N	18s	0.60um				
E	16s	0.50um				
			S	27	06.00	
ASPA		46.34	128 iPc	20	32.70	-1.4
		0.6s	7.70nm		4.8mb	
CN2		47.79	29 eP	20	45.00	-0.3
MBH		62.71	302 eP	22	33.00	-0.5
PRNI		62.73	302 eP	22	33.50	0.0
BRS		63.31	123 iP	22	37.00	-0.4
			i	24	36.00	
BUL		69.80	247 iPd	23	19.30	0.5
		0.8s	7.09nm		4.7mb	
VRI		72.55	317 eP	23	32.50	-2.3
CVO		72.91	317 eP	23	32.00	-4.9X
MLR		73.00	316 eP	23	35.50	-2.1
OHR		75.97	311 eP	23	53.00	-1.7
BCAO		76.73	274 iPd	23	59.30	-0.1
		0.5s	8.00nm		5.0mb	
NUR		77.31	331 eP	23	55.00	-6.6X
SPC		77.48	319 eP	24	03.40	0.3
KRA		77.81	320 ePd	24	05.30	0.7
			e	24	12.90	
SOD		78.44	338 iP	24	08.00	0.2
SRO		78.57	318 iP	24	09.30	0.5
ZST		79.42	318 eP	24	13.70	0.2
PTJ		79.98	316 eP	24	15.20	-1.4
KSP		80.22	321 iPd	24	18.80	1.1
PRU		81.26	320 P	24	23.80	0.6
BRG		81.71	321 iP	24	26.10	0.6
		1.0s	20.00nm		5.1mb	
KHC		81.83	319 eP	24	27.20	1.0
KBA		81.86	317 e(P)	24	26.00	-0.6
		0.8s	7.10nm		4.7mb	
			i	24	28.50	
CLL		82.33	321 iPd	24	29.30	0.6
HFS		82.61	330 eP	24	29.70	-0.3
		0.6s	1.50nm		4.2mb	
MOX		83.17	320 eP	24	33.00	-0.1
NB2		83.89	331 P	24	36.10	-0.5
		1.0s	7.00nm		4.7mb	
CDF		85.98	318 eP	24	47.40	0.0
		0.7s	4.40nm		4.8mb	
BSF		86.32	318 eP	24	48.70	-0.4
LPG		86.41	315 eP	24	50.00	0.2
		0.7s	7.70nm		5.0mb	
LPL		86.43	315 eP	24	50.10	0.3
		0.8s	10.75nm		5.1mb	
HAU		86.61	318 eP	24	50.50	0.1
		0.7s	8.80nm		5.1mb	
Z	20s	0.08um			4.1Msz	
DOU		87.67	320 P	24	56.70	1.3
LBF		88.27	317 eP	24	58.80	0.4
LOR		88.33	317 eP	24	58.80	0.1
		0.8s	8.05nm		5.0mb	
Z	20s	0.08um			4.1Msz	
SMF		88.38	316 eP	24	59.30	0.4
SSF		88.58	317 eP	25	00.30	0.4
BGF		89.07	316 eP	25	02.20	0.0
MAF		89.29	316 eP	25	03.90	0.6
		0.8s	2.70nm		4.6mb	
LDF		90.87	319 eP	25	11.20	0.7
		0.8s	9.40nm		5.3mb	
FLN		91.09	319 eP	25	12.20	0.7
Z	22s	0.08um			4.1Msz	
MFF		91.12	317 eP	25	12.20	0.5
GRR		91.38	318 eP	25	13.60	0.7
LPF		91.55	318 eP	25	14.50	0.9
FFC	119.87	12	ePKP	30	57.00	-0.3
	0.7s	6.00nm				
BW06	128.36	23	PKP	31	12.50	-1.8
ALQ	136.25	26	ePKP	31	31.00	1.5
SIV	153.99	241	ePKP	32	01.00	1.9
CNCB	159.28	230	ePKP	32	08.00	1.6
			i	32	46.00	
LPB	159.54	231	ePKP	32	07.00	0.5
ZOBO	159.71	231	ePKP	32	07.00	0.1
	1.0s	3.75nm				

S.D. = 0.9 on 76 of 81 obs.

% FEB 19, 1991 08h 12m 18.36± 0.77s
42.815 N ± 6.8km 7.233 W ± 7.0km
DEPTH = 10.0km (geophysicist)
SPAIN (377)
mbLg 2.6 (MDD).

ERUA	0.43	171	iPgd	12	27.00	-0.1
			eSg	12	31.80	
EMON	0.62	354	ePg	12	31.00	0.0
			eSg	12	39.60	
STS	0.97	275	iPg	12	36.60	-0.2
			eSg	12	49.00	
EZAM	1.27	239	ePg	12	42.20	0.3
			eSg	12	58.00	
ECRI	3.49	92	ePn	13	13.80	0.0
			eSn	13	55.50	

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

? FEB 19, 1991 08h 18m 42.71± 1.66s
42.922 N ± 8.2km 12.911 E ±19.6km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

ASS	0.24	309	P	18	46.90	-0.9
			eSg	18	49.80	
MNS	0.56	198	P	18	54.20	0.0
			eSg	19	01.60	
ARV	0.58	2	P	18	54.10	-0.3
			eSg	19	02.80	
SFI	1.26	323	P	19	07.30	1.2
			eSn	19	24.00	

S.D. = 1.5 on 4 of 4 obs.

& FEB 19, 1991 08h 19m 20.82s
60.959 N 150.941 W
DEPTH = 8.2km
4.4mb (10 obs.)
KENAI PENINSULA, ALASKA (14)
<AEIC>. ML 4.3 (PMR). Felt (IV) at Anchorage and Hope, (III) at Sterling and (II) at Palmer.

NKA	0.26	214	iP	19	28.60	2.4
SUA	0.52	11	iP	19	31.54	0.3
SLKM	0.57	142	eP	19	31.59	-0.8
SPU	0.59	293	iP	19	32.20	-0.4
			eS	19	40.44	
CGLM	0.62	305	eP	19	33.20	-0.2
			eS	19	41.81	
CRP	0.67	298	eP	19	33.90	-0.4
CKL	0.72	290	iP	19	34.47	-0.8
PMS	0.73	66	iP	19	34.50	-0.9
NCG	0.74	308	iP	19	34.86	-0.7
BGL	0.77	294	eP	19	35.36	-0.7
RDT	0.82	242	iP	19	35.95	-0.9
PWA	0.86	36	iP	19	37.44	-0.1
NNL	0.94	191	iP	19	39.26	0.4
REF	0.99	242	iP	19	38.89	-0.9
RDN	1.00	244	iP	19	38.81	-1.2
RSO	1.02	242	iP	19	39.52	-0.9
RS2	1.02	242	iP	19	39.55	-0.9
RED	1.05	240	eP	19	39.76	-1.1
NCT	1.05	249	iP	19	39.88	-1.1
			eS	19	53.88	
SKT	1.06	345	iP	19	40.58	-0.5
PLRM	1.08	53	iP	19	39.75	-1.5
			eS	19	53.29	
PMR	1.08	53	iPc	19	40.30	-1.0
SEW	1.13	139	eP	19	40.90	-1.2
BRLK	1.20	179	iP	19	42.00	-1.4
GHO	1.27	49	eP	19	43.17	-1.4
KNK	1.29	68	iP	19	43.93	-0.9
HOM	1.35	195	eP	19	44.88	-1.0
CNPM	1.45	186	iP	19	45.96	-1.3
			eS	20	04.89	

CUT	1.49	12	iP	19	47.85	0.1
XLV	1.56	195	eP	19	47.50	-1.3
			eS	20	09.00	
KNIM	1.69	110	iP	19	50.02	-0.8
LTI	1.78	120	iP	19	52.35	0.3
GLI	1.88	91	eP	19	52.94	-0.6
			eS	20	18.38	
MTU	1.90	119	eP	19	53.10	-0.7
			eS	20	19.48	
PDB	2.00	235	iP	19	54.85	-0.3
			eS	20	21.46	
AUE	2.01	218	eP	19	55.04	-0.4
AUH	2.03	219	eP	19	55.19	-0.6
AUI	2.05	218	eP	19	55.07	-0.9
HUR	2.12	16	eP	19	58.07	1.1
VZW	2.14	85	eP	19	56.77	-0.5
VLZ	2.25	84	iP	19	58.82	0.0
			eS	20	27.57	
SVW	2.28	276	iPd	19	59.10	-0.3
CDD	2.45	215	iP	20	01.35	-0.3
MCNL	2.46	225	iP	20	01.62	-0.3
SYI	2.47	198	eP	20	02.91	1.0
KLU	2.49	75	iP	20	02.35	0.1
TRF	2.52	7	eP	20	03.92	1.1
TOA	2.56	61	iPc	20	04.90	1.6
RND	2.64	21	eP	20	05.64	1.1
MID	2.76	122	e(P)	20	05.00	-1.2
			e	20	12.50	
TZL	2.86	65	iP	20	08.01	0.5
MCK	2.94	18	eP	20	09.77	1.1
SDG	3.01	56	eP	20	10.21	0.5
TTA	3.11	312	eP	20	11.10	0.0
PAX	3.28	50	eP	20	14.43	0.9
BWN	3.30	11	eP	20	14.69	1.0
GLB	3.48	79	iP	20	15.82	-0.6
NEA	3.73	12	eP	20	19.95	0.0
WRH	3.76	19	eP	20	20.21	-0.1
HDA	3.92	26	eP	20	23.45	0.9
CCB	3.97	20	eP	20	22.57	-0.7
TGL	3.97	89	iP	20	21.68	-1.7
RDS	4.09	17	eP	20	24.25	-0.7
BALM	4.19	85	iP	20	24.95	-1.5
DOT	4.19	47	eP	20	26.76	0.3
MDM	4.20	16	eP	20	26.69	0.1
FBA	4.21	19	eP	20	27.30	0.7
GLM	4.36	20	eP	20	28.52	-0.3
TMW	4.42	54	eP	20	29.35	-0.3
CTGM	4.68	86	eP	20	32.07	-1.5
IMA	5.27	348	ePc	20	41.40	-0.5
ANM	7.54	305	eP	21	12.30	-1.3
SDN	7.56	226	e(P)	21	15.00	1.1
INK	10.46	38	P	21	53.00	-0.9
	0.6s		2.60nm			4.8mb
YKA	17.14	69	eP	23	22.00	0.2
	0.8s		8.70nm			3.9mb
MBC	18.74	23	eP	23	39.50	-2.0
	0.7s		4.00nm			3.7mb
EDM	21.58	94	eP	24	11.50	-1.0
BMW	21.66	119	eP	24	13.30	-0.1
NEW	23.03	108	eP	24	27.60	0.6
	0.8s		8.85nm			4.3mb
FFC	26.25	82	eP	24	56.50	-1.2
	0.6s		5.00nm			4.4mb
KVN	29.90	122	eP	25	30.20	-0.9
BW06	30.66	107	eP	25	36.20	-1.6
BONR	30.75	123	eP	25	38.60	-0.1
TNP	31.09	122	eP	25	40.80	-0.8
	0.8s		7.01nm			4.6mb
RSSD	32.26	100	eP	25	50.20	-1.6
	0.8s		7.01nm			4.6mb
MSU	32.89	115	eP	25	57.00	-0.3
FRB	35.85	49	eP	26	21.00	-1.2
KEV	49.57	1	eP	28	19.00	5.6
SOD	51.96	1	eP	28	36.00	4.4
NB2	57.56	10	P	29	09.00	-3.6
	0.7s		1.60nm			4.2mb
HFS	58.65	9	eP	29	16.20	-4.0
	0.4s		1.00nm			4.3mb
LZH	65.91	301	eP	30	12.20	3.0
	1.0s		23.00nm			5.3mb
			pP	30	28.50	60kmX
	92 abs. associated					

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* FEB 19, 1991 08h 40m 47.13± 0.87s
40.719 N ± 9.6km 15.248 E ±12.6km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.17	164	Pc	40	49.70	-1.2
			eSg	40	52.70	
MGR	0.63	158	P	40	59.00	-0.7
			eSn	41	08.00	
DUI	1.11	328	P	41	09.10	1.0
			eSn	41	27.00	
ORI	1.13	125	P	41	10.00	1.7
			eSn	41	23.00	
TDS	1.35	141	P	41	13.30	1.4
SDI	1.46	313	P	41	13.00	-0.6
BRT	1.49	83	P	41	12.20	-1.8
			eSn	41	30.50	
HVAR	2.62	20	e(Pn)	41	35.50	5.4X
SOI	2.72	166	P	41	31.80	0.2
	S.D. = 1.5 on 8 of 9 obs.					

FEB 19, 1991 10h 49m 22.54± 0.95s
26.057 N ± 5.2km 127.453 E ± 4.3km
DEPTH = 28.7 ± 6.7 km
5.1mb (24 obs.) 4.4Msz (2 obs.)
RYUKYU ISLANDS (238)
Felt (III JMA) at Naha and (I
JMA) at Nago and on Kume-shima.

NAH	0.26	52	iP	49	28.00	-1.4
			iS	49	31.70	
KAGJ	5.94	30	eP	50	50.60	-0.2
			eS	52	00.00	
KUMJ	7.10	24	eP	51	07.20	0.1
SSE	7.45	314	P	51	13.80	1.7
	1.0s		27.00nm			5.3mb
Z	16s		0.44um			4.8Msz
N	10s		0.50um			
E	10s		0.70um			
			pP	51	20.50	
NJ2	9.60	310	Pc	51	42.50	0.6
Z	15s		1.10um			
N	14s		1.20um			
E	14s		1.60um			
BAG	11.54	215	eP	52	08.60	0.0
WHN	12.38	294	eP	52	21.50	1.8
Z	16s		0.70um			
N	11s		0.80um			
E	10s		0.80um			
MAT	13.91	39	eP	52	48.00	8.0X
	2.0s		147.06nm			5.4mb
SNY	16.05	349	eP	53	08.70	0.9
Z	14s		1.80um			
N	15s		1.20um			
BJI	16.83	329	eP	53	19.00	1.5
	1.5s		39.00nm			4.3mb
Z	16s		0.58um			4.4Msz
			eS	56	28.00	
TIY	17.23	316	eP	53	24.00	1.3
Z	12s		1.30um			
N	10s		0.60um			
CN2	17.78	355	eP	53	30.60	1.1
Z	18s		1.50um			
N	10s		0.60um			
E	10s		0.50um			
			epP	53	37.00	
			eS	56	49.00	
XAN	17.89	301	P	53	31.20	0.2
GYA	18.65	276	P	53	41.80	1.3
N	14s		1.00um			
E	14s		1.10um			
HHC	19.79	322	Pd	53	53.70	0.2
BTO	20.50	319	eP	54	02.00	1.0
Z	13s		1.10um			4.4MszX
N	13s		0.60um			
GUA	20.58	124	eP	54	03.00	1.1
	1.4s		465.12nm			5.7mb
CD2	21.37	289	P	54	08.40	-1.5
Z	15s		1.50um			4.5MszX
LZH	22.51	302	iPc	54	19.00	-2.4
	1.4s		41.00nm			4.7mb
Z	16s		0.92um			4.3MszX
E	13s		0.59um			
GTA	26.67	307	eP	54	58.40	-2.6
	0.8s		10.00nm			4.5mb
Z	18s		0.90um			4.4Msz
N	13s		0.70um			
CHG	27.28	261	ePd	55	06.80	0.2
	0.9s		17.86nm			4.7mb
			e	04	03.10	
WMQ	36.68	309	P	56	28.00	-0.8
Z	16s		0.60um			4.5MszX

GUN	36.97	282	P	56	31.60	-0.1
PKI	37.43	282	P	56	34.80	-0.7
KKN	37.51	282	P	56	35.60	-0.5
DMN	37.69	282	P	56	36.40	-1.2
GKN	38.05	283	P	56	39.60	-0.9
HYB	46.01	269	eP	57	46.00	0.5
WB5	46.15	171	eP	57	46.70	0.2
WRA	46.21	171	P	57	47.00	0.1
	0.7s		9.90nm			4.9mb
QIS	47.81	165	iPc	57	59.00	-0.6
GBA	48.39	265	P	58	04.00	-0.2
KOD	49.73	261	eP	58	15.50	0.6
ASPA	49.82	172	P	58	16.00	0.9
POO	49.88	273	iPc	58	14.60	-1.1
QUE	52.98	289	eP	58	38.20	-1.0
RND	64.24	30	P	59	55.50	-1.5
FBA	64.52	28	P	59	58.70	0.0
INK	69.32	23	ePd	00	28.00	-1.0
KEV	69.34	339	eP	00	26.00	-3.1X
MBC	70.16	14	eP	00	33.00	-1.0
	0.9s		15.00nm			5.1mb
SOD	70.28	336	iP	00	33.60	-1.2
KAF	72.31	331	iP	00	45.60	-1.5
	0.7s		10.90nm			5.0mb
NUR	73.68	330	eP	00	54.00	-1.1
	0.6s		11.50nm			5.1mb
UPP	77.10	331	iP	01	13.80	-0.8
HFS	78.65	332	eP	01	21.70	-1.4
	0.4s		1.80nm			4.4mb
Z	16s		0.22um			4.6MszX
			LR	34	16.00	
VRI	78.72	316	eP	01	24.50	0.7
YKA	78.98	25	eP	01	23.70	-1.2
	0.8s		6.80nm			4.7mb
CVO	79.09	316	eP	01	26.00	0.1
NB2	79.16	334	P	01	24.60	-1.4
	1.0s		21.60nm			5.1mb
MLR	79.38	315	eP	01	27.50	-0.1
KRA	80.82	321	iPc	01	35.00	0.0
	0.4s		34.00nm			5.7mb
			e	01	52.00	
VAY	83.49	313	eP	01	48.80	-0.2
BRG	83.65	324	iP	01	51.20	1.6
	1.2s		22.00nm			5.2mb
PRU	83.82	323	eP	01	51.50	1.0
CLL	83.89	325	iPc	01	50.90	0.1
	1.7s		32.00nm			5.2mb
OHR	84.76	313	eP	01	55.00	-0.5
KHC	84.82	323	Pc	01	56.50	0.9
MOX	84.99	325	eP	01	57.00	0.6
GRF	85.76	324	ePd	02	00.90	0.6
	1.6s		54.00nm			5.5mb
Z	19s		0.20um			4.5Msz
BHG	86.01	322	iPc	02	02.60	1.0
	0.8s		18.00nm			5.4mb
NEW	86.16	37	P	02	02.80	0.4
	0.6s		11.02nm			5.3mb
WDC	87.21	46	ePc	02	09.50	1.9
DOU	88.86	327	P	02	14.90	-0.4
FFC	89.06	26	iPd	02	16.00	-0.1
	0.8s		12.00nm			5.3mb
FRB	89.61	7	eP	02	18.00	-0.6
CMB	89.99	47	eP	02	19.20	-1.7
LRM	90.18	37	eP	02	22.20	0.3
TNP	92.03	46	P	02	31.30	0.8
	0.8s		6.32nm			5.1mb
ISA	92.59	48	eP	02	30.00	-3.0X
CLC	93.09	48	eP	02	36.00	0.8
SBB	93.58	49	eP	02	38.00	0.5
BW06	93.73	38	P	02	38.80	0.5
	1.0s		5.33nm			4.9mb
GSC	93.91	48	eP	02	40.00	0.9
RSSD	95.76	35	P	02	47.70	0.1
	1.3s		11.82nm			5.2mb
PV09	96.77	41	P	02	52.50	0.1
ZOBO	162.53	59	ePKP	09	26.00	2.2
	1.1s		2.90nm			
	S.D. = 1.1 on 74 of 77 obs.					

% FEB 19, 1991 10h 55m 46.42± 3.00s
39.215 N ±19.3km 23.528 E ±19.3km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
MD 2.6 (THE).

PAIG	0.72	9	iPc	56	01.03	0.4
			eS	56	11.39	

19d 10h

AGG	0.95	259	eP	56	04.50	-0.1
			eS	56	19.10	
LIT	1.19	318	ePc	56	08.51	-0.2
			eS	56	26.12	
THE	1.48	343	iPc	56	13.46	0.4
SOH	1.61	355	eP	56	14.40	-0.6
GRG	1.94	334	ePc	56	19.10	-0.7
			eS	56	42.76	
KNT	2.00	346	ePc	56	20.57	-0.1
FNA	2.28	314	eP	56	25.50	0.8

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

FEB 19, 1991 12h 27m 58.53± 0.75s
47.469 N ± 6.3km 7.269 E ± 5.5km
DEPTH = 10.0km (geophysicist)
SWITZERLAND (544)
ML 2.7 (LDG). MD 2.1 (STR).

BBS	0.16	92	Pg	28	01.75	-0.6
			Sg	28	05.87	
LOMF	0.32	249	Pg	28	03.06	-2.2
MOF	0.39	347	Pg	28	07.13	0.5
BSF	0.49	319	Pg	28	07.70	-0.7
			Sg	28	16.40	
FEL	0.65	51	ePg	28	11.05	-0.5
ECH	0.75	354	Pg	28	13.40	0.2
			Sg	28	25.92	
HAU	0.82	311	Pg	28	13.00	-1.4
			Sg	28	24.80	
CDF	0.94	0	Pg	28	17.06	0.5
WLS	0.95	3	Pg	28	17.38	0.8
			Sg	28	32.33	
VITF	1.14	311	Pg	28	19.27	-0.6
LBF	2.29	259	Pg	28	36.80	-0.3
			Sg	29	03.40	
LOR	2.33	266	Pg	28	38.00	0.5
			Sg	29	06.20	
SMF	2.48	252	Pg	28	40.00	0.3
			Sg	29	08.60	
SSF	2.59	262	Pg	28	42.60	1.4
AVF	2.76	257	Pg	28	45.60	2.0

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

FEB 19, 1991 13h 16m 29.95± 0.15s
1.562 N ± 3.1km 127.093 E ± 4.1km
DEPTH = 129.9km (5 depth phases)
5.6mb (42 obs.)
HALMAHERA (267)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 30C
Centroid Location:
Origin Time 13:16:34.2 0.5
Lat 1.75N 0.06 Lon 127.10E 0.06
Dep 129.5 2.4 Half-duration 2.5
Moment Tensor; Scale 10**17 Nm
Mrr= 0.45 0.12 Mtt= 1.27 0.14
Mff=-1.73 0.17 Mrt=-1.05 0.09
Mrf=-2.36 0.10 Mtf= 0.29 0.17
Principal Axes:

	Val=	Plg=	Azm=
T	2.72	44	145
N	0.55	27	25
P	-3.26	33	275

Best Double Couple:Mo=3.0**17
NP1:Strike=309 Dip=28 Slip= 13
NP2: 208 84 117

DAV	5.69	345	eP	17	51.20	-2.3
TSM	9.39	287	ePc	18	47.20	3.8X
			e	25	49.00	
KKM	11.73	293	ePc	19	14.00	-0.5
	1.0s	195.30nm			5.7mb	
QCP	14.29	336	eP	19	46.00	-1.5
MTN	14.87	164	eP	19	54.00	-0.8
BAG	16.09	337	eP	20	09.00	-1.3
			eS	23	08.00	
KNA	17.28	175	eP	20	24.10	-0.7
	0.7s	533.00nm			5.9mb	
MNDI	18.23	115	eP	20	37.00	0.7
PJG	21.26	55	eP	21	05.80	-1.5
GUA	21.27	55	eP	21	06.20	-1.2
	0.3s	332.47nm			6.2mb	
			pP	21	09.80	13kmX
WB2	22.53	162	iPc	21	19.00	-0.7
			eS	25	15.00	
PMG	22.76	119	eP	21	22.00	0.0
MBL	23.67	197	eP	21	32.00	1.2
	0.5s	34.00nm			5.1mb	
QIZ	24.23	317	iPd	21	36.00	-0.1
	1.1s	400.00nm			5.8mb	
N	13s	1.60um				
E	14s	1.00um				
			S	25	35.50	
QZH	24.65	341	eP	21	42.00	2.0
Z	22s	7.80um			5.2Msz	
			S	25	50.00	
QIS	25.17	151	iPc	21	45.00	0.1
			iS	26	09.00	
GZH	25.22	329	eP	21	44.00	-1.3
E	10s	0.80um				
			S	25	58.00	
RAB	25.70	103	e(P)	21	48.00	-1.9
ASPA	25.94	166	P	21	51.70	-0.3
IPM	26.20	277	ePd	21	54.30	-0.2
	1.2s	135.30nm			5.4mb	
NANU	26.50	205	eP	21	58.00	0.9
SNG	26.97	283	eP	22	01.50	0.0
	1.3s	288.46nm			5.7mb	
			e	25	53.80	
WARB	27.59	181	eP	22	07.10	0.2
	0.3s	9.00nm			4.9mb	
PCT	28.52	299	iPd	22	15.50	0.1
CTA	28.57	140	iPc	22	16.30	0.5
	1.2s	223.44nm			5.7mb	
			iS	27	42.00	
MEKA	29.20	196	iPc	22	21.30	-0.2
NNT	29.24	293	iPd	22	20.80	-1.1
LOE	29.49	304	iPd	22	22.50	-1.6
SSE	29.90	350	Pc	22	30.60	3.1X
	1.0s	15.00nm			4.7mb	
Z	20s	0.90um			4.4Msz	
E	12s	0.60um				
			pP	23	00.10	138km
			S	27	10.00	
NST	30.05	299	iPc	22	29.50	0.5
KHT	31.06	297	iPd	22	37.80	-0.1
WHN	31.25	338	ePd	22	39.70	0.3
	1.5s	100.00nm			5.3mb	
			iS	27	39.00	
NJ2	31.31	346	Pc	22	41.50	1.7
			S	27	37.00	
GYA	31.60	323	iPd	22	42.60	0.0
	1.6s	100.00nm			5.3mb	
			pP	23	07.00	110kmX
			PcP	25	32.60	
			S	27	41.00	
			ScP	29	05.00	
			PcS	29	13.00	
			ScS	33	01.00	
FORR	32.25	178	eP	22	47.00	-1.0
	0.4s	43.00nm			5.6mb	
MRWA	32.40	198	eP	22	50.00	0.6
CHG	32.48	304	iPd	22	50.10	-0.2
	1.4s	209.88nm			5.7mb	
QLP	32.51	151	iPc	22	49.80	-0.6
COOL	32.76	189	eP	22	52.00	-0.6
KMI	33.18	317	Pd	22	57.00	0.5
	2.0s	430.00nm			5.9mb	
Z	20s	0.70um			4.4Msz	
BAL	33.49	196	eP	22	59.30	0.5
KLB	34.14	194	eP	23	04.00	-0.5
	0.3s	26.00nm			5.5mb	
VSG	34.23	109	eP	23	03.00	-2.4
RMQ	34.85	145	ePc	23	09.00	-1.6
			i	24	34.90	477kmX
			e	29	17.00	
MUN	34.92	196	eP	23	11.50	0.4
TIA	35.69	346	eP	23	17.90	0.3
MAT	36.29	15	iPc	23	20.70	-1.9
	1.0s	47.00nm			5.3mb	
XAN	36.51	334	iPd	23	23.90	-0.6
	1.4s	200.00nm			5.7mb	
N	10s	0.70um				
E	10s	0.70um				
			pP	23	48.00	103kmX
			S	28	57.00	
			sS	29	40.00	
CD2	36.61	325	Pd	23	25.00	-0.4
	1.4s	100.00nm			5.4mb	
CMS	37.37	153	iPc	23	32.20	0.5
			i	25	00.40	467kmX
			e	26	16.00	
			e	29	26.00	
ADE	37.93	164	iPc	23	37.30	0.8
BRS	37.94	141	iPc	23	36.10	-0.5
			i	24	03.50	121km
			i	25	07.50	
YAMJ	38.32	17	P	23	39.90	0.3
TIY	38.42	341	iPd	23	40.80	0.3
Z	20s	0.80um			4.5Msz	
N	18s	1.20um				
			S	29	26.00	
BJI	39.56	347	eP	23	50.00	0.2
	1.5s	78.00nm			5.3mb	
			pP	24	20.00	134km
			eS	29	40.00	
			eSS	32	32.00	
			eScS	33	46.00	
OFUJ	39.64	18	P	23	50.80	0.3
COO	39.74	146	iPc	23	52.00	0.5
	0.8s	120.00nm			5.7mb	
			i	25	22.50	492kmX
SNY	40.21	356	Pc	23	55.30	0.2
	1.0s	100.00nm			5.5mb	
Z	20s	0.50um			4.4Msz	
E	16s	1.10um				
			S	29	50.00	
LZH	40.55	331	iPd	23	58.00	-0.2
	1.5s	380.00nm			5.9mb	
Z	25s	0.78um			4.5MszX	
E	10s	0.43um				
			pP	24	28.00	134km
			sP	24	40.00	
			PcP	26	00.00	
			ScP	29	36.50	
			S	29	53.00	
			sS	30	52.00	
			ScS	33	49.00	
BFD	41.12	161	iPc	24	03.20	0.5
	1.1s	128.00nm			5.5mb	
			e	25	42.00	552kmX
HHC	41.56	342	P	24	06.50	0.1
BTO	41.83	340	P	24	09.00	0.5
			S	30	16.50	
CN2	42.08	358	P	24	10.00	-0.4
Z	15s	1.00um			4.8MszX	
			eS	30	16.00	
TOO	42.50	158	ePc	24	16.00	2.0
MDJ	42.93	3	iPd	24	18.90	1
	1.2s	100.00nm			5.4mb	
LSA	44.15	313	Pd	24	29.20	1.1
BKM	44.81	117	iP	24	34.50	1.7
PVC	44.89	117	iPd	24	34.70	1.2
DZM	45.02	124	iPc	24	35.00	0.5
GTA	45.14	330	iPd	24	35.80	0.5
	1.4s	170.00nm			5.6mb	
Z	24s	0.60um			4.4MszX	
E	20s	1.20um				
			pP	25	04.00	123km
			ScP	29	56.20	
			PcS	30	10.20	
			S	31	03.00	
			ScS	34	18.50	
GUN	47.30	308	Pd	24	52.82	0.0
PKI	47.53	307	Pd	24	54.12	-0.5
KKN	47.73	307	Pd	24	55.64	-0.4
	1.3s	439.00nm			6.1mb	
DMN	47.79	307	Pd	24	56.26	-0.3
	1.3s	518.00nm			6.1mb	
GKN	48.33	307	Pd	25	00.18	-0.4
	1.3s	468.00nm			6.1mb	
KOD	50.05	282	eP	25	13.30	-0.7
HYB	50.21	291	iPd	25	14.50	-0.4
	0.8s	210.50nm			6.0mb	
GBA	50.54	286	P	25	16.70	-0.7
NDI	54.62	305	iPd	25	41.00	-6.6X
			eS	33	17.00	
WMQ	54.70	326	iPd	25	47.80	-0.2
	1.5s	100.00nm			5.5mb	
			iS	33	20.00	
			ScS	35	21.00	
POO	54.82	292	iPd	25	46.80	-2.4
	1.2s	128.13nm			5.7mb	
MSZ	58.62	147	P	26	16.10	0.6
WLZ	59.47	137	P	26	21.90	0.3
THZ	59.78	142	P	26	22.40	-1.3
KSH	59.80	316	iPd	26	25.00	1.0
			epP	26	59.00	143kmX
			iS	34	30.00	
LTZ	59.97	143	P	26	24.50	-0.4
TCW	60.34	140	P	26	26.20	-1.2

KHZ 60.54 142 P 26 27.70 -1.0
MRW 60.63 140 P 26 27.40 -1.9
WEL 60.70 140 Pd 26 28.00 -1.8
1.0s •••••••nm 8.0mb X
WDW 60.83 140 P 26 29.00 -1.7
NOZ 61.54 136 P 26 34.80 -0.7
QUE 63.61 303 iPd 26 50.00 0.3
eS 35 15.00
SDN 78.77 34 ePc 28 20.00 0.6
TAB 81.77 308 eP 28 37.00 1.1
SVW 82.50 29 eP 28 40.50 1.4
1.0s 220.00nm 5.9mb
TTA 82.66 27 eP 28 41.90 1.9
RSO 83.79 29 P 28 46.20 0.3
IMA 84.21 24 eP 28 49.40 1.6
1.3s 92.20nm 5.5mb
SLKM 85.04 30 P 28 51.90 0.0
PMR 85.66 28 eP 28 55.90 1.0
1.1s 152.50nm 5.8mb
RND 85.94 27 P 28 56.00 -0.4
FBA 86.51 25 e(P) 28 58.10 -1.0
1.0s 11.50nm 4.8mb
TOA 87.09 28 eP 29 03.20 1.2
BALM 88.92 29 P 29 11.50 0.7
KVT 89.78 311 eP 29 10.00 -5.2X
SPA 91.55 180 iPc 29 23.80 0.8
1.2s 59.86nm 5.7mb
i 39 45.50
INK 92.03 22 ePc 29 24.50 -0.4
1.1s 41.00nm 5.6mb
KEV 92.04 340 eP 29 32.00 7.1X
SOD 92.60 338 iP 29 36.70 9.1X
KAF 93.67 332 eP 29 33.00 0.4
MBC 93.97 13 eP 29 34.00 0.2
1.3s 17.00nm 5.2mb
PTZ 95.96 256 eP 29 49.00 4.9X
i 33 31.00
i 33 44.00
VRI 96.10 316 eP 29 49.00 4.9X
e 56 32.50
ISR 96.34 316 eP 29 49.00 3.8X
MLR 96.70 316 eP 29 47.00 0.0
e 55 07.00
e 56 49.00
LSZ 99.00 255 eP 29 56.00 -1.8
i 34 08.80
DAG 99.45 352 iPd 29 57.80 -0.9
0.7s 10.96nm 5.5mb
KRA 99.75 321 eP 30 06.60 6.1X
e 30 19.10 41kmX
VAY 99.85 312 eP 30 04.70 3.6X
SLL 100.14 333 ePdiff30 11.50 9.5X
0.6s 4.50nm 5.2mb
OHR 101.20 312 ePdiff30 07.00 -0.2
YKA 101.31 25 ePdiff30 06.30 -0.8
1.3s 5.40nm 5.0mb
KSP 101.78 323 ePdiff30 17.40 7.9X
e 34 23.00
BRG 103.18 323 ePdiff30 23.50 7.8X
NEW 105.69 39 PKP 34 51.50 11.9X
0.8s 9.17nm
BW06 112.72 42 PKP 34 53.70 0.4
PV09 114.79 46 PKP 34 58.00 0.4
RSSD 115.66 38 PKP 34 57.70 -1.2
ALQ 118.19 49 ePKP 35 04.00 0.0
SCH 122.66 9 ePKP 35 13.00 1.4
KIC 131.28 280 PKP 35 30.84 1.5
TIC 131.51 280 PKP 35 31.18 1.3
LIC 131.58 280 PKP 35 31.38 1.4
LKO 131.60 284 PKP 35 31.12 1.1
LNV 143.42 154 ePKP 35 48.00 -3.1X
SAN 144.17 154 ePKPd 35 52.00 -0.5
PEL 144.43 154 iPKPc 35 52.50 -0.5
1.3s 538.46nm
ROCH 144.43 153 ePKP 35 53.00 -0.2
FCH 144.44 155 ePKP 35 51.60 -1.8
JACH 144.86 154 ePKP 35 54.50 0.7
UPA 151.47 68 (PKP) 36 10.50 5.9X
NNA 154.10 115 ePKP 36 09.50 1.2
CNCB 158.80 136 PKPc 36 17.20 2.4
i 36 53.00
LPB 158.90 136 PKP 36 16.30 1.5
e 36 52.00
ZOBO 159.06 135 PKPc 36 17.10 1.9
i 36 54.70
LR 31 50.00
PPD 159.60 184 ePKP 36 17.50 2.6X

e 36 55.10
SIV 163.56 151 PKP 36 20.20 1.1
i 37 12.30
SOB1 165.84 237 ePKP 36 22.30 1.2
e 36 56.30
S.D. = 1.0 on 131 of 149 obs.

FEB 19, 1991 14h 00m 07.33± 0.43s
39.408 N ± 3.6km 20.788 E ± 3.7km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
ML 3.5 (ATH). MD 3.2 (THE).

IGT 0.37 290 ePc 00 14.88 -0.1
eS 00 21.40
LSK 0.75 349 ePg 00 20.80 -1.3
SRN 0.77 308 ePg 00 22.00 -0.3
iSg 00 32.20
EVR 0.93 121 iPgd 00 24.10 -1.1
KZN 1.17 40 ePb 00 28.30 -1.0
eSb 00 47.20
VLS 1.24 187 ePb 00 30.50 0.1
AGG 1.26 107 eP 00 30.70 0.0
eS 00 50.70
FNA 1.45 18 eP 00 33.70 0.1
LIT 1.48 62 ePd 00 34.01 -0.1
eS 00 54.96
OHR 1.70 0 iPnc 00 38.60 1.4
iSn 01 01.00
LQ 01 08.90
LR 01 10.40
NEO 1.89 92 ePb 00 40.00 0.0
GRG 1.98 38 ePd 00 41.28 0.0
eS 01 08.64
TIR 2.06 340 ePn 00 42.50 0.1
iSn 01 08.50
THE 2.07 53 ePd 00 43.20 0.7
PLG 2.26 64 ePn 00 44.50 -0.9
PAIG 2.29 76 ePc 00 46.08 0.3
eS 01 13.08
PHP 2.29 353 ePn 00 46.30 0.6
iSn 01 15.30
VAY 2.35 35 ePn 00 46.60 0.1
i 00 50.50
iSn 01 16.20
iSg 01 24.40
LQ 01 29.00
LCI 2.37 294 P 00 50.00 3.2X
LACI 2.37 340 ePn 00 46.30 -0.6
KNT 2.38 42 ePc 00 47.08 0.1
eS 01 15.68
ITM 2.40 158 ePg 00 52.00 4.7X
SOH 2.42 54 eP 00 48.00 0.4
SKO 2.61 11 ePn 00 50.50 0.3
LQ 01 33.60
ATH 2.70 121 ePn 00 51.70 0.1
SRS 2.74 51 ePd 00 51.28 -0.9
BRT 3.12 299 P 01 05.00 7.6X
MMB 3.13 45 ePc 00 59.00 1.4
VLI 3.18 147 ePn 00 59.00 0.7
ORI 3.41 282 P 01 11.00 9.4X
VTS 3.67 29 eP 01 07.00 1.5
RZN 3.76 51 eP 01 07.00 0.2
PVL 5.12 41 eP 01 24.00 -1.8
MLR 7.17 30 ePc 01 57.00 2.1X
VRI 7.80 32 eP 02 00.00 -3.5X
S.D. = 0.8 on 29 of 35 obs.

• FEB 19, 1991 14h 06m 54.87± 0.50s
2.062 S ± 8.4km 138.666 E ±11.9km
DEPTH = 33.0km (normal)
5.0mb (9 obs.)
WEST IRIAN (201)

MNDI 6.43 129 eP 08 32.00 2.0
WB2 18.27 193 eP 11 05.50 -2.1
eS 14 22.00
QIS 18.41 177 eP 11 05.00 -4.3X
eS 14 28.00
RMQ 26.15 159 eP 12 26.50 -1.5
WARB 26.62 205 eP 12 33.00 0.6
FORR 30.33 198 iPd 13 04.70 -1.0
0.4s 43.00nm 5.6mb
MRWA 34.57 216 iPd 13 43.10 0.4
SSE 36.93 335 Pc 14 07.00 4.3X
1.0s 37.00nm 5.2mb
Z 18s 0.40um 4.2Msz

E 14s 0.50um
IPM 38.18 280 ePc 14 15.30 1.8
CHG 44.22 300 eP 15 04.10 1.0
XAN 45.52 325 eP 15 13.00 -0.3
CD2 46.68 317 P 15 23.40 0.9
0.7s 10.00nm 4.9mb
BJI 46.69 336 eP 15 22.00 -0.3
1.5s 23.00nm 4.9mb
CN2 47.17 347 eP 15 24.40 -1.7
LZH 49.94 323 eP 15 47.00 -0.9
2.0s 25.00nm 4.9mb
GTA 54.53 323 eP 16 22.00 -0.2
1.0s 10.00nm 4.8mb
GUN 58.79 305 P 16 53.28 0.3
0.8s 20.00nm 5.3mb
PKI 59.05 304 P 16 54.76 -0.1
0.7s 7.00nm 4.9mb
KKN 59.24 304 P 16 56.22 0.2
0.8s 30.00nm 5.5mb
DMN 59.32 304 P 16 57.08 0.5
GKN 59.84 304 P 17 00.42 0.3
KOD 62.12 283 eP 17 16.30 0.4
GBA 62.66 286 P 17 18.00 -1.0
WMQ 64.48 321 eP 17 31.00 0.3
YKA 99.51 27 eP 20 32.90 -2.7
0.6s 0.20nm 3.8mb X
KIC 143.27 278 PKP 26 20.80 -7.8X
LKO 143.70 283 PKP 26 25.66 -3.7X
CNCB 147.70 126 iPKP 26 37.70 1.1
LPB 147.75 126 ePKP 26 38.00 1.5
ZOBO 147.87 126 PKP 26 37.40 0.5
1.0s 8.75nm
S.D. = 1.2 on 26 of 30 obs.

% FEB 19, 1991 14h 29m 23.16± 0.39s
39.503 N ± 4.0km 28.319 E ± 4.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.3 (ISK).

DST 0.26 67 iPg 29 27.90 -0.8
EDC 0.91 338 iPg 29 40.10 -0.5
iSg 29 53.20
KGT 1.23 321 ePg 29 46.00 0.0
IZM 1.38 217 iPn 29 48.00 -0.4
ALT 1.46 107 iPn 29 49.50 -0.1
KHL 1.51 141 iPn 29 50.00 -0.3
GBZT 1.55 34 ePn 29 52.00 1.2
iSg 30 14.20
EZN 1.57 282 ePn 29 51.00 -0.1
PRK 1.61 261 ePn 29 51.00 -0.6
ISK 1.66 20 iPn 29 52.50 0.1
HRT 1.67 38 ePn 29 52.60 -0.1
GPA 1.72 62 iPn 29 53.70 0.4
SMG 2.13 213 ePn 30 01.00 1.7
eSn 30 30.50
DMK 2.36 350 ePn 30 02.50 0.0
YER 2.36 181 iPn 30 02.20 -0.5
S.D. = 0.7 on 15 of 15 obs.

? FEB 19, 1991 15h 03m 53.62± 5.26s
38.565 N ±27.2km 31.199 E ±34.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.2 (ISK).

ALT 0.98 300 iPn 04 12.70 0.4
KHL 1.34 260 ePn 04 18.60 0.3
GPA 1.85 338 ePn 04 26.00 0.3
DST 2.25 298 iPn 04 30.70 -0.9
HRT 2.54 333 ePn 04 35.50 -0.1
ISK 2.99 327 ePn 04 42.00 0.1
S.D. = 0.6 on 6 of 6 obs.

• FEB 19, 1991 15h 05m 20.70± 1.19s
23.855 N ± 9.1km 121.676 E ±14.5km
DEPTH = 10.0km (geophysicist)
3.8mb (1 obs.)
TAIWAN (244)

TWD 0.24 342 iPd 05 26.00 0.3
eS 05 29.30
TWF1 0.61 215 ePc 05 33.20 0.2
TWC 0.77 12 iPd 05 36.60 0.9
eS 05 47.80
TWQ 0.87 299 ePc 05 37.60 0.1
eS 05 49.90

19d 15h

TWZ	1.24	356	ePc	05	44.90	1.2
ANP	1.33	354	eP	05	48.20	2.9X
SSE	7.23	357	eP	07	06.10	-2.8
			i	07	13.00	
			e(S)	08	33.00	
			Lg	09	16.00	
FBA	68.89	27	P	16	28.00	0.6
YKA	83.10	23	eP	17	47.20	-0.5
	0.8s		0.60nm			3.8mb
	S.D. = 1.5		on 8 of 9 obs.			

FEB 19, 1991 15h 17m 17.42± 0.24s
44.453 N ± 2.0km 7.380 E ± 2.6km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 3.2 (LDG), 3.1 (GEN). MD 2.5 (STR).

DOI	0.11	298	Pd	17	19.80	-0.5
			eSg	17	21.10	
PZZ	0.21	285	Pc	17	20.97	-1.0
			S	17	23.20	
STV	0.21	191	Pd	17	21.27	-0.8
			S	17	25.16	
ENR	0.23	173	Pd	17	21.77	-0.6
			S	17	26.22	
ROB	0.39	114	Pd	17	26.30	1.0
			S	17	32.57	
BHB	0.40	348	Pc	17	25.69	0.1
			S	17	31.43	
FOUF	0.44	280	iPgc	17	24.80	-1.5
			i	17	25.61	
			e(Sg)	17	29.05	
TOUF	0.45	192	Pg	17	25.92	-0.7
AUTN	0.46	176	Pg	17	26.44	-0.4
SAOF	0.48	165	Pg	17	26.94	-0.3
AURF	0.57	184	Pg	17	28.22	-0.8
			Sg	17	36.17	
MVIF	0.58	197	Pg	17	28.37	-0.9
			Sg	17	35.93	
SBF	0.59	176	Pg	17	28.80	-0.6
			Sg	17	37.10	
RRL	0.63	318	Pc	17	29.25	-1.0
			S	17	37.87	
FIN	0.64	112	P	17	30.77	0.5
			S	17	40.74	
CKI	0.64	92	P	17	32.00	1.7
			eSg	17	42.00	
IMI	0.65	146	P	17	30.51	0.0
			S	17	39.68	
RSP	0.70	353	P	17	30.72	-0.7
			S	17	40.14	
REVF	0.71	181	Pg	17	31.17	-0.3
BNI	0.78	320	P	17	31.90	-0.9
			eSg	17	42.50	
CALN	0.78	207	Pg	17	32.10	-0.7
PCP	0.84	84	P	17	34.80	1.2
			S	17	47.70	
LSD	1.02	351	P	17	36.17	-0.7
			S	17	49.66	
FRF	1.04	211	Pg	17	36.30	-0.7
			Sg	17	49.20	
LPG	1.14	337	Pg	17	39.20	0.3
LPL	1.16	337	Pg	17	39.60	0.4
			Sg	17	54.40	
LRG	1.24	217	Pg	17	40.00	-0.5
			Sg	17	55.40	
ORO	1.25	20	P	17	40.00	-0.7
			eSn	17	57.00	
ORX	1.25	20	P	17	39.64	-1.2
			S	17	55.56	
TAVF	1.27	229	Pg	17	41.95	1.0
			Sg	17	57.81	
LMR	1.28	210	Pg	17	40.90	-0.3
			Sg	17	56.90	
VILF	1.34	244	Pn	17	43.45	1.3
			Pg	17	43.90	
CDR	1.40	237	e(Pg)d	17	42.90	-0.1
			i(Sg)	17	59.90	
			i	18	00.20	
BOB	1.51	77	P	17	45.00	0.4
PUYF	1.52	233	Pn	17	45.33	0.6
			Sg	18	05.16	
TREF	1.66	241	Pn	17	48.77	2.0
BERF	1.67	228	Pn	17	47.90	1.0
			Sg	18	09.67	
PRAF	1.72	249	Pn	17	50.30	2.7
VAI	1.72	34	P	17	48.50	1.0
			eSg	18	10.00	
GELF	1.77	234	Pn	17	49.91	1.6
			Sg	18	13.13	
PGF	2.24	148	Pn	17	53.42	-1.8
SMF	3.31	313	Pn	18	11.20	0.8
LBF	3.48	318	Pn	18	13.20	0.5
			Sn	18	53.00	
HAU	3.63	349	Pn	18	14.70	-0.1
AVF	3.67	311	Pn	18	15.60	0.2
LOR	3.74	320	Pn	18	16.80	0.4
			Sn	18	59.00	
SSF	3.76	315	Pn	18	17.20	0.5
BGF	3.82	305	Pn	18	18.00	0.4
CAF	3.82	279	Pn	18	17.20	-0.4
MAF	3.83	299	Pn	18	17.40	-0.3
TCF	4.08	299	Pn	18	21.80	0.6
LSF	4.50	296	Pn	18	27.50	0.3
TOD	5.25	10	ePn	18	37.93	0.2
ABH	5.43	1	ePn	18	38.13	-2.3
	S.D. = 1.0		on 54 of 54 obs.			

FEB 19, 1991 15h 33m 03.29± 0.24s
44.047 N ± 2.0km 7.660 E ± 2.0km
DEPTH = 10.5 ± 2.0 km
NORTHERN ITALY (545)
ML 3.2 (LDG), 2.9 (GEN). MD 2.5 (STR).

SAOF	0.10	231	Pg	33	05.70	-0.4
AUTN	0.18	253	Pg	33	07.33	-0.1
IMI	0.21	129	P	33	07.88	-0.1
			S	33	11.66	
SBF	0.24	222	Pg	33	08.70	0.1
ENR	0.25	316	P	33	08.50	-0.2
			S	33	12.16	
AURF	0.29	237	Pg	33	09.73	0.3
ROB	0.29	31	P	33	09.83	0.4
			S	33	14.65	
TOUF	0.30	264	Pg	33	09.82	0.2
			Sg	33	16.08	
STV	0.31	309	P	33	09.73	-0.1
			S	33	14.13	
REVF	0.37	215	Pg	33	10.08	-0.9
			Sg	33	17.16	
MVIF	0.40	248	Pg	33	11.77	0.3
			Sg	33	18.88	
FIN	0.43	67	P	33	12.08	0.0
			S	33	18.65	
DOI	0.55	327	P	33	14.70	0.4
			eSg	33	22.00	
CKI	0.58	49	P	33	15.20	0.1
			eSg	33	22.10	
PZZ	0.61	319	P	33	15.57	-0.1
			S	33	23.98	
CALN	0.63	242	Pg	33	16.13	0.1
			Sg	33	25.68	
FOUF	0.79	308	iPgc	33	18.55	-0.1
			i(Sg)	33	28.75	
PCP	0.81	52	P	33	19.26	0.3
			S	33	30.23	
BHB	0.84	340	P	33	18.99	-0.6
			S	33	30.49	
FRF	0.88	237	Pg	33	20.40	0.3
			Sg	33	32.00	
RRL	1.07	325	P	33	23.16	-0.5
			S	33	37.49	
LMR	1.10	230	Pg	33	24.20	0.4
			Sg	33	38.80	
LRG	1.11	238	Pg	33	25.10	1.0
			Sg	33	40.00	
RSP	1.14	346	P	33	23.98	-0.7
			S	33	38.32	
BNI	1.23	325	P	33	26.00	-0.2
			eSn	33	42.60	
CDR	1.42	255	e(Pg)d	33	29.70	0.6
			e(Sg)	33	45.50	
LSD	1.46	346	P	33	29.62	-0.2
			S	33	46.99	
BOB	1.47	60	P	33	31.80	2.0
			eSn	33	52.00	
LPG	1.59	336	Pn	33	31.80	0.1
ORO	1.59	8	P	33	32.00	0.4
			eSg	33	51.00	
ORX	1.60	8	P	33	32.16	0.4
			S	33	52.82	
LPL	1.61	336	Pn	33	32.00	0.0
			Sg	33	56.00	
PGF	1.79	146	Pg	33	32.96	-1.5
VAI	1.98	23	P	33	37.50	0.4
BDI	2.12	89	P	33	39.00	-0.2
MDI	2.26	39	P	33	40.00	-1.2
HAU	4.06	347	Pn	34	06.60	-0.2
CAF	4.10	284	Pn	34	07.20	-0.1
BGF	4.22	308	Pn	34	08.40	-0.7
	S.D. = 0.6		on 39 of 39 obs.			

% FEB 19, 1991 15h 33m 57.10± 0.82s
44.038 N ± 5.2km 7.799 E ± 7.3km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.7 (LDG).

SBF	0.32	237	Pg	34	03.30	-0.4
			Sg	34	07.10	
FOUF	0.88	304	ePgc	34	13.70	-0.3
			i(Sg)	34	24.55	
FRF	0.96	241	Pg	34	15.10	-0.3
			Sg	34	26.70	
LMR	1.17	234	Pg	34	18.90	-0.1
			Sg	34	33.50	
LRG	1.19	241	Pg	34	19.80	0.5
			Sg	34	34.70	
CDR	1.51	257	e(Pg)d	34	24.80	0.5
			e(Sg)	34	42.70	
LPG	1.64	333	Pn	34	26.40	0.1
LPL	1.66	333	Pn	34	26.60	0.0
PGF	1.73	149	Pn	34	27.40	-0.1
			Sn	34	48.80	
	S.D. = 0.4		on 9 of 9 obs.			

? FEB 19, 1991 15h 36m 03.74± 6.64s
33.363 S ±15.8km 72.028 W ±56.9km
DEPTH = 33.0km (normal)
OFF COAST OF CENTRAL CHILE (134)

LNV	0.78	139	iPc	36	18.10	-0.2
			iS	36	32.50	
ROCH	0.94	66	eP	36	20.50	-0.3
			iS	36	37.50	
TACH	0.96	108	iPd	36	21.20	0.3
			iS	36	39.00	
SAN	1.15	95	eP	36	24.50	0.9
			iS	36	44.30	
JACH	1.38	61	iPd	36	27.50	0.5
			iS	36	49.00	
FCH	1.45	89	eP	36	27.00	-1.3
			i	36	51.00	
	S.D. = 1.0		on 6 of 6 obs.			

% FEB 19, 1991 15h 38m 31.96± 1.60s
44.243 N ±10.5km 8.412 E ±11.4km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.2 (GEN).

FIN	0.15	257	P	38	35.28	-0.2
			S	38	37.95	
PCP	0.31	18	P	38	38.46	0.0
			S	38	43.38	
ROB	0.39	278	P	38	39.69	-0.3
			S	38	44.92	
IMI	0.50	229	P	38	42.15	0.0
			S	38	49.73	
ENR	0.71	269	P	38	45.92	-0.2
STV	0.78	270	P	38	47.89	0.6
			S	38	58.87	
PZZ	0.98	286	P	38	50.72	0.1
			S	39	03.36	
	S.D. = 0.4		on 7 of 7 obs.			

FEB 19, 1991 15h 50m 07.23± 0.27s
9.173 N ± 4.3km 126.453 E ± 6.1km
DEPTH = 68.5km (2 depth phases)
5.4mb (37 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 27C
Centroid Locotion:
Origin Time 15:50: 7.0 0.7
Lat 9.38N 0.08 Lon 127.26E 0.07
Dep 15.0 FIX Half-duration 2.0
Moment Tensor; Scale 10**16 Nm

```
      Mrr= 9.60 0.50   Mtt=-1.96 0.61
      Mff=-7.64 0.76   Mrt= 0.03 1.88
      Mrf= 4.16 1.95   Mtf=-0.15 0.52
      Principal Axes:
       T  Val= 10.56   Plg=77   Azm=270
       N       -1.96       0         1
       P       -8.60      13        91
     Best Double Couple:Mo=9.6*10**16
      NP1:Strike=182 Dip=32 Slip=  91
      NP2:          1     58        90

DAV     2.25 203 ePc    50 44.00   1.1
QCP     7.56 316 eP     51 52.00  -5.1X
BAG     9.19 322 eP     52 18.20  -1.5
TSM     9.67 240 ePc    52 33.00   7.0X
QZH    17.38 335 eP     54 08.00   1.3
     Z  16s     4.10um
     N  16s     4.30um
HKC    17.59 319 P      54 12.00   2.6
GUA    18.61  75 eP     54 23.20   1.4
       1.0s   144.00nm          5.1mb
GZH    18.69 319 Pc     54 21.00  -1.7
       0.8s   100.00nm          5.1mb
     Z  17s     5.10um          4.2Msz
     N  14s     2.20um
     E  15s     2.40um
QIZ    18.84 303 P      54 23.00  -1.6
       0.7s    20.00nm          4.5mb
     N  13s     1.60um
     E  16s     2.60um
                PP       54 39.00
                sS       58 08.00
SSE    22.36 348 Pd     54 58.00  -2.6
       1.0s   190.00nm          5.5mb
     Z  20s     2.30um          4.6Msz
     N  14s     1.40um
     E  14s     0.70um
                S        58 48.00
NJ2    23.83 344 iPc    55 15.00   0.0
       0.7s   200.00nm          5.7mb
     Z  16s     1.20um          4.5MszX
WHN    24.08 334 eP     55 17.00  -0.4
     Z  18s     1.30um          4.5Msz
     N  18s     2.30um
     E  14s     1.70um
KNA    24.87 175 eP     55 23.80  -1.2
PCT    25.09 285 iPc    55 29.60   2.4
GYA    25.44 315 P      55 31.00   0.5
     Z  24s     1.90um          4.5MszX
     N  16s     2.00um
     E  16s     1.90um
IPM    25.65 261 ePc    55 34.10   1.7
       0.8s   104.20nm          5.4mb
SNG    25.65 267 eP     55 34.10   1.7
                eS       00 15.00
NNT    26.45 280 iPd    55 41.30   1.5
NST    26.49 287 eP     55 41.50   1.4
KMI    27.58 308 Pc     55 51.00   0.7
     Z  20s     2.70um          4.8Msz
KHT    27.80 284 eP     55 53.40   1.3
CHG    28.32 293 ePc    55 56.30  -0.5
       0.9s    10.08nm          4.4mb
MAT    29.26  20 (P)    56 03.00  -2.1
                eS       00 26.00
XAN    29.53 330 P      56 04.90  -2.6
     N  15s     1.60um
     E  13s     1.00um
DL2    29.92 352 eP     56 10.00  -0.8
       0.7s   150.00nm          5.8mb
     Z  15s     0.90um          4.5MszX
     E  13s     1.20um
                eS       01 02.00
WB2    29.96 165 iPd    56 08.00  -3.4X
CD2    30.24 319 eP     56 12.90  -1.0
     Z  16s     6.24um          5.3MszX
     E  15s     2.90um
MBL    30.84 192 eP     56 18.00  -1.1
       0.6s    16.00nm          4.9mb
TIY    31.11 338 P      56 20.00  -1.4
     Z  16s     1.40um          4.7MszX
     N  12s     1.10um
BJI    32.07 345 eP     56 29.00  -0.7
       1.0s    97.00nm          5.6mb
     Z  18s     1.17um          4.6Msz
                eS       01 36.00
QIS    32.25 156 iPc    56 29.10  -2.4
SNY    32.62 356 iPc    56 34.60   0.1

       1.0s   200.00nm          5.9mb
     Z  18s     1.90um          4.8Msz
     E  14s     1.20um
                S        01 47.00
OFUJ   32.75  22 eP     56 36.10   0.4
ASPA   33.44 168 iPc    56 39.50  -2.3
       0.5s    24.20nm          5.3mb
LZH    33.78 326 Pc     56 42.00  -2.8
       1.0s    15.00nm          4.9mb
     E  15s     1.21um
                sP       57 05.50
HHC    34.20 340 P      56 47.60  -0.7
     Z  17s     1.30um          4.7MszX
CN2    34.51 359 Pc     56 50.00  -0.8
     Z  17s     4.40um          5.3MszX
     N  15s     1.00um
     E  15s     0.50um
BTO    34.53 338 eP     56 51.00  -0.2
     N  16s     1.20um
     E  16s     0.90um
                eS       02 17.00
WARB   35.14 180 eP     56 56.00  -0.4
       0.4s    26.00nm          5.5mb
MDJ    35.42   4 iPc    56 59.00   0.5
       1.0s   100.00nm          5.7mb
     Z  20s     2.00um          4.9Msz
                pP       57 16.00  68km
HOOJ   36.24  21 eP     57 07.10   1.7
MEKA   36.39 192 iPd    57 06.80  -0.1
KUSJ   37.38  22 eP     57 15.30   0.3
ASAJ   37.55  19 eP     57 17.20   0.7
GTA    38.38 326 iPc    57 22.60  -1.1
       0.8s    10.00nm          4.8mb
     Z  18s     3.80um          5.3Msz
     E  16s     2.00um
                pP       57 39.60  69km
                sP       57 46.20
                PP       59 00.00
LSA    38.81 307 eP     57 28.20   0.4
MRWA   39.48 194 eP     57 33.00   0.3
       0.4s     5.00nm          4.8mb
FORR   39.82 178 iPd    57 34.70  -0.8
       0.4s    69.00nm          5.9mb
COOL   40.15 187 eP     57 37.60  -0.7
KLB    41.38 191 iPc    57 48.20  -0.1
       0.4s    33.00nm          5.5mb
MUN    42.07 193 iPc    57 54.40   0.4
       0.7s    96.00nm          5.7mb
GUN    42.48 302 Pc     57 57.92   0.0
       0.7s   198.00nm          6.0mb
NWAO   42.78 191 iPc    58 00.20   0.5
       0.8s   125.00nm          5.8mb
PKI    42.78 301 Pc     57 59.74  -0.6
       0.7s    68.00nm          5.5mb
KKN    42.95 301 Pc     58 01.14  -0.4
       0.8s    83.00nm          5.6mb
DMN    43.05 301 Pc     58 02.02  -0.4
GKN    43.56 301 Pc     58 05.80  -0.6
       0.5s    51.00nm          5.6mb
ADE    45.41 166 iPc    58 20.70  -0.2
COO    46.46 149 eP     58 34.00   4.7X
HYB    47.23 285 iPc    58 36.50   0.9
       1.0s    60.00nm          5.5mb
                e        58 43.50
                e        58 50.00
GBA    48.19 280 P      58 44.30   1.2
WMQ    48.19 323 P      58 42.50  -0.4
     Z  18s     2.30um          5.2Msz
KOD    48.26 276 eP     58 45.00   1.0
BFD    48.51 163 iPd    58 44.90  -0.3
       1.0s    63.00nm          5.6mb
TOO    49.80 160 eP     58 54.50  -0.7
DZM    50.02 129 iPc    58 55.60  -1.5
NDI    50.05 300 iPc    58 55.50  -1.7
       0.8s    22.39nm          5.2mb
POO    51.76 286 iPc    59 09.00  -1.4
QUE    59.13 300 eP     00 02.40  -1.2
SVW    76.19  29 e(P)   01 51.90   2.3
IMA    77.56  24 eP     01 59.10   1.9
       0.6s     7.10nm          4.8mb
FBA    79.95  26 eP     02 10.40   0.3
TOA    80.73  28 eP     02 16.40   2.0
KEV    84.72 340 eP     02 33.00  -1.6
       0.8s    19.10nm          5.2mb
INK    85.23  22 ePc    02 38.00   0.8
       1.0s    58.00nm          5.6mb
                pP       02 50.00  39kmX

KAF    86.68 332 iP     02 45.20   0.8
       0.4s     3.10nm          4.8mb
MBC    86.74  13 iPd    02 46.50   2.0
       0.7s    74.00nm          5.9mb
NUR    87.84 331 iP     02 49.80  -0.2
       0.8s    19.10nm          5.3mb
                i        02 58.40
DAG    91.87 352 iPd    03 08.30  -0.4
       0.7s    14.38nm          5.5mb
KRA    93.43 322 eP     03 16.60   0.3
NB2    93.82 334 P      03 17.00  -1.0
       1.1s     7.20nm          5.0mb
YKA    94.68  24 eP     03 22.10   0.3
       0.8s     8.70nm          5.2mb
KSP    95.35 323 eP     03 26.00   0.8
PRU    96.71 323 eP     03 42.00  10.7X
     Z  18s     0.60um          5.1Msz
     E  18s     0.40um
KHC    97.62 322 eP     03 44.50   9.0X
     Z  16s     0.80um          5.3MszX
LKO   128.76 290 PKP    09 09.14  -0.4
       0.6s     7.00nm
KIC   128.97 286 PKP    09 10.30   0.4
TIC   129.15 286 PKP    09 10.70   0.5
LIC   129.28 286 PKP    09 11.00   0.5
TACH  150.85 149 ePKP   09 54.50   6.4X
PEL   151.38 149 iPKPd  09 56.10   7.2X
       0.6s    46.67nm
FCH   151.43 150 ePKP   09 55.50   6.1X
CNCB  164.03 120 PKPc   10 07.60   2.5
                i        11 02.00
LPB   164.05 119 ePKP   10 09.00   4.0X
                e        11 05.00
ZOBO  164.13 118 PKPd   10 07.80   2.6
       0.9s     5.41nm
                LR       36 30.00
SOB1  167.51 269 (PKP)  10 08.00   0.6
                e        11 13.90
SIV   170.01 133 PKP    10 08.80   0.0
     S.D. = 1.3  on  87 of  97 obs.
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   FEB 19, 1991  16h 05m 11.98± 0.55s
   38.423 N ± 5.4km   20.605 E ± 4.2km
   DEPTH =  10.0km  (geophysicist)
 GREECE                          (364)
      ML 3.4 (ATH). MD 3.4 (THE).

VLS     0.25 183 iPgc   05 15.30  -1.9
EVR     1.06  62 iPbd   05 32.30   0.2
IGT     1.13 349 ePd    05 32.62  -0.5
                eS       05 49.73
AGG     1.48  66 eP     05 40.60   2.0
                eS       06 05.00
SRN     1.53 342 ePn    05 39.20  -0.1
                iSn      05 58.70
ITM     1.62 139 ePn    05 42.00   1.3
KZN     2.09  25 ePb    05 47.70   0.2
LIT     2.22  41 eP     05 49.80   0.3
                eS       06 21.10
NEO     2.23  66 ePn    05 50.00   0.5
FNA     2.43  14 eP     05 52.10  -0.3
ATH     2.49  99 ePn    05 53.50   0.3
VLI     2.52 132 ePg    05 59.00   5.5X
OHR     2.69   3 iPn    05 56.00  -0.1
                iSn      06 29.00
                LQ       06 42.90
                LR       04 50.00
LCI     2.80 314 P      05 59.50   1.8
PAIG    2.82  57 ePc    05 57.66  -0.3
                eS       06 35.60
THE     2.86  39 eP     05 58.50   0.0
GRG     2.89  28 ePc    05 58.78  -0.1
                iS       06 34.73
PLG     2.94  48 ePn    05 59.00  -0.6
TIR     2.98 349 ePn    06 01.50   1.5
SOH     3.20  41 eP     06 02.69  -0.6
KNT     3.26  32 ePc    06 03.21  -0.9
PHP     3.26 358 ePn    06 05.30   1.1
                iSn      06 50.30
VAY     3.27  27 ePn    06 09.30   5.1X
LACI    3.28 348 ePn    06 02.50  -1.9
SRS     3.54  40 eP     06 07.19  -0.9
                eS       06 52.01
TDS     3.54 292 P      06 09.10   0.9
                eSn      06 45.70
BRT     3.59 314 P      06 07.00  -1.9
                eSn      06 50.00
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19d 16h

SOI	3.60	266	P	06 09.00	0.1
			eSn	06 45.00	
SKO	3.60	10	ePn	06 11.00	2.0
			iSn	06 50.40	
			LQ	07 19.00	
ORI	3.62	298	P	06 11.50	2.2X
KKS	3.65	358	ePn	06 09.50	-0.2
SDA	3.69	347	ePn	06 08.00	-2.2
ATN	4.05	268	P	06 11.20	-4.2X
			eSn	06 55.10	
MGR	4.28	295	P	06 20.50	1.9
			eSn	07 00.50	
SGO	4.62	299	P	06 23.00	-0.4
			eSn	07 12.20	
ALN	4.87	58	eP	06 26.10	-0.9
DUI	5.72	306	P	06 41.00	1.9
SDI	6.15	304	P	06 43.00	-2.2

S.D. = 1.3 on 34 of 38 abs.

? FEB 19, 1991 16h 28m 16.37± 0.87s
44.399 N ± 7.8km 7.279 E ±14.6km
DEPTH = 5.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.4 (GEN).

STV	0.16	168	P	28 19.74	0.0
			S	28 22.20	
PZZ	0.17	310	P	28 19.84	0.0
			S	28 22.10	
ENR	0.20	149	P	28 20.46	0.0
			S	28 23.33	
BHB	0.44	359	P	28 25.28	0.0
			S	28 30.20	

S.D. = 0.1 on 4 of 4 obs.

% FEB 19, 1991 16h 32m 16.32± 1.42s
39.367 N ±14.0km 20.792 E ± 7.8km
DEPTH = 5.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
MD 2.3 (THE).

IGT	0.39	295	ePc	32 23.84	-0.4
			eS	32 30.64	
AGG	1.24	106	eP	32 40.40	0.5
			eS	32 59.80	
FNA	1.48	17	eP	32 43.00	-0.7
			eS	33 04.20	
LIT	1.50	60	ePd	32 43.40	-0.5
			eS	33 03.68	
OHR	1.74	0	ePn	32 49.00	1.6
GRG	2.01	37	ePd	32 51.56	0.3
SRS	2.77	50	eP	33 01.50	-0.6

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

? FEB 19, 1991 17h 30m 27.99± 2.34s
31.347 S ± 9.7km 68.164 W ±17.5km
DEPTH = 10.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.26	274	iPc	30 33.60	0.0
CFA	0.27	194	iPd	30 33.00	-0.6
ZON	0.48	246	eP	30 37.50	-0.3
			eS	30 45.50	
RTCB	0.56	256	ePd	30 39.10	-0.4
RTCV	0.60	212	ePd	30 39.00	-1.2
RTRS	1.62	316	iPd	30 56.20	-0.4
JACH	2.46	237	iPc	31 13.50	4.7X
			iS	31 48.00	
FCH	2.67	222	iPc	31 19.70	7.5X
			i	31 23.00	
			iS	32 02.00	
PEL	2.79	229	eP	31 15.00	1.5
			iS	31 53.50	
			i	31 58.00	
ROCH	2.91	235	eP	31 18.50	3.1X
SAN	2.98	225	eP	31 23.00	6.8X
			iS	32 02.00	
TACH	3.28	225	iPd	31 22.00	1.5
			i	31 28.90	
			iS	32 13.20	

S.D. = 1.1 on 8 of 12 obs.

& FEB 19, 1991 18h 23m 33.80s
60.954 N 150.929 W
DEPTH = 9.4km
3.4mb (1 obs.)
KENAI PENINSULA, ALASKA (14)

<AEIC>. ML 3.4 (PMR). Felt (II) at Kenai.

NKA	0.26	216	iP	23 41.52	2.3
SUA	0.52	10	iP	23 44.36	0.0
SLKM	0.57	142	iP	23 44.55	-0.7
			eS	23 53.85	
SPU	0.59	293	iP	23 45.09	-0.7
			eS	23 54.43	
CGLM	0.63	305	eP	23 46.10	-0.4
			eS	23 54.92	
CRP	0.67	298	iP	23 46.79	-0.5
PMS	0.73	66	iP	23 47.40	-0.8
CKL	0.73	290	iP	23 47.33	-0.9
NCG	0.75	308	eP	23 47.77	-0.8
BGL	0.77	294	iP	23 48.24	-0.8
RDT	0.82	243	iP	23 48.85	-0.9
PWA	0.86	35	eP	23 50.28	-0.2
NNL	0.93	191	iP	23 52.10	0.4
REF	0.99	243	iP	23 51.82	-0.9
RDN	1.00	245	iP	23 51.66	-1.3
RSO	1.02	242	iP	23 52.39	-1.0
RS2	1.03	242	iP	23 52.45	-0.9
RED	1.05	240	iP	23 52.75	-1.0
NCT	1.06	249	iP	23 52.75	-1.1
			eS	24 06.65	
SKT	1.07	345	iP	23 53.39	-0.6
PLRM	1.08	53	iP	23 52.65	-1.5
PMR	1.08	53	ePc	23 53.10	-1.0
SEW	1.12	139	eP	23 53.86	-1.0
BRLK	1.19	179	iP	23 54.86	-1.3
			eS	24 10.31	
GHO	1.27	49	eP	23 55.97	-1.5
			eS	24 13.29	
KNK	1.28	68	iP	23 56.89	-0.8
			eS	24 13.80	
HOM	1.35	196	iP	23 58.18	-0.5
CNPM	1.44	186	iP	23 58.82	-1.2
			eS	24 17.39	
CUT	1.49	12	eP	24 00.67	0.0
XLV	1.56	195	eP	24 00.51	-1.1
KNIM	1.69	110	iP	24 02.93	-0.6
GLI	1.87	91	iP	24 06.01	-0.3
			eS	24 31.13	
MTU	1.89	119	eP	24 06.16	-0.3
PDB	2.00	236	iP	24 07.69	-0.4
AUE	2.01	218	eP	24 08.32	0.1
AUH	2.03	219	eP	24 08.98	0.4
AUI	2.05	219	eP	24 08.74	0.0
HUR	2.12	16	eP	24 11.24	1.4
VZW	2.13	85	iP	24 10.10	0.0
VLZ	2.24	83	eP	24 11.66	0.1
SVW	2.29	276	iPd	24 11.80	-0.5
CDD	2.45	215	iP	24 14.43	-0.1
MCNL	2.46	225	eP	24 14.59	-0.1
SYI	2.47	198	eP	24 16.04	1.3
KLU	2.48	75	iP	24 15.23	0.2
TRF	2.52	7	eP	24 16.88	1.1
TOA	2.55	61	ePc	24 17.80	1.7
RND	2.65	21	eP	24 18.80	1.4
MID	2.76	122	e(P)	24 18.50	-0.4
			e	24 26.00	
MCK	2.94	18	eP	24 23.50	2.0
SDG	3.01	56	eP	24 23.85	1.4
TTA	3.11	312	eP	24 23.90	-0.1
PAX	3.28	49	eP	24 27.78	1.4
BWN	3.30	11	eP	24 27.50	0.9
GLB	3.48	79	iP	24 28.74	-0.4
NEA	3.74	12	eP	24 32.59	-0.2
WRH	3.76	19	eP	24 33.70	0.5
HDA	3.92	26	eP	24 36.85	1.5
TGL	3.97	89	eP	24 34.60	-1.5
CCB	3.97	20	eP	24 36.45	0.3
RDS	4.09	17	eP	24 38.07	0.3
BALM	4.18	85	eP	24 37.91	-1.3
MDM	4.20	16	iP	24 39.67	0.2
FBA	4.21	19	eP	24 40.20	0.7
GLM	4.36	20	eP	24 42.26	0.6
CTGM	4.68	86	eP	24 45.25	-1.1
IMA	5.28	348	eP	24 54.30	-0.5
ANM	7.55	305	e(P)	25 26.10	-0.4
INK	10.46	38	eP	26 09.00	2.3
YKA	17.14	69	eP	27 34.90	0.3
	0.6s		2.10nm	3.4mb	
MSU	32.88	115	e(P)	30 10.00	0.0
	71 abs. associated				

? FEB 19, 1991 18h 41m 05.60± 2.79s
16.480 N ±68.3km 94.942 W ±14.3km
DEPTH = 33.0km (normal)
OAXACA, MEXICO (60)

OXX	1.81	290	iP	41 35.70	0.6
			iS	41 58.20	
SCX	2.23	83	iP	41 40.90	0.0
			iS	42 06.50	
PPM	4.35	307	eP	42 11.80	0.2
III	4.71	294	iP	42 15.70	-0.8

S.D. = 1.0 on 4 of 4 abs.

? FEB 19, 1991 18h 59m 58.75± 4.57s
47.785 N ±11.6km 2.002 W ±41.7km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.3 (LDG).

LPF	0.69	69	Pg	00 12.40	0.0
			Sg	00 27.00	
GRR	0.98	51	Pg	00 17.00	-0.3
			Sg	00 34.20	
FLN	1.41	46	Pg	00 24.20	-0.2
			Sg	00 46.60	
LDF	1.50	57	Pn	00 26.20	0.6
			Sg	00 50.00	
MFF	1.73	132	Pg	00 29.00	-0.1
			Sg	00 55.60	

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

FEB 19, 1991 19h 32m 00.39± 0.31s
37.553 N ± 3.4km 20.904 E ± 2.6km
DEPTH = 13.7km (3 depth phases)
4.8mb (30 obs.)
IONIAN SEA (399)
ML 5.0 (ROM), 4.5 (ATH). MD 4.4 (THE).

VLS	0.67	338	ePg	32 13.00	-0.4
ITM	0.90	114	ePg	32 17.50	0.3
EVR	1.54	27	ePb	32 27.50	0.0
VLI	1.83	117	ePn	32 35.00	3.4X
AGG	1.85	37	eP	32 34.80	2.9
IGT	2.03	347	ePc	32 35.74	1.2
			eS	33 05.10	
ATH	2.27	79	ePb	32 40.50	2.5
SRN	2.43	343	ePn	32 41.70	1.5
			iSn	33 15.70	
NEO	2.53	45	ePn	32 43.50	1.8
LIT	2.83	25	iPd	32 47.17	1.2
			eS	33 24.04	
KZN	2.83	14	ePn	32 48.00	1.9
VLO	3.11	340	ePn	32 50.60	0.7
			iSn	33 36.50	
PAIG	3.21	42	iPd	32 52.10	0.7
FNA	3.25	6	eP	32 53.10	1.2
VAM	3.41	128	ePn	32 55.70	1.5
PLG	3.44	34	ePn	32 54.60	-0.1
THE	3.47	27	ePc	32 55.92	1.0
			eS	33 37.56	
OHR	3.55	359	iPnd	32 58.00	1.7
			iSn	33 37.10	
			LQ	34 18.10	
GRG	3.59	18	iPc	32 57.42	0.6
			eS	33 42.64	
LCI	3.61	321	P	32 58.00	1.0
			eSn	33 42.50	
APE	3.72	96	ePb	33 05.00	6.3X
SOH	3.78	29	eP	33 00.50	1.0
SOI	3.87	279	P	33 00.20	-0.6
KNT	3.92	23	iPd	33 02.34	0.9
			iS	33 49.34	
VAY	3.98	18	iPnd	33 02.70	0.5
			i	33 43.40	
			iSn	33 46.40	
			i	33 47.40	
			LQ	33 59.40	
			LR	34 14.00	
SRS	4.12	30	ePc	33 04.04	-0.3
			eS	33 54.50	
PHP	4.15	355	ePn	33 04.50	-0.1
			iSn	33 49.50	
TDS	4.15	302	P	33 07.90	3.2X
LACI	4.18	348	ePn	33 05.50	0.4
			iSn	33 54.10	
ORI	4.29	307	P	33 10.50	3.8X

19d 19h

ATN	4.35	280	P	33	07.70	0.1	PTJ	9.12	338	ePn	34	10.70	-3.8X	LOR	15.87	313	eP	35	49.30	4.5X
			eSn	33	57.60		CVO	9.15	24	eP	34	26.50	11.6X		0.7s		4.40nm			3.7mb X
BRT	4.39	320	P	33	08.40	0.3	RIY	9.19	330	e(Pn)	34	15.80	0.4		Z 22s		0.25um			
			eSn	34	01.90		SFI	9.36	316	P	34	19.80	2.1	CAF	15.95	303	eP	35	53.30	7.4X
NPS	4.43	120	ePn	33	10.00	1.3	CFR	9.37	33	eP	34	21.00	3.2X		1.4s		23.95nm			4.1mb
SKO	4.43	5	iPn	33	09.10	0.4	VRI	9.38	26	ePc	34	15.50	-2.5	SSF	15.97	312	eP	35	51.10	5.1X
			iSn	33	57.40		PGD	9.40	315	P	34	19.30	0.8		0.7s		4.95nm			3.8mb
			iSb	34	07.80		BBTK	9.55	73	iP	34	12.00	-8.5X	BGF	16.12	310	eP	35	55.50	7.5X
			iSg	34	16.50					e	34	26.50			1.1s		15.85nm			4.1mb
			LO	34	46.20		TIH	9.60	348	eP	34	22.60	1.5	RJF	16.45	304	eP	35	56.80	4.6X
			LR	34	59.00		PPCY	9.62	103	e(P)	34	31.00	9.6X		Z 19s		0.20um			
KKS	4.53	355	ePn	33	11.00	0.9	TRI	9.74	329	ePnc	34	22.00	-1.0	ENN	16.99	326	eP	36	03.00	4.1X
PRK	4.54	67	ePb	33	17.70	7.4X				iSn	35	59.00		DOU	17.15	322	P	36	03.80	2.9
MMB	4.58	28	iPd	33	11.00	0.1	BUD	10.02	353	e(P)	34	28.00	1.2		1.0s		66.40nm			4.7mb
KKB	4.62	21	eP	33	12.00	0.5	MME	10.18	314	P	34	28.00	-1.3	WTS	17.52	330	eP	36	09.50	3.9X
SMG	4.71	86	ePn	33	13.50	0.8	BMR	10.29	10	ePd	34	35.00	4.4X	SNF	17.57	323	P	36	09.70	3.5X
BAI	4.74	320	P	33	11.50	-1.6	CSS	10.36	101	e(P)	34	33.00	1.4	MFF	18.01	307	eP	36	14.10	2.4
MEU	4.78	266	P	33	13.47	-0.4	PSZ	10.39	356	e(P)	34	30.00	-2.0	LDF	18.85	312	eP	36	21.20	-0.8
EZN	4.81	60	eP	33	19.30	5.2X	SRO	10.43	350	eP	34	30.10	-2.3	FLN	19.14	313	eP	36	25.20	-0.3
BCI	4.85	353	ePn	33	14.50	-0.1	FVI	10.86	329	P	34	39.00	0.7		1.0s		20.00nm			4.3mb
MGR	4.91	303	P	33	16.80	1.3	CTI	10.94	324	P	34	38.00	-1.5		Z 21s		0.10um			
			eSn	34	15.20		ZST	10.99	347	eP	34	36.90	-3.3X	LPF	19.15	310	eP	36	24.80	-0.8
BDV	4.99	342	ePn	33	15.10	-1.4				e	35	34.30		GRR	19.19	311	eP	36	24.90	-1.3
			eSn	34	04.60					e	38	35.70			0.9s		8.20nm			4.0mb
TTG	5.03	346	ePn	33	16.40	-0.7	KBA	11.04	332	eP	34	39.00	-1.9	TOL	19.59	285	eP	36	31.00	-0.1
			eSn	34	07.60			0.9s		18.50nm			5.4mb	GUD	19.67	287	ePc	36	33.00	0.9
RZN	5.07	34	iPd	33	18.00	0.1				i	34	41.90		UPP	22.42	356	iP	36	58.40	-1.3
RDO	5.08	44	ePn	33	17.40	-0.4				i	35	03.50		HFS	23.06	351	eP	37	05.00	-1.1
PVY	5.09	352	ePn	33	18.15	0.1				e	36	16.00			0.3s		6.40nm			4.6mb
			eSn	34	14.00					iS	36	45.60			Z 14s		0.14um			3.6MszX
IZM	5.09	79	iP	33	19.30	1.2	SAL	11.18	319	P	34	43.40	0.7				LR	47	05.00	
HCY	5.23	340	ePn	33	18.00	-1.9	VKA	11.22	344	eP	34	59.00	15.8X	NUR	23.10	5	eP	37	03.00	-3.4X
			eSn	34	11.50			8.5s	1713	.00nm				EKA	24.11	325	P	37	17.00	0.7
SGO	5.29	306	P	33	24.50	3.7X				i	38	49.00			0.9s		19.20nm			4.7mb
			eSn	34	25.00					i	39	47.20		NB2	24.29	349	P	37	17.60	-0.4
VTS	5.33	19	iP	33	22.00	0.4	BOB	11.24	313	P	34	46.00	2.4		0.8s		10.30nm			4.5mb
IVA	5.37	352	ePn	33	22.20	0.2	HLW	11.59	128	(P)	34	45.50	-2.8	KAF	24.81	6	eP	37	22.50	-0.5
KDZ	5.37	39	iPc	33	22.00	-0.1				(S)	36	45.50			0.3s		4.00nm			4.6mb
PLD	5.40	32	iPd	33	23.00	0.5	SPC	11.64	358	eP	34	45.20	-4.0X	AAE	32.67	146	eP	38	33.00	-1.6
KAP	5.43	110	ePn	33	25.50	2.6	MDI	11.72	318	P	34	50.00	0.0	BCAO	33.03	184	iPc	38	38.40	0.9
NKY	5.45	345	ePn	33	21.50	-1.8	BHG	11.75	332	eP	34	49.00	-1.4		0.5s		28.00nm			5.4mb
			eSn	34	18.50		WTTA	11.87	328	iPc	34	52.10	-0.1				id	38	42.20	13km
GIB	5.47	277	P	33	23.00	-0.5				i	34	57.10					id	39	18.80	
			eSn	34	25.00		SQTA	12.02	327	i(P)	34	53.20	-1.0	LKO	36.72	227	P	39	09.70	0.7
PGB	5.58	26	iPd	33	25.00	-0.1		0.6s		8.30nm			5.2mb		0.9s		29.50nm			5.1mb
BRY	5.64	342	ePn	33	24.00	-1.9				i	34	58.20		TIC	38.76	224	P	39	26.72	0.6
			eSn	34	21.60					i	35	03.10			0.9s		25.00nm			4.9mb
DIM	5.73	37	iP	33	28.00	0.9				iS	37	02.90		KIC	38.84	223	P	39	27.58	0.8
FAI	5.76	269	P	33	28.20	0.7				i	37	05.40			0.8s		42.50nm			5.2mb
			eSn	34	32.80		VAI	12.28	316	P	34	58.00	0.4	LIC	39.11	224	P	39	29.96	0.9
PLE	5.88	349	ePn	33	27.50	-1.8	KRA	12.52	357	eP	34	52.10	-8.7X		0.8s		58.50nm			5.3mb
			eSn	34	30.00			Z 14s		2.00um				WMO	49.80	61	eP	40	52.90	-1.7
YER	5.89	92	eP	33	33.30	3.9X				e	34	59.40		GKN	53.53	80	P	41	20.52	-2.5
EDC	6.10	61	iP	33	33.00	0.7				e	35	13.60		DMN	54.08	81	P	41	25.14	-2.0
USI	6.20	283	P	33	33.75	0.1	KHC	12.73	338	eP	35	04.50	0.8	HYB	54.09	95	eP	41	28.20	1.2
DST	6.39	69	eP	33	36.80	0.4		1.1s		10.00nm			4.9mb	KKN	54.13	80	P	41	25.02	-2.4
DUI	6.45	311	P	33	37.50	0.2				e	35	16.00		PKI	54.33	81	P	41	26.72	-2.4
JMB	6.56	40	iPc	33	38.00	-0.8				e	37	18.60		GUN	54.54	80	P	41	28.02	-2.7
HVAR	6.57	330	iPn	33	38.00	-0.9	WET	12.96	336	eP	35	07.50	0.7	FRB	56.84	328	eP	41	46.00	-0.4
			iSn	34	50.00		LPG	13.23	311	eP	35	20.40	9.8X	LSA	57.80	75	eP	41	51.60	-2.6
PVL	6.59	29	iPc	33	37.00	-2.2		1.1s		11.00nm			4.9mb	BUL	57.84	171	eP	41	59.20	5.2X
DMK	6.79	49	eP	33	41.20	-0.8	PRU	13.25	342	P	35	08.20	-2.2	GTA	59.86	62	eP	42	05.50	-2.4
KHL	6.86	81	eP	33	45.80	2.8		1.0s		14.50nm			5.0mb		1.2s		10.00nm			4.8mb
SDI	6.86	309	P	33	44.10	1.0		Z 10s		1.20um			6.6MszX				pP	42	10.00	15km
KSL	7.11	99	ePn	33	47.50	1.1		E 12s		1.00um				SLR	63.33	173	eP	42	33.50	2.2
ELL	7.24	94	eP	33	58.00	9.6X				e	35	21.10		CD2	66.72	68	P	42	51.60	-1.7
AZI	7.26	310	P	33	48.00	-0.5	KSP	13.69	348	eP	35	16.50	0.2	HHC	67.14	55	eP	42	51.80	-4.1X
BEO	7.27	357	eP	33	46.40	-2.3				ec	35	25.20		XAN	68.84	63	eP	43	04.50	-2.0
ALT	7.39	75	eP	33	51.30	0.7	FEL	13.99	322	eP	35	23.40	3.0X	CHG	69.48	82	ePc	43	09.00	-1.6
AOU	7.49	312	P	33	50.80	-1.1	GRF	14.00	333	eP	35	29.80	9.4X		1.2s		17.58nm			5.1mb
HRT	7.55	62	eP	33	45.00	-7.7X		Z 13s		0.80um				CHTO	69.48	82	P	43	09.00	-1.6
DRA	7.55	19	ePc	33	52.00	-0.7	BRG	14.21	342	eP	35	24.50	1.4				pP	43	13.20	14km
BLY	7.72	340	eP	33	58.00	3.1X		1.0s		16.00nm			4.7mb	YKA	74.08	340	eP	43	35.70	-1.6
			eS	35	08.00					e	35	33.00			1.0s		3.30nm			4.3mb
MNS	7.95	310	P	33	59.50	1.3				i	36	07.80		CN2	74.09	47	eP	43	35.60	-2.1
BZS	8.07	4	eP	34	02.50	2.6	BSF	14.58	319	eP	35	32.40	4.3X	FFC	75.87	330	ePc	43	48.20	0.5
PSN	8.25	40	eP	34	03.00	0.6		0.7s		13.25nm			4.6mb		1.2s		28.00nm			5.2mb
CMP	8.31	21	ePc	34	04.00	0.7	CDF	14.71	322	eP	35	35.60	5.8X		S.D. = 1.4		on 150 of 190 obs.			
ASS	8.37	314	P	34	05.60	1.5		0.8s		26.85nm			4.8mb							
DEV	8.46	10	ePd	34	06.00	0.7	CLL	14.85	340	i(P)	35	38.60	7.1X	* FEB 19, 1991 20h 01m 41.68± 2.61s						
TNR	8.48	16	ePc	34	05.00	-0.6		1.7s		73.00nm			4.9mb	38.136 N ±14.2km 20.268 E ±20.8km						
ARV	8.48	317	P	34	05.00	-0.7	HAU	14.92	319	eP	35	37.90	5.4X	DEPTH = 10.0km (geophysicist)						
ISR	8.68	27	eP	34	09.00	0.5		0.9s		26.20nm			4.7mb	GREECE (364)						
MLR	8.78	24	eP	34	10.00	0.1		Z 21s		0.32um			5.8MszX	MD 3.3 (ATH).						
TLB	8.85	35	eP	34	09.00	-1.7	TNS	15.50	329	eP	35	40.40	0.4							
CRE	9.12	315	P	34	17.20	2.7	LBF	15.65	312	eP	35	47.60	5.6X	VLS	0.26	81	ePg	01	46.00	-1.1
			eSn	35	54.30			0.9s		8.20nm			4.0mb	EVR	1.44	57	ePn	02	09.60	1.7

19d 20h

ITM 1.63 125 ePb 02 10.50 0.0
KZN 2.46 28 ePn 02 23.50 0.9
OHR 3.00 8 ePn 02 29.30 -0.9
PLG 3.33 47 ePn 02 35.00 0.1
VAY 3.64 28 ePn 02 38.40 -0.9
S.D. = 1.3 on 7 of 7 obs.

% FEB 19, 1991 20h 12m 25.90± 3.61s
44.348 N ±19.1km 9.385 E ±33.0km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

BOB 0.42 6 P 12 34.00 -0.5
eSg 12 38.40
BDI 0.92 108 P 12 44.00 0.5
eSn 12 56.50
MME 0.96 99 P 12 44.10 -0.2
PII 1.03 127 P 12 45.00 -0.4
eSg 13 01.00
MDI 1.45 9 P 12 52.70 0.6
eSn 13 10.00
S.D. = 0.7 on 5 of 5 obs.

% FEB 19, 1991 20h 50m 13.34± 0.74s
44.430 N ± 6.2km 7.316 E ± 8.0km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.6 (GEN).

PZZ 0.17 296 P 50 17.27 0.0
S 50 19.65
STV 0.19 178 P 50 17.58 0.0
S 50 20.00
ENR 0.22 160 P 50 18.09 0.0
S 50 20.96
BHB 0.41 355 P 50 21.83 0.0
S 50 27.63
ROB 0.42 109 P 50 21.92 0.0
S.D. = 0.0 on 5 of 5 obs.

FEB 19, 1991 21h 00m 47.08± 0.61s
43.395 N ± 4.7km 5.443 E ± 4.5km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
ML 2.9 (STR).

GELF 0.02 226 Pg 00 48.84 -0.2
BERF 0.20 114 Pg 00 51.61 0.1
PUYF 0.23 54 Pg 00 51.46 -0.6
TREF 0.23 349 Pg 00 51.46 -0.6
CDR 0.37 40 iPg 00 53.40 -1.2
e 00 57.10
i(Sg) 00 57.70
PRAF 0.46 334 Pg 00 56.42 0.1
VILF 0.50 23 Pg 00 56.42 -0.8
TAVF 0.50 63 Pg 00 56.80 -0.4
CALN 1.11 71 Pg 01 08.58 0.6
MVIF 1.34 67 Pn 01 11.81 0.0
Sg 01 30.75
REVF 1.44 75 Pn 01 13.00 -0.3
Sg 01 33.24
TOUF 1.45 64 Pn 01 14.02 0.5
AURF 1.45 70 Pn 01 13.52 0.0
FOUF 1.49 40 e(Pg) 01 14.71 0.9
e(Sg) 01 33.19
SBF 1.52 71 Pn 01 14.54 0.2
Sg 01 35.80
AUTN 1.56 67 Pn 01 15.30 0.2
Sg 01 37.73
SAOF 1.64 68 Pn 01 15.89 -0.2
DOI 1.71 49 P 01 17.90 0.7
eSg 01 45.50
BNI 1.88 28 P 01 21.30 1.6
eSn 01 49.00
CKI 2.29 62 P 01 26.20 0.6
eSn 02 00.00
PGF 2.74 107 Pn 01 30.88 -1.2
S.D. = 0.7 on 21 of 21 obs.

? FEB 19, 1991 21h 31m 05.51± 3.09s
38.168 N ±16.8km 20.106 E ±23.9km
DEPTH = 14.0 ± 5.1 km
GREECE (364)
MD 3.2 (ATH), 3.2 (THE).

VLS 0.38 88 ePb 31 14.00 0.5
IGT 1.37 7 ePd 31 33.06 2.9
eS 31 58.80
EVR 1.53 60 ePn 31 33.00 0.5
ITM 1.75 124 ePn 31 35.00 -0.6
AGG 1.94 63 eP 31 40.00 1.6
KZN 2.50 31 ePn 31 47.00 0.6
LIT 2.68 43 iPc 31 49.85 0.9
eS 32 28.50
FNA 2.79 20 eP 31 50.50 -0.1
eS 32 29.20
OHR 2.99 10 ePn 31 52.20 -1.1
PAIG 3.29 57 eP 31 57.60 0.0
GRG 3.30 32 eP 31 56.10 -1.7
eS 32 40.70
SOH 3.65 42 eP 32 02.50 -0.3
eS 32 50.00
KNT 3.69 35 ePc 32 01.38 -1.9
SKO 3.94 15 ePn 32 18.50 11.8X
SRS 3.99 41 ePc 32 06.22 -1.3
S.D. = 1.5 on 14 of 15 obs.

FEB 19, 1991 21h 50m 36.56± 0.36s
8.980 N ± 6.2km 126.594 E ± 7.6km
DEPTH = 34.4km (3 depth phases)
4.9mb (16 obs.) 4.4Msz (4 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

DAV 2.13 208 eP 51 18.80 8.2X
QCP 7.79 317 eP 52 18.00 -12.6X
BAG 9.43 322 eP 52 54.00 0.6
QIZ 19.06 303 eP 54 55.50 -3.4X
SSE 22.57 348 iPc 55 36.00 0.8
Z 20s 0.46um 3.9Msz
E 12s 0.55um
NJ2 24.06 344 Pc 55 50.70 1.1
0.7s 100.00nm 5.5mb
WHN 24.31 334 eP 55 52.50 0.4
IPM 25.76 262 ePd 56 09.30 3.2X
SNG 25.78 268 eP 56 10.60 4.3X
NNT 26.62 280 eP 56 17.80 3.8X
KHT 27.99 285 eP 56 25.50 -0.9
CHG 28.52 293 eP 56 31.60 0.3
CHTO 28.52 293 P 56 31.40 0.1
pP 56 41.20 35km
WB2 29.74 165 iPd 56 41.00 -1.2
XAN 29.77 329 P 56 39.00 -3.4X
TIY 31.34 338 Pc 56 55.50 -0.7
Z 14s 0.70um 4.5MszX
QIS 32.02 157 iPd 57 02.20 -0.1
0.7s 66.00nm 5.6mb
BJI 32.30 345 eP 57 03.50 -0.9
1.0s 18.00nm 4.9mb
SNY 32.82 356 Pc 57 08.00 -1.0
0.8s 20.00nm 5.1mb
Z 20s 0.60um 4.3Msz
N 20s 0.60um
ASPA 33.22 168 eP 57 12.30 -0.4
0.6s 9.50nm 4.9mb
LZH 34.01 326 eP 57 20.00 0.3
1.5s 17.00nm 4.8mb
E 15s 0.57um
pP 57 33.50 52kmX
sP 57 38.50
HHC 34.43 340 eP 57 20.20 -2.9
CN2 34.70 359 eP 57 25.60 0.4
Z 15s 0.80um 4.6MszX
epP 57 33.00 25km
BTO 34.76 338 eP 57 25.50 -0.5
MDJ 35.60 4 eP 57 32.20 -0.7
GTA 38.62 326 eP 57 57.40 -1.1
0.8s 10.00nm 4.7mb
Z 19s 0.70um 4.5Msz
E 20s 1.20um
GUN 42.70 302 P 58 32.78 0.2
0.9s 101.00nm 5.6mb
PKI 43.00 301 Pc 58 34.56 -0.4
0.7s 15.00nm 4.8mb
KKN 43.17 301 P 58 35.88 -0.4
DMN 43.26 301 Pc 58 36.80 -0.3
GKN 43.78 301 P 58 40.56 -0.6
0.7s 21.00nm 5.0mb
BRS 44.17 146 iPd 58 44.00 0.0
i 59 09.00 107kmX
HYB 47.41 285 ePc 59 11.00 1.0
e 59 23.00 43km
GBA 48.36 280 P 59 19.00 1.6
KOD 48.42 276 eP 59 19.80 1.6
WMQ 48.43 323 iPc 59 18.00 0.3
Z 18s 0.50um 4.5Msz
NDI 50.27 300 eP 59 30.50 -1.4
POO 51.95 286 iPd 59 44.40 -0.4
FBA 80.07 26 (P) 02 45.00 0.9
INK 85.36 22 eP 03 12.00 0.8
pP 03 29.00 60kmX
SOD 85.59 338 eP 03 13.00 0.6
MBC 86.89 13 eP 03 20.00 1.3
0.9s 19.00nm 5.3mb
KAF 86.91 332 eP 03 19.40 0.4
0.5s 2.20nm 4.6mb
NUR 88.07 331 eP 03 24.20 -0.4
0.5s 3.00nm 4.8mb
DAG 92.08 352 iPc 03 43.00 -0.1
0.9s 23.53nm 5.6mb
HFS 93.33 332 eP 03 50.50 1.4
0.4s 1.00nm 4.6mb
YKA 94.80 24 eP 03 56.00 0.2
0.6s 1.70nm 4.7mb
SIV 169.78 134 PKP 10 43.00 0.6
S.D. = 0.9 on 41 of 48 obs.

? FEB 19, 1991 22h 14m 35.71± 2.37s
47.561 N ±13.2km 7.041 E ±17.9km
DEPTH = 10.0km (geophysicist)
SWITZERLAND (544)
ML 1.8 (LDG).

BSF 0.32 328 Pg 14 42.60 0.2
Sg 14 51.80
HAU 0.65 314 Pg 14 48.40 -0.3
Sg 15 00.30
CDF 0.87 10 Pg 14 52.40 0.0
Sg 15 07.30
SMF 2.37 248 Pg 15 15.30 0.0
S.D. = 0.3 on 4 of 4 obs.

FEB 19, 1991 22h 39m 35.62± 1.18s
14.411 N ± 4.1km 60.603 W ±12.3km
DEPTH = 21.7 ± 7.3 km
WINDWARD ISLANDS (95)
ML 3.2 (FDF). MD 2.8 (TRN).

MVM 0.32 297 iPd 39 42.82 0.1
S 39 48.50
CRM 0.46 318 iPc 39 44.75 -0.2
S 39 51.30
BIM 0.47 283 iPd 39 45.36 0.2
S 39 52.70
SLW 0.51 220 eP 39 46.09 0.3
eS 39 54.03
FDF 0.62 301 iPd 39 47.25 -0.5
0.1s 0.70nm
S 39 56.60
SLB 0.72 216 iP 39 49.27 -0.2
eS 39 59.63
SVV 1.24 209 eP 39 57.21 -0.5
eS 40 13.89
SVB 1.30 209 eP 39 58.62 0.1
eS 40 15.76
BBL 1.39 323 eP 40 00.00 0.1
S 40 18.50
PAG 1.92 327 eP 40 08.20 0.7
S 40 32.00
DEG 1.94 347 eP 40 08.20 0.3
SEG 2.16 336 eP 40 10.00 -1.0
S.D. = 0.5 on 12 of 12 obs.

& FEB 19, 1991 23h 04m 56.70s
49.696 N 122.725 W
DEPTH = 5.2km
4.3mb (2 obs.)
BRITISH COLUMBIA (23)
<PGC>. ML 3.9 (PGC), 4.3 (SEA). Felt (V) in the north shore area of Vancouver. Also felt (V) at Squamish and along Howe Sound. Felt (IV) at Whistler; (III) in much of the greater Vancouver area and on the Gulf Islands as well as southern Vancouver Island; (II) at Agassiz, Delta and Huntington.

WPB 0.32 263 iPc 05 02.49 -0.6
HNB 0.43 167 iPd 05 04.38 -1.0
WHB 0.46 341 iPd 05 04.94 -0.9

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BIB     0.48 233 iPc    05 05.21   -1.0
VDB     0.78 149 iPd    05 10.41   -2.0
NAB     0.96 241 Pc     05 13.45   -1.9
SNB     0.97 198 Pd     05 14.21   -1.3
MCW     1.02 184 Pd     05 14.90   -1.6
MBW     1.06 149 Pd     05 15.27   -2.0
                S       05 29.46
PGC     1.15 205 eP     05 16.50   -2.1
VGZ     1.34 197 P      05 19.64   -2.3
OHW     1.38 175 Pd     05 21.06   -1.5
                S       05 40.21
ALB     1.44 254 Pc     05 21.55   -1.8
MGB     1.46 242 P      05 21.95   -1.9
RPW     1.48 147 Pd     05 22.32   -1.7
                S       05 41.73
PFB     1.59 226 Pc     05 23.55   -2.0
JCW     1.59 160 Pd     05 24.42   -1.2
                S       05 46.34
STW     1.67 202 Pd     05 24.89   -1.8
                S       05 46.30
BLN     1.70 186 Pd     05 25.63   -1.5
CBB     1.74 282 P      05 26.41   -1.3
BTB     1.83 264 P      05 27.34   -1.9
OSP     1.87 222 P      05 28.48   -1.2
PGW     1.88 177 Pd     05 28.79   -0.9
OBC     1.89 209 Pc     05 28.47   -1.4
BLH     1.92 166 P      05 29.62   -0.6
OTR     1.94 214 P      05 29.48   -1.1
OZB     1.95 249 P      05 29.43   -1.4
OSD     1.98 199 ePd    05 30.19   -1.3
HTW     2.00 161 P      05 30.85   -0.7
                S       05 57.62
OFK     2.05 212 P      05 31.69   -0.5
HDW     2.06 186 Pd     05 30.97   -1.5
PNT     2.06  99 eP     05 31.00   -1.4
GMW     2.15 181 Pd     05 32.40   -1.3
OOW     2.19 207 Pd     05 33.54   -0.7
NLW     2.26 135 Pd     05 34.32   -1.1
RMW     2.32 164 P      05 35.64   -0.6
SMW     2.41 190 P      05 37.15   -0.4
MEW     2.50 179 P      05 39.10    0.5
GSM     2.57 166 P      05 39.75    0.0
CBSW    2.60 136 P      05 39.20   -0.9
DHW2    2.60 130 P      05 38.82   -1.3
ETW     2.63 142 P      05 39.97   -0.6
GHW     2.67 173 P      05 40.68   -0.5
WTV     2.71 136 P      05 41.16   -0.6
CPW     2.74 186 Pd     05 41.33   -0.8
RVC     2.80 169 P      05 43.21    0.1
FMW     2.85 165 P      05 43.16   -0.8
TBM     2.90 150 P      05 44.74    0.3
ONR     2.91 194 P      05 43.20   -1.2
REMR    2.94 168 P      05 44.85   -0.2
LON     3.01 168 P      05 45.92   -0.1
LMW     3.04 174 P      05 46.35   -0.1
APW     3.05 179 Pd     05 45.74   -0.7
WPW     3.10 165 P      05 48.17    0.9
EBG     3.14 152 Pd     05 47.69    0.0
GLK     3.22 166 P      05 49.82    0.8
NAC     3.22 156 P      05 48.87   -0.1
BMW     3.24 186 Pd     05 48.16   -1.1
KOSW    3.26 173 P      05 49.19   -0.3
CZM     3.27 177 P      05 49.15   -0.5
ERK     3.40 176 P      05 51.26   -0.4
SOSW    3.48 173 P      05 52.65   -0.1
SHW     3.52 174 P      05 53.38    0.1
ESD     3.52 173 P      05 53.64    0.3
OD2     3.53 129 P      05 50.96   -2.3
RVW     3.55 180 P      05 52.89   -0.7
WAH2    3.62 143 P      05 54.64    0.1
WRD     3.63 137 P      06 01.24    6.6
ASR     3.63 167 P      05 55.07    0.3
MDW     3.67 146 P      05 54.84   -0.4
MTMW    3.69 174 P      05 55.81    0.1
RSW     3.92 146 P      05 58.30   -0.6
NEW     3.96 109 eP     05 57.50   -1.9
HSO     6.18 182 P      06 29.23   -1.6
DBO     6.59 183 P      06 34.94   -1.8
EDM     6.84  55 P      06 58.00   17.9
SES     7.56  80 eP     06 47.00   -3.2
      0.5s    26.00nm          5.7mb X
MCMT    8.29 122 eP     07 00.60   -0.1
YKA    13.59  16 eP     08 09.20   -3.1
      0.8s     0.80nm          3.7mb
FFC    13.66  60 eP     08 08.50   -4.8
      0.7s    10.00nm          4.9mb
      80 obs. associated
```

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* FEB 19, 1991 23h 46m 36.75± 0.58s
38.855 N ±11.7km 75.283 E ±15.8km
DEPTH = 33.0km (normal)
4.6mb (6 obs.)
SOUTHERN XINJIANG, CHINA (321)

```
GKN     13.34 141 P      49 45.64   -0.7
KKN     13.83 140 P      49 51.88   -1.0
DMN     13.89 141 P      49 53.64   -0.2
GUN     14.04 138 P      49 54.64   -1.2
PKI     14.08 140 P      49 55.56   -0.7
HYB     21.55 171 eP     51 27.00    1.6
GBA     25.22 175 P      52 04.00    2.9
HFS     43.38 320 eP     54 36.70   -0.6
      0.5s     2.60nm          4.2mb
NB2     44.60 321 P      54 46.40   -0.9
      0.9s     4.10nm          4.3mb
EKA     52.98 315 P      55 51.00   -1.0
      1.6s    21.20nm          4.9mb
BCAO    61.65 251 ePc    56 53.50   -0.4
      0.6s     5.00nm          4.8mb
MBC     64.80   4 eP     57 14.00    0.2
      0.5s     6.00nm          4.9mb
INK     71.00  11 eP     57 53.00    0.4
FBA     71.23  18 (P)    57 57.00    2.9
KIC     78.28 269 P      58 34.20   -1.1
YKA     78.68   5 eP     58 36.40   -0.2
      0.8s     1.00nm          3.9mb
      S.D. = 1.4  on  16 of  16 obs.
```

% FEB 20, 1991 00h 00m 56.56± 1.34s
37.825 N ±17.5km 15.038 E ±13.3km
DEPTH = 10.0km (geophysicist)
SICILY (398)

```
ATN     0.47  45 P      01 06.50    0.3
                eSg     01 13.60
SOI     0.84  73 P      01 12.70   -0.1
                eSg     01 28.00
FAI     1.21 244 Pd     01 19.20    0.1
TDS     2.09  29 P      01 30.10   -2.0
MGR     2.34  10 P      01 35.50   -0.2
ORI     2.49  26 P      01 39.70    1.9
      S.D. = 1.6  on   6 of   6 obs.
```

FEB 20, 1991 00h 21m 25.02± 0.84s
39.515 N ± 7.0km 21.053 E ± 7.9km
DEPTH = 5.0km (geophysicist)
GREECE (364)
MD 3.0 (ATH), 2.8 (THE).

```
EVR     0.84 135 ePb    21 40.00   -1.8
SRN     0.89 295 ePg    21 40.20   -2.3
                iSg     21 55.20
KZN     0.96  35 ePb    21 30.00  -13.9X
AGG     1.11 116 eP     21 46.70    0.4
                eS      22 05.80
LIT     1.25  62 eP     21 48.00   -0.8
                eS      22 08.20
FNA     1.29  11 eP     21 47.80   -1.6
                eS      22 05.70
VLS     1.38 195 ePn    21 52.50    1.5
OHR     1.61 353 iPn    21 54.70    0.5
NEO     1.69  96 ePg    21 56.00    0.6
VAY     2.14  32 ePn    22 01.30   -0.6
KNT     2.17  40 eP     22 01.50   -0.8
SOH     2.19  53 eP     22 03.00    0.3
PHP     2.22 348 ePn    22 04.70    1.7
SKO     2.47   7 ePn    22 09.00    2.4
                iSn     22 40.00
SRS     2.52  50 eP     22 07.60    0.3
MLR     6.98  30 eP     23 05.00   -5.5X
VRI     7.60  31 eP     23 22.00    2.9X
      S.D. = 1.5  on  14 of  17 obs.
```

? FEB 20, 1991 00h 41m 36.02± 3.99s
14.442 N ±43.9km 60.791 W ±40.6km
DEPTH = 50.0km (geophysicist)
WINDWARD ISLANDS (95)

```
MVM     0.15 318 eP     41 45.65    1.5
                S       41 55.40
BIM     0.28 285 eP     41 46.36    1.3
                S       41 56.70
CRM     0.33 339 eP     41 46.80    1.3
                S       41 57.70
FDF     0.45 310 iPc    41 48.09    1.3
      0.1s     0.45nm
                S       41 59.70
      S.D. = 0.2  on   4 of   4 obs.
```

---

* FEB 20, 1991 00h 56m 55.72± 2.22s
29.874 N ±25.0km 113.592 W ± 8.6km
DEPTH = 10.0km (geophysicist)
4.6mb (5 obs.)
GULF OF CALIFORNIA (49)

```
GLA     3.34 342 eP     57 55.00    5.9X
BAR     3.84 317 eP     57 57.00    0.8
PLM     4.45 322 eP     58 03.00   -2.0
TPC     4.71 334 eP     58 10.00    1.5
PEC     5.03 324 e(P)   58 20.00    7.0X
RVR     5.22 323 eP     58 25.00    9.4X
MWC     5.76 320 eP     58 21.00   -2.5
SBB     5.99 324 eP     58 33.00    6.4X
GSC     6.05 334 eP     58 27.00   -0.5
CLC     6.82 331 eP     58 38.00   -0.3
ALQ     7.87  48 eP     58 52.00   -1.1
ANMO    7.87  48 eP     58 52.00   -1.2
MSU     8.70   7 eP     59 09.50    4.8X
TNP     8.72 341 e(P)   59 12.00    7.0X
BONR    8.96 335 e(P)   59 14.00    5.6X
PV09    9.36  22 eP     59 14.50    0.6
KVN     9.88 339 e(P)   59 27.50    6.5X
CMB     9.90 327 e(P)   59 34.10   13.0X
                eLQ     01 54.00
GOL    11.90  32 e(P)   59 56.30    7.7X
WDC    12.94 328 e(P)   00 02.40    0.2
BW06   13.28  13 eP     00 10.50    3.5X
LRM    15.95   3 eP     00 47.50    5.6X
RSSD   16.12  26 eP     00 48.20    4.1X
      1.5s    38.59nm          4.3mb
UYO    16.78  70 e(P)   00 41.20  -11.1X
NEW    18.56 353 eP     01 15.80    1.3
      1.4s    35.87nm          4.4mb
OLY    19.43  67 eP     01 25.00   -0.1
SES    20.59   5 eP     01 38.00    0.6
      1.1s    83.00nm          5.0mb
FVM    20.82  61 eP     01 43.20    3.4X
ELC    21.57  64 eP     01 51.00    3.6X
FFC    26.21  15 eP     02 32.00   -0.1
      1.2s    18.00nm          4.6mb
PMR    39.36 334 e(P)   04 26.00   -0.6
INK    40.21 349 eP     04 35.00    1.4
FBA    41.01 339 e(P)   04 41.00    0.8
IMA    43.65 338 eP     05 01.90   -0.1
MBC    46.53 358 eP     05 26.00    1.4
      1.5s    16.00nm          4.8mb
      S.D. = 1.2  on  19 of  35 obs.
```

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* FEB 20, 1991 02h 01m 23.20± 2.47s
38.275 N ±15.2km 143.689 E ±19.9km
DEPTH = 32.5 ± 13.8 km
4.3mb (3 obs.)
OFF EAST COAST OF HONSHU, JAPAN (229)

```
OFUJ    1.77 298 iP+    01 50.80   -1.3
                eS      02 12.00
YAMJ    2.88 269 P      02 07.60   -0.2
KAKJ    3.48 235 P      02 16.20   -0.2
                eS      02 57.10
NIIJ    3.86 256 P      02 21.80    0.1
CHJJ    4.36 241 P      02 28.80   -0.1
KUSJ    4.88   9 P      02 36.60    0.4
                S       03 27.90
IIDJ    5.41 241 P      02 44.70    1.0
WRA    58.57 190 P      11 23.00    3.9X
      0.5s     2.20nm          4.5mb
HFS    73.69 336 eP     12 57.50    2.4X
      0.4s     1.10nm          4.2mb
NB2    73.73 338 P      12 57.10    1.7
      0.7s     2.50nm          4.3mb
LPB   144.70  61 PKP    21 02.00    2.9X
CNCB  144.97  61 ePKP   20 58.00   -1.8
      S.D. = 1.3  on   9 of  12 obs.
```

FEB 20, 1991 02h 13m 55.51± 0.54s
44.923 N ± 3.9km 6.777 E ± 6.3km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.4 (LDG), 2.3 (GEN).

```
RRL     0.01 120 P      13 56.96   -0.6
```

20d 02h

		S	13 58.50		
BHB	0.36	103 P	14 02.70	-0.1	
		S	14 08.85		
RSP	0.41	56 P	14 04.75	0.8	
		S	14 11.72		
PZZ	0.48	151 P	14 04.24	-1.0	
		S	14 10.49		
LPG	0.57	358 Pg	14 07.30	-0.1	
		Sg	14 17.50		
LPL	0.59	357 Pg	14 07.60	-0.1	
		Sg	14 18.00		
LSD	0.60	26 P	14 07.93	0.2	
		S	14 16.75		
STV	0.78	150 P	14 09.36	-1.5	
ENR	0.83	146 P	14 10.90	-0.8	
		S	14 22.18		
SBF	1.16	156 Pg	14 18.60	1.4	
		Sg	14 35.60		
FRF	1.37	184 Pg	14 21.30	0.7	
		Sg	14 39.50		
LRG	1.50	192 Pg	14 23.60	1.2	
		Sg	14 42.90		
LMR	1.60	187 Pg	14 24.80	0.9	
		Sg	14 45.20		
BGF	3.20	302 Pn	14 45.80	-1.0	

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

& FEB 20, 1991 04h 13m 29.00s
38.525 N 118.277 W
DEPTH = 4.0km
CALIFORNIA-NEVADA BORDER REGION (40)
<BRK>. ML 3.0 (BRK).

KVN	0.54	15 iP	13 39.00	-0.9	
BONR	0.57	182 iP	13 39.70	-0.7	
TNP	0.94	118 iP	13 46.20	-1.5	
CMB	1.73	254 iP	14 00.20	0.1	
		iS	14 22.80		
		i	14 25.00		
FRI	1.91	217 iP	14 03.90	1.4	
ARN	2.83	246 eP	14 20.70	4.8	
LLA	2.85	229 iPbc	14 19.20	3.1	
MHC	2.91	247 e(Pb)	14 22.30	5.2	
PRI	3.05	219 e(Pb)	14 23.00	4.0	
SAO	3.07	236 ePb	14 23.20	4.0	

10 abs. associated

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* FEB 20, 1991 04h 16m 16.80± 1.13s
19.441 N ± 8.1km 64.949 W ±16.0km
DEPTH = 10.0km (geophysicist)
4.4mb (3 abs.)
VIRGIN ISLANDS (91)

LPR	1.42	218 iP	16 42.10	-0.7	
CPD	1.67	213 iP	16 46.00	-0.2	
SJG	1.74	221 iP	16 46.50	-0.8	
PORP	2.11	229 iP	16 52.10	-0.6	
MCP	2.29	244 iP	16 54.70	-0.5	
MGP	2.48	235 iP	16 57.50	-0.4	
MORO	9.12	201 eP	18 32.50	1.0	
TOV	10.68	207 eP	18 54.00	1.0	
CEOS	10.86	198 eP	18 54.90	-0.5	
SDV	11.85	208 eP	19 11.60	2.5	
SIV	35.42	174 P	23 13.60	-1.6	
BW06	44.07	312 eP	24 28.00	1.0	
	0.8s	4.40nm		4.3mb	
NEW	50.74	317 eP	25 18.90	0.0	
	0.7s	13.20nm		5.0mb	
YKA	54.78	334 eP	25 48.50	-0.3	
	0.7s	0.70nm		3.8mb	
MBC	63.08	347 eP	26 50.50	4.3X	
INK	64.19	337 eP	26 45.00	-8.6X	

S.D. = 1.1 on 14 of 16 obs.

FEB 20, 1991 04h 31m 10.52± 0.27s
45.839 N ± 2.1km 7.135 E ± 2.7km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
MD 2.8 (STR). ML 2.8 (LDG), 2.5 (GEN).

LSD	0.38	178 P	31 18.30	-0.1	
		S	31 23.69		
RSL	0.39	247 Pg	31 18.46	0.0	
		Sg	31 23.44		
LPL	0.43	221 Pg	31 19.20	-0.1	
		Sg	31 24.60		
LPG	0.43	218 Pg	31 19.40	-0.1	
		Sg	31 25.00		
ORX	0.63	109 P	31 22.87	-0.4	
		S	31 30.88		
ORO	0.63	110 P	31 22.80	-0.5	
		eSg	31 30.50		
RSP	0.69	173 P	31 24.30	0.0	
		S	31 32.73		
BNI	0.85	203 P	31 27.00	0.0	
		eSg	31 37.50		
RRL	0.95	195 P	31 28.92	0.1	
		S	31 41.03		
BHB	1.00	175 P	31 29.84	0.3	
		S	31 42.65		
PZZ	1.33	181 P	31 35.50	0.3	
		S	31 50.26		
DOI	1.34	177 P	31 36.00	0.8	
		eSg	31 48.80		
STV	1.60	175 P	31 39.06	0.1	
SBF	1.99	174 Pg	31 49.60	5.0X	
		Sg	32 16.00		
BSF	2.01	353 Pn	31 45.30	0.4	
		Pg	31 48.80		
		Sg	32 14.80		
FEL	2.12	16 ePn	31 46.56	-0.1	
HAU	2.23	346 Pn	31 48.60	0.5	
		Pg	31 54.00		
		Sg	32 21.60		
FRF	2.30	189 Pg	31 55.40	6.3X	
		Sg	32 24.00		
SMF	2.42	291 Pn	31 51.00	0.2	
		Sg	32 26.80		
LBF	2.47	299 Pn	31 51.50	0.1	
		Sg	32 22.00		
CDF	2.58	2 Pn	31 52.80	-0.2	
		Pg	32 00.70		
LOR	2.67	303 Pn	31 55.00	0.6	
		Pg	32 01.20		
		Sg	32 34.20		
AVF	2.79	291 Pn	31 56.70	0.7	
		Pg	32 04.00		
		Sg	32 37.70		
SSF	2.79	297 Pn	31 55.60	-0.4	
BGF	3.06	285 Pn	32 00.00	0.1	
		Sg	32 46.40		
MAF	3.21	278 Pn	32 00.80	-1.1	
		Sg	32 50.00		
CAF	3.69	257 Pn	32 08.00	-0.8	

S.D. = 0.5 on 25 of 27 obs.

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* FEB 20, 1991 04h 46m 37.05± 0.60s
60.736 N ±12.7km 167.118 E ± 7.0km
DEPTH = 33.0km (normal)
4.5mb (14 abs.)
EASTERN SIBERIA (671)

IMA	18.10	56 eP	50 48.70	1.4	
	1.5s	27.50nm		4.2mb	
RSO	19.49	73 eP	51 08.70	4.6X	
FBA	20.65	59 eP	51 15.60	-0.4	
INK	25.63	48 eP	52 05.00	0.4	
YKA	35.14	52 eP	53 27.70	-1.3	
	0.6s	1.60nm		4.1mb	
SES	44.45	65 eP	54 46.00	-0.3	
FFC	45.17	55 eP	54 51.00	-0.9	
	0.6s	6.00nm		4.7mb	
BW06	50.85	71 eP	55 36.00	-0.5	
	1.0s	5.67nm		4.5mb	
TNP	50.88	80 eP	55 36.40	-0.3	
	0.7s	2.22nm		4.2mb	
RSSD	52.31	65 eP	55 46.70	-0.8	
	0.8s	4.61nm		4.5mb	
PV09	54.41	74 e(P)	56 04.80	1.6	
NB2	57.14	346 P	56 20.50	-1.8	
	0.7s	4.90nm		4.6mb	
APO	57.30	345 eP	56 23.60	0.3	
	1.6s	53.50nm		5.3mb	
ALQ	58.55	74 eP	56 32.80	0.2	
CHTO	63.11	260 P	57 02.50	-1.0	
CLL	66.39	343 eP	57 26.00	1.8	
KHC	68.42	342 eP	57 37.50	0.3	
ZST	68.74	339 eP	57 39.30	0.2	
LOR	71.50	348 eP	57 55.50	-0.4	
	0.8s	6.70nm		4.7mb	
SSF	71.74	348 eP	57 57.10	-0.2	
LBF	71.77	348 eP	57 57.50	0.0	
	0.8s	4.05nm		4.5mb	
AVF	72.02	348 eP	57 58.90	-0.1	
	0.9s	6.55nm		4.6mb	
TCF	72.63	349 eP	58 02.60	0.0	
LSF	72.73	350 eP	58 03.20	0.0	
LPL	72.91	346 eP	58 04.80	0.3	
	0.8s	4.70nm		4.5mb	
LPG	72.92	346 eP	58 05.20	0.5	
	0.8s	5.35nm		4.6mb	
WRA	84.65	211 P	59 09.00	0.8	
	1.8s	3.70nm		4.3mb	

S.D. = 0.9 on 26 of 27 obs.

FEB 20, 1991 04h 48m 07.06± 0.23s
22.626 S ± 5.2km 113.022 W ± 5.1km
DEPTH = 10.0km (geophysicist)
5.6mb (24 obs.) 5.7Msz (19 obs.)
EASTER ISLAND REGION (685)
Ms 5.6 (PAS), 5.5 (BRK).
Mo=5.0*10**17 Nm (PPT).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 39C
Centroid Location:
Origin Time 04:48:12.3 0.6
Lat 22.95S 0.05 Lon 112.58W 0.03
Dep 15.0 FIX Half-duration 3.3
Moment Tensor; Scale 10**17 Nm
Mrr= 2.24 0.15 Mtt=-4.21 0.14
Mff= 1.97 0.21 Mrt= 0.00 0.00
Mrf= 0.00 0.00 Mtf= 6.66 0.17
Principal Axes:
T Val= 6.23 Plg= 0 Azm=123
N 2.24 90 180
P -8.47 0 33
Best Double Couple:Mo=7.3*10**17
NP1:Strike=16B Dip=90 Slip=-180
NP2: 258 90 0

RKT	20.23	264 eP	52 50.00	4.8X	
	1.6s	315.00nm		5.4mb	
TPT	33.56	277 eP	54 50.00	0.6	
	1.4s	175.00nm		5.8mb	
PAE	34.62	271 eP	55 01.00	2.4	
	1.4s	235.00nm		5.9mb	
AFR	34.83	272 eP	55 03.00	2.6	
	1.4s	185.00nm		5.8mb	
PT10	35.89	79 eP	55 09.00	-0.5	
NNA	36.03	79 iPc	55 10.50	-0.3	
	1.2s	75.00nm		5.4mb	
TACH	38.47	116 eP	55 31.50	0.5	
PEL	38.63	115 iPd	55 35.50	3.0	
SAN	38.68	116 eP	55 33.00	0.2	
FCH	38.98	115 eP	55 35.00	-0.7	
ANT	39.08	100 eP	55 36.50	0.3	
ARE	39.52	89 eP	55 41.00	0.7	
		e	01 47.00		
		i	04 47.00		
VC1	40.13	62 P	55 47.60	1.9	
GGP	40.25	61 P	55 48.30	1.6	
YANA	40.30	61 P+	55 48.00	1.0	
QUR	40.30	61 P	55 48.50	1.6	
COTA	40.75	61 eP	55 52.50	1.7	
CAYA	40.89	61 eP	55 49.50	-2.4X	
ACX	41.31	19 iP	55 56.30	1.7	
OXX	42.56	23 iP	56 07.20	2.1	
LPB	42.64	90 Pc	56 05.80	-0.3	
	1.8s	454.55nm		5.9mb	
Z	22s	5.93um		5.4Msz	
		S	02 33.00		
		e	05 45.00		
		LR	08 15.00		
CNCB	42.67	91 iP	56 07.50	1.0	
ZOBO	42.68	90 iPc	56 07.30	0.6	
	1.2s	114.86nm		5.5mb	
Z	21s	3.74um		5.3Msz	
		iS	02 38.00		
		LR	08 20.00		
III	42.85	19 iP	56 08.00	0.6	
MRX	43.63	16 iP	56 15.50	2.0	
PPM	43.76	20 eP	56 16.90	1.7	
CRX	43.76	18 (P)	56 17.70	2.8	
IISM	44.09	22 iP	56 18.30	1.1	
CCH	44.22	92 P	56 17.20	-1.6	
UPA	45.42	50 iPc-	56 28.20	0.2	
	1.0s	60.00nm		5.5mb	
Z	20s	8.51um		5.7Msz	
		S	03 11.00		

LPA	49.27	117	iP+	56	57.60	-0.4
	Z 20s		5.67um			5.6Msz
			eS	04	06.00	
SIV	49.27	92	P	56	57.20	-1.1
SDV	52.00	58	eP	57	19.00	-0.3
AIA	52.89	157	eP	57	25.70	0.7
TOV	53.21	57	eP	57	26.40	-1.7
BAR	55.10	356	eP	57	42.00	0.3
GLA	55.39	358	eP	57	44.00	0.2
PLM	55.79	356	eP	57	46.00	-0.8
PEC	56.34	356	P	57	50.00	-0.6
RVR	56.46	356	eP	57	51.00	-0.3
TPC	56.49	357	eP	57	52.00	0.3
PAS	56.67	355	eP	57	53.00	0.1
			ePcS	02	09.00	
			eS	06	04.00	
			eSS	09	44.00	
			eLg	12	46.00	
			eLR	14	11.00	
PPD	56.71	102	ePd	57	52.80	-0.7
			e	57	55.10	
MWC	56.74	355	eP	57	54.00	0.4
SYP	57.22	353	eP	57	57.00	0.0
ALQ	57.59	6	eP	57	58.70	-0.9
	1.5s	50.00nm				5.3mb
	Z 19s	7.71um				5.8Msz
ANMO	57.59	6	P	58	06.00	6.4X
	Z 19s	7.29um				5.8Msz
GSC	57.72	356	eP	58	00.00	-0.4
ISA	58.20	355	eP	58	04.00	0.3
CLC	58.28	356	eP	58	04.00	-0.3
PRI	58.89	353	eP	58	09.20	0.6
PRS	59.17	352	eP	58	10.40	0.0
UYO	59.17	18	iPd	58	09.20	-1.3
LLA	59.39	353	eP	58	11.90	-0.1
SAO	59.60	352	eP	58	13.10	-0.3
FRI	59.63	354	ePd	58	12.70	-0.8
MHC	60.20	352	ePd	58	17.90	0.3
			eLR	16	52.00	
TNP	60.51	356	P	58	19.90	0.1
	1.0s	52.50nm				5.6mb
CMB	60.73	353	ePd	58	21.00	-0.1
			eS	06	47.00	
			eLQ	14	10.00	
			eLR	17	02.00	
BKS	60.80	352	e(P)	58	22.30	0.8
	1.1s	77.00nm				5.7mb
	Z 20s	2.70um				5.4Msz
	N 20s	2.10um				
	E 20s	2.00um				
			eLQ	13	58.00	
			eLR	17	02.00	
BRK	60.80	352	e(P)	58	20.50	-1.0
	Z 20s	3.30um				5.5Msz
			eLR	17	03.00	
ZSP	60.87	352	eP	58	22.00	0.0
PV09	60.91	3	P	58	21.80	-0.8
BAO	61.43	96	ePd	58	24.80	-1.7
ORV	62.36	353	eP	58	32.10	0.0
GOL	62.41	7	P	58	30.80	-1.9
	0.9s	17.05nm				5.2mb
	Z 18s	6.93um				5.9Msz
GLD	62.48	7	P	58	40.00	6.9X
	Z 18s	9.20um				6.0Msz
BMA	62.98	105	eP	58	34.90	-1.7
			e	58	46.00	
RSCP	63.48	25	P	58	36.70	-2.9X
WDC	63.50	352	ePd	58	39.00	-0.6
FVM	63.92	20	P	58	40.30	-2.1
	1.3s	105.26nm				5.9mb
BW06	65.15	3	P	58	48.00	-2.6X
	0.8s	32.74nm				5.6mb
RSSD	66.93	7	P	59	00.70	-1.2
	1.0s	48.81nm				5.6mb
	Z 21s	11.20um				6.1Msz
BLA	66.98	28	P	59	00.80	-1.4
	1.4s	44.44nm				5.5mb
SPA	67.51	180	iPc	59	06.00	0.6
SOB1	70.08	92	eP	59	21.40	-0.5
NEW	70.66	357	P	59	24.80	0.1
	1.0s	50.00nm				5.6mb
PGC	71.56	353	eP	59	30.00	0.0
PNT	71.86	355	ePc	59	32.00	0.1
SES	72.72	1	eP	59	37.00	0.0
	1.3s	92.00nm				5.7mb
DZM	73.51	253	iPc	59	42.90	0.6
EDM	75.53	360	iPc	59	52.50	-0.6
RSNY	75.54	27	P	59	52.00	-1.4
	0.9s	37.17nm				5.4mb
	Z 18s	2.97um				5.6Msz
FFC	77.61	7	iPc	00	04.30	-0.5
	1.4s	78.00nm				5.6mb
CBM	80.22	29	P	00	19.60	0.5
YKA	84.83	359	eP	00	40.80	-1.7
	1.2s	19.50nm				5.2mb
TOO	85.06	231	eP	00	45.00	0.5
BALM	86.68	346	P	00	52.30	0.3
SCH	86.68	25	eP	00	52.00	0.0
RMO	87.06	243	eP	00	55.50	0.9
SLKM	88.18	343	P	00	58.80	-0.3
TOA	88.49	345	eP	00	54.30	-6.3X
PMR	88.79	344	eP	01	02.30	0.4
	1.0s	35.00nm				5.6mb
SVW	90.23	341	eP	01	07.00	-1.8
	1.0s	65.00nm				5.8mb
FBA	91.27	346	eP	01	13.40	0.0
	1.8s	79.90nm				5.8mb
INK	91.91	353	iPd	01	15.80	-0.4
FRB	92.83	18	eP	01	19.00	-1.6
DOU	124.64	44	PKP	07	08.00	-0.2
NB2	125.96	30	PKP	07	11.40	0.9
	1.0s	5.70nm				
ABH	126.56	44	ePKP	07	11.29	-0.7
KEV	127.23	16	ePKP	07	04.00	-8.6X
APO	127.38	30	ePKP	07	12.30	-0.9
	0.5s	0.70nm				
SOD	128.70	19	iPKP	07	14.60	-0.9
GRF	128.94	44	ePKP	07	17.20	0.7
	Z 22s	2.00um				5.8Msz
		e		07	23.80	
		e		07	32.50	
PTZ	129.39	133	iPKP	07	17.90	-0.6
CLL	129.71	41	ePKP	07	18.00	0.1
	2.3s	51.00nm				
BCAO	129.83	104	iPKPc	07	18.00	-1.3
	0.9s	18.00nm				
		ic		07	33.90	
		ic		10	41.20	
WET	130.11	44	ePKP	07	19.40	0.6
KHC	130.56	44	PKP	07	20.60	0.9
	1.5s	17.50nm				
	Z 20s	1.40um				5.7Msz
	N 20s	0.40um				
	E 20s	1.20um				
KBA	130.82	47	e(PKP)	07	12.00	-8.4X
	1.3s	13.80nm				
		i		07	26.40	
PRU	130.98	43	PKP	07	21.70	1.3
	2.2s	58.30nm				
	Z 20s	1.70um				5.7Msz
	N 20s	0.50um				
	E 20s	1.10um				
		e		09	33.80	
		e		10	07.00	
KSP	131.83	41	ePKPc	07	23.00	1.0
KAF	131.84	24	iPKP	07	23.60	2.0
	1.1s	22.30nm				
NUR	132.10	27	iPKP	07	23.80	1.7
	1.0s	38.00nm				
		i		07	28.40	
PTJ	132.82	48	ePKP	07	24.50	0.4
ZAG	132.85	48	ePKP	07	25.30	1.3
ZST	133.05	44	ePKP	07	23.50	-0.9
SRO	133.94	45	ePKP	07	25.50	-0.5
KRA	134.29	41	ePKP	07	21.70	-4.9X
		e		07	40.70	
SPC	134.76	42	ePKP	07	28.10	0.3
PSZ	134.93	44	e(PKP)	07	28.00	-0.1
BJI	135.12	305	ePKP	07	28.00	-0.5
	Z 22s	1.80um				5.7Msz
		PP		10	00.00	
		PKS		11	04.00	
LWI	135.31	119	iPKPd	07	25.10	-4.9X
OHR	137.22	53	ePKP	07	29.00	-3.6X
	1.2s	72.00nm				
TIY	138.33	302	ePKP	07	33.00	-1.8
	Z 22s	2.40um				5.9Msz
	E 18s	1.20um				
HHC	138.45	307	ePKP	07	36.00	1.0
	Z 31s	1.90um				5.6MszX
VAY	138.48	53	ePKP	07	26.00	-8.9X
MLR	139.65	46	ePKP	07	32.70	-4.3X
BTO	139.65	307	ePKP	07	36.00	-1.1
VRI	140.03	45	ePKPc	07	34.00	-3.5X
CFR	141.21	45	ePKP	07	40.00	0.4
XAN	141.61	297	ePKP	07	36.50	-4.3X
GYA	143.79	284	PKP	07	43.00	-1.9
SNG	144.17	250	ePKP	07	41.50	-4.1X
KHL	144.40	55	iPKP	07	44.00	-1.5
ALT	144.64	54	iPKP	07	44.70	-1.2
ELL	145.09	58	iPKP	07	46.70	-0.1
LZH	145.39	301	iPKPc	07	46.00	-1.4
	Z 22s	2.24um				5.9Msz
	E 20s	1.68um				
		sPKP		07	57.00	
CD2	146.26	292	ePKP	07	46.00	-2.8X
KMI	147.26	282	PKPd	07	52.00	1.2
	Z 30s	1.00um				5.4MszX
HLW	147.33	70	ePKP+	07	53.50	3.0X
PPCY	147.43	60	e(PKP)	07	52.50	2.0
GTA	147.49	309	ePKP	07	50.80	0.2
	Z 28s	2.80um				5.9MszX
	E 23s	2.10um				
NST	147.97	263	ePKP	07	56.40	4.6X
CSS	148.20	60	ePKP	07	55.00	3.2X
KHT	149.10	261	ePKP	07	58.70	5.1X
BDT	149.46	266	ePKP	07	52.90	-1.2
AAE	149.75	112	ePKP	07	51.50	-3.6X
CHG	149.89	269	ePKP	07	53.40	-1.4
	1.3s	69.23nm				
BHL	150.32	61	PKP	07	53.00	-2.1
WMQ	152.81	326	PKP	07	59.00	0.5
	Z 20s	1.00um				5.6Msz
		SKKS		18	28.50	
SHL	157.09	282	ePKP	08	04.50	-0.4
KSH	161.55	337	ePKP	08	09.00	-0.3
HYB	167.95	247	ePKP	08	15.00	-0.4
		e		09	23.00	
NDI	168.97	305	iPKPc	08	16.00	0.3
POO	172.38	239	iPKPd	08	16.80	-0.8

S.D. = 1.1 on 133 of 156 obs.

FEB 20, 1991 05h 23m 05.52± 0.91s
39.381 N ± 5.3km 20.816 E ± 9.2km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
MD 3.0 (ATH), 2.9 (THE).

EVR	0.90	121	ePg	23	22.50	-0.3
KZN	1.18	38	ePg	23	26.30	-1.3
VLS	1.22	188	ePb	23	28.00	-0.2
			eSb	23	46.00	
AGG	1.23	106	eP	23	28.60	0.2
			eS	23	48.50	
FNA	1.47	17	eP	23	31.60	-0.4
			eS	23	53.00	
LIT	1.48	60	eP	23	33.70	1.5
			eS	23	54.50	
OHR	1.73	360	iPn	23	36.50	0.7
			iSn	23	58.80	
			LQ	24	03.30	
			LR	24	08.30	
PLG	2.25	63	ePn	23	43.50	0.1
VAY	2.36	34	ePn	23	45.00	0.2
KNT	2.39	41	eP	23	45.20	-0.1
SOH	2.42	53	eP	23	46.40	0.6
SRS	2.74	50	eP	23	49.50	-0.9

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

FEB 20, 1991 05h 34m 12.30± 0.41s
39.420 N ± 4.4km 20.677 E ± 3.5km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
ML 3.5 (ATH). MD 3.3 (THE).

SRN	0.70	312	iPg	34	27.60	1.6
			iSg	34	39.60	
LSK	0.73	355	iPgc	34	26.10	-0.6
			iSg	34	39.50	
EVR	1.01	119	ePg	34	29.80	-1.7
KZN	1.22	43	ePb	34	33.90	-1.2
VLS	1.24	183	ePb	34	35.70	0.3
			eSb	34	54.20	
AGG	1.34	107	eP	34	36.30	-0.8
			eS	34	54.50	
VLO	1.39	319	ePn	34	39.00	1.4
			iSn	35	01.00	
FNA	1.46	21	eP	34	39.10	0.3
			eS	34	59.00	
LIT	1.55	63	eP	34	39.60	-0.5
			eS	35	01.80	

20d 05h

OHR	1.69	3	iPnc	34	44.10	2.0
			iSn	35	06.70	
			LQ	35	14.70	
			LR	35	16.20	
NEO	1.98	92	ePb	34	45.00	-1.2
TIR	2.02	342	ePn	34	48.50	1.7
			iSn	35	20.00	
THE	2.13	55	eP	34	49.50	1.1
			eS	35	16.30	
PHP	2.27	356	ePn	34	51.00	0.6
LCI	2.29	294	P	34	49.50	-1.1
LACI	2.33	342	iPnd	34	52.00	0.7
			iSn	35	34.20	
PLG	2.33	65	ePn	34	50.60	-0.8
VAY	2.39	37	iPn	34	52.30	0.3
			iSn	35	17.40	
			iSg	35	23.40	
			LQ	35	36.30	
KNT	2.43	44	eP	34	53.00	0.3
			eS	35	23.40	
ITM	2.44	156	ePb	34	55.00	2.1
SOH	2.48	55	eP	34	53.60	0.1
			eS.	35	25.40	
SKO	2.61	13	iPn	34	56.20	0.9
			iSn	35	30.00	
			iSg	35	37.10	
			LQ	35	45.00	
KKS	2.66	356	ePn	34	57.50	1.6
			iSn	35	35.50	
ATH	2.78	120	ePb	34	59.00	1.3
SRS	2.80	52	eP	34	57.70	-0.3
BRT	3.03	300	P	34	59.20	-2.0
			eSn	35	51.00	
MMB	3.18	46	eP	35	03.00	-0.3
BDV	3.19	334	ePn	35	03.00	-0.4
TTG	3.19	341	ePn	35	03.30	-0.1
			e(Sn)	35	40.00	
PVY	3.22	351	ePn	35	05.00	1.1
VLI	3.23	146	ePn	35	04.30	0.2
ORI	3.32	282	P	35	08.80	3.4X
BAI	3.37	301	P	35	06.00	0.0
HCY	3.45	332	ePn	35	06.00	-1.1
			e(Sn)	35	45.00	
NKY	3.62	340	ePn	35	09.00	-0.6
RZN	3.82	52	iPg	35	12.00	-0.6
MGR	4.01	282	P	35	16.50	1.4
SGO	4.28	287	P	35	19.80	0.9
HVAR	4.92	321	iPn	35	25.60	-2.4
DUI	5.24	297	P	35	34.40	1.8
MNS	6.74	299	P	35	53.00	-0.8
ASS	7.05	304	P	35	57.80	-0.4
ARV	7.09	308	P	35	56.30	-2.4
MLR	7.21	31	eP	36	03.50	3.2X
PTJ	7.35	333	eP	35	58.10	-4.2X
CVO	7.57	31	eP	36	05.60	0.3
CRE	7.78	306	P	36	08.00	-0.3
SFI	7.99	307	P	36	09.00	-2.2
TRI	8.09	323	ePnd	36	08.50	-4.1X
			iSn	37	36.30	
FVI	9.21	324	P	36	22.00	-6.0X
CTI	9.38	318	P	36	26.50	-4.0X

S.D. = 1.2 on 45 of 51 obs.

FEB 20, 1991 05h 49m 24.35± 0.40s
8.575 S ± 7.0km 108.565 E ± 9.6km
DEPTH = 33.0km (normal)
5.1mb (9 obs.)
JAVA (277)

IPM	15.08	330	ePc	52	59.00	2.2
NANU	15.43	155	eP	52	58.60	-2.7
			eS	55	36.00	
TSM	15.86	37	ePd	53	17.50	10.6X
MBL	16.57	140	eP	53	16.00	0.1
	0.4s		39.00nm			4.9mb
			eS	56	03.00	
MEKA	20.28	153	eP	54	01.00	0.9
			eS	57	22.00	
KNA	20.98	112	eP	54	09.00	1.6
MRWA	21.69	162	eP	54	16.00	1.6
			e	54	24.00	
			eS	58	01.00	
MUN	24.35	164	eP	54	59.00	18.6X
			eS	59	06.00	
KLB	24.45	161	eP	55	02.00	20.6X
			eS	59	09.00	
WARB	24.53	138	eP	54	32.00	-10.3X
			e	55	02.00	
			eS	59	14.00	
COOL	25.11	154	eP	55	07.00	19.2X
			eS	59	24.00	
WB2	27.38	117	iPd	55	11.00	2.1
			eS	00	29.00	
CHG	28.82	341	eP	55	21.80	-0.1
GYA	34.87	357	P	56	16.60	1.7
KOD	36.16	300	eP	56	28.00	1.8
SHL	37.62	335	eP	56	48.50	10.3X
GBA	37.95	305	Pc	56	39.90	-1.0
	0.6s		16.80nm			5.1mb
HYB	39.33	311	eP	56	52.00	-0.5
SSE	41.26	17	P	57	08.50	0.4
XAN	42.38	0	Pc	57	18.60	1.3
POO	43.57	308	eP	57	25.30	-2.0
LZH	44.64	355	Pc	57	36.20	0.3
	0.8s		24.00nm			5.1mb
KAGJ	44.95	27	eP	57	38.50	0.3
KUMJ	46.07	26	eP	57	47.20	0.2
TIY	46.19	4	P	57	48.00	0.0
NDI	47.83	322	iPc	58	00.00	-1.0
	0.6s		80.00nm			5.9mb
GTA	48.43	351	iPd	58	07.40	1.8
	0.6s		10.00nm			5.0mb
BJI	48.88	8	eP	58	09.00	0.1
	1.0s		28.00nm			5.2mb
HHC	49.25	3	eP	58	12.40	0.5
SNY	52.01	14	Pd	58	32.00	-0.8
	1.2s		20.00nm			5.0mb
MTMJ	52.65	30	P	58	36.80	-1.0
CHJJ	52.82	31	P	58	37.50	-1.5
KAKJ	53.55	32	P	58	41.80	-2.4
CN2	54.33	15	eP	58	48.50	-1.4
			PcP	59	53.00	
WMQ	55.48	342	iPc	58	58.50	0.1
MDJ	56.25	18	eP	59	02.50	-1.3
PTZ	75.63	257	iP	01	21.00	12.4X
BUL	77.71	251	iPd	01	21.00	0.8
	0.8s		6.72nm			4.7mb
LSZ	78.56	256	iPd	01	25.00	0.1
			i	01	51.80	
BCAO	90.68	274	iPc	02	25.90	0.1
	0.4s		13.00nm			5.6mb
YKA	117.78	21	ePKP	08	07.60	-1.0
	0.6s		1.80nm			
TNP	129.44	47	PKP	08	33.40	1.4
GOL	136.66	39	PKP	08	45.30	-0.5
PPD	143.74	213	ePKP	08	56.50	-2.1
SOB1	144.82	241	ePKP	08	59.90	-0.8
			e	09	22.20	
SIV	153.52	203	PKP	09	14.80	0.8
ZOBO	155.10	188	(PKP)	09	20.00	3.2X

S.D. = 1.3 on 39 of 47 obs.

FEB 20, 1991 06h 39m 17.12± 0.83s
41.113 N ± 6.0km 22.408 E ± 6.2km
DEPTH = 5.0km (geophysicist)
YUGOSLAVIA (383)
MD 2.0 (THE). ML 1.4 (SKO).

GRG	0.16	182	ePc	39	20.99	0.6
			eS	39	23.50	
VAY	0.24	30	iPg	39	22.60	0.6
			iSg	39	26.40	
KNT	0.37	82	ePc	39	25.22	0.6
			iS	39	30.61	
THE	0.64	138	ePc	39	29.33	-0.6
			eS	39	38.14	
SOH	0.77	112	eP	39	32.00	-0.7
FNA	0.85	248	eP	39	33.20	-0.8
SRS	0.90	89	ePc	39	33.77	-1.0
			eS	39	46.66	
LIT	1.01	176	ePc	39	37.50	0.7
			eS	39	51.85	
PAIG	1.53	140	ePc	39	45.61	0.5
			eS	40	06.22	

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

---

* FEB 20, 1991 07h 15m 17.41± 0.84s
13.116 S ±23.7km 72.311 W ±12.7km
DEPTH = 33.0km (normal)
3.9mb (1 obs.)
PERU (116)

NNA	4.56	284	eP	16	25.70	-0.3
	0.6s		35.33nm			
			i	16	27.80	
			eS	17	15.80	
PT10	4.66	282	eP	16	28.00	0.6
			eS	17	19.50	
ZOBO	5.12	128	iP	16	35.00	0.6
			S	17	34.00	
LPB	5.30	130	P	16	36.00	-0.8
	1.0s		24.00nm			4.6mb X
			(S)	17	36.00	
CNC8	5.57	132	iP	16	40.80	0.1
			(S)	17	24.00	
SIV	11.25	106	P	17	57.60	-1.5
SOB1	31.05	86	eP	21	37.30	2.4
			e	21	44.10	
YKA	82.25	342	eP	27	34.90	-1.5
	0.8s		1.00nm			3.9mb

S.D. = 1.5 on 8 of 8 obs.

& FEB 20, 1991 07h 24m 05.04s
60.085 N 141.337 W
DEPTH = 6.6km
SOUTHEASTERN ALASKA (19)
<AEIC>.

YAH	0.35	324	eP	24	12.38	0.3
BCPM	0.86	98	iP	24	21.20	-0.8
			eS	24	34.37	
CTGM	0.88	0	eP	24	21.38	-1.0
			eS	24	34.82	
YKU	0.97	123	eP	24	22.73	-1.1
TGL	1.00	313	eP	24	23.14	-1.3
			eS	24	37.73	
PNL	1.06	112	eP	24	24.03	-1.4
			eS	24	39.64	
BALM	1.08	333	eP	24	24.46	-1.2
			eS	24	39.73	
HQN	1.40	116	iP	24	28.96	-2.0
			eS	24	47.69	
GLB	1.82	319	eP	24	35.81	-1.4
			eS	25	00.77	
KLU	2.65	304	eP	24	47.64	-1.5
VLZ	2.68	295	eP	24	47.72	-1.6
VZW	2.75	293	eP	24	48.45	-2.1
TZL	2.79	316	eP	24	49.79	-1.3
GLI	2.96	288	eP	24	53.43	0.1
TOA	3.10	313	eP	24	53.90	-1.5

15 obs. ossociated

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* FEB 20, 1991 07h 25m 29.28± 0.65s
17.856 S ±15.9km 178.596 W ±14.5km
DEPTH = 592.3 ± 7.5 km
4.7mb (7 obs.)
FIJI ISLANDS REGION (181)

MBU	2.71	289	iPd	26	46.10	-0.6
			S	27	52.30	
SVA	2.82	264	eP	26	48.10	0.9
			eS	27	53.90	
DZM	14.67	251	iPc	28	34.30	-0.1
BRS	28.02	245	iP	30	36.00	-0.1
COO	29.65	239	iPc	30	49.30	-0.8
	0.9s		29.00nm			4.9mb
CNB	33.32	232	iPd	31	21.20	0.3
CMS	34.90	240	iPc	31	34.00	0.0
	0.6s		20.00nm			4.9mb
TOO	37.06	231	iPc	31	52.00	0.2
	0.9s		63.00nm			5.2mb
SPA	72.26	180	iPd	35	56.10	-0.8
	1.0s		20.00nm			4.6mb
SYP	76.26	47	eP	36	20.00	0.4
MWC	77.44	48	eP	36	26.00	0.0
PLM	77.83	49	eP	36	28.00	-0.2
ISA	77.91	46	eP	36	28.00	-0.4
CLC	78.59	46	eP	36	32.00	0.1
TPC	78.80	49	eP	36	33.00	0.0
GLA	79.16	50	eP	36	36.00	1.1
TNP	80.05	45	P	36	39.80	0.1
PNT	84.79	34	iP	37	03.00	0.1
	0.8s		13.00nm			4.6mb
FBA	85.80	13	P	37	06.50	-0.9
ALQ	86.20	52	eP	37	10.00	-0.2
	0.9s		2.73nm			4.0mb
SES	90.08	36	ePc	37	27.20	-0.5
INK	91.88	15	eP	37	35.00	-0.5
YKA	94.36	25	eP	37	45.90	-1.1
	0.5s		1.00nm			4.3mb
KSP	145.01	343	iPKP	44	02.20	1.1

```
CLL   145.37 347 iPKP  44 02.90   1.3
       0.7s     19.00nm
FLN   149.13   2 ePKP  44 11.90   4.2X
CDF   149.15 352 ePKP  44 12.50   4.7X
LDF   149.32   2 ePKP  44 12.20   4.3X
GRR   149.49   3 ePKP  44 13.00   4.8X
       1.0s     20.00nm
HAU   149.66 353 ePKP  44 13.50   5.0X
BSF   149.78 353 ePKP  44 13.80   5.0X
LOR   150.60 357 ePKP  44 15.80   5.8X
       0.5s      2.55nm
SSF   150.82 357 ePKP  44 16.50   6.2X
       0.5s      2.90nm
LBF   150.87 356 ePKP  44 16.40   6.0X
MFF   151.31   2 ePKP  44 17.10   6.1X
LSF   151.69 360 ePKP  44 17.80   6.2X
MAF   151.70 358 ePKP  44 18.50   6.9X
       0.8s      4.05nm
LFF   152.99   1 ePKP  44 13.90   0.5
     S.D. = 0.7  on  26 of  38 obs.
-------------------------------------
   FEB  20, 1991  07h 38m 08.10± 1.34s
   45.831 N ± 8.4km   26.740 E ± 7.6km
   DEPTH = 119.7 ± 15.2 km
 ROMANIA                          (358)

VRI     0.04 344 iPc   38 24.00   0.0
CVO     0.40 269 iPc   38 25.50  -0.2
MLR     0.65 239 iPc   38 27.50   0.0
CLI     0.81  27 iPc   38 29.00   0.4
PTT     1.13 348 eP    38 31.50  -0.2
CFR     1.19 123 iPc   38 32.00  -0.3
CMP     1.32 245 ePc   38 38.00   4.1X
TNR     1.74 265 ePd   38 39.00   0.2
PSN     2.38 154 iPd   38 47.00   0.1
PVL     2.80 202 eP    38 53.00   0.6
BZS     3.60 268 ePc   39 08.00   5.0X
PGB     3.77 210 eP    39 05.00  -0.4
VTS     4.12 219 eP    39 10.00  -0.2
     S.D. = 0.4  on  11 of  13 obs.
-------------------------------------
?  FEB  20, 1991  07h 38m 42.08± 2.12s
    0.976 S ±25.9km   80.731 W ±14.6km
   DEPTH =  33.0km  (normal)
   3.6mb (  1 obs.)
 NEAR COAST OF ECUADOR            (105)

GGP     2.28  70 P     39 18.10  -0.6
YANA    2.32  68 P     39 18.50  -0.7
TUNG    2.33 101 eP    39 19.30   0.1
QUR     2.34  70 ePn   39 19.00  -0.5
VC1     2.35  82 eP    39 19.40  -0.3
COTA    2.72  61 eP    39 25.00   0.0
                 eS    40 05.50
CAYA    2.94  69 eP    39 30.00   1.9
                 eS    40 09.00
YKA    68.26 344 eP    49 41.50   0.0
       1.0s      0.60nm          3.6mb
     S.D. = 1.0  on   8 of   8 obs.
-------------------------------------
%  FEB  20, 1991  08h 03m 46.73± 0.88s
   43.996 N ±11.1km   11.502 E ± 4.9km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                    (381)
      MD 2.7 (ROM).

PGD     0.20 127 P     03 50.80  -0.4
                 eSg   03 54.90
SFI     0.26 106 P     03 51.50  -0.8
                 eSg   03 58.00
FIR     0.28 219 ePg   03 52.50  -0.1
                 iSg   03 58.00
CRE     0.49 138 P     03 56.30  -0.4
                 eSg   04 06.30
MME     0.61 289 P     03 59.00  -0.2
                 eSg   04 08.00
BDI     0.66 276 P     03 59.70  -0.2
                 eSg   04 09.10
PII     0.76 249 P     04 02.00   0.5
                 eSg   04 12.00
ARV     1.16 115 P     04 10.00   1.6
                 eSg   04 27.00
     S.D. = 0.9  on   8 of   8 obs.
-------------------------------------
   FEB  20, 1991  09h 18m 31.75± 0.69s
   40.427 N ± 6.0km   21.837 E ± 6.1km
   DEPTH =  10.0km  (geophysicist)
 GREECE                           (364)
      MD 2.7 (THE).

FNA     0.50 316 eP    18 41.70  -0.2
LIT     0.60 123 ePc   18 43.44  -0.4
                 eS·   18 52.40
GRG     0.68  39 ePc   18 44.52  -0.8
                 eS    18 56.60
                 eS    18 57.36
OHR     1.04 311 ePn   18 51.50   0.0
VAY     1.05  32 ePn   18 52.70   1.1
KNT     1.09  47 ePc   18 52.00  -0.2
                 eS    19 07.44
AGG     1.45 165 eP    18 58.30   0.2
PAIG    1.50 109 ePc   18 58.92   0.3
     S.D. = 0.7  on   8 of   8 obs.
-------------------------------------
%  FEB  20, 1991  09h 28m 11.26± 0.81s
   40.419 N ± 5.5km   23.319 E ± 7.6km
   DEPTH =   5.0km  (geophysicist)
 GREECE                           (364)
      MD 1.6 (THE).

THE     0.34 308 ePc   28 17.80  -0.4
                 eS    28 22.64
SOH     0.40   4 eP    28 19.70   0.3
PAIG    0.56 151 ePd   28 22.46  -0.1
                 iS    28 30.19
LIT     0.71 244 ePc   28 25.60   0.2
                 eS    28 36.87
KNT     0.81 337 ePd   28 26.98  -0.4
                 eS    28 39.39
GRG     0.88 308 ePc   28 29.07   0.4
                 eS    28 41.64
     S.D. = 0.5  on   6 of   6 obs.
-------------------------------------
   FEB  20, 1991  10h 17m 21.00± 0.71s
   47.992 N ± 5.1km    7.534 E ± 5.3km
   DEPTH =  10.0km  (geophysicist)
 SWITZERLAND                      (544)
      ML 2.8 (LDG).

MOF     0.30 243 Pg    17 26.73  -0.7
ECH     0.34 312 Pg    17 27.79  -0.2
                 Sg    17 32.19
FEL     0.34 110 ePg   17 28.19   0.1
WLS     0.44 344 Pg    17 30.12   0.2
CDF     0.45 338 Pg    17 30.23   0.0
                 Sg    17 36.46
BSF     0.52 252 Pg    17 33.00   1.4
                 Sg    17 40.30
HAU     0.80 271 Pg    17 35.80  -0.7
                 Sg    17 45.60
LOMF    0.80 217 Pg    17 36.43  -0.2
                 Sg    17 48.10
VITF    1.06 283 Pg    17 41.20   0.2
                 Sg    17 54.95
LOR     2.59 255 Pg    18 09.20   5.6X
                 Sg    18 40.00
     S.D. = 0.7  on   9 of  10 obs.
-------------------------------------
&  FEB  20, 1991  10h 38m 35.37s
   60.952 N          150.893 W
   DEPTH =  11.2km
   2.6mb (  1 obs.)
 KENAI PENINSULA, ALASKA          ( 14)
      <AEIC>.

NKA     0.27 219 iP    38 43.15   2.0
SUA     0.52   8 eP    38 45.84  -0.1
SLKM    0.55 143 iP    38 46.10  -0.5
                 eS    38 53.67
SPU     0.61 293 iP    38 46.73  -0.9
                 eS    38 54.84
CRP     0.69 298 iP    38 48.42  -0.6
                 eS    38 57.66
PMS     0.71  65 eP    38 48.86  -0.4
                 eS    38 58.77
CKL     0.74 290 eP    38 48.97  -1.0
NCG     0.76 307 iP    38 49.36  -0.9
                 S     39 00.37
BGL     0.79 294 iP    38 49.86  -0.9
                 S     39 00.65
RDT     0.83 244 iP    38 50.51  -0.9
PWA     0.86  34 eP    38 51.79   0.1
                 eS    39 04.38
NNL     0.93 193 eP    38 53.69   0.6
REF     1.00 243 iP    38 53.41  -1.0
                 S     39 07.21
RDN     1.02 245 iP    38 53.28  -1.3
RSO     1.04 243 iP    38 54.03  -1.0
RS2     1.04 243 iP    38 54.07  -1.0
                 eS    39 08.59
PLRM    1.07  52 eP    38 54.24  -1.1
                 eS    39 08.05
RED     1.07 241 eP    38 54.39  -1.0
                 eS    39 08.43
NCT     1.07 249 iP    38 54.41  -1.1
SKT     1.08 344 eP    38 54.94  -0.6
SEW     1.11 139 eP    38 55.50  -0.6
BRLK    1.19 180 eP    38 56.45  -1.1
                 eS    39 11.54
GHO     1.26  48 eP    38 57.75  -0.9
KNK     1.27  68 eP    38 58.69  -0.1
                 eS    39 15.48
HOM     1.35 196 eP    38 59.97  -0.1
                 eS    39 18.07
CNPM    1.44 187 eP    39 00.45  -0.9
CUT     1.49  11 eP    39 02.30   0.3
KNIM    1.67 110 eP    39 04.51  -0.1
GLI     1.86  91 eP    39 07.44   0.1
MTU     1.87 120 eP    39 08.16   0.6
PDB     2.01 236 eP    39 09.30  -0.3
AUE     2.02 219 eP    39 09.75   0.0
AUH     2.04 220 eP    39 10.86   0.8
AUI     2.06 219 eP    39 10.93   0.7
VZW     2.12  85 eP    39 11.78   0.6
VLZ     2.23  83 eP    39 13.32   0.7
SVW     2.31 276 eP    39 12.82  -1.1
CDD     2.46 216 eP    39 15.80  -0.2
KLU     2.47  75 eP    39 16.75   0.6
SYI     2.47 199 eP    39 17.05   1.0
MCNL    2.47 226 eP    39 16.34   0.1
TOA     2.54  61 eP    39 18.92   1.7
YKA    17.12  69 eP    42 36.50   0.8
       0.6s      0.30nm          2.6mb
     43 obs. associated
-------------------------------------
   FEB  20, 1991  11h 42m 34.12± 0.84s
   49.121 N ± 5.3km    6.841 E ± 9.0km
   DEPTH =  10.0km  (geophysicist)
 GERMANY                          (543)
      MD 2.5 (STR).

GWF     0.53 105 Pg    42 44.42  -0.5
RUP     0.60  14 ePg   42 45.27  -1.0
CDF     0.77 158 Pg    42 48.51  -0.6
WLS     0.79 154 Pg    42 48.84  -0.6
ECH     0.93 167 Pg    42 52.41   0.5
                 Sg    43 05.48
VITF    1.07 212 Pg    42 54.33   0.1
MOF     1.28 171 Pg    42 58.57   0.6
                 Sg    43 16.82
FEL     1.47 148 Pg    43 01.58   0.8
TNS     1.52  43 ePnc  43 02.80   1.4
                 eSn   43 21.70
LOMF    1.77 180 Pn    43 04.42  -0.7
     S.D. = 0.9  on  10 of  10 obs.
-------------------------------------
   FEB  20, 1991  11h 43m 25.70± 0.23s
    9.047 N ± 4.1km  126.551 E ± 5.5km
   DEPTH =  38.1km  ( 10 depth phases)
   5.4mb ( 31 obs.)  4.9Msz ( 12 obs.)
 MINDANAO, PHILIPPINE ISLANDS     (259)
      CENTROID, MOMENT TENSOR     (HRV)
      Doto Used: GDSN
      L.P.B.: 14S, 34C
      Centroid Locotion:
      Origin Time        11:43:27.9 0.6
      Lot  8.99N 0.07 Lon 127.11E 0.06
      Dep  15.0 FIX Half-duration  1.9
      Moment Tensor;   Scole 10**17 Nm
        Mrr= 1.81 0.07  Mtt= 0.17 0.10
        Mff=-1.99 0.09  Mrt=-0.36 0.24
        Mrf= 0.71 0.32  Mtf=-0.26 0.08
       Principal Axes:
        T  Val=  2.03  Plg=74  Azm=221
        N         0.10      13        3
        P        -2.13      10       95
       Best Double Couple:Mo=2.1*10**17
        NP1:Strike=200 Dip=37 Slip= 112
        NP2:       354     56       74

DAV     2.17 206 iPc   44 05.90   5.7X
```

20d 11h

QCP		7.72	317	eP	45	18.00	-0.5
BAG		9.35	322	eP	45	41.00	-0.3
ANP		16.75	344	eP	47	22.00	2.7
QZH		17.53	335	eP	47	25.00	-4.0X
		8.0s	1840.00nm				5.3mb X
	Z	17s	8.90um				4.5Msz
	N	17s	7.90um				
HKC		17.75	319	P	47	30.00	-1.7
GZH		18.84	319	P	47	42.00	-3.1X
	Z	18s	8.90um				
	N	16s	3.80um				
	E	16s	5.40um				
QIZ		18.99	303	P	47	48.00	1.1
		1.6s	300.00nm				5.3mb
	N	15s	2.80um				
	E	14s	4.20um				
			sS		51	30.50	
KAGJ		22.40	10	P	48	23.80	1.5
SSE		22.50	348	iPc	48	22.70	-0.6
		1.0s	185.00nm				5.5mb
	Z	20s	3.20um				4.7Msz
	N	12s	1.30um				
	E	13s	2.80um				
			sP		48	33.00	
			S		52	26.00	
			sS		52	39.00	
KUMJ		23.71	9	P	48	35.60	0.5
NJ2		23.98	344	Pc	48	38.00	0.3
		1.0s	250.00nm				5.7mb
	Z	18s	1.60um				4.5Msz
	N	11s	1.50um				
			sP		48	55.00	
WHN		24.23	334	ePc	48	40.20	0.0
	Z	16s	2.00um				4.7MszX
	E	14s	3.50um				
			pP		48	49.00	31km
PCT		25.22	285	eP	48	50.20	0.4
LOE		25.53	292	eP	48	54.00	1.3
IPM		25.72	262	ePd	48	56.40	1.9
		1.1s	255.60nm				5.7mb
SNG		25.74	268	eP	48	57.30	2.6
			eS		53	24.00	
NST		26.61	287	eP	49	04.50	1.8
KMI		27.73	308	Pd	49	13.00	-0.2
	Z	20s	4.20um				5.0Msz
			pP		49	22.50	34km
KHT		27.93	284	eP	49	16.00	1.3
BDT		28.01	290	eP	49	14.00	-1.4
TIA		28.37	344	Pc	49	17.30	-1.2
	Z	20s	2.20um				4.8Msz
	N	10s	1.05um				
	E	12s	1.20um				
			S		53	57.00	
CHG		28.46	293	ePc	49	19.20	-0.3
		1.0s	15.50nm				4.6mb
RAB		28.73	116	e(P)	49	20.00	-1.9
XAN		29.69	329	P	49	27.60	-2.8
	N	13s	1.80um				
	E	14s	1.50um				
WB2		29.81	165	iPd	49	29.90	-1.7
			e		55	09.50	
CD2		30.40	319	eP	49	36.60	-0.2
	Z	16s	7.40um				5.4MszX
	N	15s	1.30um				
MBL		30.73	192	eP	49	39.00	-0.7
		0.6s	12.00nm				4.8mb
TIY		31.26	338	Pc	49	43.00	-1.3
	Z	16s	2.40um				5.0MszX
	N	16s	2.20um				
			S		54	49.00	
QIS		32.10	157	iPd	49	49.80	-1.9
		1.0s	131.00nm				5.8mb
BJI		32.22	345	eP	49	51.50	-1.0
		1.1s	21.00nm				4.9mb
	Z	22s	2.15um				4.8Msz
	E	24s	4.42um				
			eS		55	00.00	
SNY		32.75	356	iPc	49	56.00	-1.1
		1.2s	200.00nm				5.9mb
	Z	20s	3.30um				5.0Msz
	N	12s	1.40um				
	E	12s	1.30um				
			pP		50	08.00	45km
			S		55	06.00	
NANU		33.22	199	eP	50	01.50	0.1
ASPA		33.30	168	iPc	50	00.70	-1.4
		0.5s	13.80nm				5.1mb
LZH		33.94	326	Pd	50	07.80	0.1
		1.0s	28.00nm				5.1mb
			sP		50	28.50	
			sS		55	40.00	
HHC		34.35	340	eP	50	10.20	-1.0
	Z	17s	3.00um				5.1MszX
	N	14s	1.20um				
			sP		50	24.00	
			sS		55	55.00	
CN2		34.63	359	Pc	50	12.60	-0.8
	Z	17s	5.50um				5.4MszX
	N	14s	1.40um				
	E	14s	0.80um				
			pP		50	22.00	32km
			PcS		56	36.00	
BTO		34.69	338	eP	50	14.00	-0.1
	N	14s	1.00um				
	E	14s	1.60um				
			eS		55	37.50	
CTA		34.85	146	iPd	50	16.00	0.5
		1.0s	36.00nm				5.3mb
			iS		55	44.00	
WARB		35.02	180	eP	50	17.00	0.1
		0.4s	13.00nm				5.2mb
MDJ		35.53	4	Pd	50	20.80	-0.3
		1.3s	200.00nm				5.9mb
	Z	20s	1.80um				4.8Msz
			S		55	52.00	
MEKA		36.29	192	iPc	50	28.10	0.4
SHL		36.79	301	eP	50	30.50	-1.7
			iS		56	13.00	
GTA		38.54	326	eP	50	45.50	-1.1
		1.4s	20.00nm				4.8mb
	Z	18s	6.50um				5.5Msz
	E	16s	4.80um				
			pP		50	54.00	29km
			PP		52	19.00	
			PcP		52	59.60	
			S		56	40.00	
			ScP		56	46.60	
			ScS		00	53.20	
MRWA		39.38	195	eP	50	54.50	1.0
FORR		39.70	178	eP	50	56.00	-0.1
KLB		41.27	191	eP	51	09.00	-0.1
RMQ		41.39	149	eP	51	09.00	-1.1
MUN		41.97	193	eP	51	15.10	0.3
GUN		42.63	302	P	51	19.96	-0.8
		1.0s	285.00nm				6.0mb
NWAO		42.67	192	eP	51	21.40	0.9
	Z	20s	0.70um				4.6Msz
PKI		42.93	301	P	51	21.92	-1.2
		0.9s	59.00nm				5.3mb
KKN		43.10	301	P	51	23.28	-1.2
		0.9s	92.00nm				5.5mb
DMN		43.19	301	P	51	24.06	-1.2
		0.9s	90.00nm				5.5mb
GKN		43.71	301	P	51	27.80	-1.5
		1.0s	72.00nm				5.4mb
BRS		44.25	146	iPd	51	31.50	-1.9
			e		51	58.00	115kmX
			iS		58	04.00	
CMS		44.33	156	e(P)	51	34.00	0.0
COO		46.31	149	eP	51	55.00	5.2X
HYB		47.35	285	ePc	51	59.00	0.7
		1.0s	75.00nm				5.6mb
			e		52	10.50	41km
GBA		48.31	280	P	52	06.10	0.4
WMO		48.35	323	iPc	52	05.00	-0.8
BFD		48.36	163	eP	52	05.00	-0.8
KOD		48.37	276	eP	52	07.80	1.2
TOO		49.65	160	eP	52	16.00	0.3
NDI		50.20	300	eP	52	18.00	-2.1
POO		51.89	286	iPc	52	31.80	-1.3
QUE		59.28	300	eP	53	26.00	-0.5
ANM		72.53	25	eP	54	50.90	0.4
SVW		76.25	29	eP	55	13.80	1.8
		0.9s	85.00nm				5.7mb
TAB		76.80	307	eP	55	16.00	0.3
BRW		77.22	19	eP	55	19.00	1.8
IMA		77.63	24	eP	55	20.90	1.2
		1.2s	15.50nm				4.9mb
			e		55	34.00	45km
SLKM		78.85	30	P	55	26.30	0.0
PMR		79.40	29	eP	55	29.60	0.4
			e		55	42.30	43km
FBA		80.03	26	ePc	55	32.80	0.2
		1.2s	16.80nm				4.9mb
TOA		80.80	28	eP	55	38.40	1.6
			e		55	51.60	45km
BALM		82.69	29	P	55	48.00	1.3
KVT		84.51	311	eP	55	49.00	-7.3X
INK		85.31	22	eP	56	00.00	0.3
SOD		85.52	338	eP	56	06.00	5.2X
KAF		86.83	332	eP	56	06.40	-0.9
		1.3s	36.60nm				5.4mb
MBC		86.84	13	eP	56	07.50	0.4
		1.0s	71.00nm				5.9mb
VRI		90.34	316	eP	56	26.00	1.6
MLR		90.97	316	eP	56	27.00	-0.4
DAG		92.01	352	iPc	56	30.40	-1.0
		1.1s	49.37nm				5.9mb
HFS		93.25	332	eP	56	37.20	-0.2
		0.5s	1.70nm				4.7mb
	Z	17s	1.04um				5.4MszX
			LR		35	47.00	
KRA		93.59	322	eP	56	39.70	0.5
			e		56	51.20	37km
NB2		93.97	334	P	56	39.60	-1.2
		0.9s	8.20nm				5.2mb
YKA		94.75	24	eP	56	43.50	-0.8
		1.1s	5.40nm				4.9mb
KSP		95.51	323	eP	56	48.50	0.5
PRU		96.87	323	Pc	56	54.00	-0.2
	Z	18s	1.60um				5.5Msz
	E	17s	1.00um				
KHC		97.78	322	eP	56	59.00	0.6
	Z	18s	0.50um				5.0Msz
	N	18s	0.50um				
	E	18s	0.50um				
PNT		98.22	37	eP	57	14.00	13.6X
NEW		100.17	37	Pdiff	57	09.80	0.6
		0.8s	12.50nm				5.5mb
ALQ		113.53	46	ePKP	02	02.00	-0.3
	Z	18s	0.34um				5.0Msz
UYO		122.05	40	iPKPc	02	18.70	0.4
LKO		128.90	290	PKP	02	32.54	0.4
KIC		129.10	286	PKP	02	34.10	1.6
TIC		129.28	286	PKP	02	34.30	1.5
LIC		129.41	286	PKP	02	34.40	1.4
CNCB		163.88	120	PKP	03	29.50	2.2
LPB		163.90	119	ePKP	03	27.00	-0.2
	Z	20s	0.35um				
			eLR		00	20.00	
ZOBO		163.99	118	PKPc	03	29.20	1.7
	Z	22s	0.26um				
			i		04	23.70	
			LR		00	28.00	
SIV		169.85	134	PKP	03	31.80	0.7
	S.D. = 1.2		on	97	of	104	obs.

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* FEB 20, 1991 11h 52m 18.78± 0.75s
9.155 N ±13.4km 126.446 E ±11.7km
DEPTH = 39.0km (2 depth phases)
4.8mb (8 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

SSE		22.37	348	P	57	16.00	1.0
		1.0s	37.00nm				4.8mb
			i		57	25.50	35km
IPM		25.64	261	ePd	57	49.00	2.3
CHTO		28.32	293	P	58	10.00	-1.2
MUN		42.06	193	eP	00	08.00	-0.5
GUN		42.49	302	P	00	13.00	0.4
		0.8s	27.00nm				5.1mb
PKI		42.78	301	P	00	14.18	-0.8
		0.7s	11.00nm				4.7mb
KKN		42.96	301	P	00	16.18	-0.1
		0.6s	11.00nm				4.8mb
DMN		43.05	301	P	00	16.80	-0.3
GKN		43.56	301	P	00	20.28	-0.8
		0.5s	9.00nm				4.8mb
HYB		47.22	285	eP	00	51.00	0.7
POO		51.76	286	eP	01	24.00	-1.1
FBA		79.97	26	P	04	25.00	-0.3
INK		85.25	22	eP	04	52.00	-0.4
			pP		05	05.00	44km
MBC		86.75	13	eP	05	00.50	0.8
		1.0s	11.00nm				5.0mb
DAG		91.89	352	iPd	05	24.30	0.4
		0.9s	5.04nm				4.9mb
YKA		94.70	24	eP	05	36.80	-0.2
		0.7s	0.60nm				4.1mb
	S.D. = 1.0		on	16	of	16	obs.

? FEB 20, 1991 12h 04m 20.94± 1.06s
36.929 N ±12.8km 29.516 E ± 9.2km
DEPTH = 33.0km (normol)
TURKEY (366)
MD 3.2 (ISK).

ELL	0.36	120	iPg	04 29.60	-0.1
			iSg	04 37.10	
BCK	1.01	58	ePn	04 39.00	0.1
YER	1.01	282	iPn	04 38.90	0.1
KHL	1.39	0	iPn	04 44.20	-0.1

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

? FEB 20, 1991 12h 07m 53.12± 2.91s
35.505 N ±37.1km 27.190 E ±22.9km
DEPTH = 33.0km (normol)
DODECANESE ISLANDS (369)
MD 3.8 (ATH).

KAP	0.05	345	iPbc	07 58.00	-0.7
			eSb	08 02.00	
NPS	1.31	260	ePn	08 15.70	0.4
			eSn	08 32.50	
YER	1.85	28	ePn	08 23.40	0.3
VLI	3.65	291	ePn	08 48.50	-0.1

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

? FEB 20, 1991 12h 26m 18.00± 5.86s
33.483 N ±55.3km 83.316 E ±32.3km
DEPTH = 33.0km (normol)
TIBET (306)
MD 3.5 (NDI).

GKN	5.58	168	P	27 38.80	-2.2
KKN	5.92	163	P	27 47.40	1.5
GUN	5.98	158	P	27 52.40	5.6X
DMN	6.06	165	P	27 48.00	0.1
PKI	6.16	162	P	27 49.80	0.4
NDI	7.09	229	iPnc	28 02.50	0.4
QUE	14.29	261	eP	29 40.00	-0.2

S.D. = 1.6 on 6 of 7 obs.

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* FEB 20, 1991 12h 26m 42.79± 0.47s
8.791 N ± 7.2km 126.715 E ±10.9km
DEPTH = 38.1km (3 depth phases)
5.1mb (14 obs.) 4.5Msz (2 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

DAV	2.03	214	iP-	27 19.90	4.6X
OCP	8.01	317	eP	28 41.00	1.3
BAG	9.65	322	eP	29 04.70	2.2
QZH	17.83	335	eP	30 54.00	4.2X
	Z 17s		2.10um		
	N 13s		0.88um		
			eS	34 06.00	
QIZ	19.26	304	eP	31 01.80	-5.4X
	N 14s		1.00um		
	E 15s		1.70um		
			eS	34 39.00	
SSE	22.78	348	P	31 41.40	-1.8
	1.2s		68.00nm	5.0mb	
	Z 18s		0.90um	4.3Msz	
	N 12s		0.50um		
	E 12s		0.80um		
			sP	32 04.00	
			S	35 48.00	
NJ2	24.27	344	eP	31 55.00	-2.6
	Z 15s		0.60um	4.2MszX	
WHN	24.53	334	eP	31 56.00	-4.1X
PCT	25.44	286	eP	32 11.80	2.8
LOE	25.77	292	eP	32 16.00	4.0X
IPM	25.85	262	ePd	32 13.30	0.5
	1.0s		69.30nm	5.2mb	
SNG	25.89	268	eP	32 15.80	2.6
NST	26.84	287	eP	32 24.20	2.3
KHT	28.15	285	eP	32 34.90	1.1
BDT	28.25	290	eP	32 33.00	-1.6
CHG	28.71	293	eP	32 37.10	-1.7
WB2	29.53	165	eP	32 45.90	-0.2
MBL	30.52	193	eP	32 53.00	-1.9
	0.5s		7.00nm	4.7mb	
TIY	31.55	338	eP	33 01.50	-2.5
QIS	31.80	157	iPd	33 05.40	-0.8
BJI	32.51	345	eP	33 10.00	-2.1
	1.2s		17.00nm	4.8mb	
SNY	33.02	356	Pd	33 16.20	-0.3
	1.2s		70.00nm	5.4mb	
NANU	33.03	199	eP	33 16.50	-0.3
WARB	34.76	180	eP	33 31.00	-0.8
CN2	34.89	358	Pc	33 36.00	3.3X
MDJ	35.78	4	eP	33 39.70	-0.5
	1.5s		220.00nm	5.9mb	
			pP	33 51.00	40km
MEKA	36.08	192	eP	33 43.00	0.0
GTA	38.84	326	eP	34 05.60	-0.6
	Z 18s		1.10um	4.7Msz	
	E 20s		1.40um		
FORR	39.44	178	eP	34 10.40	-0.6
KLB	41.06	192	eP	34 24.50	0.1
MUN	41.76	193	eP	34 30.50	0.3
NWAO	42.46	192	eP	34 36.30	0.4
ADE	44.97	166	iPd	34 57.00	0.7
BFD	48.07	163	eP	35 26.00	5.4X
GBA	48.51	280	Pc	35 21.60	-2.8
	0.6s		5.90nm	4.8mb	
KOD	48.56	276	eP	35 26.20	1.1
WMO	48.65	323	Pd	35 23.50	-1.7
	Z 16s		0.90um	4.9MszX	
			ScS	45 12.00	
QUE	59.54	300	eP	36 43.00	-2.4
ANM	72.70	25	eP	38 10.10	1.6
SVW	76.39	29	eP	38 32.10	2.2
IMA	77.80	24	ePc	38 39.80	2.1
PMR	79.54	29	eP	38 48.20	1.1
FBA	80.19	26	eP	38 52.00	1.5
INK	85.49	22	eP	39 19.00	1.3
	1.0s		31.00nm	5.5mb	
			pP	39 30.00	35km
SOD	85.81	338	eP	39 25.00	5.7X
MBC	87.05	13	eP	39 26.00	0.8
	1.1s		51.00nm	5.7mb	
			pP	39 38.00	39km
KAF	87.13	332	eP	39 27.50	1.7
	0.7s		4.60nm	4.8mb	
NUR	88.30	331	eP	39 36.30	4.9X
VRI	90.64	317	eP	39 52.00	9.2X
MLR	91.26	316	eP	39 50.00	4.2X
DAG	92.28	352	eP	39 47.00	-2.8
	1.0s		11.00nm	5.2mb	
HFS	93.55	333	eP	39 55.10	-0.8
	0.9s		9.10nm	5.2mb	
NB2	94.27	334	P	40 03.40	4.1X
	1.0s		6.00nm	5.0mb	
YKA	94.92	24	eP	40 02.50	0.3
	0.7s		3.50nm	4.9mb	
ZOBO	163.73	119	PKP	46 35.00	-9.3X
SIV	169.56	134	PKP	46 48.60	0.6

S.D. = 1.6 on 43 of 56 obs.

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* FEB 20, 1991 13h 05m 24.47± 1.75s
37.586 N ±18.2km 17.435 W ±12.3km
DEPTH = 10.0km (geophysicist)
3.6mb (1 obs.)
NORTH ATLANTIC OCEAN (402)
mbLg 3.8 (MDD).

PTO	7.71	60	ePn	07 20.20	0.8
			e	07 28.00	
			eSn	07 38.20	
EZAM	8.12	53	ePn	07 26.00	0.8
			eSn	08 48.00	
STS	8.61	49	ePn	07 32.50	0.5
			eSn	09 00.20	
GIBL	9.19	91	eP	07 46.00	5.9X
EPLA	9.20	71	ePn	07 38.00	-2.2
			eSn	09 14.50	
ERUA	9.24	56	ePn	07 40.00	-0.7
			eSn	09 14.00	
LIJA	9.61	90	eP	07 46.00	0.0
EMON	9.66	50	ePn	07 46.50	0.0
			eSn	09 25.50	
EHOR	9.66	85	ePn	07 47.00	0.5
			eSn	09 24.50	
GUD	10.76	69	ePn	08 01.00	-0.8
			eSn	09 51.50	
EBAN	10.81	83	ePn	08 03.00	0.7
			eSn	09 52.00	
EVIA	11.81	80	ePn	08 16.40	0.4
			eSn	10 17.60	
ETOR	12.36	70	ePn	08 23.60	0.2
			eSn	10 32.70	
YKA	60.54	328	eP	15 36.70	-0.1
	0.6s		0.30nm	3.6mb	

S.D. = 0.9 on 13 of 14 obs.

& FEB 20, 1991 13h 34m 44.82s
61.410 N 149.577 W
DEPTH = 34.5km
SOUTHERN ALASKA (2)
<AEIC>.

PMS	0.17	177	iP	34 51.23	-0.1
PLRM	0.28	49	iP	34 51.82	-0.6
			eS	34 57.95	
PWA	0.28	329	iP	34 52.38	-0.1
GHO	0.48	40	iP	34 54.50	-0.7
			eS	35 02.45	
KNK	0.54	89	iP	34 55.05	-0.9
			eS	35 03.36	
SUA	0.56	276	iP	34 55.79	-0.6
			iS	35 04.84	
SLKM	0.96	199	eP	35 00.97	-1.0
			eS	35 15.30	
NKA	1.05	231	eP	35 04.25	1.1
CUT	1.05	342	eP	35 03.02	-0.2
SKT	1.09	302	iP	35 03.62	-0.3
			eS	35 18.55	
SPU	1.22	260	eP	35 05.15	-0.6
NCG	1.24	271	iP	35 06.20	0.1
			eS	35 22.90	
CRP	1.25	265	eP	35 06.45	0.1
			eS	35 23.26	
SEW	1.31	177	eP	35 06.03	-1.0
GLI	1.32	113	eP	35 05.89	-1.3
			eS	35 22.98	
CKL	1.35	262	iP	35 07.52	-0.2
BGL	1.36	265	eP	35 07.80	-0.2
KNIM	1.39	139	eP	35 06.61	-1.7
VZW	1.50	102	eP	35 09.08	-0.8
			eS	35 29.25	
HUR	1.57	359	eP	35 11.33	0.5
			eS	35 32.37	
VLZ	1.59	99	eP	35 10.12	-0.9
			eS	35 29.91	
NNL	1.61	212	eP	35 11.84	0.5
RDT	1.61	240	eP	35 10.82	-0.7
MTU	1.71	146	eP	35 11.32	-1.5
			S	35 32.55	
KLU	1.76	86	eP	35 12.52	-1.0
			eS	35 35.11	
TOA	1.76	65	eP	35 13.85	0.3
BRLK	1.77	202	eP	35 12.80	-0.9
REF	1.78	240	eP	35 13.58	-0.4
RDN	1.80	241	eP	35 13.43	-0.7
			eS	35 35.84	
RSO	1.82	240	eP	35 14.05	-0.5
			eS	35 38.12	
RS2	1.82	240	eP	35 14.19	-0.3
			eS	35 38.00	
NCT	1.84	244	eP	35 14.36	-0.4
			S	35 37.37	
RED	1.85	239	eP	35 14.52	-0.3
			eS	35 38.90	
RND	2.03	9	eP	35 17.84	0.4
			S	35 43.66	
CNPM	2.06	204	eP	35 17.90	0.1
TRF	2.08	351	eP	35 18.54	0.4
TZL	2.08	70	eP	35 17.82	-0.2
SDG	2.21	58	eP	35 19.82	-0.1
			S	35 47.67	
MCK	2.35	7	eP	35 22.55	0.6
PAX	2.48	49	eP	35 23.80	0.0
GLB	2.77	87	eP	35 26.41	-1.5
BWN	2.77	1	eP	35 27.92	0.0
PDB	2.80	236	eP	35 28.13	-0.1
DDM	2.94	34	eP	35 32.31	2.0
CDD	3.21	221	eP	35 35.61	1.4
HDA	3.24	21	eP	35 34.35	-0.2
MCNL	3.25	229	eP	35 35.62	0.9
BALM	3.52	93	eP	35 36.45	-2.1
FBA	3.60	12	eP	35 38.31	-1.2
MDM	3.61	9	eP	35 39.55	-0.3

50 obs. associated

FEB 20, 1991 13h 53m 30.66± 0.34s
44.394 N ± 3.0km 12.009 E ± 3.6km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 3.8 (KBA), 3.8 (ZAG), 3.2 (LDG). MD 3.6 (TRI), 3.3 (ROM).

20d 13h

SFI	0.49	193	Pc	53	40.50	0.0
			eSg	53	49.00	
PGD	0.56	202	P	53	41.40	-0.7
			eSg	53	49.70	
RSM	0.57	145	P	53	40.70	-1.4
			eSg	53	51.70	
CRE	0.77	183	P	53	45.80	0.1
			eSg	53	57.40	
FIR	0.82	222	ePg	53	46.50	0.0
			iSg	53	58.00	
MME	0.96	258	P	53	49.90	0.8
			eSg	54	06.10	
BDI	1.07	252	P	53	52.00	1.2
			eSg	54	08.00	
ARV	1.12	143	P	53	52.80	1.1
			eSg	54	07.90	
PII	1.26	238	P	53	54.00	-0.1
			eSg	54	12.00	
ASS	1.41	160	P	53	57.70	1.3
			eSg	54	15.30	
SAL	1.61	320	P	54	02.00	2.9
VVI	1.62	10	P	53	59.50	0.2
CTI	1.67	351	Pd	54	00.30	0.1
			eSg	54	24.00	
TRI	1.81	43	i(Pn)d	54	01.90	-0.2
			i(Pg)	54	06.70	
			i	54	26.00	
			i(Sn)	54	35.00	
BOB	1.87	282	P	54	04.20	1.2
RIY	1.94	60	ePn	54	03.80	-0.1
			iSn	54	29.00	
MNS	2.07	166	P	54	06.00	0.1
MDI	2.14	311	P	54	07.20	0.4
FVI	2.27	14	P	54	08.90	0.2
LJU	2.43	46	iPnd	54	11.40	0.4
			i	54	19.20	
			eSn	54	42.00	
			e	54	52.00	
OGA	2.57	345	ePn	54	14.30	1.1
SCE	2.65	356	ePn	54	15.40	1.0
CKI	2.67	272	P	54	15.00	0.5
VAI	2.72	304	P	54	15.00	-0.2
KBA	2.84	19	iPnd	54	17.60	0.5
			iSn	54	54.60	
			i	55	07.30	
PGF	2.86	231	Pn	54	17.40	0.1
			Sn	54	50.40	
SOTA	2.88	349	iPnc	54	19.10	1.5
			i	54	20.20	
			iSn	54	53.60	
			i	55	03.80	
PTJ	3.17	60	ePn	54	20.10	-1.6
			eSn	55	05.40	
BHG	3.38	10	iPnd	54	25.70	1.1
LPL	3.91	289	Pn	54	32.60	0.3
FRF	3.96	260	Pn	54	32.40	-0.3
LMR	4.12	257	Pn	54	34.00	-0.9
LRG	4.19	259	Pn	54	36.20	0.3
WET	4.79	7	iPnc	54	43.40	-1.2
KHC	4.86	12	ePn	54	44.00	-1.6
			e	54	49.50	
			e	55	03.70	
			eSg	55	37.50	
CDF	5.18	323	Pn	54	48.80	-1.4
HAU	5.34	315	Pn	54	51.00	-1.3
SMF	6.16	294	Pn	55	02.20	-1.7
			Sn	56	06.00	
LBF	6.19	298	Pn	55	01.60	-2.8
			Sn	56	08.00	
LOR	6.38	300	Pn	55	06.00	-1.0
			Sn	56	11.60	

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

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* FEB 20, 1991 14h 08m 06.80± 0.45s
9.061 N ± 7.4km 126.660 E ±11.5km
DEPTH = 25.5km (3 depth phases)
5.2mb (9 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

SSE	22.51	348	Pc	13	07.00	1.1
	1.0s		37.00nm			4.8mb
	Z 18s		0.40um			3.9Msz
	E 14s		0.50um			
			i	13	13.00	22km
			i	13	37.00	
			S	17	14.00	
NJ2	24.00	344	Pc	13	21.80	1.4
	1.0s		70.00nm			5.1mb
			sP	13	33.00	
IPM	25.83	262	ePd	13	40.00	1.9
	1.0s		56.10nm			5.1mb
CHG	28.55	293	eP	14	02.80	-0.1
XAN	29.73	329	eP	14	11.00	-2.4
WB2	29.80	165	iPc	14	14.00	-0.1
			i	14	23.00	31km
TIY	31.29	338	eP	14	26.40	-0.7
	Z 18s		0.50um			4.2Msz
	N 10s		0.30um			
QIS	32.07	157	iPd	14	32.80	-1.2
	0.7s		55.00nm			5.6mb
BJI	32.24	345	eP	14	35.00	-0.3
	1.2s		35.00nm			5.2mb
SNY	32.75	356	eP	14	39.80	0.1
	1.4s		70.00nm			5.4mb
HHC	34.38	340	ePg	14	54.00	0.0
MDJ	35.51	4	eP	15	03.50	0.0
SHL	36.88	301	iP	15	14.50	-1.0
GTA	38.59	326	eP	15	29.00	-0.7
	Z 16s		0.60um			4.5MszX
	E 11s		0.40um			
MUN	42.01	193	eP	15	57.50	-0.3
BRS	44.20	146	iP	16	15.50	-0.2
HYB	47.45	285	iPc	16	42.00	0.2
WMQ	48.41	323	Pd	16	48.50	-0.4
	Z 16s		0.60um			4.7MszX
			pP	16	55.70	24km
FBA	79.97	26	P	20	24.00	9.0X
FBA	79.97	26	(P)	20	15.00	0.0
INK	85.26	22	eP	20	42.00	-0.3
MBC	86.80	13	eP	20	51.00	1.2
	1.0s		13.00nm			5.1mb
DAG	92.01	352	iPc	21	14.10	-0.2
	0.9s		18.49nm			5.5mb
YKA	94.70	24	eP	21	21.20	-5.7X
	0.7s		1.20nm			4.4mb
LPB	163.81	119	ePKP	28	12.00	2.0

S.D. = 1.1 on 23 of 25 obs.

? FEB 20, 1991 15h 20m 07.83± 4.27s
17.823 N ±40.5km 98.630 W ±13.1km
DEPTH = 33.0km (normal)
GUERRERO, MEXICO (59)

III	0.97	305	iP	20	25.30	0.0
			iS	20	37.20	
IIT	1.23	14	iP	20	29.10	0.1
			(S)	20	44.00	
PPM	1.24	0	iP	20	29.30	-0.1
			iS	20	43.80	
IISM	1.66	46	iP	20	35.00	0.0

S.D. = 0.1 on 4 of 4 obs.

% FEB 20, 1991 16h 43m 15.01± 0.56s
40.851 N ± 6.2km 28.709 E ± 4.3km
DEPTH = 5.0km (geophysicist)
TURKEY (366)
MD 2.9 (ISK).

ISK	0.34	51	iPg	43	22.20	0.3
GBZT	0.56	96	ePg	43	25.50	-0.8
			iSg	43	35.00	
HRT	0.73	92	iPg	43	29.70	0.1
			iSg	43	40.20	
BNT	0.78	231	ePg	43	30.10	-0.5
EDC	0.82	232	ePg	43	31.00	-0.3
KGT	1.14	250	iPn	43	37.00	0.2
DMK	1.21	324	iPn	43	38.00	0.1
DST	1.25	183	iPn	43	39.50	0.9

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

? FEB 20, 1991 17h 34m 16.33± 0.98s
40.884 N ±11.5km 28.737 E ± 6.2km
DEPTH = 5.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

ISK	0.30	53	ePg	34	22.50	0.0
HRT	0.71	95	ePg	34	30.50	0.0
			iSg	34	40.70	
KGT	1.17	249	iPn	34	38.70	0.0
DMK	1.19	322	iPn	34	39.00	0.0

S.D. = 0.0 on 4 of 4 obs.

? FEB 20, 1991 18h 40m 00.95± 5.34s
16.439 N ±29.2km 60.933 W ±38.6km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)
ML 2.4 (FDF).

DEG	0.17	224	eP	40	07.46	0.1
			S	40	11.90	
SFG	0.31	234	eP	40	08.90	0.0
SEG	0.55	266	eP	40	12.19	-0.1
MGG	0.64	215	eP	40	13.80	0.3
			S	40	23.00	
DOG	0.77	238	eP	40	15.66	0.2
			S	40	26.20	
PAG	0.82	241	eP	40	16.00	-0.2
			S	40	27.50	
BBL	1.05	210	eP	40	19.00	-0.4
			S	40	33.30	

S.D. = 0.3 on 7 of 7 obs.

% FEB 20, 1991 18h 44m 18.31± 0.36s
39.691 N ± 3.5km 28.934 E ± 3.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.2 (ISK).

DST	0.25	250	iPg	44	23.00	-0.7
BNT	1.02	311	iPg	44	37.40	-0.3
			iSg	44	51.50	
EDC	1.05	309	iPg	44	38.00	-0.1
			iSg	44	52.50	
ALT	1.11	124	iPn	44	39.20	0.0
GBZT	1.16	19	ePg	44	40.30	0.3
			iSg	44	57.20	
GPA	1.21	60	iPn	44	40.70	-0.2
HRT	1.26	26	ePn	44	41.60	-0.2
ISK	1.38	4	iPn	44	43.60	0.1
KHL	1.44	161	ePn	44	44.50	0.0
KGT	1.46	302	ePn	44	45.00	0.3
IZM	1.83	226	ePn	44	50.50	0.4
EZN	2.02	275	ePn	44	52.70	0.0
PRK	2.11	259	ePn	44	54.50	0.4
DMK	2.31	338	ePn	44	57.00	0.0
BBTK	2.95	86	eP	45	13.00	6.8X
			iS	45	56.00	

S.D. = 0.3 on 14 of 15 obs.

% FEB 20, 1991 18h 58m 11.85± 1.11s
44.152 N ± 8.7km 11.996 E ±13.3km
DEPTH = 33.0km (normal)
NORTHERN ITALY (545)

SFI	0.25	204	P	58	18.40	-0.6
			eSg	58	25.00	
PGD	0.34	216	P	58	19.20	-1.1
			eSg	58	27.90	
CRE	0.52	184	P	58	24.00	1.1
			eSg	58	34.00	
MME	0.93	273	P	58	28.60	-0.3
BDI	1.01	265	P	58	30.80	1.0
			eSg	58	45.00	
FVI	2.50	12	P	58	51.00	-0.1
			eSn	59	19.30	

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

& FEB 20, 1991 20h 02m 24.40s
59.783 N 152.253 W
DEPTH = 72.2km
SOUTHERN ALASKA (2)
<AEIC>.

HOM	0.33	112	iP	02	35.94	-0.2
			eS	02	44.63	
XLV	0.43	140	eP	02	36.12	-0.8
			eS	02	45.82	
NNL	0.55	61	iP	02	38.35	0.3
CNPM	0.58	116	iP	02	37.80	-0.6
			eS	02	48.31	
RED	0.69	338	iP	02	38.98	-0.7
			eS	02	50.61	
BRLK	0.69	91	iP	02	38.82	-0.8
			eS	02	50.38	
AUE	0.71	234	iP	02	39.22	-0.5
			eS	02	49.73	
RSO	0.73	340	iP	02	39.61	-0.6
			eS	02	51.27	
RS2	0.73	340	iP	02	39.63	-0.6
			eS	02	51.51	

AUH	0.74	236	eP	02	39.69	-0.5				pP	45	27.50	151km	KOD	73.00	266	eP	49	06.90	1.0
			eS	02	51.83		GTA	38.82	277	iPd	45	02.40	0.2	EDU	73.37	347	ePc	49	06.20	-0.8
REF	0.74	343	iP	02	39.81	-0.6		1.0s		10.00nm			4.5mb	ELO	73.55	347	ePc	49	07.40	-0.7
			eS	02	52.10					pP	45	39.00	168kmX	EBH	73.74	347	ePc	49	08.60	-0.6
AUI	0.75	234	eP	02	39.56	-0.6	INK	40.04	34	iPd	45	12.30	0.6		0.6s		71.00nm			5.6mb
			eS	02	50.59			0.6s		29.00nm			5.2mb	KRA	73.85	331	eP	49	08.90	-1.0
RDN	0.78	341	eP	02	40.00	-0.7	CD2	41.17	263	P	45	21.70	0.2		0.6s		29.00nm			5.2mb
			eS	02	52.01			1.0s		60.00nm			5.2mb	ESY	73.92	346	ePc	49	09.50	-0.7
RDT	0.80	355	iP	02	40.07	-0.8	GYA	42.24	256	iPd	45	30.60	0.2	EAB	73.92	347	ePc	49	09.70	-0.5
NCT	0.85	337	eP	02	40.83	-0.7		1.0s		70.00nm			5.2mb		0.6s		52.00nm			5.4mb
			eS	02	53.67		MBC	42.82	21	iPd	45	35.00	0.6	EDI	74.00	346	ePc	49	10.50	-0.2
PDB	0.98	271	iP	02	41.79	-1.2		0.5s		42.00nm			5.3mb	EAU	74.12	347	ePc	49	11.40	0.0
			eS	02	55.67		WMQ	44.38	290	iPc	45	47.60	0.2		0.6s		108.00nm			5.8mb
NKA	1.09	27	eP	02	45.28	0.9				pP	46	24.50	167km	EBL	74.12	346	ePc	49	10.80	-0.6
CDD	1.11	220	eP	02	43.90	-0.9	KMI	45.71	258	Pd	45	58.50	0.2	KSP	74.29	333	iPc	49	11.70	-0.8
			eS	02	58.44			1.0s		100.00nm			5.4mb		0.8s		25.00nm			5.0mb
SYI	1.18	184	eP	02	45.11	-0.4				pP	46	34.50	161km	EKA	74.56	346	Pc	49	14.10	0.2
			eS	03	00.31		YKA	49.39	38	eP	46	26.00	-0.1		0.5s		49.00nm			5.5mb
MCNL	1.22	241	eP	02	44.55	-1.6		0.5s		3.50nm			4.3mb	CLL	74.82	335	iPc	49	14.50	-1.0
			eS	03	00.35		SHL	52.54	267	iP	46	50.00	-0.6		1.1s		51.00nm			5.2mb
SLKM	1.25	54	eP	02	45.58	-1.0	CHG	52.67	255	iPd	46	52.40	1.0	RMQ	74.85	184	iPc	49	16.00	0.2
			eS	03	01.73			0.8s		64.55nm			5.5mb				i	49	52.80	149km
SPU	1.41	4	iP	02	48.21	-0.4	BDT	53.78	254	eP	46	58.90	-0.6	BRG	74.95	335	eP	49	15.80	-0.4
			eS	03	05.24		PNT	54.03	54	eP	47	01.00	-0.1	VRI	74.99	324	eP	49	16.60	0.0
CKL	1.42	358	eP	02	48.36	-0.5	DAG	54.80	358	iPc	47	04.00	-2.3	WIT	75.05	340	eP	49	17.00	0.3
SEW	1.45	76	eP	02	47.71	-1.4		0.8s		4.48nm			4.3mb	CVO	75.25	325	eP	49	18.20	0.2
BGL	1.49	357	eP	02	49.38	-0.4				ipP	48	05.90	283kmX	PRU	75.57	334	Pc	49	19.50	-0.2
CRP	1.49	2	eP	02	49.74	-0.1	EDM	54.97	47	ePc	47	08.00	0.1		0.8s		20.70nm			4.9mb
NCG	1.63	2	eP	02	51.20	-0.5	KEV	55.63	340	eP	47	10.00	-2.3				e	49	26.20	22kmX
SUA	1.84	23	eP	02	54.37	-0.3	NEW	55.98	54	P	47	14.80	-0.5	MLR	75.61	325	iPc	49	20.50	0.3
PMS	1.98	41	eP	02	55.80	-0.7		0.9s		20.83nm			5.0mb				e	51	34.00	656kmX
SVW	2.13	310	eP	02	56.86	-1.7	LBFM	57.51	63	P	47	26.00	-0.3	WTS	75.77	339	iPd	49	20.40	-0.4
SKT	2.23	9	eP	02	59.06	-0.9	SOD	57.56	338	iP	47	23.90	-2.1		0.5s		88.00nm			5.7mb
MTU	2.33	83	eP	02	59.13	-2.1	WDC	57.60	64	iPc	47	26.80	0.1	MOX	75.80	336	iP	49	21.00	0.0
KNIM	2.33	74	eP	02	58.64	-2.7	ORV	58.87	64	ePc	47	34.70	-0.8		1.0s		43.00nm			5.1mb
KNK	2.49	47	eP	03	01.83	-1.6	FFC	59.26	41	iPd	47	38.40	0.4	HOF	76.03	336	eP	49	22.40	0.0
GHO	2.58	38	eP	03	03.10	-1.7		0.7s		19.00nm			5.1mb		0.7s		21.00nm			5.0mb
GLI	2.79	65	eP	03	04.48	-3.2	LRM	60.00	54	iPc	47	43.80	0.3	SRO	76.33	331	iP	49	24.60	0.6
	36 obs. associated						NDI	60.15	281	iPd	47	43.50	-0.8	ZST	76.38	332	eP	49	25.00	0.7
----------							CMB	60.51	65	ePc	47	46.70	-0.1	KHC	76.62	334	eP	49	26.00	0.3
FEB 20, 1991 20h 37m 50.94± 0.17s							PRS	61.02	67	eP	47	49.80	-0.4		1.2s		25.00nm			4.8mb
48.601 N ± 3.9km 153.266 E ± 2.7km							HPI	61.02	56	P	47	51.00	0.5				e	49	31.00	16kmX
DEPTH = 153.6km (6 depth phases)							LLA	61.09	66	ePc	47	50.50	-0.2	GRF	76.77	336	eP	49	27.00	0.5
5.2mb (77 obs.)							KVN	61.21	63	P	47	51.30	-0.4		0.7s		74.00nm			5.5mb
KURIL ISLANDS						(221)	FRI	61.60	65	ePc	47	53.50	-0.5	WET	76.81	335	iPc	49	27.10	0.4
							KAF	61.81	335	iP	47	52.80	-2.3		0.9s		50.00nm			5.2mb
KUSJ	8.12	231	P	39	43.60	-3.3X		0.3s		4.10nm			4.8mb	FVM	76.94	47	P	49	27.00	-0.6
			eS	41	09.50		PTI	61.98	56	P	47	57.90	1.2	TNS	77.01	338	ePd	49	28.20	0.4
ASAJ	8.61	243	iPd	39	56.30	2.9	TNP	62.37	63	P	47	59.00	-0.4	BZS	77.11	327	eP	49	32.50	4.2X
HOOJ	9.36	232	P	40	00.70	-2.7X		0.7s		15.74nm			5.0mb	ENN	77.12	339	iPd	49	28.10	-0.2
			S	41	40.40		ISA	63.22	66	eP	48	04.00	-0.8		0.6s		69.00nm			5.6mb
MRRJ	10.55	239	eP	40	17.00	-2.0	FRB	63.27	19	eP	48	03.00	-1.6	MEM	77.25	339	iPc	49	29.12	0.1
			eS	42	11.10		DUG	63.51	59	P	48	07.00	0.2	UCC	77.45	340	P	49	30.70	0.6
AOMJ	12.20	234	eP	40	36.00	-4.5X	BW06	63.57	55	iPc	48	07.20	-0.1	ABH	77.55	338	eP	49	30.71	-0.1
			S	42	47.20					epP	48	42.40	147km	ETA	77.58	347	eP	49	34.00	3.2X
OFUJ	12.66	226	P	40	41.80	-4.7X	NUR	63.58	334	iP	48	04.60	-2.1	SNF	77.74	340	iP	49	31.88	0.2
			eS	42	53.70			0.4s		17.80nm			5.3mb	DOU	78.06	340	iP	49	33.80	0.3
YAMJ	14.16	227	P	41	01.90	-3.8X	CLC	63.65	65	eP	48	07.00	-0.6		0.7s		53.30nm			5.4mb
CHJJ	16.36	225	P	41	31.70	-1.3	DAU	64.24	58	P	48	12.00	0.3	ELC	78.08	46	P	49	34.00	0.2
MTMJ	16.51	229	P	41	31.50	-3.4X	MWC	64.44	67	eP	48	13.00	0.1	BHG	78.09	334	iPc	49	34.90	1.2
MDJ	16.73	265	eP	41	37.20	-0.2	GSC	64.47	65	eP	48	12.00	-1.0		0.6s		33.00nm			5.2mb
	1.0s	100.00nm				5.1mb	MSU	65.01	60	P	48	17.00	0.4	ECP	78.11	347	eP	49	34.20	0.5
IIDJ	17.33	227	P	41	44.00	-0.9	PEC	65.21	66	P	48	16.70	-1.0	FUR	78.15	335	iPc	49	34.80	0.7
ADK	19.43	69	P	42	04.50	-2.8X	RSSD	65.56	51	P	48	19.60	-0.4		0.7s		42.00nm			5.3mb
CN2	19.79	266	Pc	42	08.40	-2.7X				pP	48	55.00	147km	WARB	78.17	204	eP	49	35.70	1.4
	0.8s	80.00nm				5.2mb	TPC	65.74	66	eP	48	20.00	-1.1		0.6s		18.00nm			5.0mb
			epP	42	36.00		PLM	65.76	67	eP	48	21.00	-0.4	OLY	78.39	49	P	49	35.00	-0.6
BJI	27.66	266	eP	43	26.00	0.1	UPP	66.04	337	iP	48	20.10	-2.4	KBA	78.53	333	iPd	49	37.00	0.6
	1.5s	31.00nm				4.8mb	BAR	66.34	67	eP	48	24.00	-0.9		0.7s		83.50nm			5.6mb
			pP	44	01.00	170kmX	NB2	66.51	341	P	48	23.80	-1.8				ic	49	37.80	3kmX
NJ2	30.68	250	Pd	43	53.00	0.2		0.5s		6.80nm			4.8mb	PTJ	78.78	331	iPd	49	37.00	-0.6
TTA	30.98	43	eP	43	56.10	0.8	HFS	66.76	339	eP	48	24.70	-2.4	WATA	78.81	335	iPd	49	38.10	0.2
SVW	31.11	47	eP	43	57.40	1.0		0.3s		20.90nm			5.5mb		0.4s		35.20nm			5.4mb
TIY	31.36	265	eP	43	58.80	0.0	HYB	67.07	271	iPd	48	29.10	-0.6				ic	49	38.70	2kmX
PDB	31.86	50	P	44	02.70	-0.1		0.7s		71.40nm			5.6mb	WTTA	78.86	334	iPd	49	38.50	0.3
IMA	32.26	38	ePd	44	06.80	0.3	GLA	67.21	66	eP	48	30.00	-0.4		0.5s		72.30nm			5.7mb
	0.6s	10.50nm				4.8mb	GOL	67.98	55	P	48	35.50	0.1				ic	49	39.30	3kmX
BRW	32.26	28	ePd	44	07.00	0.8	POO	69.39	275	iPc	48	43.20	-0.8	MOTA	78.94	335	iPc	49	38.90	0.3
PMR	34.22	46	eP	44	24.00	0.9	WB2	70.30	199	iPc	48	48.60	-0.7		0.7s		49.60nm			5.4mb
WHN	34.54	253	iPd	44	26.50	0.3	GBA	70.56	269	P	48	51.10	0.1				ic	49	39.40	2kmX
	0.5s	60.00nm				5.6mb	ANMO	70.78	59	P	48	53.00	0.6	CDF	78.98	338	eP	49	38.40	-0.3
FBA	34.66	40	eP	44	27.90	1.0		0.8s		32.65nm			5.2mb		0.7s		24.00nm			5.0mb
	0.7s	22.60nm				5.0mb	ALQ	70.78	59	ePc	48	52.90	0.5	SOTA	79.02	335	iPd	49	39.20	0.2
TOA	35.56	45	eP	44	36.00	1.3		0.9s		10.50nm			4.7mb		0.8s		46.50nm			5.3mb
XAN	35.81	263	iPc	44	37.20	0.2	DZM	71.33	167	iPc	48	56.00	0.5				ic	49	39.90	2kmX
LZH	37.97	270	iPd	44	54.40	-0.9	SCH	71.59	23	ePd	48	56.60	-0.1	FVI	79.14	333	P	49	38.90	-0.5
	1.0s	65.00nm				5.3mb		0.4s		17.00nm			5.2mb	SLE	79.27	337	ePc	49	40.10	0.0

20d 20h

OGA	79.40	335	eP	49	41.80	0.7		1.7s	235.25nm		5.7mb	VAY	3.54	24	ePn	34	12.30	2.3
	0.6s	41.00nm			5.3mb	CAF	83.50	340	eP	50	03.10	0.8	SRS	3.77	36	eP	34	11.80	-1.5
SAX	79.51	336	ePc	49	42.10	0.3		1.7s	272.05nm		5.8mb	SKO	3.92	8	ePn	34	14.50	-0.9
ZLA	79.56	337	ePc	49	42.10	0.4	FRF	83.65	336	eP	50	02.80	-0.2	S.D. = 1.5 on 12 of 15 obs.					
HAU	79.59	338	eP	49	41.40	-0.5		1.0s	34.00nm		5.1mb								
	0.8s	34.50nm			5.1mb	SGO	83.75	329	P	50	03.70	0.2	FEB 20, 1991 21h 46m 22.52± 0.11s					
TRI	79.64	332	iPd	49	41.20	-0.9	CDR	83.77	337	iPc	50	04.90	1.3	4.659 S ± 2.4km 143.256 E ± 3.0km					
BSF	79.64	338	eP	49	41.70	-0.6	LFF	83.79	341	eP	50	04.30	0.7	DEPTH = 91.4km (9 depth phases)					
	0.8s	21.50nm			4.9mb		0.7s	39.70nm			5.3mb	5.7mb (34 obs.)							
OSS	79.81	335	ePc	49	43.80	0.5	LRG	83.82	336	eP	50	04.10	0.3	PAPUA NEW GUINEA					(202)
LLS	79.96	336	ePc	49	44.60	0.5		0.7s	94.75nm		5.7mb	CENTROID, MOMENT TENSOR							(HRV)
CTI	79.96	334	P	49	43.40	-0.6	LMR	83.90	336	eP	50	04.40	0.2	Data Used: GDSN					
VDL	80.18	336	ePc	49	46.00	0.7		0.7s	55.10nm		5.5mb	L.P.B.: 12S, 18C							
SKO	80.32	326	eP	49	46.00	0.2	LPO	83.93	340	eP	50	05.10	0.7	Centroid Location:					
		i		49	46.40	1kmX		0.6s	23.45nm		5.2mb	Origin Time 21:46:22.1 1.7							
FLN	80.40	343	eP	49	45.80	-0.3	PGF	83.93	334	eP	50	04.30	-0.3	Lat 5.07S 0.16 Lon 143.13E 0.06					
	0.9s	44.00nm			5.2mb		0.8s	33.60nm			5.2mb	Dep 105.2 3.8 Half-duration 1.6							
VAY	80.45	325	iP	49	46.60	0.1	MLS	85.59	340	P	50	13.16	0.4	Moment Tensor; Scale 10**16 Nm					
	0.7s	69.00nm			5.5mb	EPF	85.69	340	eP	50	13.10	-0.2	Mrr=-9.23 0.58 Mtt= 6.11 1.21					
LDF	80.49	342	eP	49	46.20	-0.4		0.5s	14.60nm		5.1mb	Mff= 3.12 1.04 Mrt=-2.83 0.86							
	0.5s	16.00nm			5.0mb	KIC	121.97	334	(PKP)	56	28.40	-0.1	Mrf=-1.60 0.72 Mtf=-4.08 0.59					
MDI	80.76	335	P	49	47.30	-0.7	ZOBO	133.36	61	ePKP	56	49.00	-2.0	Principal Axes:					
GRR	80.83	343	eP	49	48.30	0.0	LPB	133.58	61	ePKP	56	51.00	-0.2	T Val= 9.07 Plg= 5 Azm=213					
	0.8s	6.00nm			4.4mb	CNCB	133.87	61	PKP	56	53.20	1.3	N 1.08 16 122					
LOR	80.88	339	eP	49	48.60	-0.1	SIV	137.05	53	PKP	56	44.00	-13.3X	P -10.15 74 319					
	0.7s	6.00nm			4.4mb					i	56	57.20		Best Double Couple:Mo=9.6*10**16					
VAI	80.94	336	P	49	48.90	0.0	VAO	149.82	39	e(PKP)	57	24.00	5.0X	NP1:Strike=320 Dip=43 Slip= -67					
MMK	80.99	336	ePc	49	50.70	1.2	BMA	150.67	34	ePKP	57	26.90	6.7X	NP2: 109 52 -110					
HVAR	81.03	330	iP	49	48.30	-1.2	S.D. = 0.8 on 214 of 227 obs.												
DIX	81.11	337	ePc	49	51.10	0.9	----------												
LBF	81.12	339	eP	49	49.80	-0.2	FEB 20, 1991 20h 48m 06.73± 0.38s												
	0.6s	28.50nm			5.2mb	39.492 N ± 3.8km 28.338 E ± 4.2km													
SSF	81.16	340	eP	49	50.20	0.1	DEPTH = 10.0km (geophysicist)												
	0.7s	39.50nm			5.3mb	TURKEY						(366)							
LPF	81.20	343	eP	49	50.40	0.1	MD 3.5 (ISK), 3.5 (ATH).												
	0.5s	28.00nm			5.2mb														
EMS	81.24	337	ePc	49	51.60	0.8	DST	0.25	63	iPg	48	11.30	-0.8	PMG	6.10	141	iPd	47	51.10	-0.8
OHR	81.30	326	ePd	49	50.50	-0.5	BNT	0.92	340	iPg	48	24.00	-0.3	RAB	8.90	87	iPd	48	32.10	1.8
ORX	81.37	336	P	49	51.56	0.2				iSg	48	36.70					iS	48	58.00	
ORO	81.38	336	P	49	51.90	0.5	EDC	0.93	337	iPg	48	23.50	-1.0	MTN	14.48	235	iPc	49	44.80	0.6
AVF	81.45	340	eP	49	51.60	0.0				iSg	48	37.00		CTA	15.61	169	iPd	49	59.30	0.6
SMF	81.47	339	eP	49	51.80	0.1	KGT	1.25	321	iPn	48	29.50	-0.4		1.2s	153.13nm			5.1mb	
RSM	81.65	333	P	49	53.90	1.3	IZM	1.38	218	iPn	48	31.20	-0.8				iS	52	56.00	
RSL	81.68	337	P	49	53.98	1.0	ALT	1.44	107	iPn	48	32.50	-0.5	OIS	16.20	192	iPd	50	05.80	-0.3
LSD	81.75	337	P	49	54.43	0.9	KHL	1.49	141	iPn	48	33.40	-0.2				iS	53	02.00	
BOB	81.76	335	P	49	54.20	0.8	GBZT	1.55	33	ePn	48	36.00	1.6	HNR	17.23	107	P	50	20.00	1.2
BGF	81.78	340	eP	49	53.30	-0.1				iSg	48	57.50		WB2	17.49	209	iPc	50	21.40	-0.7
LPL	81.81	337	eP	49	54.50	0.7	EZN	1.59	283	iPn	48	34.30	-0.6				iS	55	38.00	
LPG	81.82	337	iPc	49	54.80	0.8	PRK	1.62	262	ePb	48	34.40	-1.0	KNA	18.01	231	eP	50	28.00	-0.4
	0.6s	77.50nm			5.6mb	ISK	1.67	19	ePn	48	36.00	-0.1		0.8s	1201.00nm			6.2mb	
SFI	81.83	333	P	49	55.20	1.6	HRT	1.67	37	ePn	48	35.50	-0.7				e	53	40.00	
ARV	81.88	332	P	49	54.30	0.4	ITU	1.69	18	iPnc	48	39.00	2.5	ASPA	20.94	205	iPc	50	59.40	-0.6
PGD	81.92	333	P	49	55.90	1.6				iSg	49	00.00			0.7s	50.50nm			5.0mb	
MME	81.93	334	P	49	56.00	1.5	GPA	1.71	62	iPn	48	36.40	-0.4				eS	54	40.10	
TKL	81.96	44	P	49	54.40	-0.1	CIN	1.90	186	ePn	48	41.00	1.6	OLP	21.82	178	eP	51	08.00	-0.7
RSP	82.01	336	P	49	54.53	-0.2				iSg	49	06.00					e	51	12.00	14kmX
CRE	82.07	333	P	49	55.90	0.9	SMG	2.13	214	ePn	48	44.50	1.7	RMO	22.34	167	eP	51	14.00	0.3
BDI	82.08	334	P	49	55.80	0.8	YER	2.35	181	ePn	48	45.20	-0.9	BRS	24.36	159	iPd	51	34.00	0.6
FIR	82.14	333	eP	49	56.50	1.3	DMK	2.37	349	iPn	48	45.50	-0.7				i	51	55.50	99km
MAF	82.16	340	eP	49	55.90	0.5	BCK	2.69	138	ePn	48	50.50	-0.4				eS	56	00.00	
TCF	82.18	340	eP	49	55.80	0.3	RDO	2.70	309	ePn	48	51.30	0.3	DZM	28.36	130	iPc	52	09.90	-0.3
	0.8s	49.70nm			5.3mb	KDZ	3.10	315	iP	48	57.00	0.4				i	55	22.40	
PCP	82.22	335	P	49	55.76	0.0	BBTK	3.43	83	eP	49	19.50	18.1X	FORR	29.71	207	eP	52	21.00	-1.1
FORR	82.24	202	eP	49	56.20	0.5				iS	49	59.00		ADE	30.45	187	eP	52	28.30	-0.4
	0.5s	54.00nm			5.6mb	RZN	3.52	310	iP	49	03.00	0.2	MEKA	32.17	225	eP	52	43.10	-0.7
BNI	82.25	337	P	49	57.30	1.3				iS	49	40.00		NANU	32.18	234	eP	52	43.80	-0.1
BHB	82.30	336	P	49	55.35	-0.7	MMB	4.09	302	eP	49	11.00	0.3				e	53	40.00	285kmX
RRL	82.35	337	P	49	57.81	1.2	S.D. = 1.0 on 23 of 24 obs.							BFD	32.37	181	e(P)	52	45.00	-0.3
LSF	82.37	341	eP	49	56.70	0.3	----------							TOO	32.82	177	eP	52	51.00	1.7
MFF	82.39	342	eP	49	56.80	0.3	* FEB 20, 1991 21h 33m 13.92± 1.65s										i	55	33.00	
	0.7s	60.65nm			5.5mb	38.096 N ±12.8km 20.673 E ±12.4km							COOL	33.37	216	eP	52	53.50	-0.7	
CKI	82.41	335	P	49	56.80	0.2	DEPTH = 10.0km (geophysicist)							MRWA	35.54	224	eP	53	13.30	0.6
SSB	82.58	338	P	49	58.40	0.8	GREECE						(364)		0.5s	20.00nm			5.3mb	
DOI	82.61	336	P	49	56.80	-1.0	ML 3.6 (ATH).							KLB	35.92	219	eP	53	15.40	-0.5
FIN	82.62	335	P	49	57.61	-0.2									0.6s	22.00nm			5.3mb	
ROB	82.64	336	P	49	57.81	-0.1	VLS	0.10	321	ePg	33	16.70	0.0	BAL	35.94	221	eP	53	16.20	0.1
PZZ	82.65	336	P	49	57.50	-0.6	EVR	1.21	47	ePb	33	37.50	1.0	MUN	37.16	220	eP	53	27.30	1.0
FOUF	82.71	337	e(P)	49	59.20	1.0	AGG	1.59	54	eP	33	39.90	-2.4	OZH	37.96	322	Pd	53	33.00	-0.1
			e(pP)	50	07.90	27kmX	KEK	1.75	337	ePg	33	48.50	4.0X	TAU	38.26	175	eP	53	37.00	1.6
ENR	82.82	336	P	49	57.71	-1.2	LSK	2.05	358	ePn	34	03.00	14.1X	GZH	40.17	315	P	53	52.80	1.4
STV	82.83	336	P	49	57.91	-1.0	TPE	2.26	347	ePn	33	52.00	0.2	IIDJ	40.24	353	P	53	50.50	-1.4
MNS	82.97	332	P	49	59.60	0.0	VLI	2.27	127	ePn	33	51.30	-0.7	OIZ	40.45	307	P	53	52.60	-1.2
IMI	82.99	336	P	49	59.96	0.2	KZN	2.37	21	ePb	33	58.00	4.5X	CHJJ	40.69	355	P	53	54.30	-1.2
SBF	83.16	336	eP	50	00.40	-0.2	ATH	2.41	92	ePb	33	56.00	2.1	KAKJ	40.75	356	P	53	55.30	-0.7
	0.5s	37.90nm			5.5mb	LIT	2.45	35	eP	33	54.80	0.2	SSE	41.33	331	Pc	54	01.50	0.7
SDI	83.22	331	P	50	00.90	0.0	OHR	3.01	2	ePn	34	03.00	0.4		1.0s	123.00nm			5.7mb	
RJF	83.27	340	eP	50	01.50	0.4	SOH	3.42	36	eP	34	07.70	-0.7	Z	18s	0.40um			4.3Msz	

i 54 22.50 88km
e(S) 00 48.00
NIIJ 41.87 355 P 54 04.70 -0.5
IPM 43.17 282 ePd 54 16.60 0.4
1.6s 139.40nm 5.5mb
NJ2 43.27 329 Pc 54 18.00 1.4
0.8s 40.00nm 5.3mb
OFUJ 43.54 358 eP 54 18.80 0.0
SNG 44.15 285 eP 54 25.00 0.9
1.1s 118.99nm 5.6mb
e 56 43.00
WHN 44.60 324 Pd 54 29.20 1.7
pP 54 51.50 94km
PCT 45.71 296 eP 54 37.40 1.0
PUZ 46.06 141 eP 54 39.10 0.1
WEL 46.10 147 P 54 38.00 -1.2
LOE 46.49 299 iPd 54 43.00 0.4
GYA 47.03 313 iPd 54 48.20 1.3
1.4s 200.00nm 5.8mb
PcP 56 18.40
NST 47.22 296 iPd 54 50.00 1.6
TIA 47.45 331 Pd 54 49.20 -0.7
pP 55 11.70 94km
KHT 48.29 294 iPd 54 57.90 1.2
BDT 48.82 298 eP 54 59.00 -1.7
1.0s 82.80nm 5.6mb
KMI 49.24 309 Pd 55 06.00 1.8
1.5s 250.00nm 6.0mb
pP 55 24.00 72kmX
CHG 49.48 299 iPd 55 06.50 0.6
1.0s 108.00nm 5.8mb
SNY 49.62 341 iP 55 06.40 -0.1
1.0s 100.00nm 5.8mb
CN2 50.84 343 eP 55 15.00 -0.8
1.0s 100.00nm 5.8mb
pP 55 37.00 90km
TIY 50.97 328 Pd 55 16.50 -0.5
Z 18s 0.50um 4.6Msz
S 02 25.50
BJI 50.98 333 Pd 55 16.50 -0.4
1.3s 160.00nm 5.9mb
pP 55 39.00 92km
CD2 51.70 316 iPd 55 23.10 0.5
1.0s 160.00nm 6.0mb
pP 55 45.00 89km
HHC 53.79 330 Pd 55 38.00 0.1
BTO 54.37 329 P 55 42.00 -0.3
LZH 54.80 321 iPd 55 45.00 -0.5
1.5s 170.00nm 5.9mb
Z 30s 0.46um 4.4MszX
pP 56 05.00 79kmX
sP 56 22.50
SHL 58.17 304 iP 56 10.00 0.3
GTA 59.36 322 iPd 56 18.00 0.3
1.0s 100.00nm 5.9mb
pP 56 40.00 87km
LSA 60.47 308 Pd 56 26.10 0.3
KOD 67.16 283 eP 57 11.00 1.4
HYB 67.50 291 iPd 57 10.80 -0.6
1.0s 110.00nm 5.7mb
GBA 67.78 287 P 57 13.60 0.5
WMQ 69.37 320 iPd 57 23.00 0.5
1.0s 100.00nm 5.6mb
sP 57 56.50
eS 06 24.00
NDI 71.51 302 iPd 57 35.50 -0.2
0.7s 113.01nm 5.8mb
POO 72.11 291 iPd 57 37.80 -1.7
0.9s 115.97nm 5.7mb
SDN 75.51 29 eP 57 58.10 -0.3
0.7s 79.60nm 5.7mb
ANM 78.70 20 eP 58 16.80 0.8
SVW 80.60 26 ePd 58 27.50 1.2
TTA 81.30 24 eP 58 30.60 0.7
1.2s 57.90nm 5.3mb
PMR 83.65 26 ePd 58 41.80 -0.1
1.3s 160.00nm 5.8mb
IMA 83.65 21 ePd 58 42.90 0.8
1.6s 96.20nm 5.5mb
TOA 85.14 26 ePd 58 50.60 1.1
BRW 85.16 16 eP 58 50.50 1.2
SPA 85.37 180 iPd 58 50.90 0.2
1.0s 70.00nm 5.6mb
i 59 15.20 91km
FBA 85.43 24 ePd 58 50.00 -0.8
0.8s 42.20nm 5.5mb
INK 91.79 22 eP 59 20.00 -0.9
WDC 96.20 50 ePd 59 42.00 0.3
MBC 96.26 14 eP 59 40.50 -0.8
1.0s 12.00nm 5.4mb
BKS 96.39 53 eP 59 42.50 -0.1
GCC 96.57 53 eP 59 43.50 0.1
MHC 96.86 53 ePd 59 44.90 0.0
ORV 96.98 51 eP 59 45.00 -0.3
PRS 97.06 54 ePd 59 46.00 0.3
LLA 97.41 54 eP 59 47.70 0.4
PRI 97.63 54 ePd 59 49.00 0.6
CMB 97.86 52 ePd 59 49.20 -0.1
SYP 98.19 56 eP 59 51.00 0.0
TAB 98.31 308 eP 59 52.00 0.6
FRI 98.40 53 ePd 59 51.60 -0.1
ISA 99.42 55 eP 59 56.00 -0.5
YKA 99.72 27 eP 59 56.00 -1.1
0.9s 4.40nm 5.1mb
MWC 99.78 56 eP 59 58.00 -0.3
CLC 100.12 55 ePdiff00 00.00 0.3
GSC 100.79 55 ePdiff00 02.00 -0.7
TPC 101.45 56 ePdiff00 05.00 -0.7
SOD 104.32 339 ePdiff00 16.00 -1.5
KAF 106.48 334 iPdiff00 26.10 -1.1
0.9s 10.20nm 5.9mb
NUR 107.83 333 ePdiff00 33.00 -0.3
ALQ 109.26 55 ePdiff00 41.00 0.4
PTZ 109.94 253 iPdiff00 44.50 0.6
BUL 111.28 246 ePdiff00 44.92 -4.9X
MLR 112.27 318 ePKP 04 50.00 0.4
e 05 38.50
APO 112.48 336 ePKP 04 47.50 -1.8
2.6s 645.20nm
KRA 114.49 324 ePKP 04 53.80 0.3
SPC 114.66 323 ePKP 04 55.60 1.5
KSP 116.26 326 ePKP 04 57.20 0.3
SRO 116.38 322 iPKP 04 58.00 0.8
FRB 116.68 15 ePKP 04 56.00 -1.2
ZST 116.96 323 ePKP 04 58.40 0.1
CLL 117.84 327 iPKPc 05 00.00 0.1
1.3s 17.00nm
KHC 118.61 325 PKP 05 02.00 0.5
1.3s 10.00nm
WET 119.00 325 ePKP 05 02.80 0.6
GRF 119.65 326 ePKP 05 03.50 0.1
BHG 119.70 324 iPKPc 05 03.50 -0.1
KBA 119.73 323 e(PKP)05 02.00 -1.9
1.0s 7.10nm
e 06 33.00
FEL 122.42 326 ePKP 05 08.22 -0.6
CDF 122.53 327 ePKP 05 07.90 -1.1
EKA 122.73 338 PKPc 05 09.20 0.2
1.3s 21.50nm
BSF 123.13 326 ePKP 05 09.30 -0.9
1.0s 34.00nm
HAU 123.27 327 ePKP 05 09.50 -0.9
1.1s 26.85nm
Z 21s 0.10um 4.4Msz
SCH 124.42 21 ePKP 05 12.00 -0.4
LPL 124.47 324 ePKP 05 12.60 -0.5
0.7s 7.15nm
BCAO 124.91 272 iPKPd 05 14.90 0.3
0.4s 28.00nm
SURF 124.99 323 PKP 05 14.91 0.9
LOR 125.06 327 ePKP 05 13.20 -0.7
1.2s 22.30nm
LBF 125.17 327 ePKP 05 13.40 -0.7
1.1s 20.75nm
SSF 125.38 327 ePKP 05 14.00 -0.5
1.1s 24.40nm
SMF 125.45 327 ePKP 05 14.00 -0.6
1.2s 41.65nm
FRF 125.59 322 ePKP 05 14.30 -0.7
1.1s 31.75nm
AVF 125.63 327 ePKP 05 14.20 -0.8
1.2s 10.40nm
LMR 125.79 322 ePKP 05 14.70 -0.7
1.1s 34.20nm
LRG 125.82 322 ePKP 05 14.90 -0.5
1.1s 39.05nm
SSB 125.87 325 PKP 05 15.80 0.2
PLDF 125.98 326 PKP 05 16.00 0.2
BGF 126.05 327 ePKP 05 15.40 -0.4
1.1s 24.40nm
FLN 126.32 331 ePKP 05 15.50 -0.8
1.1s 24.40nm
Z 22s 0.08um 4.3Msz
MAF 126.41 327 ePKP 05 16.10 -0.5
1.1s 13.45nm
PYM 126.45 326 PKP 05 17.40 0.7
TCF 126.56 327 ePKP 05 16.60 -0.2
1.1s 28.10nm
LBL 126.63 326 PKP 05 17.80 0.9
GRR 126.76 331 ePKP 05 16.50 -0.6
1.1s 19.55nm
LPF 127.09 331 ePKP 05 17.20 -0.5
1.1s 31.75nm
CAF 127.48 326 ePKP 05 18.60 -0.1
1.3s 32.50nm
RJF 127.55 327 ePKP 05 18.40 -0.3
1.1s 17.10nm
MFF 127.60 329 ePKP 05 18.20 -0.6
1.1s 9.75nm
LPO 128.13 326 ePKP 05 19.80 0.0
1.1s 31.75nm
LFF 128.21 327 ePKP 05 19.90 -0.1
1.3s 36.10nm
NNA 136.84 113 ePKP 05 37.50 0.2
LPB 142.53 125 iPKPc 05 43.50 -4.5X
1.0s 44.00nm
ZOBO 142.64 124 PKP 05 44.50 -3.9X
0.8s 22.57nm
Z 24s 0.05um 4.2MszX
LR 54 25.00
ITB 146.15 151 ePKP 05 53.50 0.1
ITB1 146.19 150 ePKP 05 54.60 1.2
MGP 147.50 63 iPKP 05 55.00 -0.7
PORP 147.88 63 iPKP 05 56.00 -0.3
KIC 148.10 275 PKP 05 57.28 0.5
SIV 148.37 131 PKPc 05 57.20 0.0
TIC 148.37 275 PKP 05 57.76 0.5
LIC 148.39 274 PKP 05 57.80 0.5
PPD 149.88 152 iPKPd 06 05.10 5.7X
e 06 09.70
VAO 150.75 160 ePKP 06 01.30 0.6
e 06 07.40
e 06 32.90
BMA 151.87 165 ePKP 06 10.40 8.0X
e 06 19.20
e 06 43.30
JFO 153.00 166 ePKP 06 14.10 10.1X
e 06 25.10
BAO 156.97 151 ePKPd 06 10.50 0.9
PDCR 162.76 172 ePKP 06 12.20 -3.4X
e 06 16.50
e 06 41.10
e 07 05.20
SOB1 165.62 163 ePKP 06 19.20 0.9
e 07 17.60
S.D. = 0.8 on 163 of 171 obs.

FEB 20, 1991 22h 10m 49.54± 0.53s
49.121 N ± 3.9km 6.852 E ± 7.0km
DEPTH = 10.0km (geophysicist)
GERMANY (543)
MD 2.7 (UCC), 2.6 (STR).

GWF 0.53 105 Pg 10 59.57 -0.6
RUP 0.60 13 ePg 11 01.05 -0.6
CDF 0.76 158 Pg 11 04.06 -0.4
Sg 11 17.09
WLS 0.78 155 Pg 11 04.39 -0.4
Sg 11 17.33
ECH 0.93 167 Pg 11 07.33 0.0
Sg 11 21.16
VITF 1.07 213 Pg 11 09.21 -0.5
Sg 11 25.14
MOF 1.28 172 Pg 11 14.03 0.6
Sg 11 32.37
FEL 1.47 148 Pg 11 17.16 1.0
TNS 1.52 43 ePnc 11 17.50 0.7
eSn 11 37.20
MEM 1.59 340 iP 11 17.00 -0.7
ENN 1.75 340 ePn 11 21.00 0.9
eSn 11 44.50
DOU 1.76 304 P 11 13.20 -7.1X
iS 11 39.30
SNF 2.17 311 iP 11 33.30 7.1X
GRF 2.91 77 ePg 11 46.00 9.2X
eSg 12 23.70
S.D. = 0.8 on 11 of 14 obs.

% FEB 20, 1991 22h 48m 53.14± 0.89s
39.518 N ±12.0km 29.247 E ±11.0km
DEPTH = 10.0km (geophysicist)

20d 22h

TURKEY (366)
MD 2.8 (ISK).

DST	0.49	281	iPg	49 02.30	-0.7
ALT	0.81	124	iPg	49 08.50	-0.5
			iSg	49 20.50	
KHL	1.21	170	iPn	49 16.30	0.5
BNT	1.32	310	ePn	49 18.00	0.5
EDC	1.35	308	ePn	49 18.00	0.1
KGT	1.76	303	ePn	49 24.00	0.1

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

FEB 20, 1991 23h 15m 00.93± 0.45s
35.294 N ± 5.5km 29.496 E ± 4.7km
DEPTH = 33.0km (normal)
EASTERN MEDITERRANEAN SEA (371)
MD 4.1 (ATH), 4.0 (ISK). ML 3.7 (CSS).

KSL	0.83	5	ePn	15 15.00	-1.1
ELL	1.49	13	iPg	15 27.60	1.8
KAP	1.91	278	ePn	15 32.20	0.4
YER	2.08	332	iPn	15 35.00	0.7
BCK	2.34	22	iPn	15 38.80	0.9
PPCY	2.37	99	eP	15 37.50	-0.8
CIN	2.57	334	eP	15 41.00	-0.1
KHL	3.02	0	ePn	15 48.50	0.8
CSS	3.16	95	eP	15 48.50	-1.0
			eS	16 25.50	
NPS	3.18	271	iPnc	15 51.00	1.2
ALT	3.79	7	ePn	15 58.00	-0.5
VAM	4.33	273	ePn	16 06.50	0.4
VLI	5.50	287	ePn	16 21.20	-1.5
KOT	5.70	159	ePn	16 26.00	0.6
			eSn	17 24.00	
SHMJ	5.80	114	P	16 21.80	-5.1X
BURJ	6.07	118	P	16 31.20	0.3
KFNJ	6.19	122	P	16 32.20	-0.2
MKRJ	6.35	124	P	16 35.10	0.4
ITM	6.40	289	ePn	16 35.00	-0.4
KHC	18.12	325	eP	19 09.50	-2.1

S.D. = 1.1 on 19 of 20 obs.

? FEB 20, 1991 23h 17m 04.25± 0.89s
1.596 S ±11.6km 77.956 W ±74.0km
DEPTH = 176.6 ± 31.1 km
4.4mb (1 obs.)
ECUADOR (107)

TUNG	0.52	290	iP	17 27.60	-1.8
VC1	1.05	335	P	17 32.00	-0.9
QUR	1.53	338	eP	17 36.10	-0.9
YANA	1.60	337	P+	17 36.80	-0.9
CAYA	1.67	359	eP	17 38.80	0.3
COTA	1.96	349	P	17 42.00	0.5
NNA	10.38	174	eP	19 31.00	1.1
	0.8s	10.45nm		4.4mb	
			eS	21 11.50	
LIC	73.22	83	P	28 17.50	-0.7
KIC	73.51	83	P	28 19.50	-0.4

S.D. = 1.1 on 9 of 9 obs.

? FEB 20, 1991 23h 26m 34.21± 3.09s
30.042 N ±37.4km 113.613 W ±25.5km
DEPTH = 10.0km (geophysicist)
4.4mb (1 obs.)
GULF OF CALIFORNIA (49)

GLA	3.18	341	eP	27 24.00	-1.2
BAR	3.71	316	eP	27 31.00	-1.8
PLM	4.31	321	eP	27 48.00	6.5X
TPC	4.55	334	eP	27 49.00	4.3X
PEC	4.88	323	e(P)	27 51.00	1.6
MWC	5.62	319	eP	28 18.00	17.9X
GSC	5.89	334	eP	28 17.00	13.2X
CLC	6.66	331	eP	28 20.00	5.4X
ALQ	7.77	49	eP	28 26.20	-4.1X
MSU	8.53	8	eP	28 45.00	4.0X
TNP	8.56	341	e(P)	28 46.00	4.7X
BONR	8.80	335	e(P)	28 49.50	4.8X
KVN	9.72	339	eP	28 59.00	1.8
CMB	9.75	327	e(P)	29 15.20	17.6X
SES	20.42	5	eP	31 13.00	-1.1
PMR	39.20	334	eP	34 04.10	0.3
INK	40.05	349	eP	34 10.00	-0.7
FBA	40.84	339	eP	34 17.70	0.4
	1.1s	8.60nm		4.4mb	
IMA	43.49	338	eP	34 38.80	-0.4
MBC	46.36	358	eP	35 03.00	1.2

S.D. = 1.4 on 10 of 20 obs.

• FEB 21, 1991 01h 01m 38.68± 1.21s
46.498 N ± 8.3km 13.472 E ±10.4km
DEPTH = 10.0km (geophysicist)
AUSTRIA (546)
ML 2.4 (KBA).

FVI	0.49	281	P	01 47.50	-1.0
			eSg	01 54.50	
KBA	0.59	351	ePg	01 50.50	-0.2
			i	01 52.40	
			iSg	01 58.60	
TRI	0.82	165	ePgd	01 54.30	-0.2
			iSg	02 08.70	
BHG	1.29	342	ePg	02 07.60	5.0X
SCE	1.33	295	ePg	02 04.10	0.8
CTI	1.34	251	P	02 04.00	0.5
			eSg	02 23.00	
KHC	2.64	2	ePg	02 34.50	12.5X
			Sg	03 04.50	

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

• FEB 21, 1991 01h 44m 17.19± 0.89s
19.759 S ± 8.3km 69.816 W ± 9.6km
DEPTH = 99.8 ± 12.0 km
4.0mb (1 obs.)
NORTHERN CHILE (123)

CNCB	3.41	31	iPc	45 11.10	1.2
LPB	3.60	27	iPc	45 12.00	-0.4
	1.0s	620.00nm			
			i	45 29.00	
			iS	46 32.00	
ARE	3.65	334	iPd	45 11.50	-1.4
			i	45 35.50	
			i	45 50.50	
			iS	46 09.90	
ZOBO	3.83	25	iP	45 16.00	0.4
	Z 16s	0.31um			
			i	45 29.00	
			S	46 45.00	
			LR	47 25.00	
ANT	3.97	188	e(P)	45 17.00	0.1
CCH	4.21	56	P	45 16.00	-4.6X
			S	46 22.00	
SIV	9.13	67	iPc	46 23.60	-4.3X
			iS	47 26.20	
NNA	10.26	318	eP	46 43.50	0.3
	0.5s	8.45nm		4.9mb X	
			e	49 33.50	
PPD	17.44	101	eP	48 16.50	0.9
			e	49 27.80	
BAO	21.19	82	eP	48 54.50	-2.0
VAO	21.52	103	eP	48 59.50	-0.1
SOB1	29.85	74	eP	50 17.10	-0.3
			e	51 20.00	
PDCR	30.31	81	eP	50 21.40	0.0
			e	51 25.10	
YKA	89.27	341	eP	57 04.10	1.3
	0.7s	0.80nm		4.0mb	

S.D. = 1.1 on 12 of 14 obs.

• FEB 21, 1991 01h 49m 34.46± 0.91s
37.993 N ± 9.5km 100.438 E ±10.1km
DEPTH = 33.0km (normal)
4.5mb (1 obs.)
QINGHAI PROVINCE, CHINA (325)

GTA	1.50	341	Pn	49 59.80	0.4
			Pg	50 02.00	
			Sn	50 16.50	
			Sg	50 23.00	
LZH	3.32	124	Pn	50 28.00	2.5
			Pg	50 35.00	
			Sn	51 04.50	
			Sg	51 16.00	
CD2	7.58	158	ePn	51 26.20	0.8
			eSn	52 50.00	
BTO	7.87	68	eP	51 30.00	0.4
XAN	7.92	117	eP	51 27.80	-2.5
HHC	9.07	68	Pd	51 45.20	-1.0
TIY	9.49	88	iPd	51 51.40	-0.6
	Z 10s	1.00um			
WMO	11.26	305	P	52 15.50	-0.7
BJI	12.41	76	eP	52 31.00	-0.6
	Z 16s	0.70um			
	N 10s	0.54um			
GYA	12.64	154	P	52 34.00	-0.9
CN2	19.74	65	Pd	54 06.40	2.1
WRA	65.85	145	P	00 19.00	0.1
	0.7s	2.90nm		4.5mb	

S.D. = 1.5 on 12 of 12 obs.

FEB 21, 1991 01h 55m 10.68± 0.18s
58.447 N ± 4.4km 175.415 W ± 2.5km
DEPTH = 20.0km (geophysicist)
5.0mb (32 obs.) 4.5Msz (1 obs.)
BERING SEA (3)

ADK	6.62	187	e(P)	56 43.80	-5.4X
			eTT	03 01.50	
ANM	7.79	34	eP	57 05.70	0.1
SMY	8.24	230	eP	57 10.90	-1.1
SDN	8.74	104	eP	57 17.40	-1.4
SVW	10.32	67	eP	57 39.60	-1.0
TTA	10.50	57	eP	57 42.70	-0.4
	1.4s	117.90nm		6.0mb X	
PDB	10.98	74	eP	57 49.60	0.0
IMA	12.62	44	eP	58 11.20	-0.6
SLKM	12.94	70	eP	58 18.50	2.5X
FBA	14.52	52	eP	58 36.90	0.2
BALM	16.76	67	eP	59 08.50	2.8X
INK	20.75	44	ePc	59 51.00	-1.2
	1.0s	118.00nm		5.2mb	
MBC	26.35	27	ePc	00 47.70	1.2
	1.0s	25.00nm		4.8mb	
YKA	29.26	56	eP	01 12.50	-0.5
	0.8s	7.00nm		4.5mb	
PNT	33.22	81	eP	01 48.00	0.0
EDM	34.13	71	iPc	01 56.50	0.6
NEW	35.17	81	eP	02 05.00	0.2
	0.9s	20.83nm		5.0mb	
SES	36.96	74	ePc	02 20.60	0.7
MAT	37.21	255	eP	02 22.00	-0.1
	0.8s	49.25nm		5.4mb	
LBFM	37.33	93	eP	02 24.50	1.2
WDC	37.54	95	eP	02 24.00	-0.9
CN2	38.56	274	P	02 33.60	0.3
FFC	38.76	63	eP	02 34.00	-0.9
	1.1s	28.00nm		4.9mb	
ORV	38.84	95	eP	02 35.10	-0.6
LRM	39.18	80	eP	02 39.40	0.6
BRK	39.69	97	e(P)	02 43.40	0.6
CMB	40.55	96	eP	02 50.50	0.6
	1.8s	53.76nm		5.0mb	
SNY	40.92	274	iPd	02 53.00	0.1
	1.2s	100.00nm		5.4mb	
KVN	40.99	92	eP	02 54.90	1.1
LLA	41.32	97	eP	02 56.50	0.2
FRI	41.69	96	eP	02 59.70	0.5
BONR	41.70	94	eP	03 00.80	1.1
PRI	41.83	98	ePc	03 02.50	1.9
TNP	42.17	93	eP	03 04.00	0.5
	1.1s	14.07nm		4.6mb	
BW06	42.78	82	eP	03 08.80	0.3
	0.9s	9.18nm		4.5mb	
ISA	43.34	96	eP	03 13.00	0.1
SYP	43.43	99	eP	03 06.00	-7.7X
CLC	43.68	95	eP	03 16.00	0.4
DAG	44.23	8	iPc	03 19.30	-0.2
	0.9s	15.13nm		4.8mb	
GSC	44.49	95	eP	03 23.00	0.8
MSU	44.50	88	eP	03 22.50	0.0
MWC	44.67	97	eP	03 24.00	0.2
RSSD	44.68	76	eP	03 23.50	-0.3
TPC	45.81	95	eP	03 32.00	-0.7
PLM	45.97	97	eP	03 35.00	0.9
FRB	46.06	36	eP	03 33.00	-1.1
BJI	46.09	278	eP	03 35.00	0.3
	1.5s	58.00nm		5.3mb	
BAR	46.59	97	eP	03 39.00	0.2
GOL	47.19	81	eP	03 44.00	0.2
	1.5s	58.96nm		5.4mb	
GLA	47.27	95	eP	03 44.00	-0.2
TIY	49.76	279	Pc	04 04.50	1.0
	Z 16s	0.70um		4.8MszX	
	N 11s	0.40um			
ALQ	50.20	86	eP	04 06.50	-0.6
	1.5s	18.06nm		4.8mb	
SSE	50.27	266	Pc	04 07.50	0.2
	1.0s	25.00nm		5.2mb	

Z 20s 0.50um 4.5Msz
NJ2 50.75 269 Pd 04 10.50 -0.4
1.2s 100.00nm 5.6mb
SCH 53.39 43 eP 04 30.00 -0.6
SOD 53.44 350 eP 04 36.00 5.3X
WHN 54.30 271 eP 04 37.50 0.0
GTA 54.90 289 Pd 04 41.00 -1.0
1.0s 20.00nm 5.1mb
pP 04 44.40 11kmX
sP 04 48.30
FVM 56.11 71 eP 04 49.40 -1.2
WMO 57.23 301 P 04 58.50 -0.2
OLY 57.52 74 eP 04 58.50 -2.1
WVLY 58.28 60 eP 05 04.50 -1.4
KAF 58.60 348 eP 05 07.00 -0.9
1.0s 16.90nm 5.1mb
CD2 59.55 280 Pd 05 14.00 -0.9
0.9s 40.00nm 5.5mb
NUR 60.35 349 eP 05 21.30 1.4
0.9s 19.70nm 5.2mb
NB2 60.74 356 P 05 23.20 0.6
1.1s 16.10nm 5.1mb
GBTN 61.01 69 eP 05 23.50 -1.2
HFS 61.54 355 eP 05 27.00 -1.0
0.5s 1.20nm 4.3mb
GYA 61.60 275 P 05 28.60 -0.4
LSA 66.93 289 eP 06 04.40 0.3
SHL 69.96 286 eP 06 21.00 -1.6
CLL 70.39 354 eP 06 25.00 0.4
KSP 70.65 352 eP 06 18.00 -8.2X
e 06 26.50
PRU 71.62 353 eP 06 32.80 0.7
DOU 71.82 360 P 06 33.80 0.6
CHG 71.91 276 ePd 06 34.00 -0.3
1.1s 25.00nm 5.2mb
SPC 71.96 349 eP 06 36.20 1.9
GRF 72.09 355 e(P) 06 36.00 1.1
KHC 72.53 354 iP 06 38.70 1.2
ZST 73.22 351 iP 06 42.10 0.6
e 22 17.30
SRO 73.50 350 eP 06 43.80 0.7
HAU 73.90 359 eP 06 45.30 -0.2
KBA 74.59 354 eP 06 50.00 0.3
1.4s 14.60nm 4.8mb
i 07 13.20
LOR 74.65 1 eP 06 49.70 -0.1
0.9s 9.85nm 4.8mb
SSF 74.85 1 eP 06 51.10 0.1
0.9s 5.75nm 4.6mb
MLR 74.92 345 eP 06 55.00 3.4X
LBF 74.93 0 eP 06 51.20 -0.3
0.9s 5.75nm 4.6mb
AVF 75.12 1 eP 06 52.50 0.0
1.2s 14.90nm 4.9mb
MFF 75.24 3 eP 06 53.50 0.3
SMF 75.27 1 eP 06 53.20 -0.2
0.9s 9.85nm 4.8mb
BGF 75.35 1 eP 06 53.70 -0.2
LSF 75.64 2 eP 06 55.60 0.1
MAF 75.68 1 eP 06 55.70 -0.1
1.0s 9.00nm 4.8mb
OHR 79.89 348 eP 07 18.20 -0.9
MTN B3.25 232 eP 07 37.00 0.2
HYB B3.43 293 ePc 07 38.50 0.6
SHMJ 85.50 334 P 07 52.80 4.7X
MKRJ 86.66 334 P 07 57.50 3.6X
GBA 87.25 292 P 07 56.80 0.0
WRA 88.40 226 P 08 02.00 -0.1
1.2s 3.60nm 4.6mb
WRA 88.40 226 P 08 09.00 6.9X
0.5s 6.60nm 5.2mb
BCAO 116.33 344 ePKPd 14 04.20 9.9X
0.5s 3.00nm
ic 15 16.00
S.D. = 0.8 on 91 of 102 obs.

? FEB 21, 1991 02h 04m 53.91± 2.02s
3.710 S ±23.7km 140.170 E ±13.4km
DEPTH = 33.0km (normal)
5.2mb (1 obs.)
WEST IRIAN (201)

MNDI 4.24 125 eP 05 57.00 -1.0
KNA 16.40 222 eP 08 43.00 -0.3
OIS 16.75 182 eP 08 47.00 -0.8
eS 11 41.00
WB2 17.10 199 eP 08 54.00 1.8
e 12 09.00
eS 13 28.50
CTA 17.33 160 eP 08 57.00 2.0
ASPA 20.74 196 iPc 09 33.60 -0.9
0.6s 62.10nm 5.2mb
eS 13 17.30
WARB 25.84 209 eP 10 24.00 -0.2
BRS 26.45 154 iPc 10 29.50 -0.4
FORR 29.30 202 eP 10 54.30 -1.3
ZOBO 145.70 126 PKPc 24 33.50 1.1
1.2s 27.03nm
CCH 146.63 130 PKP 24 27.80 -5.7X
PPD 152.06 157 ePKP 24 49.70 8.3X
S.D. = 1.4 on 10 of 12 obs.

FEB 21, 1991 02h 25m 28.44± 0.69s
37.927 N ± 5.6km 26.755 E ± 8.2km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)
MD 3.6 (ATH), 3.5 (ISK).

SMG 0.23 163 iPgc 25 32.40 -0.9
IZM 0.62 40 iPg 25 40.50 -0.4
iSg 25 48.50
CIN 1.10 107 ePg 25 48.00 -1.2
iSg 26 05.00
APE 1.30 229 ePb 25 52.20 -0.3
PRK 1.37 344 ePg 25 52.50 -1.0
YER 1.45 123 iPn 25 55.00 0.3
EZN 1.93 350 ePn 26 03.90 2.4
KHL 2.22 79 ePn 26 06.10 0.2
DST 2.23 41 iPn 26 06.90 0.9
KAP 2.40 172 ePb 26 10.00 1.7
KGT 2.56 9 ePn 26 09.30 -1.3
EDC 2.57 19 ePn 26 15.00 4.3X
BNT 2.59 20 ePn 26 14.30 3.2X
NPS 2.81 199 ePg 26 20.80 6.5X
RDO 3.35 344 ePn 26 20.00 -1.8
DMK 3.97 11 ePn 26 32.00 1.4
S.D. = 1.4 on 13 of 16 obs.

% FEB 21, 1991 02h 28m 28.02± 1.37s
39.855 N ±10.2km 28.039 E ±10.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

KCT 0.46 32 eP 28 37.50 0.1
BNT 0.51 350 ePg 28 38.50 0.2
EDC 0.51 345 ePg 28 38.00 -0.3
eSg 28 50.00
DST 0.52 119 iPg 28 38.50 0.0
iSg 28 47.80
KGT 0.82 317 ePg 28 44.00 0.1
S.D. = 0.3 on 5 of 5 obs.

& FEB 21, 1991 02h 30m 48.78s
60.153 N 153.269 W
DEPTH = 135.9km
SOUTHERN ALASKA (2)
<AEIC>.

RED 0.36 43 iP 31 07.37 0.8
RS2 0.40 39 iP 31 07.76 -0.8
RSO 0.40 39 iP 31 07.70 -0.8
REF 0.44 40 iP 31 07.91 -0.8
RDN 0.44 35 iP 31 07.84 -0.8
NCT 0.44 22 iP 31 07.86 -0.7
eS 31 22.55
PDB 0.59 232 eP 31 08.33 -1.0
eS 31 23.73
RDT 0.60 45 iP 31 08.55 -0.9
AUH 0.80 186 eP 31 10.26 -0.6
eS 31 26.63
AUE 0.80 184 eP 31 10.02 -0.7
eS 31 25.71
AUI 0.82 186 eP 31 10.20 -0.8
eS 31 26.25
HOM 0.96 121 eP 31 11.49 -0.6
eS 31 29.12
NNL 0.99 96 eP 31 12.09 -0.4
XLV 1.05 131 eP 31 11.68 -1.3
eS 31 30.64
MCNL 1.11 210 iP 31 12.42 -1.1
eS 31 31.06
CKL 1.14 23 iP 31 13.18 -0.8
eS 31 32.47
NKA 1.17 59 eP 31 14.92 0.9
SPU 1.19 30 iP 31 13.29 -1.1
eS 31 33.05
BGL 1.20 21 eP 31 13.99 -0.5
CNPM 1.20 121 iP 31 13.50 -1.0
iS 31 32.96
CDD 1.24 189 iP 31 13.60 -1.3
eS 31 32.99
CRP 1.24 26 eP 31 13.91 -1.2
BRLK 1.26 107 eP 31 13.82 -1.3
eS 31 33.47
NCG 1.37 23 eP 31 15.52 -0.8
SVW 1.50 311 eP 31 16.19 -1.5
SLKM 1.56 75 eP 31 16.68 -1.6
SYI 1.61 163 eP 31 17.49 -1.4
eS 31 40.08
SUA 1.81 42 eP 31 19.86 -1.4
eS 31 44.75
SEW 1.91 90 eP 31 20.64 -1.7
SKT 2.02 24 eP 31 22.23 -1.5
PMS 2.13 57 eP 31 22.99 -2.1
eS 31 49.79
PWA 2.24 46 eP 31 24.34 -2.0
eS 31 53.59
PLRM 2.49 53 eP 31 26.53 -3.0
GHO 2.67 51 eP 31 28.89 -3.1
KNK 2.68 60 eP 31 29.01 -3.0
S 32 01.29
CUT 2.68 31 eP 31 30.16 -1.9
eS 32 03.32
KNIM 2.77 84 eP 31 29.88 -3.3
MTU 2.82 91 eP 31 31.80 -2.1
eS 32 04.76
GLI 3.14 74 eP 31 35.73 -2.3
S 32 11.46
HUR 3.32 30 eP 31 37.88 -2.6
VZW 3.43 72 eP 31 39.76 -2.2
eS 32 1B.07
VLZ 3.55 71 eP 31 40.88 -2.6
eS 32 21.23
TRF 3.60 22 eP 31 42.31 -2.0
KLU 3.84 66 eP 31 44.04 -3.4
RND 3.88 31 eP 31 45.62 -2.3
TOA 3.96 57 eP 31 46.40 -2.6
MCK 4.13 28 eP 31 49.32 -1.9
TZL 4.25 60 eP 31 51.60 -1.2
BWN 4.41 22 eP 31 53.00 -1.9
SDG 4.42 54 eP 31 53.03 -2.0
PAX 4.68 49 eP 31 55.94 -2.7
GLB 4.81 70 eP 31 58.14 -2.2
NEA 4.85 22 eP 31 58.20 -2.6
WRH 4.96 27 eP 31 59.23 -3.1
DDM 5.05 41 eP 32 02.19 -1.4
CCB 5.17 27 eP 32 02.03 -3.2
HDA 5.19 32 eP 32 02.25 -3.1
RDS 5.26 25 eP 32 03.24 -3.1
MDM 5.36 24 iP 32 04.74 -2.9
FBA 5.40 26 eP 32 05.12 -3.0
BALM 5.46 76 eP 32 06.84 -2.3
GLM 5.56 27 eP 32 07.24 -3.2
62 obs. associated

FEB 21, 1991 02h 35m 34.05± 0.11s
58.427 N ± 2.7km 175.450 W ± 1.9km
DEPTH = 20.2km (geophysicist)
6.2mb (100 obs.) 6.5Msz (51 obs.)
BERING SEA (3)
Ms 6.7 (BRK), 6.4 (PAS).
Mo=3.0*10**19 Nm (PPT). Felt (IV) on St. Poul in the Pribilof Islonds, Alaska. Felt (III) on Adak in the Andreonof Islonds, Alosko. A smoll tsunami was generated with moximum wave heights (peak-to-trough) of 30 cm. ot Dutch Harbor and 22 cm. at Adok. Believed to be the largest eorthquoke ever located in this area. Two events obout 3.7 seconds apart. Depth from broodbond displocement seismograms, based on the first event.
FAULT PLANE SOLUTION: P-Woves
NP1:Strike=279 Dip=70 Slip= -40
NP2: 25 53 -155
Principol Axes:

21d 02h

T Plg=11 Azm=336
P 42 236
Comment: The focal mechanism is poorly controlled and corresponds to strike-slip faulting with a large normal component. The preferred fault plane is not determined.
RADIATED ENERGY
No. of sta: 14 Focal mech. F
Energy 3.9±1.0*10**14 Nm
MOMENT TENSOR SOLUTION
Dep 12 No. of sta: 22
Moment Tensor; Scale 10**18 Nm
Mrr=-5.53 Mtt= 6.20
Mff=-0.67 Mrt= 1.09
Mrf=-2.91 Mtf= 2.76
Principal axes:
T Val= 7.18 Plg= 0 Azm=341
N 0.08 29 71
P -7.26 61 250
Best Double Couple:Mo=7.2*10**18
NP1:Strike= 45 Dip=52 Slip=-128
NP2: 276 52 -52
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 21S, 53C M.W.: 7S, 16C
Centroid Location:
Origin Time 02:35:40.3 0.1
Lat 58.43N 0.01 Lon 175.15W 0.03
Dep 15.0 BDY Half-duration 8.0
Moment Tensor; Scale 10**19 Nm
Mrr=-0.72 0.01 Mtt= 1.12 0.01
Mff=-0.40 0.01 Mrt=-0.02 0.03
Mrf=-0.47 0.02 Mtf=-0.06 0.01
Principal Axes:
T Val= 1.12 Plg= 0 Azm=182
N -0.06 36 92
P -1.06 54 272
Best Double Couple:Mo=1.1*10**19
NP1:Strike=302 Dip=55 Slip= -45
NP2: 62 55 -135

ADK 6.60 187 eP 37 06.00 -6.3X
eTT 43 17.10
ANM 7.81 34 eP 37 27.70 -1.6X
SMY 8.22 230 eP 37 30.50 -4.4X
eTT 45 44.10
SDN 8.75 104 eP 37 39.10 -3.2X
ILT 9.62 353 iPc 37 52.00 -2.3X
iS 40 35.00
SVW 10.34 67 ePc 38 03.20 -1.1
TTA 10.53 56 e(P) 38 02.00 -4.9X
PDB 11.00 74 eP 38 10.80 -2.5X
RSO 11.71 70 eP 38 21.00 -2.1X
IMA 12.65 44 eP 38 33.00 -2.5X
SLKM 12.97 70 eP 38 39.00 -0.7
i 39 38.40
PMR 13.50 65 eP 38 46.50 -0.1
COL 14.55 52 ePc 39 02.24 1.8
eS 41 51.65
FBA 14.55 52 eP 38 58.50 -1.9
TOA 14.91 63 eP 39 06.90 1.6
MID 15.01 74 eP 39 11.30 4.9X
KLU 15.03 66 eP 39 05.40 -1.5
BRW 15.05 23 eP 39 06.00 -0.9
PET 15.51 261 iPd 39 14.00 1.1
iS 42 06.00
BALM 16.79 67 ePd 39 29.10 -0.2
iS 41 22.50
INK 20.78 44 iPc 40 14.70 -1.1
SIT 21.24 76 eP 40 21.50 0.9
Z 18s 223.80um 6.6Msz
TIK 25.77 323 iPd 41 05.00 0.5
iS 45 35.00
MBC 26.37 27 ePc 41 10.90 0.8
1.1s 439.00nm 6.0mb
YSS 27.33 264 iPd 41 20.00 1.0
eS 45 14.00
YKA 29.29 56 eP 41 35.70 -0.9
0.9s 59.30nm 5.4mb
SAP 30.73 259 eP 41 49.00 -0.6
PGC 31.64 85 eP 41 59.00 1.5
1.0s 182.00nm 5.9mb
MCW 31.95 84 eP 42 01.00 0.7
GMW 32.68 86 eP 42 06 50 -0.2
BMW 33.14 88 eP 42 11.00 0.3

PNT 33.24 81 ePd 42 11.00 -0.5
1.1s 203.00nm 6.0mb
LON 33.70 86 eP 42 15.00 -0.6
EDM 34.16 71 ePd 42 19.50 0.1
COR 34.35 90 ePd 42 25.05 3.9X
ed 42 28.03
epP 42 31.67 23kmX
eS 47 50.66
eScS 52 08.07
VGB 35.05 87 eP 42 27.20 0.0
NEW 35.19 81 eP 42 28.00 -0.4
1.2s 515.15nm 6.3mb
MDJ 35.81 272 iPc 42 31.20 -2.4
1.5s 400.00nm 6.1mb
PP 43 52.00
FHC 36.64 96 eP 42 41.80 1.1
1.6s 1583.33nm 6.6mb
SES 36.98 74 ePd 42 43.50 0.1
1.0s 495.00nm 6.3mb
MAJO 37.19 255 ePd 42 45.41 0.1
ed 42 49.22
epPc 42 52.20 23kmX
ePP 44 14.38
eS 48 29.77
MAT 37.19 255 iPd 42 45.10 -0.2
Z 20s 19.50um 5.9Msz
eS 48 42.00
LBFM 37.35 93 eP 42 47.50 0.7
WDC 37.56 95 ePd 42 49.50 1.2
HIA 37.89 285 iPc 43 10.96 19.9X
eS 48 45.40
eSS 51 40.21
MIN 38.22 94 ePd 42 54.50 0.4
CN2 38.54 274 iPd 42 55.00 -1.5
1.0s 300.00nm 6.0mb
Z 17s 110.00um 6.7MszX
N 17s 78.50um
E 17s 38.00um
pP 43 04.00 30kmX
PP 44 32.00
eS 48 56.00
FFC 38.78 63 ePd 42 57.90 -0.6
0.7s 26.00nm 5.1mb X
FFC 38.78 63 eP 43 07.00 8.5X
1.0s 191.00nm 5.8mb
OPA 38.80 154 P 43 09.00 10.1X
ORV 38.85 95 ePd 42 59.10 -0.1
KIP 39.06 154 ePd 43 05.66 4.6X
ePP 44 36.15
eS 49 06.76
HON 39.16 154 P 43 13.00 11.1X
LRM 39.20 80 ePd 43 02.30 -0.1
NRI 39.25 326 iPd 43 01.80 -0.3
iS 49 02.00
BRK 39.70 97 eP 43 06.80 0.5
BKS 39.71 97 iPd 43 06.80 0.4
2.0s 1929.00nm 6.5mb
Z 20s 56.00um 6.4Msz
N 20s 44.00um
E 20s 21.00um
i 43 13.30
ePP 44 50.00
eS 49 14.00
eLQ 51 31.00
eLQ 52 32.00
eLR 54 29.00
PCC 39.92 98 eP 43 08.20 0.1
HPI 40.30 83 eP 43 12.00 0.4
MHC 40.43 97 eP 43 12.90 0.5
Z 20s 47.00um 6.3Msz
N 20s 28.00um
E 20s 69.00um
ePPc 45 04.00
eS 49 34.00
e 50 47.00
eLQ 52 52.00
eLR 55 07.00
GCC 40.48 98 eP 43 13.50 0.9
ARN 40.48 97 eP 43 13.20 0.5
CMB 40.56 95 ePd 43 14.37 0.9
ePcP 45 18.59
eS 49 29.44
esS 49 43.24
MHA 40.76 151 P 43 23.00 7.9X
SNY 40.90 274 iPd 43 15.90 -0.2
2.1s 4100.00nm 6.8mb

Z 22s 56.80um 6.4Msz
N 17s 65.90um
E 17s 83.10um
PP 44 53.80
SAO 40.97 98 eP 43 16.70 0.0
Z 20s 63.00um 6.5Msz
N 20s 33.00um
E 20s 42.00um
KVN 41.01 92 eP 43 17.70 0.5
PTI 41.27 84 eP 43 20.00 0.7
PRS 41.33 98 eP 43 20.30 0.6
LLA 41.34 97 eP 43 20.70 0.9
SHK 41.58 258 ePd 43 22.00 0.3
FRI 41.70 96 eP 43 23.10 0.4
BONR 41.72 94 eP 43 23.80 0.6
PRI 41.85 98 eP 43 25.30 1.3
TNP 42.19 93 ePd 43 27.50 0.5
1.5s 0.48nm 3.0mb X
BW06 42.81 82 iPd 43 31.00 -1.0
1.0s 0.20nm 2.8mb X
KBS 42.83 358 eP 43 32.50 1.0
ISA 43.36 96 ePd 43 35.66 -0.7
epPc 43 42.11 22kmX
esPd 43 45.26
SYP 43.45 98 eP 43 38.00 0.9
IRK 43.47 298 iPd 43 37.00 0.0
ABL 43.59 97 eP 43 38.50 0.1
DAU 43.61 85 eP 43 38.90 0.2
SBC 43.65 98 ePd 43 39.40 0.8
epPc 43 45.19 19kmX
esPd 43 49.00
ePP 45 25.58
eS 50 12.55
DL2 44.05 272 Pd 43 41.00 -0.8
1.6s 1590.00nm 6.6mb
Z 18s 40.80um 6.4Msz
N 17s 51.80um
E 17s 69.00um
PP 45 27.00
S 50 06.00
DAG 44.26 8 iPc+ 43 42.20 -0.8
0.9s 168.07nm 5.9mb
Z 24s 148.84um 6.8MszX
N 24s 119.38um
GSC 44.51 95 ePd 43 45.73 0.0
epPc 43 51.53 19kmX
esPd 43 55.34
eS 50 22.73
esS 50 37.30
PAS 44.68 97 ePd 43 47.25 0.3
epPc 43 52.38 17kmX
esPd 43 56.18
ePcP 45 18.00
ePP 46 00.00
ePPP 46 36.00
ePcS 49 16.00
eS 50 24.08
eScS 53 21.00
eSS 54 24.00
eLQ 55 25.00
eLR 56 38.00
MWC 44.68 97 eP 43 47.00 -0.2
RSSD 44.71 76 iPd 43 46.00 -1.4
Z 20s 112.99um 6.8Msz
RVR 45.22 97 eP 43 51.00 -0.3
PEC 45.41 96 ePd 43 52.50 -0.3
TPC 45.82 95 eP 43 56.00 -0.1
GDH 45.94 25 iPc 43 56.00 -0.5
1.2s 87.50nm 5.6mb
i 45 56.00
i 50 37.00
i 54 35.00
PLM 45.98 97 eP 43 57.00 -0.5
BJI 46.07 278 ePd 43 58.03 0.1
2.0s 2430.00nm 6.8mb
Z 20s 29.90um 6.2Msz
N 16s 44.10um
ed 44 01.67
epPc 44 04.98 23kmX
ePP 45 49.35
eS 50 50.25
FRB 46.08 36 ePd 43 56.60 -1.1
0.9s 226.00nm 6.1mb
PV09 46.13 85 ePd 43 58.00 -0.8
BAR 46.61 97 eP 44 01.00 -1.3
GLD 47.25 81 ePd 44 08.40 0.9
2.0s 2.04nm 3.8mb X

Z 18s 86.48um 6.8Msz
GLA 47.28 95 eP 44 06.00 -1.7
HHC 47.87 282 iPd 44 12.00 -0.3
5.0s 4900.00nm 6.8mb X
Z 18s 84.60um 6.8Msz
N 14s 19.30um
E 14s 43.20um
PP 46 08.00
S 51 11.00
TIA 48.43 273 P 44 16.10 -0.4
N 18s 27.90um
E 18s 55.60um
S 51 16.50
BTO 48.85 283 iPd 44 19.00 -0.8
5.0s 3500.00nm 6.6mb X
N 13s 40.10um
E 15s 61.60um
sP 44 24.00
PP 46 17.00
PcS 49 37.00
iS 51 28.00
TIY 49.75 279 iPd 44 26.90 0.2
1.4s 1400.00nm 6.8mb
Z 16s 69.10um 6.8MszX
N 13s 44.80um
PP 46 26.00
ANMO 50.22 86 ePd 44 33.36 2.8
Z 19s 51.04um 6.6Msz
eS 51 44.25
esS 51 58.32
ALO 50.22 86 iPd- 44 30.00 -0.6
1.8s 568.18nm 6.3mb
Z 19s 65.97um 6.7Msz
SSE 50.25 266 iPd 44 30.00 -0.5
1.4s 460.00nm 6.3mb
Z 20s 24.30um 6.2Msz
N 20s 26.50um
E 18s 26.50um
pP 44 40.00 33kmX
PcS 49 50.00
iS 51 47.00
NJ2 50.73 269 iPd 44 34.00 -0.1
1.4s 1200.00nm 6.7mb
Z 16s 20.40um 6.2MszX
N 13s 19.60um
E 13s 21.60um
pP 44 42.50 28kmX
PcP 45 50.00
S 51 47.00
KEV 51.10 350 iP 44 36.20 -0.3
1.3s 382.70nm 6.2mb
Z 20s 28.90um 6.3Msz
i 44 46.00
e 46 48.00
e 47 40.00
e 52 00.00
e 54 36.00
LR 06 06.00
TRO 51.82 354 eP 44 41.80 -0.1
APA 52.55 347 eP 44 46.50 -1.0
iS 52 08.70
SCH 53.42 43 ePd 44 53.20 -0.9
0.9s 350.00nm 6.3mb
SOD 53.45 350 iP 44 53.90 -0.3
i 44 58.20
PJG 53.68 230 eP 44 55.50 -0.9
GUA 53.71 230 eP 44 54.50 -2.1
0.7s 290.41nm 6.4mb
Z 22s 38.52um 6.4Msz
WHN 54.28 271 iPd 45 00.20 -0.5
2.0s 1B00.00nm 6.8mb
Z 20s 26.30um 6.3Msz
N 18s 48.40um
E 19s 53.80um
PP 47 08.00
XAN 54.39 278 iPd 45 00.00 -1.5
1.5s 900.00nm 6.6mb
N 18s 76.30um
E 18s 105.00um
GTA 54.89 289 iPd 45 04.00 -1.3
1.6s 400.00nm 6.2mb
Z 11s 67.90um 7.0MszX
E 16s 99.00um
pP 45 11.00 23kmX
PcP 46 08.40
PP 47 10.00
S 52 40.00
sS 52 56.00
ScS 54 52.00
SS 56 22.00
TATO 55.01 261 ePd 45 06.52 0.4
epPc 45 12.98 21kmX
ePP 47 08.60
AKU 55.04 11 iP 45 06.00 0.2
0.9s 168.07nm 6.1mb
Z 17s 70.75um 6.8MszX
LZH 55.42 284 ePd 45 08.02 -1.2
2.0s 2480.00nm 6.9mb
Z 24s 47.40um 6.5MszX
N 17s 68.50um
E 19s 90.80um
id 45 11.82
epPc 45 14.64 22kmX
PcP 46 09.00
PP 47 13.00
CCM 55.67 72 eP 45 09.09 -1.7
esPd 45 18.36
ePP 47 23.99
eS 52 56.31
eScS 55 00.19
SLM 55.73 71 P 45 12.00 0.9
REY 56.11 14 e(P) 45 13.50 0.0
FVM 56.14 71 ePd 45 12.10 -2.0
1.5s 0.51nm 3.3mb X
ELF 56.48 61 P 45 16.35 -0.2
QZH 56.55 264 Pd 45 16.00 -1.2
4.0s 9160.00nm 7.2mb X
DLA 56.62 61 P 45 18.20 0.6
LDN 56.66 61 P 45 17.60 -0.2
WMO 57.23 301 ePd 45 22.03 0.0
2.5s 1100.00nm 6.4mb
Z 22s 36.40um 6.4Msz
N 18s 106.00um
id 45 25.50
epPc 45 27.99 19kmX
ePcP 46 12.02
ePP 47 28.98
eS 53 14.39
eScS 55 15.78
RSNY 58.45 55 eP 45 28.40 -2.0
KAF 58.62 348 eP 45 30.10 -1.2
0.8s 207.20nm 6.3mb
CBM 59.21 50 eP 45 34.90 -0.8
HBVT 59.23 55 eP 45 34.30 -1.5
CD2 59.53 280 iPd 45 37.00 -1.1
1.2s 700.00nm 6.7mb
Z 18s 65.80um 6.8Msz
E 13s 37.10um
S 53 46.00
MZX 59.58 95 (P) 45 34.50 -3.9X
BNH 59.82 53 eP 45 38.50 -1.4
SCP 59.95 60 ePd 45 39.60 -1.3
esPd 45 49.04
eS 53 50.95
eScS 55 19.10
eSS 57 54.70
MIM 60.21 51 eP 45 41.50 -1.0
NUR 60.36 349 iP 45 42.20 -1.1
1.1s 160.70nm 6.1mb
Z 18s 25.80um 6.4Msz
i 45 47.00
e 48 00.00
e 49 36.00
e 54 00.00
e 55 28.00
LR 14 16.00
RSCP 60.42 70 eP 45 42.40 -1.7
Z 20s 124.29um 7.1Msz
PUL 60.42 345 eP 45 43.00 -0.7
eS 54 00.00
HYA 60.74 359 eP 45 45.50 -0.3
NB2 60.76 356 P 45 45.00 -1.1
1.1s 248.60nm 6.3mb
GZH 60.81 267 eP 45 46.70 -0.1
Z 18s 19.10um 6.3Msz
N 16s 18.80um
E 17s 41.40um
HKC 61.02 266 eP 45 45.50 -2.8
eS 54 12.00
GBTN 61.03 69 eP 45 46.70 -1.5
TKL 61.25 68 eP 45 48.40 -1.3
TXNY 61.30 58 P 45 48.60 -1.4
TBR 61.32 58 eP 45 48.70 -1.4
HRV 61.38 55 ePd 45 50.44 -0.1
epP 45 56.07 18kmX
esPd 45 58.88
ePP 48 09.64
iPPP 49 42.34
eScP 50 36.97
eS 54 14.35
eScS 55 42.91
eSS 58 18.10
ASK 61.43 360 eP 45 51.30 0.8
BER 61.53 360 eP 45 56.00 4.8X
PNJ 61.54 58 iP 45 50.30 -1.3
PcP 46 42.40
PP 48 03.50
PPP 49 04.90
eS 54 41.10
PKKP 07 05.10
GMTN 61.54 58 iP 45 50.30 -1.3
HFS 61.56 355 eP 45 50.00 -1.5
1.0s 95.10nm 5.9mb
Z 19s 34.40um 6.5Msz
LR 06 44.00
GYA 61.59 275 iPd 45 51.00 -1.3
1.8s 1500.00nm 6.8mb
Z 22s 30.10um 6.4Msz
N 18s 42.50um
E 18s 35.50um
PP 48 11.00
S 54 12.00
SS 58 16.00
UPP 61.61 353 iP 45 50.30 -1.5
iS 54 02.00
BLA 61.62 65 ePd 45 50.80 -1.5
ODD1 61.99 359 eP 45 54.90 0.4
KONO 62.20 357 eP 45 58.17 2.4
ed 46 00.48
epPc 46 04.46 20kmX
CBN 62.26 62 eP 45 55.00 -1.4
BAG 62.59 256 eP 45 57.20 -1.9
eS 54 28.00
MOS 63.13 340 iPc 46 02.00 0.0
iS 54 33.00
PRM 63.20 68 eP 46 01.30 -1.5
JSC 63.58 67 eP 46 03.60 -1.6
FRU 63.63 309 iPd 46 06.50 0.9
iS 54 42.00
LHS 63.64 67 eP 46 03.50 -2.1
QCP 63.83 255 eP 46 09.00 2.0
OBN 63.92 340 iPd 46 05.50 -1.7
1.8s 948.00nm 6.6mb
Z 20s 68.00um 6.8Msz
iS 54 40.00
KMI 64.72 277 ePd 46 12.60 -0.5
2.5s 1200.00nm 6.6mb
Z 20s 26.60um 6.4Msz
N 18s 18.20um
E 20s 15.70um
ed 46 16.24
epPc 46 19.22 21kmX
eS 54 56.71
MRX 65.20 93 eP 46 16.70 0.8
EDU 65.22 5 eP 46 14.10 -1.5
1.6s 476.00nm 6.4mb
ELO 65.26 5 eP 46 15.10 -0.8
MUD 65.40 357 iPc 46 16.90 0.2
1.0s 64.00nm 5.7mb
EAB 65.51 5 ePc 46 17.20 -0.3
EDI 65.83 5 ePc 46 20.40 0.9
KSH 65.89 306 iPd 46 21.50 1.2
E 15s 97.80um
PP 48 51.00
iS 55 11.00
EAU 65.90 5 ePc 46 20.00 0.1
1.6s 760.00nm 6.6mb
QIZ 65.99 267 P 46 21.00 0.0
1.2s 300.00nm 6.3mb
E 15s 30.80um
PP 48 49.00
S 55 12.00
ScS 56 11.50
COP 66.07 355 iPc 46 21.30 0.4
0.9s 218.49nm 6.3mb
CRX 66.24 91 iP 46 23.00 0.0
EKA 66.42 5 Pd 46 22.90 -0.4
1.9s 683.00nm 6.5mb
ESK 66.44 5 ePc 46 23.00 -0.4
1.5s 400.00nm 6.3mb
BSD 66.51 354 iPd 46 27.70 3.9X

21d 02h

1.0s 114.00nm 6.0mb
LSA 66.92 289 Pd 46 27.40 0.0
E 19s 24.90um
PP 48 58.50
S 55 12.00
SS 59 34.00
PPM 67.07 91 eP 46 28.20 -0.4
III 67.20 92 iP 46 27.50 -1.5
IIT 67.28 91 (P) 46 29.50 -0.1
RAB 67.58 215 eP 46 32.00 0.9
iS 55 34.00
IISM 67.80 90 iP 46 33.00 0.6
ACX 68.25 93 (P) 46 23.30 -12.0X
ETA 68.89 7 iPc 46 40.10 1.3
0.9s 230.00nm 6.3mb
WIT 69.11 359 eP 46 40.50 0.5
BRL 69.23 354 eP 46 41.50 0.7
BRN 69.29 354 eP 46 42.00 0.8
VAL 69.33 10 eP 46 44.00 2.5X
S 55 54.00
ECP 69.39 7 iPc 46 43.30 1.5
0.9s 220.00nm 6.3mb
DSH 69.60 311 iPd 46 43.00 -0.5
iS 56 00.00
OXX 69.72 90 iP 46 46.00 1.4
DBN 69.83 360 eP 46 46.00 1.5
Z 20s 26.40um 6.5Msz
ePP 49 48.00
eS 55 58.00
eSS 00 06.00
eSSS 04 00.00
WTS 69.92 359 eP 46 44.50 -0.5
1.0s 103.00nm 5.9mb
SHL 69.95 286 iP 46 44.00 -1.9
iS 55 56.00
CLL 70.41 354 iP 46 47.20 -0.8
2.3s 900.00nm 6.5mb
Z 18s 23.50um 6.5Msz
eS 56 03.00
P'P' 14 45.00
HNR 70.52 206 eP 46 50.00 0.9
eS 56 06.00
KSP 70.67 352 iPd 46 49.20 -0.5
1.5s 265.00nm 6.1mb
i 46 53.20
i 49 20.50
eS 56 02.50
BRG 70.79 354 eP 46 48.00 -2.4
Z 22s 24.00um 6.4Msz
N 22s 22.00um
E 22s 17.00um
i 49 40.00
iS 56 04.00
e 01 00.00
BNS 70.95 358 ePd 46 51.10 -0.2
Z 20s 46.00um 6.7Msz
e 56 13.80
i 09 33.00
MOX 71.14 355 iP 46 52.50 0.0
2.3s 1030.00nm 6.5mb
Z 19s 27.50um 6.5Msz
N 19s 31.30um
E 19s 18.10um
UCC 71.14 0 P- 46 52.00 -0.4
e 49 15.00
S 56 06.00
e 04 34.00
KRA 71.15 350 eP 46 51.70 -0.8
1.2s 251.00nm 6.2mb
Z 24s 63.40um 6.8MszX
E 20s 42.60um
i 46 55.60
i 47 01.10
eS 56 09.00
ENN 71.16 359 iPd 46 51.90 -0.7
1.1s 169.00nm 6.1mb
MEM 71.32 359 iPd 46 53.10 -0.4
STB 71.32 358 ePd 46 53.50 -0.1
2.2s 264.00nm 6.0mb
SNF 71.42 0 P 46 53.80 -0.4
HOF 71.46 355 eP 46 54.50 0.0
Z 18s 30.00um 6.6Msz
PRU 71.64 353 Pd 46 55.00 -0.5
2.2s 582.50nm 6.3mb
Z 12s 3.40um 5.8MszX
N 16s 9.40um
E 14s 12.20um

e 46 57.20
e 48 05.20
S 56 16.00
SS 00 58.00
TNS 71.67 357 ePd 46 55.30 -0.5
OOU 71.84 360 Pc 46 56.70 0.0
Z 18s 27.50um 6.6Msz
ed 47 00.80
e 51 41.00
S 56 04.00
e 56 15.00
CHG 71.89 276 iPd- 46 57.00 -0.5
1.0s 260.00nm 6.2mb
Z 21s 6.99um 5.9Msz
N 20s 16.13um
E 20s 11.44um
eS 56 10.00
CHTO 71.89 276 ePd 46 56.63 -0.9
ed 47 00.27
epPc 47 03.25 21kmX
esPc 47 05.23
ePP 49 36.69
eHPP 49 37.51
SPC 71.97 349 iP 46 58.70 0.9
i 51 30.60
ABH 72.03 358 eP 46 57.46 -0.4
GRF 72.11 355 iPd 46 48.80 -9.5X
Z 22s 30.00um 6.5Msz
e 47 02.00
e 47 07.50
iS 56 28.50
AFI 72.14 176 eP 47 00.00 1.1
e(S) 56 24.00
UZH 72.31 348 iP 47 07.00 7.5X
KHC 72.55 354 iPd 47 01.50 0.5
1.3s 150.00nm 5.9mb
Z 19s 36.00um 6.7Msz
N 19s 27.50um
E 19s 18.00um
S 56 29.00
WET 72.57 354 iPd 47 01.40 0.3
Z 17s 19.00um 6.4MszX
eS 56 30.00
GWF 72.93 358 P 47 02.59 -0.6
FLN 73.09 3 eP 47 02.80 -1.3
1.9s 634.10nm 6.3mb
Z 21s 62.50um 6.9Msz
STU 73.10 357 eP- 47 04.00 -0.1
2.0s 588.24nm 6.3mb
Z 20s 17.73um 6.3Msz
BMR 73.12 347 iPc 47 06.00 1.7
BDT 73.17 276 eP 47 02.70 -2.3
1.2s 341.20nm 6.3mb
CEI 73.23 347 eP 47 11.00 6.1X
VKA 73.23 352 eP 47 05.00 0.1
4.5s 3358.00nm 6.7mb X
Z 21s 17.20um 6.3Msz
ic 47 06.80
LR 24 33.00
ZST 73.24 351 iP 47 05.50 0.5
Z 17s 65.00um 7.0MszX
e 52 07.80
PSZ 73.27 349 iP 47 05.60 0.4
LDF 73.27 3 eP 47 03.80 -1.4
1.9s 523.40nm 6.3mb
STR 73.32 358 P 47 05.09 -0.3
GRR 73.46 4 eP 47 05.20 -1.0
2.0s 676.40nm 6.3mb
WLS 73.50 358 P 47 05.82 -0.7
CDF 73.50 358 eP 47 05.80 -0.8
1.5s 198.50nm 5.9mb
SRO 73.52 350 eP 47 06.30 -0.3
KMR 73.59 353 iP- 47 08.20 1.2
i 47 09.70
KKM 73.61 254 iPc 47 08.00 0.3
1.1s 604.70nm 6.5mb
FUR 73.63 355 iPd 47 07.30 0.0
2.0s 1000.00nm 6.5mb
Z 21s 27.00um 6.5Msz
ECH 73.70 358 P 47 06.92 -0.8
CLI 73.71 344 eP 47 07.50 -0.3
VITF 73.71 359 P 47 06.66 -1.0
BUD 73.78 350 iP 47 08.60 0.5
TPX 73.88 88 (P) 47 17.00 7.9X
NST 73.88 274 iPd 47 10.00 0.9
HAU 73.92 359 eP 47 08.10 -0.9
1.1s 102.55nm 5.8mb

Z 20s 72.50um 7.0Msz
BHG 73.99 354 iPc 47 09.90 0.5
2.3s 828.00nm 6.4mb
FEL 74.02 358 P 47 09.37 -0.3
MOF 74.07 358 P 47 09.39 -0.5
PMG 74.08 219 eP 47 10.00 -0.2
BSF 74.09 358 eP 47 08.90 -1.2
1.9s 463.00nm 6.2mb
SIM 74.11 339 iPc 47 14.00 3.9X
eS 56 44.00
SLE 74.12 357 ePc 47 10.00 -0.1
ZLA 74.41 357 ePc 47 11.90 0.1
NDI 74.44 299 iPd 47 12.00 -0.2
0.9s 96.64nm 5.8mb
eS 56 46.00
eSS 01 28.00
eSSS 04 54.00
BBS 74.45 358 P 47 11.58 -0.5
VRI 74.46 344 ePd 47 13.50 1.4
TIH 74.46 351 iP 47 12.30 0.2
WTTA 74.51 355 iPd 47 12.80 0.2
1.6s 571.00nm 6.4mb
i 47 16.40
LOMF 74.57 358 P 47 12.15 -0.7
CVO 74.58 344 iPc 47 14.00 1.1
KBA 74.61 354 iPd 47 13.80 0.6
1.5s 508.00nm 6.3mb
i 47 17.60
ipP 47 26.20 42kmX
SAX 74.61 357 ePc 47 13.50 0.2
LOR 74.67 0 eP 47 12.40 -0.9
1.9s 629.10nm 6.3mb
Z 19s 65.00um 6.9Msz
UZD 74.70 350 iP 47 14.50 1.0
SSF 74.87 1 eP 47 13.80 -0.7
OGA 74.93 355 iPc 47 15.80 0.7
MLR 74.94 345 eP 47 15.50 0.4
LBF 74.95 0 eP 47 13.90 -1.1
1.9s 342.20nm 6.1mb
LLS 75.01 357 ePc 47 15.80 0.3
TNR 75.01 346 ePc 47 16.00 0.7
FVI 75.12 354 P 47 15.70 -0.2
AVF 75.14 1 eP 47 15.10 -0.9
OSS 75.15 356 ePc 47 16.70 0.4
MFF 75.26 3 eP 47 16.10 -0.6
CMP 75.28 345 iPd 47 19.00 2.1
TIM 75.29 348 iPc 47 17.00 0.2
SMF 75.29 1 eP 47 15.80 -1.1
BZS 75.36 348 eP 47 21.50 4.2X
BGF 75.37 1 eP 47 16.50 -0.8
VDL 75.37 356 ePc 47 18.30 0.7
KHT 75.43 274 iPd 47 18.70 0.6
PTJ 75.61 352 iPd 47 18.50 -0.3
TCF 75.63 2 eP 47 18.10 -0.8
LSF 75.66 2 eP 47 18.20 -0.8
ZAG 75.69 352 ePd 47 19.20 0.1
MAF 75.70 1 eP 47 18.60 -0.6
CTI 75.72 355 P 47 19.10 -0.4
VVI 75.75 354 P 47 19.90 0.4
DIX 75.83 358 ePc 47 21.10 0.8
MMK 75.85 358 ePc 47 21.20 0.8
EMS 75.85 358 ePc 47 20.60 0.3
TRI 75.95 353 ePd 47 18.60 -2.0
e 57 07.00
PLDF 75.97 1 P 47 20.55 -0.3
BUC 75.97 344 iPc 47 14.00 -6.7X
VAI 76.01 357 P 47 21.00 0.1
MDI 76.07 356 P 47 20.80 -0.5
PYM 76.18 1 P 47 21.52 -0.5
SAL 76.21 356 P 47 23.20 1.1
ORX 76.27 358 P 47 22.49 -0.1
BEO 76.27 348 eP 47 22.50 0.1
RIY 76.27 353 eP 47 21.80 -0.6
ORO 76.27 358 P 47 23.10 0.5
PSN 76.38 343 iPd 47 24.00 1.0
LPL 76.41 358 eP 47 23.80 0.3
1.8s 250.30nm 6.0mb
LSD 76.46 358 P 47 24.44 0.6
PMO 76.58 153 iP 47 25.10 0.7
1.0s 60.00nm 5.6mb
RJF 76.60 2 eP 47 23.40 -0.9
1.7s 264.70nm 6.0mb
TPT 76.63 152 iP 47 25.40 0.7
1.0s 70.00nm 5.7mb
BLY 76.66 351 eP 47 31.10 6.5X
SSB 76.66 0 P 47 24.61 -0.1
NNT 76.67 272 iPc 47 26.50 1.4

LBL	76.70	1	P	47 24.60	-0.2
RSP	76.76	358	P	47 25.97	0.6
BNI	76.87	358	P	47 27.60	1.6
VAH	76.88	152	iP	47 26.60	0.6
	1.0s		75.00nm		5.7mb
RUV	76.89	152	iP	47 26.90	0.8
	1.0s		100.00nm		5.8mb
LFF	76.95	3	eP	47 25.80	-0.4
CAF	76.99	2	eP	47 26.10	-0.4
RRL	77.00	358	P	47 28.13	1.3
BHB	77.07	358	P	47 26.38	-0.6
BOB	77.09	356	P	47 28.10	1.0
LPO	77.22	2	eP	47 27.20	-0.5
	1.7s		433.80nm		6.2mb
PVL	77.26	345	iPd	47 27.00	-0.9
PCP	77.34	357	P	47 27.82	-0.7
FOUF	77.39	358	ePd	47 30.15	1.5
PZZ	77.41	358	P	47 29.77	0.8
KVT	77.44	336	eP	47 29.90	0.9
CKI	77.47	357	P	47 30.00	0.9
ROB	77.61	358	P	47 29.66	-0.3
MME	77.62	355	P	47 32.20	2.0
STV	77.67	358	P	47 29.77	-0.5
ENR	77.68	358	P	47 29.15	-1.2
FIN	77.68	357	P	47 29.25	-1.1
TAB	77.73	327	eP	47 32.00	1.2
BDI	77.75	356	P	47 31.80	1.0
RSM	77.80	354	P	47 32.20	1.3
JMB	77.81	344	eP	47 30.00	-1.0
SFI	77.84	355	P	47 32.50	1.4
PLE	77.86	349	iPd	47 32.01	0.6
PGD	77.89	355	P	47 33.10	1.5
TOUF	77.90	358	P	47 32.75	1.0
AUTN	77.92	358	P	47 32.60	0.8
SAOF	77.92	358	P	47 31.99	0.4
IMI	77.99	358	P	47 31.31	-0.7
FIR	78.01	355	eP	47 32.50	0.5
			iS	57 33.00	
MVIF	78.02	358	P	47 32.97	0.7
EMON	78.02	9	eP	47 32.00	-0.2
AURF	78.03	358	P	47 32.94	0.7
SBF	78.05	358	eP	47 31.90	-0.5
	1.8s		569.70nm		6.3mb
CRE	78.12	355	P	47 33.70	0.9
VTS	78.15	346	iP	47 32.00	-1.1
REVF	78.17	358	P	47 33.57	0.5
ARV	78.20	354	P	47 34.00	0.8
CDR	78.26	359	ePd	47 34.50	1.1
			e	47 37.10	
			e	48 21.50	
DMK	78.26	342	eP	47 33.60	0.1
IVA	78.26	349	iPc	47 33.74	0.2
HVAR	78.28	351	iPc	47 33.10	-0.4
FRF	78.36	358	eP	47 33.80	-0.2
	1.5s		198.50nm		5.9mb
BRY	78.37	350	iPd	47 33.52	-0.7
DIM	78.37	344	iP	47 34.00	-0.1
NKY	78.41	349	iPc	47 33.74	-0.7
PLD	78.43	345	iPd	47 34.00	-0.4
STS	78.46	10	eP	47 36.50	1.9
LRG	78.47	359	eP	47 34.60	0.0
	1.7s		411.70nm		6.2mb
Z	19s		35.00um		6.7Msz
PVY	78.53	348	iPd	47 36.56	1.5
LMR	78.59	359	eP	47 35.10	-0.2
	1.7s		367.60nm		6.1mb
AFR	78.59	155	iP	47 36.30	0.8
	1.0s		130.00nm		5.9mb
ASS	78.64	354	P	47 36.60	1.0
PPN	78.66	155	iP	47 36.80	0.9
	1.0s		80.00nm		5.7mb
BTH	78.74	4	(P)	47 50.00	13.9X
			(PP)	51 27.00	
			(PPP)	53 26.00	
			S	57 34.00	
ITU	78.75	341	iPd	47 36.00	-0.2
TTG	78.76	349	iPc	47 35.79	-0.4
			eS	57 33.00	
KDZ	78.78	344	iP	47 35.00	-1.4
ISK	78.78	341	eP	47 37.00	0.7
HCY	78.82	350	iPc	47 35.69	-0.9
RZN	78.84	345	iPd	47 36.00	-0.9
EPF	78.85	3	eP	47 35.80	-1.0
	1.7s		158.05nm		5.8mb
HRT	78.92	341	eP	47 34.00	-3.2X
MLS	78.94	3	P	47 35.15	-2.1
TVO	78.95	155	iP	47 38.70	1.2
	1.0s		135.00nm		5.9mb
BDV	78.95	349	iPd	47 36.34	-0.9
SKO	78.98	347	iP	47 37.40	0.0
	1.0s		230.00nm		6.2mb
Z	20s		37.13um		6.7Msz
N	20s		48.15um		
E	18s		16.69um		
			i	47 40.00	
			iPcP	47 46.40	
			iPP	50 44.80	
			i	53 54.00	
			iS	57 36.00	
			iPS	58 17.00	
GBZT	78.99	341	eP	47 37.00	-0.5
MMB	79.07	345	iPd	47 38.00	0.0
ERUA	79.07	9	eP	47 38.60	0.6
ECRI	79.16	5	eP	47 39.50	1.0
EZAM	79.18	10	eP	47 39.00	0.5
ULC	79.23	349	iPc	47 39.59	0.8
RDO	79.26	344	eP	47 39.00	0.1
BBTK	79.30	338	eP	47 41.50	2.2
PGF	79.32	357	P	47 40.05	0.6
GPA	79.32	340	iP	47 41.70	2.3
MNS	79.33	354	P	47 38.90	-0.4
VAY	79.49	346	iP	47 39.60	-0.6
	1.4s		204.00nm		6.0mb
YHJ	79.53	73	ePc	47 45.71	4.9X
BNT	79.66	342	iP	47 41.30	0.1
AZI	79.68	353	P	47 42.20	1.1
EDC	79.68	342	iP	47 41.00	-0.3
RMP	79.90	354	P	47 43.80	1.4
OHR	79.90	348	iP	47 41.20	-1.3
	1.8s		763.00nm		6.4mb
			i	47 44.60	
			i	47 51.20	
SDI	79.93	353	P	47 42.40	-0.2
DUI	79.93	352	P	47 43.60	0.9
PTO	80.19	10	eP	47 45.50	1.6
			eS	57 49.00	
DST	80.28	341	iP	47 44.90	0.4
RFI	80.33	353	P	47 45.90	1.3
EZN	80.43	343	eP	47 45.40	0.2
BRT	80.50	350	P	47 46.90	1.3
ALT	80.56	340	iP	47 46.60	0.5
KZN	80.58	347	eP	47 45.00	-1.2
SNG	80.75	269	eP	47 47.70	0.4
	1.5s		1000.00nm		6.6mb
			eS	57 48.00	
PDA	80.91	24	eP	47 54.00	6.2X
ETOR	80.96	5	eP	47 48.50	0.3
LCI	80.97	350	P	47 48.90	0.9
KER	80.97	325	ePc	47 49.00	0.7
SGO	80.97	352	P	47 50.20	2.2
PRK	81.01	343	eP	47 43.50	-4.8X
GUD	81.03	7	eP	47 48.60	0.0
EBR	81.06	3	iP	47 48.00	-0.5
			iS	57 58.00	
MGR	81.37	351	P	47 49.80	-0.4
ORI	81.37	351	P	47 51.10	0.9
KHL	81.37	340	iP	47 50.60	0.2
KEK	81.40	348	eP	47 50.00	-0.3
EPLA	81.47	8	eP	47 51.00	0.2
DZM	81.59	197	iPc	47 52.10	0.6
TDS	81.78	351	P	47 53.80	1.5
TOL	81.79	7	ePd	47 53.02	0.6
			ed	47 56.66	
			epPc	47 59.15	19kmX
			esPc	48 01.46	
			ePP	50 53.00	
			eS	58 11.55	
			esS	58 24.30	
			iPS	59 00.00	
			eSS	02 53.00	
EVR	81.95	346	eP	47 55.00	1.6
BCK	82.02	339	iP	47 53.30	-0.4
ECHE	82.24	4	eP	47 55.80	1.0
SMG	82.43	342	eP	47 58.50	2.8X
GRI	82.61	351	P	47 56.41	-0.3
	1.5s		486.60nm		6.4mb
IPM	82.73	267	ePd	47 51.80	-5.8X
	1.4s		738.00nm		6.6mb
			e	48 26.40	
IPM	82.73	267	eP	48 02.00	4.4X
YER	82.75	341	iP	47 59.10	1.6
VLS	82.82	347	eP	47 56.80	-1.0
EVIA	83.12	6	eP	48 00.50	1.1
HYB	83.42	293	iPd	48 00.40	-0.8
	1.0s		620.00nm		6.7mb
			e	48 50.00	
			eS	58 23.00	
EBAN	83.52	7	eP	48 02.70	1.3
ITM	83.65	346	eP	48 00.50	-1.6
FAM	83.72	336	eP	48 04.00	1.6
EHOR	83.76	8	eP	48 04.80	2.2
EVAL	83.88	9	eP	48 04.40	1.2
CSS	83.90	337	eP	48 04.00	0.7
EALH	83.95	5	eP	48 05.20	1.7
VLI	83.97	345	eP	47 59.50	-4.2X
MGP	84.06	65	eP	48 05.00	0.7
PPCY	84.17	337	eP	48 04.50	-0.2
PORP	84.23	65	eP	48 06.00	0.8
CTA	84.39	216	iPd-	48 05.70	-0.1
	1.6s		1040.00nm		6.8mb
			iSKS	58 32.00	
BHL	84.41	334	Pd	48 06.00	0.0
			SKKS	58 34.00	
ECOG	84.41	6	eP	48 07.30	1.3
AFC	84.44	6	eP	48 06.90	0.7
DVD	84.45	83	(P)	48 12.20	5.9X
KAP	84.48	342	eP	48 05.20	-1.0
CPD	84.59	64	eP	48 08.00	1.0
EPRU	84.61	8	eP	48 08.30	1.4
GIBL	84.70	8	eP	48 10.00	2.7
POO	84.71	297	iP	48 06.00	-1.7
			iS	58 37.00	
ENIJ	84.79	5	eP	48 11.20	3.4X
BOM	84.88	298	iPc	48 08.50	0.1
			iS	58 35.00	
MAL	84.91	7	iPc	48 09.80	1.5
			iS	59 40.00	
NPS	85.01	343	eP	48 08.50	-0.4
VAM	85.08	344	eP	48 09.20	-0.1
EJIF	85.11	8	eP	48 10.60	1.2
CNIL	85.14	9	eP	48 10.00	0.5
PLAT	85.41	8	eP	48 10.00	-1.0
UPA	85.51	80	ePc-	48 15.20	3.6X
Z	20s		22.34um		6.6Msz
			pP	51 09.50	
SHMJ	85.51	334	P	48 14.30	2.8X
BURJ	85.97	334	P	48 19.90	6.0X
KFNJ	86.36	334	P	48 18.30	2.7X
MKRJ	86.67	334	P	48 19.30	2.0
OIS	87.01	222	iPd	48 17.30	-1.5
	1.0s		199.00nm		6.3mb
GBA	87.24	292	P	48 19.70	-0.4
IFR	88.05	8	iP	48 25.00	0.9
			i	48 27.50	
AVE	88.08	10	iP	48 25.00	1.0
			i	49 15.50	
PAG	88.31	62	eP	48 24.00	-1.4
WB2	88.37	226	iPd	48 24.70	-0.6
WRA	88.37	226	P	48 37.00	11.7X
	1.5s		64.50nm		
KOT	89.07	337	eP	48 29.50	0.8
HLW	89.24	337	eP-	48 30.50	0.9
			e	48 54.00	
			eS	59 24.00	
BRS	89.51	208	iPd+	48 31.50	0.9
			iS	59 04.00	
RMQ	89.70	212	iPc	48 31.40	-0.1
BADA	89.72	334	eP	48 33.00	1.2
RYD	90.09	322	ePc	48 34.50	0.8
KOD	90.12	290	eP	48 34.30	0.1
SDV	90.14	73	eP	48 35.00	0.8
TIO	90.44	10	iP	48 36.50	1.1
			i	49 10.60	
SVV	90.89	63	eP	48 36.74	-0.7
SVB	90.92	63	eP	48 35.64	-1.9
QLP	91.10	215	iPc	48 37.50	-0.4
AFIF	91.74	325	eP	48 44.70	3.4X
ASPA	91.92	225	iPd	48 41.40	-0.4
	0.9s		169.10nm		6.4mb
COO	92.77	208	iPc	48 46.00	0.4
KMSA	94.83	323	eP	48 56.00	0.4
CMS	95.24	212	e(P)	48 56.00	-0.8
RIV	96.06	207	ePd	49 04.80	4.3X
Z	20s		11.63um		6.4Msz
			e	52 52.00	
WEL	99.68	187	eP	49 20.00	3.3X
			PP	53 20.00	
			eS	00 38.00	
			PS	02 18.00	
MBO	105.33	22	ePKP	54 12.30	15.8X
TAU	105.61	207	ePdiff	49 31.00	-12.3X

21d 02h

		e	53	38.00		
AAE	107.29	324	ePdiff	49	52.00	0.2
ZOBO	112.78	84	Pdiff	50	23.00	6.5X
		LR	28	00.00		
LPB	113.02	84	PKP	54	09.00	-2.6X
Z	23s	39.39um			6.9MszX	
		SKS	04	34.00		
		e	23	40.00		
		LR	30	20.00		
CNCB	113.31	84	ePKP	54	12.00	-0.4
CCH	114.75	83	ePKP	54	25.00	10.1X
LIC	115.10	11	PKP	54	12.40	-2.9X
Z	20s	14.40um			6.6Msz	
SIV	116.21	78	ePKP	54	11.00	-6.3X
BCAO	116.34	344	iPKPc	54	17.90	0.2
	1.0s	15.00nm				
		id	55	18.10		
		ic	56	16.90		
NAI	117.62	323	ePKP	54	23.00	2.7X
SOB1	119.98	54	ePKP	54	28.00	3.5X
LWI	120.82	331	iPKPd	54	21.10	-5.3X
BAO	122.42	65	ePKP	54	28.90	-0.3
PDCR	123.71	54	ePKP	54	30.10	-1.5
PPD	126.24	72	ePKP	54	34.20	-2.2
TCA	126.90	91	ePKPd	54	37.00	-0.5
VAO	129.20	69	ePKP	54	41.70	-0.4
JFO	129.88	64	ePKP	54	43.50	0.1
BMA	130.31	65	ePKP	54	43.20	-1.0
		e		54	48.30	
PTZ	131.56	324	iPKP	54	43.80	-3.0X
		e		54	47.00	
		i		55	49.40	
		iPP		57	07.70	
		i		58	37.20	
KMZ	132.35	331	iPKP	54	50.00	1.7
		iPP		57	14.70	
LPA	133.18	88	ePKP-	54	52.00	2.8X
Z	20s	12.06um			6.6Msz	
		ePKS	58	19.00		
		ePP	58	44.00		
LSZ	133.46	328	ePKP	54	50.00	-0.4
		i		54	59.40	
		iPP		57	21.00	
BUL	137.95	325	ePKP	54	50.30	-8.6X
		iPP		57	42.40	
BFT	142.67	320	ePKP	54	56.00	-11.3X
	1.0s	10.00nm				
WIN	143.05	340	ePKP	55	04.00	-4.0X
	0.9s	111.00nm				
Z	20s	69.30um			7.4Msz	
SLR	143.29	323	iPKPc	55	04.50	-3.7X
	2.0s	1280.00nm				
Z	20s	29.30um			7.0Msz	
KSR	143.84	325	iPKPd	55	04.00	-5.2X
	1.5s	120.00nm				
PRY	144.66	323	iPKPd	55	16.00	5.4X
	1.5s	36.00nm				
SEK	145.90	322	iPKPd	55	12.00	-0.6
	1.2s	56.00nm				
BLF	147.09	324	iPKPd	55	15.50	1.0
	1.0s	34.00nm				
SPA	148.25	180	iPKPc	55	17.00	1.8
	1.0s	132.00nm				
Z	20s	11.22um			6.7Msz	
		i	01	51.60		
SPA	148.25	180	iPKPc	55	20.00	4.8X
AIA	148.36	132	ePKP	55	19.20	4.0X
HVD	148.70	324	iPKPc	55	18.00	0.9
	2.3s	1290.00nm				
POF	149.07	333	iPKPc	55	20.00	2.6X
	1.0s	59.00nm				
CRZF	149.42	272	iPKPd	55	24.00	6.6X
		ePP	58	51.00		
		eS	18	30.00		
		eSS	24	24.00		
CER	153.04	332	ePKP	55	35.00	11.8X
	2.0s	3140.00nm				
BLE	153.71	333	iPKPc	55	27.50	3.4X
	1.0s	90.00nm				
S.D. = 1.0 on 472 of 545 obs.						

? FEB 21, 1991 03h 40m 44.31± 1.66s
58.433 N ±14.5km 175.691 W ±28.0km
DEPTH = 20.0km (geophysicist)
3.6mb (1 obs.)
BERING SEA (3)

ADK	6.59	185	e(P)	42	22.00	-0.5
IMA	12.73	44	e(P)	43	46.70	-0.2
FBA	14.64	52	e(P)	44	12.50	0.6
TOA	15.02	63	e(P)	44	16.20	-0.8
INK	20.86	44	eP	45	26.00	-0.9
MBC	26.42	27	eP	46	22.00	1.2
YKA	29.39	56	eP	46	46.20	-1.6
	1.0s	1.20nm			3.6mb	
SES	37.10	74	eP	47	55.00	0.3
KVN	41.14	92	eP	48	31.00	2.4X
TNP	42.32	92	e(P)	48	40.00	1.7
MSU	44.65	88	eP	48	57.50	0.2
S.D. = 1.1 on 10 of 11 obs.						

? FEB 21, 1991 04h 02m 46.07± 2.52s
19.288 N ±20.9km 64.556 W ±34.1km
DEPTH = 33.0km (normal)
3.7mb (1 obs.)
VIRGIN ISLANDS (91)

LPR	1.58	232	iP	03	12.00	-0.2
CPD	1.79	226	iP	03	15.20	0.0
SJG	1.91	232	iP	03	16.90	-0.1
PORP	2.32	238	iP	03	23.00	0.2
MCP	2.57	251	iP	03	26.10	-0.2
MGP	2.72	242	iP	03	28.60	0.2
YKA	55.08	334	eP	12	16.90	0.0
	0.5s	0.40nm			3.7mb	
S.D. = 0.2 on 7 of 7 obs.						

* FEB 21, 1991 04h 18m 44.49± 0.98s
58.201 N ±11.2km 175.065 W ±13.5km
DEPTH = 20.0km (geophysicist)
4.1mb (2 obs.)
BERING SEA (3)

ADK	6.40	189	e(P)	20	18.90	-1.1
			eTT	26	41.00	
ANM	7.89	32	eP	20	39.50	-1.4
SDN	8.50	103	eP	20	50.20	0.9
SVW	10.25	65	eP	21	11.00	-2.5X
TTA	10.49	55	e(P)	21	15.00	-1.8
PDB	10.88	73	e(P)	21	20.00	-2.0
IMA	12.67	43	eP	21	52.00	5.7X
PMR	13.41	64	e(P)	22	03.30	7.4X
FBA	14.53	51	e(P)	22	12.00	1.4
TOA	14.84	63	e(P)	22	15.50	0.8
KLU	14.94	65	eP	22	23.00	6.9X
INK	20.80	44	ePc	23	25.20	-1.3
	0.9s	36.00nm			4.8mb	
MBC	26.48	26	eP	24	23.00	1.4
YKA	29.25	56	eP	24	46.60	-0.1
	0.8s	0.60nm			3.4mb	
SES	36.85	74	eP	25	54.00	1.2
KVN	40.80	92	e(P)	26	31.30	5.3X
BONR	41.50	94	eP	26	37.50	5.6X
TNP	41.98	93	e(P)	26	41.00	5.3X
MSU	44.33	88	eP	27	00.00	5.1X
RSSD	44.56	76	eP	26	58.00	1.3
FRB	46.15	36	eP	27	09.00	0.4
GBA	87.51	292	P	31	32.00	0.1
S.D. = 1.4 on 14 of 22 obs.						

& FEB 21, 1991 04h 27m 10.00s
58.400 N 175.400 W
DEPTH = 20.0km (geophysicist)
3.9mb (2 obs.)
BERING SEA (3)
<SPEC>. Held to mainshock location.

IMA	12.65	44	eP	30	13.00	1.5
FBA	14.54	52	eP	30	45.20	8.9X
TOA	14.90	63	eP	30	49.00	7.9
INK	20.78	44	eP	31	51.00	-0.8
MBC	26.38	27	eP	32	47.50	1.4
	1.0s	7.00nm			4.3mb	
YKA	29.28	56	eP	33	12.30	-0.2
	0.8s	0.80nm			3.5mb	
FRB	46.09	36	eP	35	34.00	0.3
7 obs. ossociated						

? FEB 21, 1991 04h 29m 56.47± 1.20s
46.491 N ±12.3km 2.950 E ±12.2km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 3.0 (LDG).

BGF	0.10	313	Pg	29	59.20	0.0
			Sg	30	01.00	
MAF	0.38	225	Pg	30	04.30	0.1
			Sg	30	09.00	
AVF	0.41	43	Pg	30	04.80	0.0
			Sg	30	10.20	
TCF	0.55	249	Pg	30	07.60	-0.1
			Sg	30	14.20	
S.D. = 0.1 on 4 of 4 obs.						

FEB 21, 1991 04h 34m 40.71± 0.81s
37.945 N ± 6.7km 26.779 E ± 8.9km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)
MD 3.5 (ATH), 3.2 (ISK).

SMG	0.24	169	iPgc	34	44.70	-1.1
IZM	0.59	40	iPg	34	52.30	-0.4
			eSg	35	00.30	
CIN	1.09	108	ePg	35	02.00	0.8
			iSg	36	16.00	
APE	1.32	229	ePb	35	05.40	0.2
			eSb	35	23.00	
PRK	1.36	343	ePb	35	07.00	1.4
			eSb	35	27.20	
YER	1.44	124	ePn	35	07.60	0.7
EZN	1.91	349	ePn	35	17.00	3.4X
KHL	2.20	79	ePn	35	08.50	-9.3X
DST	2.20	41	ePn	35	10.40	-7.4X
KGT	2.54	9	ePn	35	21.00	-1.5
S.D. = 1.3 on 7 of 10 obs.						

% FEB 21, 1991 05h 13m 18.63± 2.24s
16.395 N ±22.9km 98.470 W ±10.2km
DEPTH = 33.0km (normal)
NEAR COAST OF GUERRERO, MEXICO (58)

ACX	1.41	290	(P)	13	42.50	0.2
OXX	1.81	68	iP	13	48.10	-0.1
			iS	14	00.30	
III	2.19	334	iP	13	52.50	-1.1
IIT	2.62	3	(P)	14	05.00	5.3X
PPM	2.66	357	iP	14	01.80	1.2
			(S)	14	34.50	
IISM	2.78	22	iP	14	01.50	-0.3
			iS	14	38.50	
MRX	4.19	322	(P)	14	41.00	19.2X
S.D. = 1.2 on 5 of 7 obs.						

& FEB 21, 1991 05h 27m 54.00s
58.400 N 175.400 W
DEPTH = 20.0km (geophysicist)
3.5mb (1 obs.)
BERING SEA (3)
<SPEC>. Held to mainshock location.

ADK	6.57	187	eP	29	28.00	-3.9
SDN	8.72	104	eP	30	02.20	0.4
SVW	10.33	66	eP	30	25.00	0.9
IMA	12.65	44	eP	31	03.70	8.2
FBA	14.54	52	eP	31	29.50	9.2
INK	20.78	44	eP	32	36.00	0.2
YKA	29.28	56	eP	34	00.90	4.4
	0.7s	0.60nm			3.5mb	
KVN	40.98	92	eP	35	41.50	4.5
BONR	41.69	94	eP	35	46.50	3.6
TNP	42.16	93	e(P)	35	51.00	4.3
MSU	44.50	88	e(P)	36	07.00	1.3
11 obs. ossociated						

* FEB 21, 1991 06h 05m 10.56± 0.65s
36.805 N ±10.1km 71.672 E ± 9.4km
DEPTH = 33.0km (normal)
4.2mb (3 obs.)
AFGHANISTAN-USSR BORDER REGION (717)

QUE	7.69	212	eP	07	02.50	-0.7
			eS	08	19.00	
NDI	9.35	148	eP	07	28.00	2.0
GKN	14.02	125	P	08	28.98	-0.2
KKN	14.59	124	P	08	36.08	-0.6
DMN	14.59	125	P	08	36.54	-0.2
PKI	14.82	124	P	08	39.34	-0.5
GUN	14.91	122	P	08	40.80	-0.2
HFS	43.16	322	eP	13	10.00	0.6
	0.4s	2.80nm			4.4mb	

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NB2     44.46 323 P      13 19.60  -0.4
        0.5s      2.40nm          4.3mb
YKA     80.92   3 eP     17 22.70   0.3
        0.5s      0.40nm          3.7mb
      S.D. = 0.9  on  10 of  10 obs.
-------------------------------------------
   FEB  21, 1991  06h 08m 33.47± 0.96s
    6.841 N ± 5.4km   72.975 W ± 7.1km
   DEPTH = 163.9 ± 10.6 km
   4.8mb (  5 obs.)
 NORTHERN COLOMBIA                 ( 99)

CAR      7.00  58 eP     10 14.60  -0.1
CAYA     8.37 217 P      10 33.00  -0.3
COTA     8.39 220 eP     10 35.00   1.4
VC1      9.20 216 P      10 43.30  -1.0
NNA     19.10 192 eP     12 45.50  -0.7
ZOBO    23.46 168 iP     13 30.00   0.0
        0.7s     18.10nm         4.7mb
              S          17 34.50
LPB     23.72 168 P      13 31.00  -1.3
        1.0s     40.00nm         4.9mb
              S          17 33.00
CNCB    24.01 168 Pc     13 35.20  -0.1
              S          17 38.00
CCH     25.00 164 P      13 45.70   1.5
PPD     35.70 144 eP     15 17.80  -0.2
SOB1    35.72 116 eP     15 19.00   0.6
PDCR    38.76 120 eP     15 43.40  -0.4
VAO     39.07 140 eP     15 46.20  -0.1
BMA     40.71 137 eP     16 00.90   1.2
SCH     48.10   5 eP     16 59.00   0.8
LRM     51.64 325 eP     17 26.00   0.3
FFC     53.12 339 iPd    17 35.80  -0.3
        0.4s      6.00nm          4.7mb
FRB     56.89   2 eP     18 02.00  -1.0
YKA     63.29 340 eP     18 46.00  -0.6
        0.5s      8.60nm          4.9mb
LIC     67.46  86 P      19 13.60  -0.5
KIC     67.73  86 P      19 15.30  -0.5
INK     73.06 340 ePd    19 47.20   0.3
MBC     73.81 350 eP     19 52.00   0.9
        0.5s      6.00nm          4.6mb
WB2    150.46 241 ePKP   28 08.50   6.3X
WRA    150.47 241 PKP    28 05.00   2.7X
        0.4s      6.30nm
      S.D. = 0.8  on  23 of  25 obs.
-------------------------------------------
   FEB  21, 1991  06h 36m 13.29± 0.72s
   38.347 N ± 5.5km   26.632 E ± 8.3km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                        (365)
      MD 3.2 (ISK).

IZM      0.50  84 iPg    36 24.20   0.8
               iSg    36 31.00
SMG      0.66 166 ePb    36 26.50   0.1
               eSn    36 36.20
PRK      0.94 343 ePn    36 27.50  -3.7X
CIN      1.37 123 eP     36 37.00  -1.4
EZN      1.50 351 ePn    36 40.00  -0.1
APE      1.55 215 ePn    36 41.50   0.5
DST      2.00  50 ePn    36 48.00   0.5
KGT      2.16  14 ePn    36 49.00  -0.9
EDC      2.21  25 ePn    36 51.50   0.9
BNT      2.24  26 ePn    36 50.50  -0.5
      S.D. = 0.9  on   9 of  10 obs.
-------------------------------------------
?  FEB  21, 1991  06h 49m 47.99± 5.79s
   31.272 S ±21.3km   68.414 W ±52.8km
   DEPTH =  88.5 ± 46.9 km
 SAN JUAN PROVINCE, ARGENTINA      (137)

RTLL     0.07 219 iPc    50 01.00   0.0
               eS     50 11.00
ZON      0.35 220 iPd    50 01.70  -0.1
               eS     50 13.70
RTCB     0.39 237 iPd    50 02.20   0.1
               eS     50 13.20
RTCV     0.60 190 iPc    50 03.70   0.0
RTRS     1.42 320 iPc    50 13.00   0.0
               eS     50 33.00
      S.D. = 0.1  on   5 of   5 obs.
-------------------------------------------
•  FEB  21, 1991  06h 54m 07.98± 2.18s
   37.779 S ±16.5km   71.037 W ±10.7km
   DEPTH = 112.2 ± 14.2 km
   4.8mb (  8 obs.)
 S. CHILE-ARGENTINA BORDER REGION(145)

LNV      3.83 355 iPd    55 06.50   0.6
               i      55 40.60
               iS     55 49.50
LCCH     4.32 354 iPd    55 12.20  -0.4
               i      55 53.00
               iS     55 58.50
SAN      4.33   4 eP     55 13.00   0.2
               iS     56 01.00
PEL      4.63   4 iPc    55 16.60  -0.4
               iS     56 08.00
JACH     5.10   4 iPd    55 23.10  -0.4
               iS     56 13.50
ITB7    19.10  53 Pd     58 24.20  -0.3
ITB1    19.30  52 iPd    58 26.70   0.1
ITB     19.31  53 Pd     58 26.80   0.1
CCH     20.77  13 P      58 43.50   1.4
CNCB    21.06   8 Pc     58 46.30   1.0
ARE     21.24 359 eP     58 48.00   1.2
LPB     21.32   8 P      58 46.80  -0.9
        0.9s     55.46nm         4.9mb
               (S)    02 39.00
ZOBO    21.58   8 iP     58 50.50   0.0
               S      02 41.00
PPD     23.14  53 eP     59 04.20  -0.8
               e      59 05.70
               e      59 07.00
VAO     25.36  61 ePc    59 26.30   0.1
               e      59 38.80
               e      59 48.20
BMA     27.54  65 ePc    59 45.90  -0.2
               e      59 47.20
JFO     28.75  64 eP     59 58.60   1.6
PDCR    37.97  57 eP     01 15.10  -1.4
               e      01 16.60
SOB1    39.33  51 eP     01 26.70  -1.1
LIC     75.25  70 P      05 40.12  -0.2
        0.7s     12.00nm         4.8mb
TIC     75.53  70 P      05 41.62  -0.3
        0.9s     11.50nm         4.7mb
KIC     75.55  70 Pc     05 41.88  -0.2
        0.6s     14.50nm         4.9mb
LKO     77.04  67 Pc     05 50.28  -0.1
        0.8s     24.00nm         5.1mb
ALQ     79.47 331 eP     06 02.00  -1.5
        1.0s      2.50nm         4.0mb
               e      06 35.00
BUL     85.18 112 iPc    06 34.20   1.0
               ipP    07 08.30 133kmX
TNP     86.66 325 iP     06 40.00  -0.1
        1.0s      7.75nm         4.7mb
               e      07 13.50
BCAO    92.35  86 iPd    07 08.00   0.9
        0.8s     9.00nm          5.1mb
      S.D. = 0.9  on  27 of  27 obs.
-------------------------------------------
&  FEB  21, 1991  07h 33m 58.20s
   36.840 N          121.593 W
   DEPTH =   6.0km
 CENTRAL CALIFORNIA                ( 39)
      <BRK>. ML 2.9 (BRK).

SAO      0.14 122 iP     34 00.70  -0.5
GCC      0.37 301 iPc    34 05.40  -0.4
MHC      0.50 356 iPd    34 08.80   0.5
ARN      0.51   5 iPc    34 08.50   0.0
PRS      0.54 160 iPd    34 08.40  -0.6
LLA      0.57 113 iPc    34 09.30  -0.3
PCC      0.91 317 eP     34 14.80  -1.2
PRI      1.02 133 eP     34 17.70  -0.3
BKS      1.15 334 iPc    34 18.70  -1.4
               i      34 20.30
               eS     34 37.40
BRK      1.16 333 eP     34 18.40  -1.8
               eS     34 36.50
ZSP      1.22 335 eP     34 19.80  -1.5
               iS     34 39.70
FRI      1.52  84 eP     34 24.20  -1.7
               eS     34 43.70
CMB      1.53  39 eP     34 25.50  -0.7
               eS     34 44.40
8CH      2.06 143 eP     34 31.50  -2.3
BONR     2.85  66 eP     34 48.00   2.7
KVN      3.53  50 eP     35 02.00   7.1
      16 obs. ossociated
-------------------------------------------
   FEB  21, 1991  07h 44m 20.11± 1.08s
   12.024 N ± 4.0km   60.151 W ±15.3km
   DEPTH =  43.7 ± 10.1 km
   4.3mb (  2 obs.)
 WINDWARD ISLANDS                  ( 95)
      MD 4.4 (TRN).

FCV      1.55 317 eP     44 45.65  -0.1
SVB      1.64 319 eP     44 46.71  -0.3
               eS     45 11.26
SVV      1.65 321 eP     44 47.01  -0.1
               eS     45 11.50
SOA      1.66 324 eP     44 46.73  -0.4
               eS     45 10.76
TBH      1.77 211 eP     44 48.70  -0.2
               eS     45 12.61
TRN      1.84 222 eP     44 49.41  -0.3
               eS     45 16.57
SLB      1.99 334 eP     44 52.15   0.2
               eS     45 16.08
TCE      2.05 230 eP     44 52.50  -0.3
               eS     45 22.22
TPP      2.12 217 eP     44 55.22   1.4
SLW      2.13 339 eP     44 53.41  -0.5
               eS     45 20.66
MVM      2.62 344 ePd    45 00.50  -0.4
BIM      2.63 340 eP     45 01.05  -0.1
CRM      2.81 345 iPd    45 03.22  -0.5
FDF      2.86 340 eP     45 04.60   0.2
        0.2s      1.15nm
               S      45 39.00
DBCT     3.43 340 eP     45 12.51   0.0
               eS     45 49.82
MDN      3.49 340 eP     45 13.00  -0.3
               eS     45 51.42
BBL      3.71 340 eP     45 17.04   0.6
               S      46 00.00
DOG      4.23 341 eP     45 24.95   1.1
PAG      4.25 340 eP     45 25.20   1.1
               S      46 11.00
SFG      4.32 347 eP     45 24.70  -0.4
DEG      4.35 348 eP     45 24.49  -1.1
SEG      4.55 343 eP     45 28.70   0.5
               S      46 20.00
PPD     34.94 166 eP     51 09.30  -0.8
FRB     51.99 355 eP     53 29.00   2.1
BW06    52.50 315 iP     53 31.00  -0.4
        1.0s      5.50nm          4.5mb
YKA     63.42 335 eP     54 46.30  -1.1
        0.6s      0.90nm          4.0mb
GBA    130.84  60 Pdiff 00 00.00 -20.1X
        0.2s      0.50nm
      S.D. = 0.8  on  26 of  27 obs.
-------------------------------------------
%  FEB  21, 1991  08h 05m 50.30± 2.25s
   17.984 N ±14.5km  101.063 W ±20.1km
   DEPTH =  33.0km  (normol)
 NEAR COAST OF GUERRERO, MEXICO  ( 58)

III      1.57  75 iP     06 16.70   0.4
               iS     06 30.70
ACX      1.60 134 eP     06 16.70   0.1
MRX      1.72 356 iP     06 18.20  -0.1
               iS     06 30.90
CRX      1.93  43 (P)    06 26.70   5.0X
UNM      2.23  53 (P)    06 33.80   7.9X
               (S)    07 12.70
PPM      2.55  65 (P)    06 31.80   1.1
               iS     07 16.80
IIT      2.81  68 (P)    06 41.80   7.6X
IISM     3.64  73 (P)    06 44.20  -1.5
OXX      4.24 102 (P)    07 02.50   8.1X
      S.D. = 1.3  on   5 of   9 obs.
-------------------------------------------
&  FEB  21, 1991  08h 42m 15.86s
   61.724 N          149.640 W
   DEPTH =  36.8km
 SOUTHERN ALASKA                   (  2)
      <AEIC>. ML 2.8 (PMR). Felt (II)
      at Palmer.

PWA      0.14 237 iP     42 22.38   0.1
PLRM     0.28 118 iP     42 22.88  -0.7
               iS     42 29.07
PMR      0.28 118 iPd    42 23.40  -0.2
GHO      0.34  82 eP     42 23.87  -0.6
```

21d 08h

		eS	42 31.02		
PMS	0.48	175 eP	42 25.63	-0.7	
SUA	0.59	244 eP	42 27.07	-0.8	
KNK	0.65	118 eP	42 27.59	-1.0	
		iS	42 37.67		
CUT	0.74	337 eP	42 29.25	-0.7	
SKT	0.93	287 iP	42 31.84	-0.8	
		eS	42 44.71		
NCG	1.25	256 eP	42 37.01	-0.2	
		eS	42 53.83		
NKA	1.25	219 eP	42 38.40	1.3	
SLKM	1.25	193 eP	42 36.50	-0.7	
		eS	42 53.33		
SPU	1.28	246 iP	42 37.29	-0.3	
		eS	42 55.13		
CRP	1.29	250 eP	42 37.96	0.1	
		eS	42 55.26		
BGL	1.40	252 eP	42 39.37	0.0	
		eS	42 58.17		
CKL	1.40	249 eP	42 39.13	-0.2	
GLI	1.49	123 iP	42 39.61	-1.0	
		eS	42 58.45		
VZW	1.63	113 eP	42 41.91	-0.8	
SEW	1.63	177 eP	42 42.33	-0.3	
KNIM	1.66	145 eP	42 40.95	-2.2	
TOA	1.68	75 eP	42 42.90	-0.6	
VLZ	1.70	109 eP	42 42.40	-1.2	
		S	43 04.10		
RND	1.73	12 eP	42 43.78	-0.3	
TRF	1.76	350 eP	42 44.36	-0.3	
RDT	1.77	231 eP	42 43.77	-0.9	
KLU	1.79	96 iP	42 44.07	-1.0	
		eS	43 07.31		
NNL	1.87	206 eP	42 46.65	0.6	
REF	1.94	232 eP	42 46.17	-1.0	
		eS	43 11.40		
RDN	1.94	233 eP	42 46.00	-1.2	
		eS	43 10.60		
RS2	1.97	231 eP	42 46.99	-0.7	
		eS	43 12.16		
RSO	1.97	231 eP	42 46.80	-0.9	
		eS	43 12.33		
NCT	1.98	235 eP	42 46.90	-0.7	
		eS	43 11.85		
MTU	2.00	150 eP	42 45.85	-2.0	
		eS	43 09.52		
TZL	2.02	79 eP	42 48.54	0.3	
HIN	2.03	130 eP	42 46.80	-1.5	
		eS	43 12.78		
MCK	2.04	9 eP	42 49.47	1.0	
BRLK	2.06	198 eP	42 48.94	0.2	
		eS	43 14.68		
SDG	2.09	65 eP	42 49.12	0.0	
CVA	2.23	120 eP	42 49.49	-1.6	
PAX	2.31	55 eP	42 52.44	0.0	
CNPM	2.34	200 eP	42 51.51	-1.3	
BWN	2.46	2 eP	42 55.40	1.0	
SGAM	2.48	118 eP	42 52.71	-2.0	
RAGM	2.76	117 eP	42 55.99	-2.8	
GLB	2.80	93 eP	42 57.68	-1.7	
WRH	2.85	14 eP	42 59.79	-0.1	
SVW	2.94	261 ePd	43 00.60	-0.8	
HDA	2.96	23 eP	43 01.10	-0.4	
PDB	2.96	231 eP	43 00.02	-1.6	
HMT	2.96	116 eP	43 00.74	-0.9	
CCB	3.05	15 eP	43 02.49	-0.3	
RDS	3.19	12 eP	43 04.02	-0.8	
TTA	3.21	295 eP	43 03.90	-1.3	
FBA	3.30	14 eP	43 06.20	-0.1	
MDM	3.31	10 eP	43 05.91	-0.6	
SYI	3.41	205 eP	43 05.67	-2.2	
GLM	3.43	16 eP	43 08.01	-0.2	
TGL	3.43	103 eP	43 06.33	-2.0	
CDD	3.44	217 eP	43 07.78	-0.5	
WAX	3.54	108 eP	43 07.15	-2.6	
BALM	3.58	98 eP	43 07.85	-2.6	
CTGM	4.07	97 eP	43 15.52	-2.0	
IMA	4.71	340 eP	43 25.50	-1.0	
	63 abs. associated				

? FEB 21, 1991 08h 52m 55.10± 0.99s
39.131 N ± 8.5km 27.609 E ±13.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

IZM	0.78	200 ePg	53 10.30	0.0	
		iSg	53 21.80		
DST	0.92	59 ePg	53 13.00	0.3	
KCT	1.26	27 ePn	53 18.00	-0.5	
KGT	1.34	350 ePn	53 20.00	0.2	
S.D. = 0.6		on 4 of 4 obs.			

? FEB 21, 1991 09h 22m 37.74± 0.99s
39.193 N ± 8.6km 27.710 E ±12.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

DST	0.82	60 ePg	22 54.00	0.3	
IZM	0.87	204 ePg	22 54.40	-0.1	
		eSg	23 05.90		
KCT	1.17	25 ePn	22 59.00	-0.5	
KGT	1.30	346 ePn	23 02.00	0.3	
S.D. = 0.7		on 4 of 4 obs.			

FEB 21, 1991 09h 36m 28.57± 0.66s
43.441 N ± 4.9km 5.473 E ± 5.2km
DEPTH = 11.8 ± 3.9 km
NEAR SOUTH COAST OF FRANCE (379)
MD 2.8 (STR).

GELF	0.07	210 Pg	36 30.77	-0.4	
PUYF	0.19	61 Pg	36 33.17	0.2	
TREF	0.19	341 Pg	36 33.01	0.0	
BERF	0.20	129 Pg	36 34.15	0.9	
CDR	0.32	42 e(Pg)	36 33.70	-1.6	
		i	36 39.10		
PRAF	0.42	329 Pg	36 37.75	0.4	
VILF	0.45	23 Pg	36 38.36	0.6	
TAVF	0.46	67 Pg	36 38.58	0.5	
CALN	1.08	73 Pg	36 49.26	0.5	
MVIF	1.30	69 Pn	36 52.14	-0.5	
TOUF	1.41	65 Pn	36 54.35	0.1	
REVF	1.41	77 Pn	36 54.81	0.7	
		Sg	37 14.51		
AURF	1.42	71 Pn	36 53.55	-0.7	
SBF	1.49	73 Pn	36 55.50	0.3	
AUTN	1.52	68 Pn	36 56.15	0.3	
SAOF	1.61	69 Pn	36 56.33	-0.5	
PGF	2.74	108 Pn	37 12.25	-1.0	
S.D. = 0.7		on 17 of 17 obs.			

? FEB 21, 1991 09h 37m 07.83±10.91s
36.195 N ±92.7km 29.472 E ±13.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.1 (ISK).

ELL	0.65	32 iPg	37 22.00	1.0	
		iSg	37 31.50		
YER	1.34	315 ePn	37 33.00	0.5	
BCK	1.55	35 ePn	37 35.00	-0.5	
KHL	2.12	1 ePn	37 43.00	-0.9	
S.D. = 1.5		on 4 of 4 obs.			

FEB 21, 1991 10h 05m 19.73± 0.86s
40.419 N ± 6.8km 21.791 E ± 7.2km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 3.5 (ATH).

KZN	0.11	188 iPbc	05 22.00	-0.7	
LIT	0.62	120 eP	05 32.60	0.3	
		eS	05 51.24		
GRG	0.71	41 iPd	05 32.64	-1.1	
		eS	05 50.40		
THE	0.92	76 iPc	05 38.64	1.3	
OHR	1.02	313 ePn	05 39.70	0.6	
VAY	1.08	33 ePn	05 40.80	0.8	
KNT	1.12	48 ePc	05 39.32	-1.4	
PLG	1.26	92 ePb	05 43.20	0.0	
		eSn	06 06.00		
PAIG	1.53	108 ePd	05 47.28	0.2	
SKO	1.57	350 ePn	06 04.00	16.3X	
S.D. = 1.1		on 9 of 10 obs.			

& FEB 21, 1991 10h 19m 15.00s
58.400 N 175.400 W
DEPTH = 20.0km (geophysicist)
3.4mb (1 obs.)
BERING SEA (3)
<SPEC>. Held to mainshock location.

ADK	6.57	187 e(P)	20 53.00	0.1	
SDN	8.72	104 e(P)	21 20.00	-2.8	
FBA	14.54	52 e(P)	22 49.00	7.7	
TOA	14.90	63 e(P)	22 46.00	-0.1	
INK	20.78	44 eP	23 58.00	1.2	
YKA	29.28	56 eP	25 20.20	2.7	
0.6s		0.40nm		3.4mb	
6 obs. associated					

? FEB 21, 1991 10h 26m 02.35± 0.99s
39.118 N ± 7.6km 27.490 E ±14.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

IZM	0.74	194 iPg	26 16.90	0.0	
		iSg	26 28.90		
DST	1.01	61 iPg	26 21.50	0.0	
BNT	1.28	15 ePn	26 26.00	-0.1	
KGT	1.34	354 iPn	26 27.10	0.1	
S.D. = 0.1		on 4 of 4 obs.			

FEB 21, 1991 10h 35m 27.45± 1.94s
6.975 N ± 6.1km 126.429 E ±12.1km
DEPTH = 132.0 ± 18.5 km
5.1mb (9 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

BAG	10.99	329 eP	38 02.50	0.3	
QIZ	20.09	308 P	39 48.10	-4.8X	
KNA	22.70	174 eP	40 19.70	1.1	
0.4s		32.00nm		5.1mb	
IPM	25.38	266 ePc	40 44.80	0.5	
WB2	27.86	164 iPc	41 05.00	-1.8	
MBL	28.70	193 iPd	41 13.60	-0.7	
CHG	29.21	296 eP	41 19.00	0.1	
		e	44 25.00		
NANU	31.23	200 iPc	41 36.30	-0.3	
ASPA	31.32	167 eP	41 36.30	-1.1	
0.4s		16.60nm		5.1mb	
XAN	31.42	331 P	41 37.50	-0.7	
CD2	31.90	321 eP	41 41.30	-1.2	
WARB	32.96	180 eP	41 52.00	0.4	
0.4s		18.00nm		5.2mb	
BJI	34.18	346 eP	42 03.00	1.0	
MEKA	34.26	193 eP	42 02.00	-0.8	
LZH	35.59	328 eP	42 15.50	1.3	
1.5s		20.00nm		4.7mb	
Z 22s		0.30um		4.0Msz	
MRWA	37.36	195 eP	42 28.00	-0.9	
COOL	37.98	187 eP	42 34.00	-0.1	
BAL	38.51	194 eP	42 39.00	0.4	
KLB	39.23	192 eP	42 45.00	0.5	
0.5s		33.00nm		5.4mb	
GTA	40.20	327 eP	42 53.40	0.9	
0.8s		10.00nm		4.6mb	
NWAO	40.63	192 iPd	42 56.70	0.7	
0.4s		17.00nm		5.1mb	
RKG	41.78	192 eP	43 11.30	5.9X	
		i	44 37.50		
		eS	48 52.00		
BRS	42.63	144 iPd	43 11.70	-0.7	
		i	43 13.50		
ADE	43.30	165 eP	43 19.00	1.2	
GUN	43.64	304 P	43 21.06	0.0	
PKI	43.91	303 P	43 22.48	-0.8	
0.6s		14.00nm		4.8mb	
KKN	44.09	303 P	43 24.52	-0.1	
DMN	44.18	303 P	43 24.56	-0.8	
0.7s		28.00nm		5.1mb	
GKN	44.70	303 P	43 28.84	-0.5	
TOO	47.76	159 eP	43 55.00	1.9	
		e	46 09.00		
YKA	96.68	24 eP	48 41.90	-1.7	
0.6s		0.30nm		3.9mb X	
LKO	129.46	288 PKP	54 23.38	0.2	
KIC	129.51	284 PKP	54 23.90	0.7	
TIC	129.71	285 PKP	54 24.00	0.4	
LIC	129.82	284 PKP	54 24.30	0.5	
S.D. = 0.9		on 33 of 35 obs.			

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* FEB 21, 1991 10h 38m 50.44± 0.52s
9.481 S ±10.6km 117.414 E ±13.1km
DEPTH = 33.0km (normal)
5.0mb (10 obs.)
SUMBAWA ISLAND REGION (285)

KNA	12.71	120	eP	41 49.70	-2.0
			eS	44 02.00	
NANU	13.13	188	eP	41 56.00	-1.3
	0.3s	33.00nm		5.8mb	
			eS	44 09.00	
MEKA	17.07	177	eP	42 48.00	-0.3
			eS	45 37.00	
WARB	18.78	153	eP	43 12.00	2.6X
	0.4s	30.00nm		4.9mb	
			eS	46 27.00	
WB2	19.39	124	iPd	43 18.60	1.9
MRWA	19.68	184	eP	43 24.00	4.1X
	0.3s	9.00nm		4.5mb	
			eS	46 40.00	
BAL	21.03	182	eP	43 44.00	10.1X
			eS	47 14.00	
ASPA	21.15	134	iPc	43 36.20	1.0
	0.6s	48.60nm		5.1mb	
			eS	47 21.10	
IPM	21.49	310	ePc	43 40.60	2.0
COOL	21.58	171	eP	43 49.00	9.6X
	0.3s	13.00nm		4.8mb	
			eS	47 25.00	
KLB	22.00	179	eP	43 56.00	12.4X
	0.4s	42.00nm			
			eS	47 31.00	
NWAO	23.33	180	eP	44 13.00	16.3X
	0.4s	66.00nm			
			eS	48 10.00	
KMI	37.25	338	Pc	46 04.20	2.9X
GBA	45.83	299	Pd	47 09.90	-1.6
	1.0s	9.30nm		4.7mb	
GUN	48.09	322	P	47 29.48	-0.1
	0.8s	70.00nm		5.7mb	
PKI	48.14	321	P	47 29.32	-0.6
	0.8s	20.00nm		5.2mb	
DMN	48.36	321	P	47 31.12	-0.4
KKN	48.38	321	P	47 31.10	-0.5
	0.8s	27.00nm		5.3mb	
GKN	48.93	321	P	47 35.32	-0.5
BJI	49.28	359	eP	47 37.50	-0.5
	1.0s	9.00nm		4.8mb	
PTZ	83.94	257	iP	51 21.20	1.9
			i	51 39.00	
BUL	85.67	250	iPc	51 31.10	3.1X
LSZ	86.81	255	eP	51 37.00	3.4X
			i	51 55.40	
YKA	115.27	24	ePKP	57 29.30	-0.6
	0.5s	0.50nm			
BAO	151.16	210	e(PKP)	58 37.00	0.1
SOB1	151.52	230	ePKP	58 46.00	8.6X
			e	59 05.10	
CNCB	153.34	168	ePKP	58 44.00	3.5X
LPB	153.58	168	PKP	58 45.00	4.3X
ZOBO	153.84	168	ePKP	58 45.00	3.8X
SIV	154.65	183	ePKP	58 43.00	1.4
	S.D. = 1.3	on	17 of	30 obs.	

FEB 21, 1991 11h 10m 50.19± 0.50s
9.735 S ± 8.3km 119.125 E ±10.1km
DEPTH = 33.0km (normal)
4.6mb (3 obs.)
SUMBA ISLAND REGION (287)

KNA	11.14	123	eP	13 29.00	-1.3
MBL	11.38	177	eP	13 32.30	-1.3
			eS	15 26.00	
NANU	13.21	195	eP	13 57.10	-1.0
	0.3s	9.00nm		5.2mb	
			eS	16 05.00	
MEKA	16.80	182	eP	14 47.00	2.4X
			eS	17 35.00	
WARB	17.84	157	eP	14 58.10	0.4
			eS	18 04.00	
WB2	17.86	126	iPd	14 58.10	0.1
			eS	17 28.00	
MRWA	19.60	188	eP	15 21.00	2.2
			eS	18 39.00	
ASPA	19.78	136	iPd	15 21.30	0.6
	0.Bs	22.30nm		4.5mb	
			eS	18 50.90	
QIS	22.48	121	eP	15 49.00	0.8
NWAO	23.15	184	eP	15 58.00	3.4X
			eS	20 04.00	
GBA	47.43	299	P	19 24.00	0.2
	0.2s	0.90nm		4.4mb	
GUN	49.35	320	P	19 39.18	0.1
PKI	49.42	320	P	19 39.24	-0.3
DMN	49.64	319	P	19 40.88	-0.2
KKN	49.65	320	P	19 41.08	-0.1
GKN	50.21	319	P	19 45.20	-0.2
	S.D. = 1.0	on	14 of	16 obs.	

& FEB 21, 1991 11h 17m 41.00s
58.400 N 175.400 W
DEPTH = 20.0km (geophysicist)
3.5mb (1 obs.)
BERING SEA (3)
<SPEC>. Held to mainshock locotion.

ADK	6.57	187	e(P)	19 15.80	-3.1
			eTT	25 42.70	
TTA	10.52	56	e(P)	20 19.40	5.7
IMA	12.65	44	e(P)	20 44.60	2.1
PMR	13.48	65	e(P)	21 10.30	16.9
FBA	14.54	52	eP	21 16.20	8.9
TOA	14.90	63	eP	21 19.70	7.6
INK	20.78	44	eP	22 23.00	0.2
MBC	26.38	27	eP	23 19.00	1.9
YKA	29.28	56	eP	23 43.60	0.1
	0.9s	0.90nm		3.5mb	
SES	36.96	74	eP	24 53.00	2.8
	10 obs. ossociated				

& FEB 21, 1991 11h 23m 45.62s
38.960 N 111.901 W
DEPTH = 1.2km
3.4mb (1 obs.)
UTAH (478)
<SLC-P>. ML 3.4 (SLC). Felt (IV) ot Axtell, Redmond ond Salina. Felt (III) ot Aurora ond Centerfield.

MSU	0.49	206	iP	23 55.40	-0.1
DUG	1.42	331	iP	24 11.10	-1.5
DAU	1.53	19	eP	24 14.20	-0.3
PV09	2.21	101	eP	24 25.30	1.0
8W06	4.21	24	eP	24 52.00	-0.5
TNP	4.26	260	eP	24 54.00	0.7
KVN	4.83	273	eP	25 00.50	-0.9
GOL	5.12	80	eP	25 04.50	-1.0
GSC	5.35	229	eP	25 28.00	19.3
CLC	5.51	237	eP	25 30.00	19.0
LTMT	5.56	358	ePn	25 11.80	0.0
TPC	5.88	216	eP	25 29.00	12.9
ALQ	5.92	131	eP	25 16.00	-0.8
ISA	6.19	240	eP	25 21.00	0.6
BGMT	6.27	359	ePn	25 16.50	-5.2
RSSD	7.83	46	eP	25 40.00	-3.6
YKA	23.62	357	eP	28 57.10	-1.5
	0.8s	0.90nm		3.4mb	
	17 obs. ossociated				

FEB 21, 1991 12h 26m 14.36± 0.71s
49.136 N ± 5.1km 6.947 E ± 8.8km
DEPTH = 10.0km (geophysicist)
GERMANY (543)
MD 2.4 (STR).

GWF	0.47	109	Pg	26 23.97	0.0
RUP	0.57	7	ePg	26 24.80	-1.2
CDF	0.76	163	Pg	26 28.45	-0.8
WLS	0.77	159	Pg	26 28.81	-0.7
			Sg	26 40.83	
ECH	0.93	171	Pg	26 31.77	-0.4
			Sg	26 45.23	
VITF	1.12	215	Pg	26 34.15	-1.2
			Sg	26 49.19	
MOF	1.29	174	Pg	26 38.46	0.1
			Sg	26 56.69	
BSF	1.31	185	Pg	26 38.46	-0.2
FEL	1.45	150	Pg	26 41.53	0.8
TNS	1.46	41	ePn	26 40.80	0.0
			eSn	27 01.40	
LOMF	1.79	183	Pg	26 47.51	1.9
			Sg	27 11.90	
YKA	59.45	333	eP	36 20.70	1.6
	0.6s	0.30nm		3.6mb	
	S.D. = 1.1	on	12 of	12 obs.	

% FEB 21, 1991 12h 30m 28.47± 0.57s
44.283 N ± 5.5km 7.403 E ± 4.9km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.0 (GEN).

ENR	0.06	168	P	30 30.50	-0.3
			S	30 32.69	
STV	0.07	236	P	30 31.16	0.3
			S	30 33.52	
PZZ	0.31	316	P	30 35.23	0.3
			S	30 40.59	
ROB	0.34	88	P	30 35.67	0.2
			S	30 40.70	
IMI	0.51	137	P	30 38.75	-0.1
BHB	0.57	350	P	30 39.38	-0.6
			S	30 46.88	
FIN	0.58	97	P	30 39.88	-0.4
PCP	0.86	72	P	30 45.62	0.6
	S.D. = 0.5	on	8 of	8 obs.	

% FEB 21, 1991 12h 32m 23.19± 0.94s
43.110 N ±17.2km 0.680 W ± 6.0km
DEPTH = 10.0km (geophysicist)
PYRENEES (378)
MD 2.0 (STR).

ESCF	0.08	112	Pg	32 26.03	0.3
			Sg	32 27.53	
MADF	0.11	289	Pg	32 26.05	0.0
			Sg	32 28.37	
ISSF	0.12	226	Pg	32 26.23	0.0
			Sg	32 28.70	
JAU	0.24	107	Pg	32 28.13	-0.3
			Sg	32 32.42	
BOH	0.24	268	Pg	32 28.42	0.0
	S.D. = 0.3	on	5 of	5 obs.	

% FEB 21, 1991 12h 49m 29.92± 2.30s
39.923 N ± 9.0km 25.768 E ±18.5km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
MD 3.2 (ISK).

EZN	0.44	103	iPg	49 38.70	-0.2
			iSg	49 44.70	
KGT	1.29	65	ePn	49 54.00	0.2
EDC	1.66	75	ePn	49 59.50	0.3
BNT	1.71	75	ePn	50 00.00	0.1
IZM	1.92	142	ePn	50 03.00	0.1
KCT	2.01	80	ePn	50 04.00	-0.3
DMK	2.42	38	ePn	50 10.00	-0.2
	S.D. = 0.3	on	7 of	7 obs.	

? FEB 21, 1991 14h 15m 26.91± 0.93s
37.267 N ±12.9km 3.031 W ± 6.3km
DEPTH = 10.0km (geophysicist)
SPAIN (377)

AFC	0.41	268	eP	15 35.50	0.2
			eS	15 43.30	
ECOG	0.43	272	eP	15 35.50	-0.2
			eS	15 43.00	
ENIJ	0.71	114	eP	15 41.00	0.0
			eS	15 51.00	
EVIA	1.43	17	eP	15 53.00	0.0
			eS	16 12.00	
	S.D. = 0.2	on	4 of	4 obs.	

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* FEB 21, 1991 14h 55m 00.51± 1.35s
34.977 N ±17.2km 34.073 E ±13.2km
DEPTH = 33.0km (normal)
CYPRUS (372)
ML 3.8 (CSS). Felt (IV) at Dherinia.

FAM	0.06	288	iPc	55 05.80	-0.3
CSS	0.61	269	ePc	55 11.30	-1.4
			eSg	55 18.30	
PPCY	1.42	267	eP	55 26.30	2.1
BHL	1.69	129	Pg	55 28.50	0.3
			Sg	55 49.00	
KQT	5.38	201	ePn	56 20.00	-0.5
CIN	5.50	300	eP	56 22.00	-0.2
	S.D. = 1.5	on	6 of	6 obs.	

& FEB 21, 1991 15h 35m 00.36s
63.611 N 148.004 W
DEPTH = 4.3km

21d 15h

CENTRAL ALASKA (1)
<AEIC>.

MCK	0.43	287	iP	35 08.90	-0.1
			eS	35 15.10	
RND	0.43	242	iP	35 08.65	-0.4
			eS	35 14.49	
BWN	0.86	312	eP	35 16.03	-1.4
			eS	35 29.47	
WRH	0.86	358	iP	35 16.95	-0.6
			eS	35 29.09	
HDA	0.92	30	eP	35 18.08	-0.4
			eS	35 29.95	
DDM	0.97	79	eP	35 18.39	-1.0
			S	35 31.46	
HUR	0.97	230	eP	35 18.77	-0.6
TRF	1.04	262	eP	35 19.95	-0.6
			eS	35 34.42	
CCB	1.04	5	eP	35 19.97	-0.6
			eS	35 34.08	
NEA	1.08	335	eP	35 20.91	-0.3
RDS	1.22	357	eP	35 23.45	-0.2
			eS	35 39.85	
FBA	1.30	4	eP	35 24.82	-0.1
PAX	1.31	118	eP	35 23.41	-1.8
			eS	35 42.61	
MDM	1.36	356	eP	35 25.91	-0.1
			S	35 44.05	
GLM	1.41	11	eP	35 26.65	-0.2
			eS	35 45.61	
SDG	1.56	133	eP	35 28.31	-0.6
			eS	35 49.20	
CUT	1.59	221	eP	35 28.98	-0.3
			eS	35 51.48	
TOA	1.73	150	eP	35 31.64	0.2
GHO	1.89	193	eP	35 33.30	-0.5
			eS	35 57.67	
TZL	1.97	142	eP	35 35.76	1.0
PLRM	2.09	195	eP	35 36.67	0.1
			eS	36 04.45	
PWA	2.15	205	eP	35 37.25	-0.1
KNK	2.22	186	eP	35 38.67	0.2
			iS	36 06.38	
TMW	2.27	95	eP	35 40.48	1.3
SKT	2.30	226	eP	35 39.34	-0.3
KLU	2.34	155	eP	35 40.91	0.7
			eS	36 12.11	
PMS	2.48	198	eP	35 43.03	0.8
SUA	2.50	212	eP	35 42.87	0.3
VLZ	2.61	162	eP	35 45.12	1.2
GLI	2.77	171	eP	35 46.21	-0.2
GLB	2.92	136	eP	35 46.95	-1.5
NCG	2.94	223	eP	35 48.23	-0.5
SPU	3.08	220	eP	35 51.35	0.6
CKL	3.15	222	eP	35 52.93	1.2
KNIM	3.28	178	eP	35 54.00	0.5
RDT	3.68	216	eP	35 59.83	0.5

36 obs. associated

% FEB 21, 1991 15h 40m 05.06± 0.50s
44.577 N ± 4.3km 7.449 E ± 4.9km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.9 (GEN).

PZZ	0.26	254	P	40 10.81	0.2
			S	40 14.40	
BHB	0.30	334	P	40 12.36	1.1
			S	40 17.07	
STV	0.34	195	P	40 12.24	0.0
			S	40 16.55	
ENR	0.35	183	P	40 11.74	-0.6
			S	40 16.05	
ROB	0.41	133	P	40 13.88	0.3
			S	40 19.83	
RRL	0.58	306	P	40 16.76	-0.3
RSP	0.59	347	P	40 16.14	-1.0
FIN	0.66	124	P	40 18.70	0.5
IMI	0.74	154	P	40 19.63	0.0
PCP	0.78	92	P	40 19.93	-0.4

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

? FEB 21, 1991 18h 17m 01.42± 6.24s
1.071 N ±73.4km 126.789 E ±50.2km
DEPTH = 33.0km (normal)
5.1mb (5 obs.)
MOLUCCA PASSAGE (266)

KNA	16.83	173	eP	20 56.30	0.1
WB2	22.16	161	iPc	21 57.50	1.2
QIS	24.89	150	iPc	22 31.00	8.1X
	0.3s		26.00nm		5.3mb
NANU	25.93	204	eP	22 34.70	2.2X
WARB	27.10	180	eP	22 42.50	-0.8
	0.3s		12.00nm		5.0mb
FORR	31.77	178	eP	23 23.00	-1.9
	0.3s		23.00nm		5.5mb
MRWA	31.84	198	eP	23 26.30	0.7
KLB	33.60	194	eP	23 41.00	0.1
	0.4s		10.00nm		5.1mb
NWAO	35.00	194	eP	23 53.50	0.6
	0.4s		8.00nm		5.0mb

S.D. = 1.3 on 7 of 9 obs.

FEB 21, 1991 18h 36m 52.95± 0.32s
10.583 S ± 5.5km 163.234 E ± 6.6km
DEPTH = 33.0km (normal)
5.1mb (17 obs.) 4.7Msz (3 obs.)
SOLOMON ISLANDS (193)

HNR	3.43	289	iP	37 46.00	0.5
			iS	38 25.00	
SVO	3.66	293	iP	37 50.00	1.4
			iS	38 25.00	
CTA	18.89	238	iPd	41 14.20	0.8
	1.0s		340.00nm		5.5mb
BRS	19.40	209	iPc	41 20.00	0.6
RMQ	20.91	219	iPd	41 35.50	0.3
COO	22.52	206	iPc	41 52.00	0.7
	1.0s		28.00nm		4.7mb
OLP	23.98	226	iPd	42 06.30	0.8
QIS	24.80	244	eP	42 12.00	-1.5
CMS	26.32	215	iPc	42 28.00	0.4
WB2	29.33	248	iPd	42 53.10	-2.0
TOO	31.26	208	iPc	43 12.70	0.7
BFD	32.38	212	iPc	43 22.00	0.2
ADE	32.99	219	eP	43 27.00	-0.2
WARB	37.87	241	eP	44 08.00	-0.8
	0.6s		29.00nm		5.3mb
FORR	38.31	233	eP	44 11.80	-0.6
	0.4s		22.00nm		5.3mb
MBL	42.92	250	iPd	44 50.20	-0.4
	0.4s		11.00nm		4.9mb
NWAO	47.69	235	eP	45 27.00	-1.5
SSE	57.82	317	eP	46 42.50	-1.2
	Z 20s		0.50um		4.6Msz
WHN	62.26	313	eP	47 14.00	-0.2
IPM	63.74	280	ePd	47 22.40	-1.9
	1.2s		84.50nm		5.7mb
CN2	64.10	330	eP	47 25.40	-0.7
	Z 20s		0.70um		4.8Msz
			epP	47 33.00	24kmX
GYA	66.13	305	P	47 39.40	-0.3
BJI	66.59	322	eP	47 41.50	-0.7
	1.2s		12.00nm		4.9mb
TIY	67.56	318	eP	47 50.80	2.3
XAN	68.00	313	Pc	47 50.90	-0.4
KMI	68.78	302	Pd	47 57.00	0.4
	1.5s		170.00nm		5.9mb
CHG	69.79	295	ePd	48 02.30	-0.2
	1.2s		43.75nm		5.4mb
HHC	69.90	321	P	48 03.50	0.5
CD2	70.37	308	iPc	48 06.10	0.1
	1.0s		30.00nm		5.3mb
BTO	70.73	320	eP	48 08.00	0.0
LZH	72.63	313	Pd	48 19.50	-0.1
	2.0s		42.00nm		5.1mb
	Z 22s		0.35um		4.6Msz
			sP	48 28.50	
			PcP	48 42.50	
GTA	76.97	315	eP	48 45.00	0.6
	1.6s		30.00nm		5.1mb
			pP	48 55.40	33kmX
SHL	78.13	299	iP	48 51.20	0.1
RSO	78.94	21	eP	48 54.20	-0.6
SPA	79.49	180	eP	48 58.50	0.8
	1.3s		25.00nm		5.1mb
LSA	80.03	303	eP	49 02.40	0.7
FBA	83.67	19	eP	49 18.60	-0.7
	1.0s		7.50nm		4.8mb
GUN	83.94	300	P	49 22.60	0.7
PKI	84.26	299	P	49 24.00	0.5
KKN	84.42	299	P	49 25.00	0.8
DMN	84.53	299	P	49 25.60	0.8
GKN	85.03	300	P	49 27.00	-0.1

WDC	85.10	47	eP	49 27.70	0.7
PRI	85.18	52	eP	49 34.00	6.4X
CMB	85.94	50	eP	49 31.70	0.4
FRI	86.16	51	eP	49 32.80	0.5
WMQ	87.03	315	P	49 37.00	0.5
PLM	87.45	56	eP	49 37.20	-1.8
TNP	88.36	51	eP	49 45.00	1.8
	1.0s		2.50nm		4.5mb
GBA	88.43	284	Pc	49 42.70	-1.0
	0.8s		4.10nm		4.8mb
INK	90.28	19	eP	49 51.00	-0.3
YKA	95.70	28	eP	50 15.00	-1.4
	1.0s		1.10nm		4.3mb
CLL	132.67	335	e(PKP)	56 07.00	1.0
KHC	134.02	333	ePKP	56 09.10	0.4
BCAO	144.50	263	iPKPd	56 27.10	-1.6
	0.9s		27.00nm		
			i	57 39.90	
TOL	148.71	341	iPKPc	56 39.50	4.6X
	1.2s		46.88nm		
SOB1	148.97	128	ePKP	56 39.50	3.5X

S.D. = 0.9 on 54 of 57 obs.

• FEB 21, 1991 18h 51m 53.84± 2.67s
49.125 N ±16.8km 150.889 E ±10.9km
DEPTH = 318.3 ± 29.3 km
4.6mb (18 obs.)
NORTHWEST OF KURIL ISLANDS (220)

MDJ	15.23	261	eP	55 13.50	-1.5
	1.0s		100.00nm		5.1mb
MAT	15.61	221	eP	55 19.00	-0.1
	0.9s		21.01nm		4.5mb
CN2	18.28	263	eP	55 44.80	-1.9
SNY	20.42	259	eP	56 09.80	2.0
BJI	26.14	263	eP	57 02.00	0.8
	1.3s		14.00nm		4.2mb
HHC	28.75	268	P	57 25.00	0.5
TIY	29.86	262	iPc	57 35.00	0.7
WHN	33.22	250	ePc	58 02.70	-0.5
XAN	34.34	260	eP	58 12.70	0.0
LZH	36.42	267	eP	58 30.80	0.5
	1.2s		34.00nm		4.7mb
GTA	37.20	275	Pd	58 37.80	1.0
	0.8s		10.00nm		4.3mb
CD2	39.69	261	eP	58 57.30	0.1
	0.7s		20.00nm		4.5mb
INK	40.48	34	eP	59 03.00	-0.1
GYA	40.88	253	P	59 06.60	-0.4
WMQ	42.72	288	iPc	59 23.00	1.2
LSA	48.72	269	eP	00 10.10	0.9
YKA	49.93	37	eP	00 17.50	0.2
	0.6s		8.90nm		4.3mb
CHG	51.30	253	ePd	00 28.10	0.0
CHTO	51.30	253	iP	00 28.10	0.0
	1.0s		10.00nm		4.2mb
GUN	53.37	272	P	00 43.26	-0.4
	0.5s		21.00nm		4.8mb
KKN	53.84	272	P	00 46.86	-0.1
	0.6s		22.00nm		4.7mb
PKI	53.90	272	P	00 47.24	-0.3
	0.5s		15.00nm		4.6mb
DMN	54.08	272	P	00 49.02	0.4
	0.7s		37.00nm		4.9mb
GKN	54.12	273	P	00 48.82	0.0
	0.6s		59.00nm		5.2mb
KHT	54.56	250	eP	00 52.30	0.4
NDI	58.52	279	eP	01 19.50	0.0
SES	58.65	48	ePc	01 12.00	-8.2X
FFC	59.88	40	iPc	01 28.90	0.5
	0.6s		18.00nm		4.8mb
FRB	63.28	18	ePc	01 49.50	-1.2
	0.4s		22.00nm		5.2mb
HYB	65.51	269	eP	02 04.80	-0.8
HFS	65.70	338	eP	02 05.50	-0.7
	0.4s		3.70nm		4.5mb
GBA	69.01	267	Pc	02 25.10	-2.1
	0.4s		1.70nm		4.1mb
ALQ	71.84	58	eP	02 45.00	0.8
	1.0s		4.25nm		4.1mb

S.D. = 0.9 on 32 of 33 obs.

? FEB 21, 1991 19h 27m 16.00± 1.99s
52.566 N ±35.4km 168.113 W ±20.2km
DEPTH = 33.0km (normal)
4.7mb (4 obs.)
FOX ISLANDS, ALEUTIAN ISLANDS (9)

```
SDN      5.29   55 eP      28 35.10    0.4
ADK      5.31  266 eP      28 36.00    1.0
PDB     10.59   41 eP      29 50.00    1.6
TTA     12.21   27 eP      30 11.00    0.6
KLU     14.96   45 eP      30 43.20   -3.3X
TOA     15.14   42 eP      30 46.00   -2.9X
IMA     15.35   23 eP      30 53.00    1.3
INK     22.76   33 eP      32 14.00   -2.0
MBC     30.07   21 eP      33 23.00   -0.8
MAT     40.47  269 eP      35 06.00   13.0X
        1.8s     54.55nm              4.8mb
KEV     57.49  354 eP      37 09.00    5.4X
SOD     59.87  353 eP      37 20.00   -0.2
KAF     65.10  353 eP      37 53.80   -1.1
        0.6s     5.50nm              4.8mb
NUR     66.81  353 eP      38 04.80   -1.1
HFS     67.64  359 eP      38 08.70   -2.4
        0.4s     2.70nm              4.7mb
GUN     77.30  299 P       39 09.48    0.4
KKN     77.72  300 P       39 11.52    0.3
PKI     77.82  299 P       39 11.44   -0.5
        0.9s     8.00nm              4.7mb
GKN     77.89  300 P       39 12.06    0.0
DMN     77.95  300 P       39 13.42    0.8
KBA     80.73  359 eP      39 29.00    1.9
        1.0s     6.30nm              4.6mb
      S.D. = 1.3  on  17 of  21 obs.
-------------------------------------
&  FEB  21, 1991  20h 52m 55.60s
   40.427 N          127.613 W
   DEPTH =    5.0km
   4.6mb (  2 obs.)
 OFF COAST OF NORTHERN CALIFORNIA( 34)
      <BRK>. ML 4.3 (BRK).

FHC      2.79   81 eP      53 38.30   -3.5
                eS      54 10.30
WDC      3.87   86 iPd     53 56.40   -0.7
                eS      54 43.10
LBFM     4.43   76 eP      54 03.80   -1.5
MIN      4.59   89 eP      54 06.70   -0.7
ORV      4.78   99 eP      54 11.40    1.4
ZSP      4.84  119 eP      54 08.70   -2.2
BRK      4.88  120 eP      54 08.60   -2.8
BKS      4.89  120 iP      54 08.80   -2.8
PCC      5.02  124 iPd     54 10.70   -2.6
GCC      5.55  126 eP      54 18.00   -2.9
MHC      5.58  122 eP      54 18.40   -3.1
ARN      5.65  121 eP      54 19.50   -2.9
SAO      6.06  125 eP      54 25.40   -2.6
CMB      6.10  111 eP      54 27.60   -1.0
PRS      6.38  128 eP      54 30.20   -2.5
LLA      6.47  124 eP      54 30.80   -3.0
BMW      6.83   26 eP      54 40.00    1.0
KVN      7.46   98 eP      54 45.80   -2.1
LON      7.59   32 eP      54 49.00   -0.6
BONR     7.64  106 eP      54 50.00   -0.6
SYP      8.45  132 eP      55 01.00   -0.8
ISA      8.64  121 eP      55 02.00   -2.2
CLC      9.13  117 eP      55 08.00   -3.1
MWC      9.81  126 eP      55 35.00   14.5
GSC      9.96  117 eP      55 20.00   -2.5
PNT     10.54   30 eP      55 30.00   -0.3
PLM     11.13  126 eP      55 43.00    4.4
TPC     11.16  121 eP      55 35.00   -3.9
LRM     12.31   59 eP      55 53.20   -1.6
BW06    13.72   74 eP      56 13.50    0.1
SES     15.29   44 eP      56 36.00    2.3
FFC     22.27   41 eP      57 56.00    1.1
        1.6s     41.00nm              4.6mb
MEO     23.62   94 iPd     58 11.10    2.8
KLU     23.87  338 eP      58 15.30    4.7
PMR     24.92  335 eP      58 25.00    4.4
IMA     29.60  339 eP      59 06.00    2.4
MBC     36.10    3 eP      00 02.00    2.3
DAG     55.13   15 iPd     02 30.30   -0.3
        0.8s     5.22nm              4.6mb
SIV     83.37  117 P       05 26.00    0.7
SPA    130.24  180 ePKP    12 11.00    3.5
        1.0s     5.00nm
        40 obs. associated
-------------------------------------
   FEB  21, 1991  20h 53m 26.26± 0.64s
   43.461 N ± 5.3km     5.499 E ± 4.9km
   DEPTH =  13.1 ±  3.7 km
 NEAR SOUTH COAST OF FRANCE          (379)
      MD 2.5 (STR).

GELF     0.09  214 Pg      53 28.98   -0.4
PUYF     0.16   64 Pg      53 30.55    0.2
TREF     0.18  333 Pg      53 30.62    0.0
BERF     0.20  137 Pg      53 32.12    1.1
CDR      0.29   42 iPg     53 31.10   -1.4
                e(Sg)   53 35.90
PRAF     0.42  325 Pg      53 34.99    0.0
VILF     0.42   22 Pg      53 35.35    0.3
TAVF     0.44   69 Pg      53 36.11    0.9
CALN     1.05   73 Pg      53 46.45    0.6
MVIF     1.28   69 Pn      53 49.85    0.1
TOUF     1.38   66 Pn      53 51.30   -0.1
REVF     1.39   78 Pn      53 51.32    0.1
AURF     1.39   72 Pn      53 51.43    0.0
FOUF     1.41   40 e(Pg)c  53 53.01    1.5
                e(Sg)   54 10.88
SBF      1.46   73 Pn      53 51.97   -0.4
                Sg      54 12.95
AUTN     1.50   68 Pn      53 52.95    0.0
SAOF     1.58   70 Pn      53 54.10    0.1
                Sg      54 17.52
PGF      2.72  108 Pn      54 09.20   -1.4
      S.D. = 0.8  on  18 of  18 obs.
-------------------------------------
%  FEB  21, 1991  21h 06m 48.21± 0.85s
   40.393 N ± 8.9km     1.871 W ± 8.2km
   DEPTH =  10.0km  (geophysicist)
 SPAIN                               (377)
      mbLg 2.6 (MDD).

ETOR     0.45  342 iPgc    06 56.00   -1.4
                eSg     07 02.00
ECHE     1.06  139 ePg     07 06.60   -1.6
                eSg     07 21.60
TOL      1.75  254 iPn     07 19.40    0.6
                eSn     07 42.50
GUD      1.76  279 ePn     07 19.80    0.8
                eSn     07 41.30
EVIA     1.82  196 ePn     07 20.00    0.1
                eSn     07 42.60
EBR      1.85   76 ePg     07 22.00    1.8
                eSg     07 45.00
EBAN     2.68  214 ePn     07 29.30   -2.8X
                eSn     07 59.80
EPLA     3.24  266 ePn     07 39.80   -0.3
      S.D. = 1.5  on   7 of   8 obs.
-------------------------------------
?  FEB  21, 1991  21h 11m 40.07± 1.89s
   36.558 S ±43.0km    47.880 E ± 9.8km
   DEPTH =  10.0km  (geophysicist)
   4.7mb (  3 obs.)
 ATLANTIC-INDIAN RISE                (428)

BFT     18.69  300 eP      16 01.00    0.3
SEK     18.94  290 eP      16 07.00    3.3X
HVD     19.55  281 eP      16 28.00   16.9X
BLF     19.66  286 eP      16 10.60   -1.6
SLR     19.91  297 eP      16 11.50   -3.3X
KSR     20.83  295 eP      16 20.50   -4.0X
        1.0s     40.00nm             4.7mb
BUL     23.48  309 eP      16 51.90    1.0
                ipP     17 47.00
BCAO    49.14  320 iPd     20 31.10    1.1
        1.0s     15.00nm             5.0mb
                i       21 25.30
GBA     57.15   35 Pd      21 28.80   -0.6
        0.8s     3.60nm              4.5mb
LKO     67.97  301 P       22 41.08   -0.6
DMN     72.81   34 P       23 10.68   -0.3
PKI     72.91   34 P       23 11.78    0.1
GKN     72.94   34 P       23 11.26   -0.4
KKN     73.04   34 P       23 11.58   -0.7
GUN     73.42   35 P       23 14.74    0.1
MBC    139.80  355 ePKP    31 20.50   11.7X
                pP      31 31.50
INK    148.19    1 ePKP    31 25.00    1.8
      S.D. = 1.0  on  12 of  17 obs.
-------------------------------------
*  FEB  21, 1991  21h 42m 15.64± 1.44s
   51.709 N ± 9.3km     7.266 E ±14.0km
   DEPTH =  10.0km  (geophysicist)
 GERMANY                             (543)
      MD 2.3 (UCC). ML 2.1 (BNS).

WTS      0.40  316 iPg     42 24.00    0.1
BNS      0.75  184 iPgc    42 31.00    0.7
        0.3s     58.00nm

                iSg     42 41.50
ENN      1.27  222 iPg     42 39.00   -0.1
MEM      1.36  216 iPc     42 40.12   -0.4
                iS      42 57.94
TNS      1.66  153 ePnc    42 44.70   -0.3
                eSn     43 09.80
DOU      2.34  227 iP      43 02.70    8.0X
      S.D. = 0.6  on   5 of   6 obs.
-------------------------------------
   FEB  21, 1991  21h 48m 07.16± 0.39s
   44.602 N ± 3.6km    11.566 E ± 4.7km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                      (545)

SFI      0.71  163 P       48 20.10   -1.0
                eSg     48 31.30
PGD      0.73  171 P       48 20.30   -1.4
                eSg     48 29.80
MME      0.74  237 P       48 23.10    1.2
                eSg     48 33.70
FIR      0.85  195 ePg     48 24.00    0.4
                i(Sg)   48 38.00
BDI      0.88  233 P       48 25.60    1.5
                eSg     48 40.30
RSM      0.93  136 P       48 26.20    1.4
CRE      1.01  164 P       48 26.30   -0.1
                eSg     48 43.00
SAL      1.25  324 P       48 31.60    1.3
                eSg     48 51.50
CTI      1.45    2 P       48 33.60    0.1
                eSg     48 53.60
ARV      1.48  138 P       48 34.30    0.4
                eSg     48 51.60
BOB      1.52  277 P       48 37.60    3.1X
                eSg     48 57.70
ASS      1.72  152 P       48 37.50    0.1
                eSg     48 59.90
MDI      1.76  313 P       48 41.60    3.7X
                eSg     49 04.50
TRI      1.91   54 i(Pg)c  48 38.70   -1.3
FVI      2.17   23 P       48 45.10    1.4
                eSg     49 10.10
VAI      2.35  304 P       48 47.70    1.4
                eSg     49 16.80
MNS      2.36  160 P       48 46.40   -0.2
KBA      2.77   26 ePn     48 53.00    0.4
PGF      2.77  223 Pn      48 52.00   -0.5
LPL      3.55  287 Pn      49 03.70    0.1
BSF      4.63  316 Pn      49 18.80    0.0
CDF      4.83  324 Pn      49 20.40   -1.2
HAU      4.97  315 Pn      49 23.80    0.3
LBF      5.82  297 Pn      49 34.40   -1.2
LOR      6.00  299 Pn      49 36.70   -1.4
SSF      6.15  296 Pn      49 38.60   -1.5
BGF      6.43  291 Pn      49 41.20   -2.9X
      S.D. = 1.1  on  24 of  27 obs.
-------------------------------------
   FEB  21, 1991  21h 48m 37.80± 0.36s
   44.572 N ± 3.8km    11.568 E ± 3.9km
   DEPTH =  11.1 ±  2.9 km
 NORTHERN ITALY                      (545)
      ML 3.4 (KBA). MD 3.4 (TRI), 3.2
      (FIR).

SFI      0.68  162 P       48 50.80   -0.4
                eSg     48 59.00
PGD      0.71  171 P       48 51.50   -0.2
                eSg     48 59.90
MME      0.73  239 P       48 53.90    1.7
                eSg     49 06.00
FIR      0.83  196 ePg     48 54.50    0.9
                iSg     49 08.00
BDI      0.86  234 P       48 55.80    1.4
                eSg     49 11.40
RSM      0.91  135 P       48 52.90   -2.1
                eSg     49 04.30
CRE      0.98  164 P       48 57.80    1.4
SAL      1.27  325 P       49 06.90    5.6X
                eSg     49 25.40
ARV      1.46  137 P       49 06.00    1.9
CTI      1.48    2 P       49 07.60    3.2X
                eSg     49 28.80
BOB      1.53  278 P       49 09.50    4.5X
VVI      1.53   23 P       49 05.80    0.7
ASS      1.70  152 P       49 08.50    1.0
MDI      1.78  313 P       49 11.60    2.9X
                eSg     49 38.10
```

21d 21h

TRI	1.93	53	i(Pn)c	49	09.80	-1.0
			i(Sn)	49	33.00	
			i	49	42.00	
			i	49	47.10	
RIY	2.14	68	e(Pn)	49	12.40	-1.5
			iSn	49	38.70	
FVI	2.19	22	P	49	19.90	5.3X
			eSg	49	46.00	
MNS	2.33	159	P	49	15.60	-1.1
OSS	2.34	335	ePc	49	19.00	2.1
CKI	2.36	268	P	49	20.30	3.3X
VAI	2.36	304	P	49	18.90	1.9
VDL	2.42	323	ePd	49	19.00	1.0
SQTA	2.66	355	iPnd	49	22.70	1.2
			iSn	49	58.70	
			i	50	04.60	
PGF	2.75	224	Pn	49	22.70	-0.1
			Sn	49	55.20	
KBA	2.80	26	iPnd	49	24.60	1.2
			iSn	49	59.10	
			i	50	13.70	
LLS	2.92	323	ePd	49	26.20	1.0
SBF	3.05	258	Pn	49	27.60	0.7
			Sn	50	03.20	
SAX	3.10	331	ePc	49	29.40	1.7
DIX	3.30	299	ePd	49	32.50	1.9
SDI	3.30	149	P	49	30.50	0.0
PTJ	3.37	65	ePn	49	33.50	2.0
			eSn	50	17.60	
LPG	3.54	287	Pn	49	34.20	0.2
LPL	3.56	287	Pn	49	34.60	0.4
			Sn	50	15.00	
EMS	3.60	296	ePd	49	36.20	1.4
ZLA	3.66	324	ePc	49	35.70	0.2
FRF	3.69	256	Pn	49	35.60	-0.3
			Sn	50	16.80	
SLE	3.84	327	ePd	49	37.70	-0.4
LMR	3.86	253	Pn	49	37.40	-0.9
			Sn	50	21.20	
LRG	3.92	255	Pn	49	39.20	0.1
			Sn	50	23.60	
FEL	4.12	325	eP	49	41.36	-0.8
BSF	4.65	316	Pn	49	48.60	-1.1
			Sn	50	39.60	
WET	4.66	11	eP	49	48.60	-1.2
CDF	4.85	324	Pn	49	51.40	-1.1
			Sn	50	44.40	
HAU	4.99	315	Pn	49	53.20	-1.1
			Sn	50	48.30	
GRF	5.13	357	e(Pg)	50	21.00	24.7X
			eSg	51	25.00	
SMF	5.80	294	Pn	50	04.60	-1.2
			Sn	51	07.20	
LBF	5.83	297	Pn	50	04.80	-1.5
			Sn	51	09.00	
LOR	6.02	299	Pn	50	07.40	-1.4
			Sn	51	13.00	
SSF	6.16	297	Pn	50	09.10	-1.8
			Sn	51	16.80	
AVF	6.17	294	Pn	50	09.80	-1.2
BGF	6.44	291	Pn	50	12.70	-2.1X
			Sn	51	23.00	
TCF	6.80	288	Pn	50	18.70	-1.3

S.D. = 1.3 on 44 of 52 obs.

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* FEB 21, 1991 21h 59m 02.80± 0.57s
29.742 N ±10.8km 51.897 E ± 7.8km
DEPTH = 33.0km (normal)
4.5mb (3 obs.)
SOUTHERN IRAN (353)

RYD	6.87	224	iPc	00	45.00	1.2
AFIF	9.59	236	ePc	01	23.30	1.6
KMSA	11.49	217	iPc	01	45.80	-1.8
DHJN	14.27	214	iPd	02	24.10	-0.8
MLR	25.72	315	eP	04	31.00	-0.9
CVO	25.75	316	eP	04	32.20	0.2
GKN	28.67	85	P	04	59.06	0.1
DMN	29.16	86	P	05	03.74	0.2
KKN	29.27	86	P	05	04.38	-0.1
	0.4s	10.00nm			4.9mb	X
PKI	29.43	86	P	05	06.02	0.0
	0.5s	6.00nm			4.6mb	
GUN	29.77	85	P	05	09.40	0.3
	0.5s	7.00nm			4.7mb	
HFS	39.70	331	eP	06	28.70	-4.7X
	0.5s	1.90nm			4.1mb	

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

? FEB 21, 1991 23h 37m 31.82±22.04s
1.078 S ±42.1km 80.234 W ±177.km
DEPTH = 33.0km (normal)
NEAR COAST OF ECUADOR (105)

TUNG	1.82	101	eP	38	01.50	-0.2
GGP	1.87	61	P	38	02.80	0.2
VC1	1.88	77	P	38	03.00	0.3
YANA	1.92	60	Pn	38	02.30	-0.9
			Pg	38	04.50	
OUR	1.93	62	Pn	38	03.00	-0.3
			Pg	38	04.50	
COTA	2.36	53	eP	38	10.00	0.5
CAYA	2.53	63	eP	38	14.40	2.5X

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

% FEB 22, 1991 00h 58m 01.05± 0.73s
39.064 N ± 5.7km 27.180 E ± 8.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.9 (ISK).

IZM	0.67	174	iPg	58	14.30	-0.1
			iSg	58	24.30	
EZN	1.01	319	iPg	58	20.40	0.3
			iSg	58	34.50	
DST	1.25	64	iPn	58	24.50	0.3
EDC	1.39	22	iPn	58	26.50	0.1
KGT	1.39	4	iPn	58	26.50	0.1
BNT	1.41	24	iPn	58	26.60	-0.2
KCT	1.49	37	ePn	58	28.00	0.1
DMK	2.79	9	ePn	58	46.00	-0.6

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

FEB 22, 1991 01h 06m 53.88± 0.30s
44.004 N ± 2.4km 7.160 E ± 2.4km
DEPTH = 9.0 ± 4.0 km
NORTHERN ITALY (545)
ML 2.6 (LDG), 2.3 (GEN).

TOUF	0.06	81	Pg	06	56.24	0.0
MVIF	0.11	183	Pg	06	56.69	0.0
			Sg	06	58.81	
AURF	0.17	134	Pg	06	57.86	0.2
AUTN	0.19	92	Pg	06	58.34	0.1
			Sg	07	01.44	
SBF	0.24	125	Pg	06	59.14	0.1
			Sg	07	02.84	
STV	0.27	26	P	06	59.62	0.1
			S	07	03.20	
SAOF	0.29	93	Pg	06	59.81	0.0
ENR	0.29	40	P	06	59.97	0.0
			S	07	03.95	
REVF	0.30	150	Pg	07	00.44	0.3
			Sg	07	04.84	
CALN	0.32	218	Pg	07	00.68	0.2
			Sg	07	05.34	
PZZ	0.50	355	P	07	03.82	-0.3
			S	07	11.00	
IMI	0.53	100	P	07	04.33	-0.4
			S	07	11.64	
FRF	0.58	220	Pg	07	05.00	-0.6
			Sg	07	12.40	
ROB	0.59	60	P	07	05.46	-0.3
			S	07	13.05	
FIN	0.78	74	P	07	08.74	-0.5
			S	07	19.41	
LRG	0.80	227	Pg	07	09.20	-0.3
			Sg	07	19.40	
LMR	0.82	215	Pg	07	09.80	0.0
			Sg	07	20.00	
BHB	0.84	5	P	07	09.26	-1.0
			S	07	20.10	
CDR	1.06	252	e(Pg)	07	13.80	-0.2
			i	07	14.30	
			e(Sg)	07	20.70	
PCP	1.13	61	P	07	15.71	0.5
			S	07	29.84	
LPG	1.52	349	Pg	07	22.40	0.9
LPL	1.54	349	Pg	07	22.20	0.4

S.D. = 0.4 on 22 of 22 obs.

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* FEB 22, 1991 01h 10m 17.01± 0.65s
10.165 S ±16.9km 113.683 E ±21.9km
DEPTH = 33.0km (normal)
5.2mb (3 obs.)
SOUTH OF JAVA (282)

MBL	12.43	152	eP	13	08.00	-6.5X
			eS	15	14.00	
NANU	12.45	172	eP	13	12.70	-2.1
	0.3s	14.00nm			5.6mb	X
			eS	15	22.00	
IPM	19.33	319	ePc	14	42.80	0.2
WARB	20.11	144	eP	14	52.00	1.0
			eS	18	17.00	
WB2	22.18	118	eP	15	11.00	-1.1
NWAO	22.89	172	eP	15	32.00	13.1X
			eS	19	26.00	
ASPA	23.50	127	eP	15	27.50	2.5
	1.1s	6.00nm			4.0mb	X
			eS	19	40.30	
CHG	32.26	333	eP	16	45.50	0.6
GBA	43.03	303	P	18	18.00	2.5
HYB	44.23	308	eP	18	26.00	0.7
GUN	46.45	325	P	18	42.96	-0.2
	0.6s	40.00nm			5.5mb	X
PKI	46.45	325	P	18	42.68	-0.5
	0.8s	17.00nm			5.1mb	
DMN	46.65	324	P	18	44.42	-0.3
	0.7s	55.00nm			5.7mb	X
KKN	46.69	325	P	18	44.52	-0.4
	0.8s	27.00nm			5.3mb	
LZH	46.93	349	eP	18	44.50	-2.1
	1.0s	33.00nm			5.3mb	
			pP	48	48.80	
GKN	47.22	324	P	18	48.38	-0.7
	0.6s	35.00nm			5.5mb	X

S.D. = 1.5 on 14 of 16 obs.

? FEB 22, 1991 01h 20m 32.98±12.12s
31.223 S ±40.2km 70.174 W ±97.7km
DEPTH = 127.2 ± 56.5 km
CHILE-ARGENTINA BORDER REGION (127)

RTCB	1.20	103	ePc	20	58.00	-0.1
			S	21	19.00	
RTRS	1.22	31	iPc	20	58.10	0.0
ZON	1.32	105	eP	20	58.50	-0.8
			eS	21	25.50	
RTLL	1.46	95	ePd	21	01.20	0.3
			eS	21	28.00	
RTCV	1.54	115	eP	21	02.00	0.3
CFA	1.70	104	ePd	21	04.00	0.4
			eS	21	31.10	
TCA	4.78	93	ePd	21	44.00	-0.1

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

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* FEB 22, 1991 04h 11m 57.28± 0.84s
23.203 N ±24.5km 93.482 E ±19.8km
DEPTH = 33.0km (normal)
BURMA-INDIA BORDER REGION (294)

SHL	2.77	329	iP	12	40.50	0.1
			iS	13	15.00	
CHG	6.72	130	eP	13	36.20	0.0
GUN	8.31	306	P	13	58.40	-0.4
PKI	8.50	302	P	14	02.00	0.6
KKN	8.70	303	P	14	04.20	0.1
DMN	8.75	302	P	14	05.20	0.4
GKN	9.30	303	P	14	11.60	-0.7

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

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* FEB 22, 1991 04h 43m 46.60± 1.03s
41.285 N ±18.8km 25.305 E ± 6.9km
DEPTH = 10.0km (geophysicist)
GREECE-BULGARIA BORDER REGION (363)
MD 2.7 (ATH), 2.6 (THE).

RDO	0.22	128	iPgc	43	52.00	0.6
ALN	0.68	124	eP	43	59.50	-0.6
			eS	44	11.80	
SRS	1.30	263	eP	44	11.90	1.2
			eS	44	34.60	
PLG	1.68	238	ePn	44	20.80	4.6X
			eSn	44	45.30	
KNT	1.82	267	eP	44	18.80	0.6
			eS	44	47.40	
DMK	1.92	73	ePn	44	19.70	0.1
GRG	2.22	262	eP	44	22.10	-1.9

S.D. = 1.4 on 6 of 7 obs.

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* FEB 22, 1991 04h 45m 25.47± 0.54s
20.325 S ±18.9km 173.539 W ±10.8km
DEPTH = 40.1km (7 depth phases)
4.8mb (11 obs.)
TONGA ISLANDS (173)

DZM	18.75	261	iPd	49	41.60	-2.0
LTZ	25.38	205	eP	50	56.20	5.6X
CMS	38.01	245	eP	52	39.00	-2.6
ASPA	48.63	256	eP	54	04.20	-3.5X
	1.2s	11.10nm			4.8mb	
WB2	48.75	261	eP	54	05.20	-3.4X
			eS	55	28.50	
SPA	69.80	180	iPc	56	35.10	1.4
	1.0s	10.00nm			4.8mb	
			i	57	13.50	159kmX
PRS	74.86	41	eP	57	04.00	0.1
BCH	74.95	43	P	57	04.90	0.4
PCC	75.00	40	eP	57	04.40	-0.2
MHC	75.34	40	eP	57	07.20	0.4
ARN	75.42	40	P	57	07.10	0.0
MWC	75.68	45	eP	57	08.00	-0.8
PLM	75.96	46	eP	57	10.00	-0.5
ISA	76.28	43	eP	57	12.00	0.0
FRI	76.31	42	eP	57	11.90	-0.2
CMB	76.55	41	eP	57	13.00	-0.5
			epP	57	24.80	39km
WDC	76.93	37	eP	57	15.00	-0.5
			epP	57	28.00	44km
CLC	76.94	44	eP	57	15.00	-0.7
TPC	76.95	46	eP	57	16.00	0.2
GSC	77.15	45	eP	57	17.00	0.1
GLA	77.18	47	eP	57	17.00	-0.1
BONR	77.79	42	P	57	20.60	-0.1
TNP	78.54	42	P	57	24.80	0.1
	0.9s	9.57nm			4.8mb	
			pP	57	36.40	38km
KVN	78.59	41	P	57	24.30	-0.6
MSU	82.03	44	P	57	43.90	0.7
PV09	84.03	45	P	57	54.00	0.4
			pP	58	05.90	39km
ALQ	84.07	50	eP	57	54.00	0.2
	1.0s	11.00nm			4.9mb	
PNT	84.23	32	eP	57	54.00	0.0
NEW	84.84	34	P	57	55.90	-1.2
	0.9s	1.75nm			4.2mb	
BW06	86.02	42	P	58	03.00	-0.4
	1.0s	3.83nm			4.6mb	
			pP	58	15.00	39km
TIA	86.29	311	eP	58	05.40	0.9
GOL	87.16	46	P	58	09.10	0.1
	0.9s	2.65nm			4.5mb	
			pP	58	21.80	42km
FBA	87.23	11	P	58	06.20	-2.3
	1.0s	13.50nm			5.1mb	
BJI	88.75	314	eP	58	17.00	0.7
	1.2s	12.00nm			5.1mb	
SES	89.31	35	eP	58	19.00	0.2
RSSD	90.16	42	P	58	23.10	0.0
	1.0s	6.24nm			4.9mb	
			pP	58	35.00	38km
TIY	90.32	310	eP	58	27.00	3.2X
XAN	91.39	306	P	58	29.40	0.6
HHC	92.26	313	eP	58	34.00	1.3
CHG	94.14	288	eP	58	44.00	2.3
CHTO	94.14	288	eP	58	44.00	2.4
	1.0s	6.25nm			5.0mb	
KRA	148.46	343	ePKP	05	18.90	13.4X
KSP	148.57	348	ePKPc	05	10.00	4.3X
CLL	148.65	352	iPKPc	05	10.10	4.3X
	1.1s	14.00nm				
			e	05	21.00	
BRG	148.95	351	iPKP	05	10.60	4.3X
	1.5s	25.00nm				
			i	05	22.00	
SPC	149.16	342	ePKP	05	10.40	3.5X
			e	05	22.20	
MOX	149.47	354	ePKP	05	09.00	1.9X
PRU	149.71	350	ePKP	05	12.70	5.2X
			e	05	24.00	
BBTK	150.24	317	ePKP	05	07.00	-1.8X
DOU	150.26	2	PKP	05	25.90	17.6X
GRF	150.45	354	ePKP	05	15.00	6.4X
KHC	150.70	350	iPKPc	05	15.40	6.3X
	1.1s	6.00nm				
ZST	150.90	345	ePKP	05	23.00	13.7X
SRO	150.95	343	ePKP	05	23.40	14.0X
FLN	151.08	10	ePKP	05	01.70	-7.9X
	1.0s	20.00nm				
LDF	151.30	9	ePKP	05	15.20	5.3X
	0.9s	9.85nm				
GRR	151.39	10	ePKP	05	15.70	5.7X
	0.9s	14.75nm				
CDF	151.97	359	ePKP	05	17.20	6.1X
LFF	155.00	10	ePKP	05	16.30	1.1X
	0.9s	16.40nm				

S.D. = 1.1 on 37 of 59 obs.

% FEB 22, 1991 05h 55m 34.77± 0.87s
40.491 N ±10.6km 28.953 E ± 5.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.8 (ISK).

IZI	0.43	111	iPg	55	43.50	0.0
			eSg	55	49.00	
KCT	0.52	242	ePg	55	45.00	-0.2
HRT	0.64	58	ePg	55	47.50	-0.1
BNT	0.80	261	ePg	55	50.50	0.2
			eSg	56	03.50	
DST	0.92	196	ePg	55	52.40	0.0

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

FEB 22, 1991 07h 08m 48.16± 0.55s
37.708 N ± 5.2km 29.188 E ± 6.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.9 (ATH), 3.6 (ISK).

KHL	0.67	23	iPg	09	01.50	0.0
			iSg	09	13.60	
YER	0.92	232	iPg	09	04.80	-1.0
BCK	1.14	102	iPn	09	08.60	-1.0
ALT	1.53	28	iPn	09	15.50	-0.1
KSL	1.62	169	ePn	09	17.50	0.7
IZM	1.67	295	iPn	09	17.50	-0.1
SMG	1.86	271	ePn	09	19.20	-1.2
DST	1.94	347	ePn	09	21.50	-0.1
KAP	2.69	218	ePn	09	33.80	1.5
EDC	2.83	339	ePn	09	35.00	0.8
ISK	3.35	358	ePn	09	42.00	0.4

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

? FEB 22, 1991 07h 59m 22.88±14.80s
18.665 N ±72.0km 65.578 W ±98.5km
DEPTH = 33.0km (normal)
PUERTO RICO REGION (90)

LPR	0.45	218	iP	59	32.30	-0.5
CPD	0.70	207	iP	59	36.60	0.3
SJG	0.77	225	iP	59	37.00	-0.4
PORP	1.18	239	iP	59	43.10	0.0
MCP	1.47	261	iP	59	47.00	-0.4
MGP	1.58	246	iP	59	49.60	0.7

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

& FEB 22, 1991 08h 15m 39.87s
61.438 N 147.289 W
DEPTH = 19.9km
SOUTHERN ALASKA (2)
<AEIC>.

VZW	0.52	137	iP	15	49.56	-0.7
			eS	15	57.92	
VLZ	0.56	123	iP	15	49.86	-0.9
			eS	15	58.13	
KNK	0.56	268	iP	15	50.39	-0.6
			eS	15	58.38	
GLI	0.57	170	iP	15	50.28	-0.8
			eS	15	59.04	
KLU	0.66	85	iP	15	51.72	-0.9
			eS	16	00.81	
GHO	0.85	294	iP	15	54.50	-1.4
			eS	16	06.47	
TOA	0.85	38	eP	15	55.46	-0.5
PLRM	0.90	281	iP	15	55.16	-1.4
			iS	16	06.90	
TZL	1.08	55	iP	15	58.84	-0.9
PMS	1.11	261	eP	15	58.76	-1.5
HIN	1.11	159	iP	15	59.28	-1.0
KNIM	1.11	192	eP	15	58.21	-2.1
CVA	1.17	139	eP	16	00.01	-1.0
PWA	1.26	281	eP	16	00.76	-1.6
SDG	1.37	36	iP	16	02.99	-1.0
			S	16	20.56	
SGAM	1.38	132	eP	16	02.86	-1.3
MTU	1.47	187	iP	16	04.63	-0.7
RAGM	1.66	128	eP	16	08.04	-0.1
SUA	1.66	272	eP	16	07.19	-1.0
			eS	16	28.83	
GLB	1.67	88	eP	16	07.05	-1.3
SLKM	1.71	238	eP	16	07.89	-1.0
SEW	1.71	219	eP	16	07.91	-0.9
CUT	1.71	306	iP	16	07.87	-1.0
PAX	1.76	28	eP	16	08.83	-0.8
HMT	1.85	125	eP	16	09.74	-1.1
HUR	1.90	326	eP	16	10.66	-0.9
NKA	2.04	252	eP	16	14.00	0.4
SKT	2.09	287	eP	16	12.90	-1.5
RND	2.11	340	eP	16	14.17	-0.5
TGL	2.27	106	eP	16	15.82	-1.2
SPU	2.31	266	eP	16	15.79	-1.8
NCG	2.34	271	eP	16	16.42	-1.6
CRP	2.35	268	eP	16	17.14	-1.1
WAX	2.38	113	eP	16	17.16	-1.4
NNL	2.42	236	eP	16	18.29	-0.7
BALM	2.42	97	eP	16	17.43	-1.8
MCK	2.43	342	eP	16	19.21	0.1
BRLK	2.44	228	eP	16	17.93	-1.5
CKL	2.45	267	eP	16	17.72	-1.8
DDM	2.45	15	eP	16	20.41	0.9
TRF	2.45	327	eP	16	18.72	-1.0
BGL	2.46	268	eP	16	17.99	-1.8
RDT	2.64	253	eP	16	20.05	-2.2
CNPM	2.74	227	eP	16	22.38	-1.2
REF	2.81	253	eP	16	23.10	-1.6
RDN	2.83	253	eP	16	22.50	-2.4
RSO	2.84	252	eP	16	22.95	-2.2
RED	2.87	252	eP	16	23.30	-2.1
NCT	2.88	255	eP	16	23.49	-2.2
BWN	2.92	341	eP	16	25.12	-1.0
CTGM	2.92	97	eP	16	25.72	-0.6
HDA	2.98	3	eP	16	27.09	0.1
WRH	3.07	354	eP	16	27.11	-1.1
CCB	3.23	356	eP	16	29.61	-0.9
RDS	3.42	354	eP	16	31.85	-1.4
MDM	3.56	354	eP	16	33.70	-1.6

56 obs. associated

* FEB 22, 1991 08h 17m 03.02± 1.42s
17.011 N ±10.4km 91.211 W ±15.1km
DEPTH = 33.0km (normal)
3.6mb (1 obs.)
MEXICO-GUATEMALA BORDER REGION (62)

SCX	1.39	259	iP	17	26.56	0.3
			iS	17	45.79	
TPX	2.32	206	iP	17	39.65	-0.1
			iS	18	05.75	
OXX	5.27	272	iP	18	21.23	-0.6
			iS	19	19.78	
IISM	6.19	289	(P)	18	33.05	-1.5
IIT	7.04	288	(P)	19	10.00	23.2X
PPM	7.34	287	(P)	18	52.79	1.6
MEO	18.89	341	eP	21	22.50	-0.8
ALQ	22.46	326	eP	22	02.20	1.3
	0.9s	2.10nm			3.6mb	
LRM	33.75	333	eP	23	43.90	0.0
INK	57.79	343	eP	26	53.00	-0.1

S.D. = 1.1 on 9 of 10 obs.

* FEB 22, 1991 08h 20m 30.27± 1.32s
45.305 N ± 8.9km 11.400 E ±26.9km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.4 (KBA).

CTI	0.76	13	P	20	45.20	-0.1
			eSg	20	54.40	
SFI	1.42	167	P	20	56.10	0.0
			eSg	21	14.00	
OGA	1.58	351	eP	20	59.50	0.9
FVI	1.61	36	P	20	58.50	-0.2
			eSg	21	19.60	
SCE	1.75	7	eP	21	02.30	1.3
SOTA	1.92	356	iPgc	21	01.50	-1.9
			i	21	04.50	
			iSg	21	28.90	
			i	21	30.90	
KBA	2.23	37	e(Pg)	21	12.50	4.5X
			iSg	21	41.00	

22d 08h

S.D. = 1.4 on 6 of 7 obs.

% FEB 22, 1991 08h 59m 44.40± 1.76s
41.200 N ±14.9km 23.418 E ± 7.6km
DEPTH = 10.0km (geophysicist)
GREECE-BULGARIA BORDER REGION (363)
MD 2.0 (THE).

SRS	0.16	122	eP	59 48.00	0.0
			eS	59 51.40	
SOH	0.38	187	eP	59 52.50	0.3
KNT	0.39	265	iPd	59 52.16	-0.3
			eS	59 56.76	
THE	0.66	211	ePc	59 57.08	-0.5
			eS	00 06.00	
GRG	0.81	253	iPc	00 00.64	0.6
			eS	00 11.00	

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

& FEB 22, 1991 09h 41m 17.88s
61.133 N 150.261 W
DEPTH = 33.5km
SOUTHERN ALASKA (2)
<AEIC>.

PMS	0.36	71	iP	41 26.37	-0.1
SUA	0.41	325	iP	41 26.96	-0.3
			eS	41 34.90	
PWA	0.55	19	iP	41 28.57	-0.6
			eS	41 36.99	
NKA	0.62	231	iP	41 31.16	1.1
SLKM	0.63	178	eP	41 29.42	-0.9
			S	41 38.83	
PLRM	0.71	49	iP	41 30.35	-1.1
			eS	41 40.78	
PMR	0.71	49	iP	41 30.40	-1.1
SPU	0.87	274	iP	41 32.79	-1.0
			eS	41 44.97	
GHO	0.91	44	iP	41 33.41	-0.9
			eS	41 46.04	
KNK	0.92	71	iP	41 33.50	-0.9
			eS	41 46.49	
CRP	0.93	279	eP	41 34.08	-0.6
NCG	0.96	287	iP	41 34.42	-0.7
			S	41 47.77	
CKL	1.01	275	iP	41 35.01	-0.8
BGL	1.04	278	iP	41 35.57	-0.7
SKT	1.05	325	iP	41 35.61	-0.7
SEW	1.11	158	eP	41 36.05	-1.1
RDT	1.19	243	iP	41 37.50	-0.9
NNL	1.21	205	eP	41 39.05	0.5
CUT	1.28	360	eP	41 39.03	-0.5
REF	1.36	243	eP	41 40.13	-0.8
RDN	1.37	244	eP	41 40.00	-1.1
RSO	1.40	242	eP	41 40.67	-0.8
RS2	1.40	242	eP	41 40.64	-0.8
BRLK	1.41	193	eP	41 40.56	-0.9
			eS	41 59.04	
RED	1.43	241	eP	41 40.89	-0.9
			eS	41 59.61	
NCT	1.43	247	eP	41 41.01	-0.8
KNIM	1.47	121	eP	41 40.07	-2.3
GLI	1.56	98	eP	41 41.62	-2.1
HOM	1.63	205	eP	41 44.44	-0.2
CNPM	1.68	197	eP	41 44.54	-0.9
MTU	1.73	131	eP	41 46.24	0.2
VZW	1.80	91	eP	41 45.38	-1.8
HUR	1.87	9	eP	41 48.46	0.2
VLZ	1.91	88	eP	41 46.95	-1.7
KLU	2.13	78	iP	41 49.97	-1.9
TOA	2.18	62	eP	41 51.50	-1.1
PDB	2.37	237	eP	41 53.80	-1.4
TZL	2.49	66	eP	41 55.88	-1.0
SVW	2.60	272	eP	41 56.70	-1.8
SDG	2.64	56	eP	41 58.24	-0.8
SYI	2.75	204	eP	41 59.44	-1.1
CDD	2.79	219	eP	42 00.46	-0.7
PAX	2.91	49	eP	42 02.18	-0.9
GLB	3.13	81	eP	42 03.58	-2.5
TTA	3.25	306	eP	42 06.10	-1.8
TGL	3.65	93	eP	42 10.58	-2.8
CCB	3.70	17	eP	42 12.26	-1.8
BALM	3.85	88	eP	42 14.00	-2.3
FBA	3.95	15	eP	42 16.40	-1.2
MDM	3.95	13	eP	42 16.95	-0.7
IMA	5.18	344	eP	42 32.50	-2.8

51 obs. ossociated

? FEB 22, 1991 11h 26m 14.58± 1.31s
41.095 N ±23.6km 28.489 E ±22.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.4 (ISK).

YLV	0.85	128	ePg	26 31.20	0.1
			eS	26 44.30	
DMK	0.91	323	iPg	26 32.00	0.0
HRT	0.93	107	ePg	26 32.40	0.0
			eSg	26 46.90	
IZI	1.06	135	iPg	26 34.60	-0.1

S.D. = 0.1 on 4 of 4 obs.

% FEB 22, 1991 11h 47m 34.08± 1.63s
42.227 N ± 7.1km 13.832 E ±14.0km
DEPTH = 5.0km (geophysicist)
CENTRAL ITALY (381)

AQU	0.34	292	P	47 39.70	-1.3
			eSg	47 45.60	
AZI	0.38	231	P	47 42.00	0.3
			eSg	47 47.00	
SDI	0.52	181	P	47 44.20	-0.3
			eSg	47 52.80	
MNS	0.87	281	P	47 52.30	1.0
			eSg	48 03.00	
ASS	1.21	315	P	47 57.10	0.0
			eSg	48 12.00	
ARV	1.43	333	P	48 01.00	0.3
			eSg	48 20.00	

S.D. = 1.0 on 6 of 6 obs.

FEB 22, 1991 12h 27m 31.05± 0.23s
37.292 N ± 3.9km 138.438 E ± 4.1km
DEPTH = 10.0km (geophysicist)
4.7mb (20 obs.) 4.0Msz (1 obs.)
NEAR WEST COAST OF HONSHU, JAPAN(226)

NIIJ	0.45	96	P	27 39.60	-0.7
			S	27 44.80	
MAT	0.77	194	iPc	27 45.50	-0.6
			iS	27 55.30	
MTMJ	0.87	216	P	27 49.00	1.2
			S	28 01.40	
CHJJ	1.32	160	P	27 54.20	-1.2
			S	28 12.70	
YAMJ	1.54	55	iP+	27 59.30	0.7
			S	28 19.80	
KAKJ	1.77	127	P	28 01.00	-0.8
			S	28 23.40	
IIDJ	1.86	193	P	28 04.00	0.8
			S	28 28.80	
TSRJ	2.64	229	eP	28 17.20	2.7X
OFUJ	3.11	54	iP+	28 21.80	0.8
AOMJ	3.60	24	P	28 29.80	1.9
			S	29 14.20	
WKYJ	3.84	218	eP	28 32.50	1.0
			S	29 33.40	
YONJ	4.54	244	P	28 43.10	1.8
TKSJ	4.87	229	P	28 49.50	3.5X
HOOJ	6.31	35	eP	29 09.40	3.1X
KUSJ	7.53	38	eP	29 21.90	-1.5
ASAJ	7.53	24	eP	29 26.20	2.8X
CN2	11.82	307	eP	30 29.50	6.9X
SNY	12.33	296	eP	30 40.20	10.8X
	Z 13s		0.50um		
	N 10s		0.50um		
SSE	15.55	252	Pd	31 20.50	8.7X
	1.0s		25.00nm	4.4mb	
	Z 20s		0.50um	4.3Msz	
	N 12s		0.30um		
TIA	17.12	273	eP	31 38.00	6.1X
BJI	17.60	286	eP	31 41.00	3.2X
	1.0s		18.00nm	4.2mb	
TIY	20.62	279	eP	32 16.00	2.9X
	Z 14s		0.50um	4.0MszX	
HHC	21.13	288	eP	32 23.80	5.4X
LZH	27.68	278	eP	33 06.00	-15.3X
	2.0s		25.00nm		
	Z 18s		0.39um	4.0Msz	
GYA	28.94	257	P	33 31.60	-1.1
GUN	44.77	274	P	35 47.40	0.4
PKI	45.29	274	P	35 50.60	-0.6
KKN	45.30	274	P	35 50.80	-0.3
DMN	45.51	274	P	35 52.00	-0.8
GKN	45.71	275	P	35 53.80	-0.5
SVW	46.74	38	eP	36 04.00	2.1
	1.0s		15.00nm		5.0mb
FBA	50.15	32	eP	36 28.50	0.3
INK	55.24	27	eP	37 05.50	-0.6
MBC	56.95	16	eP	37 18.00	-0.3
WB2	57.06	185	iPc	37 16.60	-3.0X
WRA	57.06	185	P	37 21.00	1.4
	0.9s		4.80nm		4.5mb
GBA	58.87	263	Pd	37 30.30	-2.2
	0.6s		2.10nm		4.4mb
KEV	62.35	339	eP	37 50.00	-5.5X
SOD	63.79	336	iP	38 04.80	-0.3
DAG	65.31	354	iPd	38 13.80	-1.0
	0.9s		6.72nm		4.8mb
KAF	66.97	332	iP	38 24.50	-1.1
	0.6s		7.70nm		5.1mb
NUR	68.59	331	eP	38 35.00	-0.7
	0.6s		5.40nm		4.9mb
PNT	69.63	43	eP	38 42.00	-0.4
NEW	71.58	43	eP	38 54.50	0.2
	1.0s		3.00nm		4.4mb
HFS	72.85	335	eP	39 00.50	-1.0
	0.4s		1.30nm		4.4mb
NB2	73.01	336	P	39 02.00	-0.5
	0.7s		5.30nm		4.7mb
FFC	74.75	32	eP	39 13.00	0.4
	1.0s		15.00nm		5.0mb
LRM	75.60	43	eP	39 18.00	0.0
			e	39 22.80	
CMB	75.64	53	eP	39 18.00	-0.1
FRI	76.69	54	e(P)	39 24.00	0.1
FRB	77.04	12	eP	39 25.00	-0.4
TNP	77.61	52	iP	39 30.00	0.7
	0.8s		1.62nm		4.2mb
KSP	78.61	327	eP	39 35.00	0.7
BW06	79.15	44	eP	39 38.50	0.8
	0.9s		3.18nm		4.3mb
PRU	80.00	327	eP	39 42.80	1.0
KHC	81.06	327	eP	39 48.80	1.3
OHR	83.36	318	eP	40 00.50	0.8
CDF	84.25	330	eP	40 04.20	0.1
	0.8s		6.70nm		4.9mb
HAU	84.95	330	eP	40 07.10	-0.4
ALQ	86.22	48	eP	40 14.60	0.3
	1.0s		2.50nm		4.4mb
LOR	86.53	331	eP	40 15.00	-0.4
	0.9s		6.55nm		4.8mb
LBF	86.72	331	eP	40 15.90	-0.4
	1.0s		6.00nm		4.8mb
SSF	86.84	331	eP	40 16.50	-0.3
	1.0s		7.00nm		4.8mb
AVF	87.12	331	eP	40 17.90	-0.3
	0.8s		8.05nm		5.0mb
ZOBO	148.55	55	PKP	47 20.20	3.1X
LPB	148.76	56	PKP	47 21.20	4.0X
	0.8s		25.37nm		
SIV	152.64	44	PKP	47 28.60	6.1X

S.D. = 0.9 on 50 of 67 obs.

FEB 22, 1991 13h 03m 51.31± 0.68s
41.104 N ± 6.4km 28.691 E ± 4.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.8 (ISK).

ISK	0.28	98	iPg	03 57.20	0.0
			eSg	04 01.70	
YLV	0.75	136	ePg	04 05.70	-0.3
HRT	0.79	111	iPg	04 06.70	0.0
			eSg	04 18.50	
KCT	0.89	197	ePg	04 08.20	-0.2
BNT	0.95	218	ePg	04 09.50	0.1
IZI	0.97	142	iPg	04 10.20	0.4
EDC	0.98	220	ePg	04 10.00	0.0
DMK	1.00	316	iPn	04 10.30	0.0

S.D. = 0.2 on 8 of 8 obs.

& FEB 22, 1991 13h 30m 09.45s
61.542 N 152.061 W
DEPTH = 117.5km
SOUTHERN ALASKA (2)
<AEIC>.

NCG	0.15	198	iP	30 25.37	1.0
			eS	30 38.50	
CRP	0.28	189	eP	30 25.83	1.0

BGL	0.32	210	iP	30	25.87	1.0
SPU	0.36	179	iP	30	25.79	-0.9
			eS	30	40.02	
CKL	0.37	201	iP	30	25.95	-0.9
SKT	0.51	30	iP	30	26.55	-0.9
			eS	30	40.74	
SUA	0.64	96	eP	30	28.39	-0.1
			eS	30	42.90	
NKA	0.90	153	iP	30	31.65	1.2
RDT	0.99	190	iP	30	30.48	-1.0
PWA	1.05	83	eP	30	31.60	-0.4
NCT	1.07	204	iP	30	31.59	-0.8
RDN	1.09	199	iP	30	31.61	-1.0
REF	1.10	197	iP	30	31.88	-0.9
RS2	1.13	198	iP	30	32.33	-0.9
RSO	1.14	198	iP	30	32.26	-0.9
RED	1.18	197	eP	30	32.54	-1.0
CUT	1.21	44	iP	30	32.90	-0.9
PMS	1.24	103	iP	30	33.72	-0.4
SLKM	1.37	138	eP	30	34.52	-1.1
PLRM	1.40	87	iP	30	34.55	-1.4
PMR	1.40	87	iPd	30	35.00	-0.9
GHO	1.51	80	eP	30	36.14	-1.2
NNL	1.55	166	eP	30	37.45	-0.2
KNK	1.74	93	eP	30	38.70	-1.3
SVW	1.77	257	ePd	30	38.40	-2.0
HUR	1.83	37	eP	30	39.55	-1.6
			eS	31	03.67	
BRLK	1.88	162	eP	30	40.14	-1.6
HOM	1.90	174	eP	30	41.12	-0.9
SEW	1.93	137	eP	30	41.20	-1.1
PDB	2.05	212	eP	30	42.60	-1.3
CNPM	2.06	168	eP	30	42.35	-1.7
			eS	31	08.71	
AUH	2.29	198	eP	30	45.99	-1.1
TTA	2.32	309	ePc	30	44.80	-2.6
RND	2.39	37	eP	30	46.39	-2.0
KNIM	2.43	118	iP	30	46.06	-2.7
GLI	2.49	103	iP	30	47.34	-2.3
MCK	2.63	32	eP	30	49.54	-1.9
MTU	2.67	124	eP	30	49.96	-2.0
VZW	2.70	98	eP	30	50.53	-1.9
CDD	2.74	197	eP	30	51.15	-1.7
VLZ	2.79	96	eP	30	51.83	-1.7
TOA	2.85	76	iPd	30	54.10	-0.3
BWN	2.90	23	eP	30	52.65	-2.3
KLU	2.94	88	eP	30	53.63	-2.0
SYI	2.95	183	eP	30	53.58	-2.0
TZL	3.19	78	eP	30	57.64	-1.3
SDG	3.23	69	eP	30	58.29	-1.1
NEA	3.34	23	eP	30	57.61	-3.2
PAX	3.40	62	eP	31	00.37	-1.4
WRH	3.45	30	eP	30	59.54	-2.9
DDM	3.64	49	eP	31	04.51	-0.5
CCB	3.67	30	eP	31	02.29	-3.0
HDA	3.70	37	eP	31	03.01	-2.8
RDS	3.74	27	eP	31	03.43	-2.9
MDM	3.84	25	eP	31	04.66	-3.1
FBA	3.88	28	ePd	31	05.70	-2.5
GLB	3.96	88	eP	31	07.66	-1.6
GLM	4.05	29	eP	31	07.67	-2.9
TGL	4.54	96	eP	31	16.51	-0.8
IMA	4.60	352	eP	31	15.30	-2.8
BALM	4.71	92	eP	31	17.81	-1.9
CTGM	5.21	92	eP	31	25.60	-0.9

62 obs. ossociated

FEB 22, 1991 13h 35m 32.99± 0.62s
43.451 N ± 5.7km 5.568 E ± 4.6km
DEPTH = 10.0km (geophysicist)
NEAR SDUTH COAST OF FRANCE (379)
ML 2.9 (LDG). MD 2.5 (STR).

GELF	0.12	237	Pg	35	35.36	-0.7
BERF	0.16	147	Pg	35	38.21	1.4
TREF	0.22	322	Pg	35	38.08	0.3
CDR	0.27	33	ePg	35	37.70	-0.9
			iSg	35	41.70	
PRAF	0.46	321	Pg	35	42.42	0.1
CALN	1.01	72	Pg	35	52.49	0.3
MVIF	1.23	68	Pn	35	56.07	0.0
REVF	1.34	77	Pn	35	58.08	0.4
			Sg	36	17.97	
TOUF	1.34	65	Pn	35	58.06	0.2
			Sg	36	18.41	
AURF	1.35	71	Pn	35	57.76	-0.1
FOUF	1.39	39	e(Pg)c	35	59.70	1.4
			e(Sg)	36	17.48	
AUTN	1.45	67	Pn	35	59.45	-0.1
			Sg	36	21.42	
SAOF	1.54	69	Pn	35	59.88	-0.6
PGF	2.67	109	Pn	36	15.22	-1.7

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

FEB 22, 1991 14h 09m 59.03± 1.41s
0.530 N ± 4.2km 126.654 E ± 6.4km
DEPTH = 120.5 ± 14.1 km
4.9mb (16 obs.)
MOLUCCA PASSAGE (266)

MKS	9.17	231	iPd	12	09.60	-0.2
TSM	9.33	293	ePd	12	13.00	1.1
	0.2s	225.30nm			6.6mb	X
MTN	14.01	162	eP	13	09.50	-4.0X
	0.3s	73.00nm			5.4mb	
KNA	16.31	173	eP	13	41.10	-1.3
WB2	21.70	160	iPc	14	40.90	-0.6
OIS	24.49	150	iPc	15	08.50	-0.1
	0.2s	28.00nm			5.4mb	
QIZ	24.70	319	eP	15	09.00	-1.5
ASPA	25.06	164	iPc	15	13.90	0.0
	0.5s	317.60nm			6.1mb	X
			eS	19	31.80	
			iScP	21	11.60	
NANU	25.38	205	eP	15	18.00	1.2
	0.5s	13.00nm			4.7mb	
IPM	25.91	279	ePc	15	22.10	0.3
WARB	26.56	180	eP	15	28.00	0.4
NNT	29.26	295	eP	15	47.00	-5.0X
MRWA	31.29	198	eP	16	09.50	-0.2
QLP	31.84	149	iPc	16	14.00	-0.6
WHN	32.06	340	eP	16	19.00	2.6X
CHG	32.70	305	eP	16	21.90	-0.3
CHTO	32.70	305	eP	16	21.90	-0.3
	1.0s	7.50nm			4.4mb	
KLB	33.04	194	eP	16	25.00	0.0
	0.4s	11.00nm			5.0mb	
RMO	34.28	143	eP	16	34.00	-1.8
NWAO	34.44	194	eP	16	37.00	0.0
	0.4s	5.00nm			4.7mb	
TIA	36.59	347	eP	16	55.50	0.4
ADE	37.07	163	eP	17	00.00	0.8
CD2	37.21	326	eP	17	00.00	-0.4
XAN	37.25	335	P	17	00.80	0.1
MAT	37.40	15	iPc	17	00.10	-1.8
	0.6s	18.00nm			5.1mb	
BRS	37.43	140	iPd	17	01.00	-1.3
COO	39.16	144	eP	17	18.00	1.3
TIY	39.25	342	Pc	17	18.20	0.7
YAMJ	39.43	17	eP	17	18.80	0.0
BFD	40.30	160	iPd	17	27.60	1.7
BJI	40.47	348	eP	17	28.00	0.8
	1.5s	39.00nm			5.0mb	
OFUJ	40.76	18	P	17	29.70	0.1
SNY	41.20	357	iPc	17	33.40	0.2
	0.6s	40.00nm			5.3mb	
LZH	41.23	332	eP	17	34.50	0.7
	1.2s	16.00nm			4.6mb	
			pP	17	51.00	66kmX
TOO	41.72	157	eP	17	39.00	1.4
HHC	42.40	343	eP	17	45.00	1.7
CN2	43.10	359	eP	17	47.60	-1.1
MDJ	43.97	3	eP	17	55.50	-0.3
DZM	44.82	123	iPd	18	03.90	0.9
GTA	45.81	331	iPc	18	11.50	0.9
	1.2s	10.00nm			4.4mb	
			PcP	19	48.50	
GUN	47.59	308	P	18	25.00	-0.1
	0.4s	12.00nm			5.0mb	
PKI	47.80	308	P	18	26.40	-0.4
KKN	48.01	308	P	18	27.80	-0.4
DMN	48.06	308	P	18	28.60	0.0
GKN	48.61	308	P	18	32.20	-0.5
	0.4s	8.00nm			4.9mb	
KOD	49.84	283	eP	18	41.60	-0.9
HYB	50.19	292	ePd	18	44.00	-0.8
	0.8s	19.20nm			5.1mb	
GBA	50.42	287	P	18	45.80	-0.7
WMO	55.31	326	iPc	19	23.50	1.1
WLZ	59.04	136	P	19	49.50	0.8
KHZ	60.01	141	P	19	54.50	-0.7
NOZ	61.11	136	P	20	02.40	-0.3
MBC	95.07	13	eP	23	10.00	1.0
	0.6s	3.00nm			4.9mb	
NB2	101.60	333	Pdiff	23	38.40	-0.3
	0.8s	2.50nm			5.0mb	
SIV	162.85	154	ePKP	29	48.00	-0.6
			i	30	40.30	

S.D. = 0.9 on 52 of 55 obs.

FEB 22, 1991 15h 51m 33.70± 0.41s
10.675 S ± 9.9km 163.151 E ± 7.0km
DEPTH = 33.0km (normal)
5.1mb (7 obs.) 4.9Msz (4 obs.)
SOLOMON ISLANDS (193)

HNR	3.39	291	iP	52	25.00	-0.6
			iS	53	07.00	
SVO	3.62	294	eP	52	29.00	0.2
			eS	53	12.00	
CTA	18.77	238	iPc	55	53.90	1.2
	1.1s	123.42nm			5.0mb	
			iS	59	27.00	
RMO	20.79	219	iPd	56	15.50	0.8
CMS	26.20	215	eP	57	08.00	0.8
WB2	29.22	248	eP	57	31.00	-3.9X
ASPA	30.71	241	iPc	57	46.00	-2.1
	1.3s	13.80nm			4.6mb	
WARB	37.75	241	eP	58	47.00	-1.6
BAG	49.98	302	eP	00	25.00	-2.3
CN2	64.14	331	eP	02	11.50	4.4X
Z	20s	1.20um			5.1Msz	
TIY	67.58	318	eP	02	29.60	0.2
Z	18s	0.60um			4.9Msz	
E	12s	0.30um				
XAN	68.00	313	eP	02	32.00	-0.1
KMI	68.76	302	Pd	02	38.00	0.8
	2.5s	140.00nm			5.6mb	
CHG	69.75	295	eP	02	43.00	-0.1
CHTO	69.75	295	eP	02	43.00	-0.1
	1.5s	23.65nm			5.0mb	
HHC	69.92	321	eP	02	44.60	0.8
Z	18s	0.60um			4.9Msz	
CD2	70.36	308	eP	02	46.70	0.0
LZH	72.63	313	Pd	03	01.50	1.2
	2.0s	42.00nm			5.1mb	
Z	20s	0.39um			4.7Msz	
			pP	03	07.50	19kmX
			sP	03	10.50	
GTA	76.98	315	eP	03	26.40	1.3
	2.5s	100.00nm			5.4mb	
Z	24s	0.30um			4.5MszX	
SVW	78.57	19	eP	03	23.40	-10.0X
LSA	80.01	303	eP	03	43.00	0.7
PMR	81.10	21	eP	03	50.10	3.3X
IMA	82.85	16	eP	03	55.40	-0.7
FBA	83.78	19	eP	04	03.40	2.8X
GUN	83.92	300	P	04	02.00	-0.6
PKI	84.23	299	P	04	04.40	0.3
PCC	84.39	50	eP	04	11.80	7.6X
KKN	84.40	300	P	04	05.40	0.6
DMN	84.50	299	P	04	06.20	0.8
GKN	85.00	300	P	04	06.40	-1.3
WDC	85.23	47	ePc	04	09.40	1.0
ORV	85.67	49	eP	04	12.00	1.4
CMB	86.06	50	eP	04	12.50	-0.1
FRI	86.28	51	eP	04	14.50	0.8
WMO	87.04	315	P	04	18.00	0.7
			PP	07	42.00	
PLM	87.57	56	eP	04	20.00	-0.3
CLC	87.61	53	eP	04	20.00	-0.2
GSC	88.10	54	eP	04	20.00	-2.6
TPC	88.41	55	eP	04	23.00	-1.1
TNP	88.48	51	eP	04	24.50	-0.1
	1.3s	7.65nm			4.9mb	
GLA	89.16	56	eP	04	28.00	0.3
BCAO	144.40	263	iPKPc	11	06.10	-3.2X
	1.0s	30.00nm				
			i	11	25.20	

S.D. = 1.1 on 35 of 42 obs.

? FEB 22, 1991 16h 19m 04.15± 6.98s
51.167 N ±33.0km 15.736 E ±49.6km
DEPTH = 10.0km (geophysicist)
POLAND (548)

BRG	1.17	256	iPg	19	26.40	0.4
PRU	1.40	213	Pn	19	30.00	0.2
			ePg	19	31.70	
			e	19	34.00	
			Sn	19	49.00	

22d 16h

		Sg	19 54.50		
CLL	1.72	276 e(Pg)	19 35.00	0.7	
		eSg	19 59.00		
KHC	2.47	215 ePn	19 45.00	-0.1	
		Pg	19 50.60		
		e	20 19.00		
		Sg	20 29.00		
MOX	2.66	260 ePn	19 46.50	-1.3	
		ePg	19 54.00		
		iSg	20 35.00		

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

FEB 22, 1991 16h 53m 59.69± 0.45s
46.865 N ± 5.2km 9.862 E ± 3.9km
DEPTH = 10.0km (geophysicist)
SWITZERLAND (544)
ML 2.8 (FUR), 2.8 (KBA).

OSS	0.26	132 iPd	54 03.40	-1.9	
VDL	0.46	216 iPc	54 07.00	-2.2	
SAX	0.52	318 ePc	54 09.80	-0.6	
LLS	0.59	271 ePc	54 09.70	-2.1	
OGA	0.80	89 iPgc	54 13.50	-1.8	
		iSg	54 23.80		
ZLA	1.18	302 eP	54 21.90	0.2	
SCE	1.28	81 iPgd	54 22.60	-0.9	
SLE	1.30	315 eP	54 24.10	0.4	
CTI	1.48	123 P	54 28.00	1.5	
		eSn	54 45.90		
MMK	1.54	239 ePd	54 26.60	-0.9	
FEL	1.61	310 ePn	54 28.39	0.0	
FUR	1.62	36 eP	54 30.40	2.1	
FVI	2.03	97 P	54 35.90	1.7	
		eSn	55 03.50		
BSF	2.30	296 Pg	54 45.00	6.6X	
		Sn	55 04.40		
CDF	2.34	312 Pn	54 32.60	-6.2X	
		Pg	54 46.50		
KBA	2.39	84 iPgd	54 44.30	4.6X	
		iSg	55 16.40		
RSL	2.53	244 Pn	54 43.99	2.3	
LPG	2.56	239 Pn	54 43.50	1.4	
LPL	2.56	239 Pn	54 43.50	1.4	
HAU	2.64	297 Pn	54 42.70	-0.5	
		Sg	55 23.00		
TRI	2.94	112 eP	55 32.70	45.4X	
GRF	2.97	17 e(Pg)	54 56.00	8.3X	
		eSg	55 35.60		
KHC	3.37	46 Pn	54 53.00	-0.5	
		Pg	55 03.90		
		Sn	55 32.80		
		Sg	55 45.40		
SBF	3.45	211 Pn	54 54.80	0.1	
FRF	4.01	216 Pn	55 03.00	0.5	
LBF	4.03	274 Pn	55 02.50	-0.4	
		Sg	56 05.60		
LOR	4.12	278 Pn	55 03.20	-0.9	
		Sg	56 08.40		
SMF	4.14	269 Pn	55 04.50	0.1	
		Sg	56 08.40		
LRG	4.21	217 Pn	55 05.60	0.2	
LMR	4.25	215 Pn	55 07.20	1.3	
AVF	4.47	271 Pn	55 09.20	0.2	
BGF	4.84	269 Pn	55 13.60	-0.6	

S.D. = 1.3 on 27 of 32 obs.

? FEB 22, 1991 17h 36m 19.17± 3.32s
10.598 S ±11.3km 162.519 E ±28.3km
DEPTH = 84.3 ± 20.9 km
5.0mb (4 obs.)
SOLOMON ISLANDS (193)

HNR	2.79	294 iP	37 02.90	0.4	
		iS	37 43.00		
SVO	3.03	298 eP	37 05.00	-0.8	
		eS	37 46.00		
CTA	18.29	237 iPd	40 30.60	1.6	
	1.1s	88.61nm		4.9mb	
RMQ	20.47	218 eP	40 52.00	-0.3	
		eS	46 00.00		
CMS	25.91	214 eP	41 44.00	-1.1	
WARB	37.25	240 eP	43 24.50	-0.1	
KMI	68.20	302 Pc	47 14.00	0.7	
	2.0s	50.00nm		5.1mb	
GUN	83.34	300 PKP	48 39.20	0.2	
PKI	83.65	299 PKP	48 40.20	-0.4	
KKN	83.82	300 PKP	48 41.00	-0.2	
DMN	83.92	299 PKP	48 42.00	0.2	
GKN	84.42	300 PKP	48 43.20	-1.0	
	1.0s	36.00nm		5.3mb	
YKA	96.04	28 eP	49 38.70	0.8	
	0.8s	0.50nm		4.1mb	
BCAO	143.80	263 iPKPc	55 43.30	-3.9X	
	0.7s	18.00nm			

S.D. = 0.9 on 13 of 14 obs.

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* FEB 22, 1991 17h 41m 17.40± 2.32s
10.676 S ±11.2km 163.282 E ±16.9km
DEPTH = 34.3 ± 17.1 km
4.9mb (6 obs.) 4.6Msz (2 obs.)
SOLOMON ISLANDS (193)

HNR	3.51	290 iP	42 10.50	-0.4	
		iS	42 51.00		
DZM	11.73	165 iPc	44 05.40	-0.1	
CTA	18.88	238 iPc	45 38.90	1.3	
	1.0s	51.00nm		4.7mb	
BRS	19.35	209 iPc	45 44.00	0.9	
CMS	26.27	215 eP	46 52.00	0.5	
WB2	29.34	248 eP	47 16.50	-3.0X	
ASPA	30.82	241 iPc	47 30.40	-2.2	
	1.0s	13.30nm		4.7mb	
WARB	37.86	241 eP	48 32.00	-1.1	
TIY	67.66	318 eP	52 18.60	5.1X	
	Z 18s	0.40um		4.7Msz	
KMI	68.87	302 Pc	52 22.00	0.6	
CD2	70.46	308 eP	52 30.30	-0.5	
LZH	72.73	313 eP	52 48.50	4.1X	
	2.0s	25.00nm		4.9mb	
	Z 20s	0.24um		4.5Msz	
GTA	77.07	315 eP	53 10.00	0.8	
GUN	84.03	300 P	53 47.00	0.3	
PKI	84.34	299 P	53 48.60	0.4	
	0.8s	19.00nm		5.3mb	
KKN	84.51	299 P	53 49.40	0.5	
DMN	84.61	299 P	53 49.80	0.3	
GKN	85.12	300 P	53 51.40	-0.4	
	1.0s	26.00nm		5.4mb	
GBA	88.50	284 P	54 09.00	0.7	
	0.6s	1.20nm		4.4mb	
BCAO	144.53	263 ePKPc	00 51.50	-1.6	
	0.4s	5.00nm			

S.D. = 1.0 on 17 of 20 obs.

FEB 22, 1991 18h 39m 11.31± 0.13s
6.556 S ± 2.7km 74.838 W ± 3.6km
DEPTH = 142.1km (21 depth phases)
5.2mb (47 obs.)
PERU-BRAZIL BORDER REGION (112)

NNA	5.75	200 iPc	40 35.90	0.3	
	0.5s	52.11nm		5.0mb	
		eS	41 32.50		
PT10	5.87	201 eP	40 37.50	0.2	
		eS	41 39.00		
TUNG	6.24	325 P	40 40.50	-2.2	
VC1	6.87	329 P	40 49.80	-1.6	
CAYA	7.30	334 P	40 55.50	-1.6	
OTO	7.30	330 Pd	40 56.10	-1.0	
OUR	7.33	330 P+	40 57.00	-0.5	
GGP	7.37	329 P	40 58.40	0.3	
YANA	7.40	330 P+	40 58.40	-0.1	
COTA	7.68	333 P	41 02.60	0.3	
ARE	10.38	162 eP	41 39.00	1.1	
ZOBO	11.68	146 P	41 51.20	-4.1X	
	0.9s	101.64nm		5.4mb	
	Z 22s	0.11um		4.5Msz	
		LR	45 10.00		
LPB	11.91	147 P	41 54.30	-3.8X	
	1.0s	270.00nm		5.8mb	
		i	42 09.50		
		(S)	44 25.00		
		LR	44 40.00		
CNCB	12.20	147 iP	41 59.10	-3.0X	
		(S)	44 29.00		
CCH	13.71	142 P	42 20.00	-1.3	
SDV	15.90	15 eP	42 50.80	2.0	
UPA	16.13	343 ePd	42 53.80	2.4	
SIV	16.43	126 P	42 52.80	-2.3	
DVD	16.72	333 ePc	43 02.00	3.4X	
TOV	17.00	17 eP	43 04.20	2.1	
ANT	17.57	166 eP	43 09.50	0.5	
OLLA	18.31	26 iP	43 18.20	0.8	
MORO	18.49	21 iP	43 20.10	0.7	
SLA	20.17	155 iPd	43 35.50	-1.3	
BBL	25.62	31 eP	44 28.80	-0.6	
PORP	25.76	18 iP	44 30.20	-0.4	
DOG	25.98	30 eP	44 35.90	3.2X	
LPR	26.24	20 iP	44 34.50	-0.6	
SEG	26.35	30 eP	44 39.50	3.5X	
TCA	26.46	160 ePc	44 36.70	-0.3	
DEG	26.50	31 eP	44 38.80	1.4	
ROCH	26.52	173 eP	44 38.70	1.0	
ITB1	26.60	135 eP	44 37.20	-1.0	
BPA	26.73	29 eP	44 42.21	2.7X	
PEL	26.73	172 iPc	44 40.50	1.1	
	1.0s	150.00nm		5.6mb	
ITB	26.82	135 eP	44 39.80	-0.5	
LCCH	26.96	174 iPd	44 42.00	0.6	
ITB7	27.05	135 eP	44 41.20	-1.2	
TACH	27.20	173 eP	44 44.50	0.9	
PCH	27.23	172 eP	44 45.00	1.0	
PPD	27.43	126 eP	44 43.90	-2.0	
		e	44 46.10	8kmX	
LNV	27.45	174 iPc	44 46.50	0.7	
BAO	27.82	111 ePc	44 49.00	-0.5	
VAO	31.42	124 eP	45 19.00	-2.3	
BMA	33.64	122 eP	45 38.80	-1.7	
SOB1	33.72	97 iPc	45 40.30	-1.0	
JFO	33.97	120 eP	45 43.10	-0.3	
PDCR	35.69	102 iPd	45 56.00	-2.0	
LHS	41.20	353 P	46 43.60	0.2	
TKL	42.82	349 P	46 56.40	-0.3	
GBTN	42.91	349 P	46 57.20	-0.2	
		pP	47 30.00	147km	
RSCP	43.13	347 P	46 58.60	-0.6	
	0.6s	99.64nm		5.7mb	
		pP	47 31.50	147km	
BLA	43.85	354 P	47 06.00	0.9	
	0.7s	27.78nm		5.0mb	
		pP	47 38.60	145km	
NAV	44.00	353 P	47 07.20	1.0	
		pP	47 39.40	143km	
CVL	44.44	356 P	47 10.50	0.9	
		pP	47 42.80	144km	
FVM	46.63	343 P	47 25.70	-1.3	
		pP	47 58.40	144km	
MEO	46.83	333 iPd	47 28.90	0.2	
WVLY	48.91	356 P	47 45.00	0.3	
		pP	48 17.00	139km	
DLA	49.56	353 P	47 48.65	-0.9	
LDN	49.70	354 P	47 49.75	-0.9	
ELF	49.86	354 P	47 50.90	-1.0	
HBVT	50.71	2 P	47 58.00	-0.3	
		pP	48 31.00	143km	
RSNY	50.87	0 P	47 59.00	-0.5	
		pP	48 32.00	143km	
ALQ	50.92	326 iPd	48 00.20	-0.1	
	1.0s	52.00nm		5.3mb	
		epP	48 34.00	147km	
ANMO	50.92	326 P	48 00.00	-0.3	
BNH	51.01	3 P	48 00.40	-0.2	
		pP	48 33.50	144km	
MIM	51.83	5 P	48 06.30	-0.4	
		pP	48 39.20	142km	
CBM	53.59	6 P	48 19.20	-0.4	
		pP	48 52.50	143km	
GOL	53.98	331 P	48 22.50	-0.5	
	0.6s	9.77nm		4.8mb	
GLA	54.71	319 eP	48 28.00	-0.2	
TPC	56.16	319 eP	48 39.00	0.4	
PLM	56.24	318 ePP	48 39.00	-0.4	
MSU	56.67	325 P	48 42.20	-0.2	
RSSD	56.91	335 P	48 43.40	-0.5	
RVR	56.97	318 eP	48 44.00	-0.2	
GSC	57.38	320 eP	48 47.00	-0.2	
DAU	57.50	327 P	48 48.00	-0.3	
MWC	57.56	318 eP	48 49.00	0.4	
DUG	58.20	326 P	48 53.20	0.3	
CLC	58.21	320 eP	48 52.00	-1.0	
BW06	58.36	330 P	48 52.80	-1.3	
ISA	58.69	319 eP	48 56.00	-0.3	
ABL	58.70	318 P	48 56.00	-0.6	
TNP	59.37	322 P	49 01.00	-0.1	
	0.7s	9.63nm		4.9mb	
BCH	59.47	318 P	49 01.00	-0.8	
BONR	59.96	321 P	49 05.00	-0.3	
RKT	60.02	247 iP	49 05.50	0.0	
	0.8s	25.00nm		5.2mb	
FRI	60.28	319 eP	49 05.80	-1.2	
PRI	60.41	318 eP	49 07.50	-0.6	

KVN	60.51	322	P	49	08.00	-0.9		0.6s	24.50nm		5.4mb		54.072 N ±24.0km	160.170 E ±24.9km		
HPI	60.82	329	P	49	10.90	-0.1			e	52	21.70	132kmX	DEPTH = 33.0km (normal)			
LLA	60.86	318	eP	49	10.50	-0.6	FRF	88.33	46 eP	51	48.10	-0.1	4.5mb (5 obs.)			
PRS	60.99	318	ePd	49	11.70	-0.2		0.7s	9.90nm		5.0mb		NEAR EAST COAST OF KAMCHATKA			(218)
CMB	61.32	320	eP	49	13.70	-0.5	PMR	88.34	333 ePd	51	48.60	0.9				
ARN	61.67	319	P	49	16.20	-0.3		0.8s	35.70nm		5.5mb		MAT	23.20	230 eP	11 06.00	0.5
MHC	61.74	319	iPd	49	17.30	0.2	LPL	88.75	44 eP	51	50.90	0.5	YKA	42.41	43 eP	13 52.80	-0.6
GCC	61.79	318	eP	49	17.30	0.0		0.6s	13.10nm		5.2mb			0.6s	1.90nm		4.0mb
LRM	62.01	331	eP	49	18.50	-0.4	FBA	88.76	336 eP	51	50.50	0.7	KAF	58.60	337 eP	15 56.10	-0.2
BKS	62.43	319	e(P)	49	21.40	-0.1		0.7s	65.10nm		5.8mb			0.4s	3.80nm		4.9mb
BRK	62.44	319	eP	49	21.50	0.0			epP	52	27.40	144km	GUN	58.84	275 P	15 58.40	-0.5
ORV	62.92	321	iPd	49	25.10	0.4	HAU	88.96	42 eP	51	50.20	-0.9	KKN	59.28	276 P	16 01.40	-0.4
WDC	64.16	321	iPd	49	30.70	-2.1	DAG	89.01	11 iPc	51	50.90	0.2	GKN	59.50	276 P	16 02.50	-0.7
LBFM	64.21	322	P	49	33.00	-0.4		0.9s	45.38nm		5.5mb		NUR	60.40	337 eP	16 09.00	0.3
SES	64.79	335	ePd	49	36.50	-0.2			ipP	52	25.50	134km		0.3s	1.30nm		4.5mb
	0.4s	52.00nm			5.8mb		BSF	89.22	42 eP	51	51.50	-0.9	HFS	63.03	342 eP	16 25.40	-1.0
		pP		50	08.00	129kmX	CDF	89.64	41 eP	51	53.70	-0.6		0.4s	2.20nm		4.6mb
FFC	65.13	343	iPd	49	38.00	-0.8		0.7s	12.15nm		5.1mb		KBA	75.37	337 iPd	17 45.00	2.4
	0.8s	52.00nm			5.5mb		SVW	91.25	331 eP	52	01.30	-0.1		1.0s	4.50nm		4.4mb
FHC	65.19	321	iPd	49	40.70	1.2	IMA	91.44	336 ePd	52	03.20	0.9	S.D. = 1.2 on 9 of 9 obs.			
NEW	66.00	331	P	49	44.00	-0.5		0.7s	12.30nm		5.2mb					
	0.8s	51.04nm			5.5mb		KBA	93.51	43 i(P)	52	13.40	1.1	? FEB 22, 1991 19h 22m 18.50± 1.26s			
PNT	67.93	330	iPd	49	57.40	0.8		0.5s	2.80nm		4.8mb		19.386 N ±15.8km	103.865 W ±12.3km		
	1.0s	151.00nm			5.8mb				i	52	21.30	25kmX	DEPTH = 33.0km (normal)			
BMW	68.04	326	P	49	57.50	0.1			e	52	48.00		JALISCO, MEXICO			(524)
FRB	70.27	3	ePd	50	09.70	-0.8	BRW	93.57	341 eP	52	12.80	1.0				
	0.5s	55.00nm			5.6mb		NB2	93.77	29 P	52	14.00	1.0	COLM	0.26	141 iP	22 25.29	-0.6
LIC	70.81	81	P	50	14.34	-0.5		1.0s	8.90nm		5.0mb		CGX	0.49	50 iP	22 28.80	-0.4
TIC	70.89	81	P	50	14.76	-0.6	BCAO	93.84	86 iPd	52	14.50	0.2			iS	22 36.30	
KIC	71.11	81	Pc	50	16.32	-0.4		0.3s	5.00nm		5.3mb		MNZ	0.55	233 eP	22 30.00	0.2
	0.6s	37.50nm			5.4mb		KSP	95.75	40 eP	52	23.50	1.2			iS	22 40.00	
PAE	73.53	254	iP	50	31.90	1.2			e	52	59.00	138km	MRX	2.54	82 iP	23 03.00	4.7X
	0.8s	35.00nm			5.2mb		KRA	98.05	40 eP	52	34.30	1.7			(S)	23 39.30	
AFR	73.72	254	iP	50	32.90	1.0			e	53	09.30	136km	III	4.28	103 iP	23 26.20	3.0X
	0.8s	50.00nm			5.3mb		MDJ	136.51	335 ePKP	58	17.00	-1.2	MZX	4.48	328 (P)	23 31.00	5.1X
TIO	74.47	56	iP	50	37.00	0.8	QUE	137.11	52 ePKP	58	22.00	1.9	ACX	4.56	123 (P)	23 34.00	7.0X
AVE	75.08	53	iPc	50	41.00	1.5	MAT	137.56	319 ePKP	58	10.00	-10.5X	PPM	4.96	93 (P)	23 34.00	0.8
YKA	75.28	342	eP	50	39.40	-0.6	CN2	138.85	338 ePKP	58	21.20	-1.4	IIT	5.26	93 (P)	23 56.00	18.8X
	0.5s	32.60nm			5.3mb		NWAO	139.09	196 ePKP	58	23.00	-0.4	OXX	7.16	108 (P)	24 15.00	11.1X
IFR	76.97	54	iPd	50	51.00	0.7		0.6s	7.00nm				S.D. = 1.1 on 4 of 10 obs.			
		i		51	25.50	138km	WMQ	139.84	20 ePKP	58	22.60	-1.9				
TOL	79.68	48	eP	51	06.00	1.3			PKS	02	01.00		& FEB 22, 1991 19h 58m 50.31s			
AKU	82.97	20	iPc	51	22.90	1.6	WB2	141.03	227 ePKP	58	19.00	-8.3X	38.380 N	118.382 W		
	0.9s	20.17nm			5.0mb		WRA	141.04	227 PKP	58	30.00	2.7X	DEPTH = 3.9km			
SPA	83.49	180	iPd	51	24.70	0.5		0.8s	7.80nm				CALIFORNIA-NEVADA BORDER REGION (40)			
	1.0s	70.00nm			5.5mb		WARB	141.35	212 ePKP	58	21.00	-6.7X	<GM>. MD 3.3 (GM). Small			
		i		52	00.00	139km	DL2	144.52	338 ePKP	58	31.00	-1.7	foreshock about 11 seconds			
EPF	83.73	45	eP	51	26.40	0.7	BJI	145.23	345 ePKP	58	33.00	-0.8	earlier.			
	1.1s	23.20nm			4.9mb				pPKP	59	10.50					
LPF	84.15	40	eP	51	27.50	-0.1	HHC	145.38	351 PKPd	58	35.00	0.7	BONR	0.43	171 e(P)	58 58.50	-0.4
	0.8s	18.80nm			5.0mb		NDI	145.62	47 iPKPd	58	36.00	1.1	KVN	0.71	18 e(P)	59 04.30	-0.1
MFF	84.34	42	eP	51	28.80	0.2		0.6s	73.33nm				TNP	0.96	108 iP	59 08.30	-1.1
	0.5s	10.20nm			4.9mb		BTO	145.83	353 iPKPd	58	36.00	1.0	CMB	1.62	258 iPc	59 19.70	0.0
GRR	84.36	40	eP	51	28.70	0.1			pPKP	59	13.00				iS	59 40.80	
	0.5s	17.50nm			5.2mb		GTA	146.94	8 PKPd	58	37.60	0.7	FRI	1.74	218 iPd	59 21.20	-0.3
LFF	84.50	44	eP	51	29.60	0.2	POO	147.27	66 iPKPc	58	37.00	-0.9			iS	59 42.30	
	0.5s	15.30nm			5.1mb		KNA	147.79	226 ePKP	58	38.80	0.1	LLA	2.69	230 ePc	59 38.10	2.9
FLN	84.71	40	eP	51	30.40	0.0		0.5s	123.00nm				ARN	2.70	249 eP	59 34.60	-0.7
	0.6s	19.85nm			5.1mb				e	58	42.00		ORV	2.70	297 eP	59 34.30	-1.0
LPO	84.74	44	eP	51	30.80	0.2	MTN	147.79	233 iPKPd	58	42.00	3.3X	BCH	3.47	204 eP	59 46.55	0.2
	1.0s	30.00nm			5.1mb			0.3s	257.00nm				ABL	3.59	191 e(P)	59 48.50	0.4
LDF	84.89	40	eP	51	31.30	0.0	TIY	148.29	349 PKPd	58	39.70	0.7	WDC	3.90	306 iPc	00 01.30	9.0
	0.7s	16.55nm			5.0mb		TIA	148.52	341 ePKP	58	40.10	0.7	DUG	4.69	66 eP	00 04.40	0.7
INK	85.03	341	iPd	51	32.00	0.4	MBL	148.92	207 ePKP	58	40.00	-0.4	MSU	4.88	87 eP	00 06.00	-0.4
	0.6s	42.00nm			5.5mb		LZH	150.59	2 ePKP	58	44.00	1.3		13 obs. associated			
		pP		52	08.00	142km	GKN	151.13	40 PKP	58	44.20	0.4				
RJF	85.12	43	eP	51	32.40	-0.1	SSE	151.34	330 iPKPc	58	49.80	6.1X	? FEB 22, 1991 20h 14m 28.35± 1.97s			
	0.8s	12.10nm			4.8mb			1.0s	99.00nm				14.750 S ±61.6km	173.044 W ±52.2km		
LSF	85.36	43	eP	51	33.70	0.0			i	58	57.50		DEPTH = 33.0km (normal)			
CAF	85.41	44	eP	51	33.90	-0.1	KKN	151.69	39 PKP	58	45.30	0.6	4.1mb (1 obs.)			
	0.4s	5.45nm			4.8mb		DMN	151.70	40 PKP	58	45.60	0.8	SAMOA ISLANDS REGION			(169)
MAF	86.06	43	eP	51	37.10	-0.1	GBA	151.84	73 PKP	58	45.00	0.1				
	0.6s	8.75nm			4.8mb		HYB	151.87	65 ePKPd	58	45.50	0.6	DZM	20.77	246 iPc	19 10.60	1.4
BGF	86.32	42	eP	51	38.20	-0.2		1.0s	30.00nm				TOO	43.14	230 iPc	22 27.70	0.1
	1.0s	16.00nm			4.9mb				e	59	52.00		WB2	50.32	256 iPc	23 24.20	-0.1
MBC	86.59	350	iPd	51	40.50	1.3	PKI	151.92	40 PKP	58	45.40	0.2	ASPA	50.64	251 iPd	23 25.80	-1.0
	0.6s	198.00nm			6.2mb	X	GUN	151.98	38 PKP	58	46.00	0.7		0.8s	47.50nm		5.5mb X
		pP		51	56.40	55kmX	KOD	152.37	81 ePKP	58	48.20	2.1	WARB	57.21	248 eP	24 14.30	-0.8
AVF	86.72	42	eP	51	39.60	-0.7	XAN	152.43	353 PKP	58	46.00	0.7	YKA	89.37	23 eP	27 22.90	0.4
	0.7s	3.85nm			4.4mb		WHN	154.63	341 ePKP	58	49.50	1.2		0.3s	0.30nm		4.1mb
KLU	86.85	333	P	51	41.20	0.4			PKPab	59	12.00		S.D. = 1.1 on 6 of 6 obs.			
		pP		52	17.00	140km	CD2	155.74	3 ePKP	58	50.20	0.2				
SMF	87.01	43	eP	51	41.00	-0.8	SHL	157.23	32 ePKP	58	52.70	0.5	? FEB 22, 1991 20h 20m 19.54± 4.67s			
TOA	87.16	334	eP	51	43.60	1.3	KHT	169.58	38 ePKP	59	04.70	1.3	39.042 N ±16.4km	26.056 E ±40.6km		
LMR	88.19	46	eP	51	47.40	-0.1	S.D. = 0.9 on 182 of 195 obs.						DEPTH = 10.0km (geophysicist)			
	0.9s	11.45nm			4.9mb								TURKEY			(366)
DOU	88.25	39	Pc	51	47.80	0.2	? FEB 22, 1991 19h 06m 00.87± 1.46s						MD 3.3 (ISK).			

22d 20h

EZN	0.81	15	iPg	20	35.10	-0.1
			eSg	20	47.70	
IZM	1.14	124	ePn	20	40.90	0.0
KGT	1.71	34	iPn	20	49.90	0.5
EDC	1.91	46	ePn	20	52.00	-0.4
BNT	1.95	47	ePn	20	52.90	-0.1
DST	2.07	73	ePn	20	55.00	0.2
KCT	2.15	55	ePn	21	01.00	5.1X
YLV	2.97	58	ePn	21	16.00	8.3X

S.D. = 0.4 on 6 of 8 obs.

FEB 22, 1991 20h 34m 23.55± 0.38s
44.586 N ± 3.8km 9.255 E ± 3.2km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.6 (LDG), 2.5 (GEN).

PCP	0.51	265	P	34	33.83	-0.1
			S	34	41.91	
CKI	0.72	257	Pc	34	38.30	0.6
			eSg	34	49.50	
FIN	0.84	244	P	34	39.70	-0.1
			S	34	51.97	
ROB	1.03	254	P	34	43.07	0.0
			S	34	57.48	
BDI	1.10	118	P	34	43.80	-0.4
			eSn	34	58.30	
MME	1.11	110	P	34	44.20	-0.3
			eSn	35	00.00	
IMI	1.19	236	P	34	45.02	-0.8
			S	35	01.84	
MDI	1.23	15	P	34	46.20	-0.3
			eSg	35	03.70	
VAI	1.33	345	P	34	48.00	0.0
			eSn	35	07.00	
ENR	1.36	255	P	34	48.28	-0.4
			S	35	06.50	
ORO	1.38	319	P	34	49.50	0.6
			eSn	35	07.90	
ORX	1.38	320	P	34	48.40	-0.5
			S	35	05.66	
STV	1.43	257	P	34	48.92	-0.6
			S	35	06.50	
DOI	1.44	267	Pc	34	51.00	1.2
			eSg	35	10.00	
BHB	1.44	281	P	34	50.34	0.6
			S	35	10.31	
SBF	1.49	242	Pn	34	50.00	-0.5
			Sn	35	12.00	
RSP	1.53	292	P	34	50.28	-0.8
			S	35	09.60	
PZZ	1.54	268	P	34	50.85	-0.4
			S	35	09.75	
LSD	1.73	301	P	34	54.65	0.6
RRL	1.79	282	P	34	56.20	1.2
SFI	1.98	109	P	34	59.00	1.6
LPG	2.00	298	Pn	34	59.00	1.0
FRF	2.14	242	Pn	34	59.40	-0.4
			Sn	35	28.00	
LMR	2.34	239	Pn	35	01.60	-1.1
LRG	2.37	243	Pn	35	04.00	0.9
HAU	3.97	331	Pn	35	25.20	-0.6
			Sn	36	10.00	
CDF	4.06	341	Pn	35	25.80	-1.4
BGF	4.91	296	Pn	35	39.20	0.0

S.D. = 0.8 on 28 of 28 abs.

& FEB 22, 1991 20h 57m 04.49s
46.871 N 120.652 W
DEPTH = 13.3km
WASHINGTON (29)
<SEA>. CL 3.2 (SEA).

EBG	0.07	56	Pc	57	07.60	0.2
NAC	0.18	221	Pc	57	09.47	0.6
TBM	0.30	7	Pd	57	10.96	-0.1
			S	57	16.05	
TWW	0.31	331	Pd	57	11.34	0.2
			S	57	16.74	
YAKW	0.36	166	Pd	57	12.31	0.2
MXC	0.38	140	Pd	57	12.57	0.0
VTG	0.46	79	P	57	13.62	-0.3
BVW	0.53	96	Pc	57	15.05	-0.1
BRVW	0.60	130	Pd	57	16.39	0.1
WPW	0.64	255	P	57	16.64	-0.4
MDW	0.66	112	P	57	17.51	0.1
FMW	0.70	275	ePd	57	17.68	-0.5
GLK	0.73	245	P	57	18.58	0.0
WAH2	0.76	98	P	57	18.96	0.0
ETW	0.77	16	Pd	57	18.45	-0.8
LON	0.80	262	P	57	19.46	-0.4
REMR	0.82	267	P	57	19.88	-0.3
GSM	0.85	293	Pd	57	20.19	-0.5
LOCW	0.85	100	Pc	57	20.71	0.1
GBL	0.86	108	P	57	20.81	0.0
EPH	0.87	56	P	57	20.67	-0.2
CRF	0.87	93	P	57	20.73	-0.2
RSW	0.88	123	P	57	21.09	0.0
RVC	0.91	275	Pd	57	21.14	-0.5
GL2	0.92	187	P	57	21.48	-0.3
PRW	0.94	134	P	57	21.94	-0.1
MJ2	0.94	109	P	57	22.17	0.1
WTV	0.95	30	P	57	21.94	-0.5
ASR	0.97	222	P	57	23.13	0.4
RMW	0.98	307	P	57	22.49	-0.4
OT2	0.99	98	P	57	22.65	-0.2
CBSW	1.02	24	Pd	57	22.94	-0.6
WIW	1.04	115	P	57	23.40	-0.3
WRD	1.04	84	P	57	23.25	-0.5
KOSW	1.14	249	P	57	25.45	0.0
PATW	1.17	148	P	57	25.93	-0.1
SAW	1.19	45	P	57	25.48	-0.9
HTW	1.20	321	P	57	26.16	-0.5
ET3	1.22	103	P	57	26.22	-0.6
CDFW	1.22	232	P	57	27.19	0.2
NLW	1.23	10	P	57	26.50	-0.6
DHW2	1.27	28	P	57	27.04	-0.7
JLK	1.26	236	P	57	28.27	0.5
VGB	1.36	184	P	57	28.71	-0.4
OD2	1.42	68	P	57	28.86	-1.1
J80	1.52	158	P	57	30.52	-0.8
JCW	1.58	327	P	57	32.57	0.3
GMW	1.60	296	P	57	33.39	0.8
RPW	1.68	340	P	57	34.43	0.7
VTHM	1.69	178	P	57	33.60	-0.3
HDW	1.81	296	P	57	36.06	0.4
LNOR	1.92	121	P	57	38.21	1.0
DPW	1.94	58	P	57	36.15	-1.4
MBW	2.09	337	P	57	41.10	1.3

54 abs. associated

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* FEB 22, 1991 21h 38m 48.58± 0.88s
37.009 N ± 9.8km 29.431 E ± 6.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.1 (ISK).

ELL	0.46	124	iPg	38	57.90	-0.1
			i$g	39	05.40	
YER	0.93	278	ePn	39	05.90	-0.4
BCK	1.03	64	ePn	39	08.40	0.3
CIN	1.22	299	ePg	39	12.00	0.7
			i$g	39	26.00	
KHL	1.31	3	ePn	39	12.40	-0.5

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

? FEB 22, 1991 21h 41m 06.87± 6.62s
10.760 S ±20.3km 161.180 E ±79.0km
DEPTH = 79.4 ± 30.0 km
SOLOMON ISLANDS (193)

HNR	1.79	317	iP	41	37.00	0.5
			i$	41	58.00	
VSG	2.08	316	iP	41	37.80	-2.6X
			i$	41	59.00	
SVO	2.09	320	iP	41	40.00	-0.5
			i$	42	02.00	
RMQ	19.55	215	eP	45	31.00	0.0
WB2	27.40	247	eP	46	47.00	0.0
GKN	83.36	300	P	53	27.20	0.1
SOB1	150.41	131	ePKP	00	51.50	5.3X

S.D. = 0.7 on 5 of 7 obs.

FEB 22, 1991 22h 06m 11.11± 0.27s
3.972 S ± 5.1km 35.811 E ± 4.8km
DEPTH = 10.0km (geophysicist)
5.3mb (40 abs.) 4.5Msz (9 abs.)
TANZANIA (573)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 23C
Centroid Location:
Origin Time 22:06:16.5 1.0
Lat 3.94S 0.14 Lon 35.94E 0.09
Dep 15.0 FIX Half-duration 1.5
Moment Tensor; Scale 10**16 Nm
Mrr=-5.37 0.62 Mtt=-1.95 0.81
Mff= 7.32 0.59 Mrt=-0.58 1.28
Mrf=-0.15 2.02 Mtf= 2.05 0.57
Principal Axes:

	Val=	Plg=	Azm=
T	7.76	1	102
N	-2.29	10	192
P	-5.47	80	5

Best Double Couple:Mo=6.6*10**16
NP1:Strike=182 Dip=45 Slip=-104
NP2: 21 47 -76

NAI	2.86	20	iP	06	58.50	0.7
	0.8s	111.94nm				
			iS	07	07.00	
LWI	7.21	284	iPd	07	52.20	-7.2X
AAE	13.25	13	eP	09	26.30	4.1X
BUL	17.54	203	iPn	10	15.60	-2.0
			eSn	13	31.50	
			iLg	15	30.90	
BCAO	19.17	296	iPd	10	36.80	-0.8
	0.9s	225.00nm			5.4mb	
			i	13	59.10	
			i	14	54.50	
			i	16	05.70	
BFT	22.29	194	iPc	11	11.00	0.5
			S	15	31.50	
SLR	22.81	198	iPc	11	16.20	0.6
	1.3s	67.31nm			5.0mb	
			S	15	33.20	
KSR	23.39	201	iPc	11	15.00	-6.2X
			S	15	55.50	
PRY	24.18	198	iPc	11	36.50	7.6X
			S	16	38.00	
HVD	28.22	199	iPd	12	05.00	-1.5
			S	16	17.00	
KIC	41.77	284	Pd	14	02.42	-0.2
	1.0s	11.50nm			4.6mb	
LIC	42.02	284	P	14	04.30	-0.3
Z	20s	0.45um			4.3Msz	
TIC	42.10	284	Pd	14	05.28	-0.1
	0.9s	26.00nm			5.0mb	
TAB	42.95	12	eP	14	14.00	1.9
POO	43.64	58	iPc	14	16.00	-1.9
YLV	44.71	353	eP	14	26.00	-0.3
GBA	44.85	66	P	14	28.00	0.4
QUE	45.18	39	eP	14	31.80	1.4
VAY	46.67	346	eP	14	43.00	1.3
TDS	46.97	339	P	14	46.00	1.9
HYB	47.23	62	eP	14	45.00	-1.6
SKO	47.56	345	eP	14	49.50	0.7
CFR	49.41	353	eP	15	04.00	1.0
ISR	49.59	351	eP	15	06.50	2.0
SDI	49.68	338	P	15	06.00	0.8
MLR	50.02	351	eP	15	12.00	4.1X
VRI	50.28	352	eP	15	06.00	-3.7X
CVO	50.31	351	eP	15	15.00	5.0X
PGF	52.29	335	eP	15	24.50	-0.7
	1.2s	29.75nm			5.1mb	
ZAG	52.61	343	ePd	15	28.50	1.1
PTJ	52.70	343	eP	15	28.90	0.8
TRI	53.21	341	eP	15	28.60	-3.2X
IFR	53.72	317	iPc	15	37.50	1.6
SRO	53.81	345	eP	15	36.00	-0.1
FRF	54.12	334	eP	15	38.00	-0.5
	1.2s	38.70nm			5.3mb	
LRG	54.16	334	eP	15	38.40	-0.4
	1.1s	31.75nm			5.3mb	
Z	19s	0.32um			4.4Msz	
CTI	54.23	339	P	15	39.80	0.4
FVI	54.32	341	P	15	40.30	0.5
ZST	54.47	345	eP	15	45.90	4.9X
SPC	54.65	348	eP	15	42.30	-0.2
OGA	55.15	339	iPc	15	47.10	0.8
BHG	55.28	341	iPc	15	46.60	-0.3
BNI	55.31	335	P	15	48.00	0.6
KRA	55.53	348	eP	15	47.50	-1.2
LPL	55.66	336	eP	15	48.90	-1.1
	1.2s	38.70nm			5.3mb	
KHC	56.31	343	iPd	15	53.60	-0.8
	1.2s	20.00nm			5.0mb	
			e	16	07.50	
SSB	56.40	334	P	15	54.93	-0.2
WET	56.53	342	eP	15	55.00	-1.0
EPF	56.70	329	eP	15	57.20	-0.1
	1.1s	28.10nm			5.2mb	

GKN 56.73 53 P 15 56.00 -1.9
1.0s 52.00nm 5.5mb
DMN 56.93 53 P 15 58.40 -1.1
FEL 57.10 338 eP 15 59.56 -0.6
KSP 57.12 345 eP 15 58.00 -2.1
KKN 57.15 53 P 15 59.40 -1.6
PKI 57.16 54 P 16 00.00 -1.2
CAF 57.26 332 eP 16 01.40 0.2
1.3s 45.15nm 5.3mb
LPO 57.49 331 eP 16 02.80 0.0
1.1s 24.10nm 5.1mb
BSF 57.52 337 eP 16 02.20 -0.9
1.4s 36.20nm 5.2mb
GRF 57.53 341 ePd 16 02.50 -0.6
1.3s 34.00nm 5.2mb
Z 19s 0.20um 4.2Msz
GUN 57.68 53 P 16 03.40 -1.5
BRG 57.77 344 iP 16 03.60 -1.0
1.4s 19.00nm 4.9mb
SMF 57.78 334 eP 16 04.30 -0.5
1.2s 38.70nm 5.3mb
RJF 57.80 332 eP 16 04.90 0.0
Z 20s 0.65um 4.7Msz
CDF 57.82 338 eP 16 04.00 -1.1
HAU 57.84 337 eP 16 04.20 -1.0
Z 22s 0.25um 4.3Msz
LFF 57.90 331 eP 16 05.60 0.0
1.0s 38.00nm 5.4mb
LBF 57.99 335 eP 16 05.80 -0.5
1.5s 54.85nm 5.4mb
MAF 58.01 333 eP 16 06.70 0.3
1.4s 91.50nm 5.6mb
AVF 58.10 334 eP 16 06.60 -0.4
1.2s 35.70nm 5.3mb
BGF 58.14 334 eP 16 07.00 -0.3
1.1s 23.20nm 5.1mb
TCF 58.22 333 eP 16 08.40 0.5
1.2s 77.35nm 5.6mb
MOX 58.24 342 eP 16 08.00 0.0
SSF 58.25 335 eP 16 07.40 -0.7
1.3s 23.45nm 5.1mb
LOR 58.26 335 eP 16 07.60 -0.6
1.4s 65.35nm 5.5mb
CLL 58.42 343 iP 16 08.70 -0.5
1.4s 25.00nm 5.1mb
e 16 21.00
e 16 59.00
LSF 58.50 333 eP 16 09.90 0.0
MFF 59.54 332 eP 16 16.90 -0.1
1.3s 36.10nm 5.3mb
LDF 61.00 334 eP 16 26.40 -0.6
1.3s 54.15nm 5.5mb
LPF 61.00 333 eP 16 26.50 -0.5
1.1s 51.30nm 5.6mb
FLN 61.28 333 eP 16 28.10 -0.8
Z 22s 0.57um 4.7Msz
SHL 61.75 58 iP 16 31.50 -1.2
LSA 62.63 54 eP 16 38.80 -0.1
NUR 64.88 354 iP 16 52.10 -0.4
1.0s 53.60nm 5.7mb
KHT 64.92 72 eP 16 54.40 0.9
CHG 66.11 68 iPc 17 00.90 -0.3
1.2s 27.34nm 5.3mb
HFS 66.23 348 eP 17 00.20 -1.0
0.7s 2.00nm 4.4mb
KAF 66.30 355 iP 17 01.50 -0.1
0.9s 49.70nm 5.7mb
WMQ 66.53 38 Pd 17 03.20 -0.3
NB2 67.58 347 P 17 09.20 -0.6
1.3s 33.70nm 5.4mb
KMI 71.01 62 Pd 17 31.50 -0.4
2.0s 43.00nm 5.2mb
pP 17 41.50 32kmX
SOD 71.48 356 iP 17 33.70 0.2
GTA 72.83 47 Pd 17 42.20 -0.1
1.2s 20.00nm 5.1mb
Z 22s 0.30um 4.5Msz
CD2 73.34 56 eP 17 45.70 0.4
KEV 73.82 357 iP 17 48.00 0.8
1.0s 50.00nm 5.5mb
PDCR 74.45 258 eP 17 52.80 0.8
GYA 74.76 61 iPd 17 53.80 0.0
pP 18 03.80 32kmX
LZH 74.82 51 eP 17 54.00 0.0
1.3s 20.00nm 5.0mb
Z 25s 0.52um 4.7MszX
SOB1 76.26 262 (P) 18 05.00 2.6X
XAN 78.33 54 iPc 18 14.00 0.5
BTO 80.67 48 eP 18 28.00 1.9
VAO 81.82 247 (P) 18 35.00 2.6X
HHC 81.87 48 eP 18 34.70 2.3
TIY 81.89 51 eP 18 33.50 1.0
Z 22s 0.50um 4.8Msz
BAO 82.98 255 ePd 18 40.90 2.3
BJI 85.18 49 eP 18 50.50 1.4
1.4s 33.00nm 5.4mb
Z 22s 0.31um 4.7Msz
eS 29 20.00
TIA 85.33 53 eP 18 50.30 0.3
NJ2 86.20 58 eP 18 55.70 1.3
DAG 86.20 349 iPc 18 54.10 0.6
1.1s 25.32nm 5.3mb
SES 125.98 334 ePKP 25 16.00 0.7
MEO 127.85 312 iPKPc 25 20.70 1.4
CMB 139.73 330 ePKP 25 43.20 1.6
FRI 140.19 329 ePKP 25 44.20 1.8
S.D. = 1.0 on 101 of 112 obs.

• FEB 22, 1991 22h 41m 45.64± 1.21s
33.813 N ±17.0km 78.188 E ±11.3km
DEPTH = 33.0km (normal)
KASHMIR-TIBET BORDER REGION (304)

NDI 5.18 189 e(P) 43 03.00 0.1
GKN 8.01 135 P 43 42.60 -0.2
KKN 8.56 133 P 43 50.40 0.0
DMN 8.58 134 P 43 50.60 -0.2
PKI 8.79 133 P 43 53.00 -0.8
GUN 8.85 130 P 43 55.60 1.1
TAB 26.07 289 eP 47 18.00 0.0
S.D. = 0.7 on 7 of 7 obs.

% FEB 22, 1991 23h 20m 09.94± 0.84s
41.127 N ± 8.8km 16.315 E ± 5.8km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

BAI 0.42 91 P 20 19.00 0.5
eSg 20 25.00
BRT 0.72 110 P 20 22.70 -1.4
eSg 20 32.50
SGO 0.95 234 P 20 27.60 -0.4
eSn 20 41.60
ORI 1.07 174 P 20 31.60 1.5
eSn 20 45.00
MGR 1.15 211 P 20 30.30 -1.1
eSn 20 48.30
TDS 1.47 179 P 20 36.70 0.3
LCI 1.48 122 P 20 39.00 2.5X
eSn 20 59.10
DUI 1.49 292 P 20 37.10 0.2
eSn 20 57.00
SDI 1.97 288 Pd 20 44.00 0.3
eSn 21 09.00
S.D. = 1.1 on 8 of 9 obs.

FEB 23, 1991 01h 52m 14.91± 0.27s
44.448 N ± 2.9km 10.810 E ± 2.6km
DEPTH = 13.0 ± 1.9 km
NORTHERN ITALY (545)
MD 3.5 (TRI). ML 3.3 (LDG), 3.3
(KBA).

MME 0.27 197 Pd 52 21.00 0.1
eSg 52 25.40
BDI 0.41 202 Pc 52 22.80 -0.7
eSg 52 28.80
FIR 0.74 154 iPgd 52 29.50 0.3
iSg 52 40.00
PGD 0.87 131 P 52 31.60 0.1
eSn 52 44.00
SFI 0.92 125 P 52 32.30 0.2
eSn 52 47.10
BOB 1.02 289 P 52 36.70 2.7X
eSn 52 51.00
CRE 1.16 134 P 52 36.60 0.2
eSn 52 53.60
SAL 1.18 350 P 52 37.90 1.3
eSn 52 55.80
RSM 1.29 113 P 52 40.10 1.6
MDI 1.54 330 P 52 42.80 0.8
eSn 53 04.00
PCP 1.62 274 P 52 44.77 1.4
S 53 12.43
CTI 1.71 20 P 52 44.10 -0.5
eSn 53 06.00
ARV 1.81 121 P 52 46.90 0.9
eSn 53 08.80
CKI 1.81 270 P 52 47.00 1.0
eSn 53 10.30
FIN 1.88 264 P 52 47.44 0.4
S 53 07.83
VVI 1.91 36 P 52 48.00 0.5
ASS 1.92 135 P 52 47.30 -0.4
eSn 53 11.50
VAI 2.02 315 P 52 49.00 0.0
eSn 53 15.00
ROB 2.11 267 P 52 50.69 0.2
S 53 14.28
IMI 2.17 257 P 52 50.91 -0.4
S 53 14.63
VDL 2.25 336 eP 52 53.20 0.7
OSS 2.29 348 eP 52 54.60 1.5
PGF 2.31 215 Pn 52 52.60 -0.7
Sn 53 20.00
ORO 2.33 301 P 52 54.00 0.5
ORX 2.33 302 P 52 52.68 -0.9
ENR 2.44 266 P 52 55.54 0.4
S 53 23.69
TRI 2.44 58 iPnc 52 53.00 -2.1
iSn 53 21.30
i 53 35.70
MNS 2.47 146 P 52 54.70 -0.8
eSn 53 24.00
SBF 2.50 258 Pn 52 55.80 -0.1
Sn 53 25.20
STV 2.51 267 P 52 56.75 0.7
S 53 25.61
DOI 2.55 272 P 52 57.90 1.2
eSn 53 29.00
FVI 2.55 32 P 52 55.70 -0.9
BHB 2.56 280 P 52 58.77 2.0
S 53 28.22
RSP 2.63 287 P 52 55.87 -1.9
S 53 25.90
PZZ 2.66 273 P 52 58.29 0.0
S 53 26.13
LLS 2.73 333 eP 53 00.00 0.6
LSD 2.78 293 P 53 02.61 2.4
DIX 2.90 305 eP 53 02.50 0.6
RRL 2.91 281 P 53 02.33 0.4
SAX 2.98 340 eP 53 04.40 1.4
BNI 3.01 283 P 53 04.00 0.8
LPG 3.07 291 Pn 53 03.60 -0.6
LPL 3.08 292 Pn 53 04.00 -0.4
FRF 3.13 255 Pn 53 04.60 -0.2
Sn 53 39.60
KBA 3.17 33 iPnc 53 06.90 1.3
iPg 53 16.30
iSn 53 45.30
iSg 53 59.30
EMS 3.18 302 eP 53 08.00 2.2
LMR 3.30 252 Pn 53 06.50 -0.8
Sn 53 44.30
LRG 3.36 254 Pn 53 08.00 -0.1
Sn 53 46.00
ZLA 3.47 332 eP 53 09.60 -0.1
SDI 3.52 140 P 53 07.50 -2.8X
SLE 3.69 335 eP 53 12.00 -0.8
CDR 3.72 260 e(Pn) 53 13.30 0.1
e 53 13.70
e 53 56.20
PTJ 3.92 66 ePn 53 16.20 0.1
eSn 54 02.50
BSF 4.39 322 Pn 53 21.50 -1.3
Sn 54 10.20
CDF 4.66 330 Pn 53 25.40 -1.2
Sn 54 17.60
HAU 4.72 321 Pn 53 26.40 -1.0
Sn 54 19.20
KHC 5.06 21 ePg 53 31.00 -1.2
Sg 54 26.50
SMF 5.37 297 Pn 53 35.60 -1.0
LBF 5.42 300 Pn 53 36.40 -0.9
Sn 54 36.00
LOR 5.61 303 Pn 53 39.20 -0.9
Sn 54 40.60
AVF 5.73 297 Pn 53 40.80 -0.9
SSF 5.74 300 Pn 53 40.60 -1.2
BGF 5.98 293 Pn 53 43.20 -2.0
S.D. = 1.0 on 61 of 63 obs.

? FEB 23, 1991 02h 00m 46.26± 2.45s
41.766 N ±21.3km 12.752 E ±16.4km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

RMP	0.06	321	P	00 48.50	0.0
			eSg	00 52.00	
MNS	0.62	355	P	00 58.40	-0.4
			eSg	01 09.50	
SDI	0.80	94	P	01 01.80	0.0
			eSg	01 15.40	
ASS	1.31	357	P	01 10.80	0.3
			eSg	01 31.20	

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

FEB 23, 1991 02h 15m 40.28± 0.98s
41.096 N ±10.5km 16.300 E ± 6.1km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

BAI	0.43	87	Pc	15 49.80	0.8
			eSg	15 56.00	
BRT	0.72	107	P	15 53.20	-1.2
			eSg	16 02.40	
SGO	0.92	235	P	15 57.90	0.0
			eSg	16 13.00	
ORI	1.04	174	P	16 00.70	0.8
			eSn	16 16.00	
MGR	1.11	211	P	16 00.70	-0.4
			eSn	16 16.60	
LCI	1.47	121	P	16 08.90	2.1X
			eSn	16 30.50	
SDI	1.97	289	Pc	16 14.10	0.1
			eSn	16 37.80	

S.D. = 1.0 on 6 of 7 obs.

% FEB 23, 1991 02h 56m 19.65± 0.83s
39.179 N ± 7.3km 3.063 W ± 9.6km
DEPTH = 10.0km (geophysicist)
SPAIN (377)
mbLg 2.0 (MDD).

EVIA	0.69	141	ePg	56 33.00	-0.5
			eSg	56 42.30	
EBAN	1.16	209	ePg	56 41.50	0.1
			eSg	56 58.50	
ECHE	1.67	75	ePn	56 50.00	0.8
			eSn	57 10.50	
GUD	1.69	330	ePn	56 49.60	0.2
			eSn	57 10.00	
ETOR	1.81	25	ePn	56 50.50	-0.7
			eSn	57 12.50	

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

% FEB 23, 1991 03h 06m 47.17± 1.03s
41.176 N ±12.9km 16.329 E ± 5.8km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

BAI	0.41	98	P	06 56.00	0.5
			eSg	07 03.00	
BRT	0.73	114	P	07 00.90	-0.5
			eSg	07 09.90	
SGO	0.99	232	P	07 06.00	0.1
			eSg	07 21.00	
MGR	1.19	210	P	07 09.50	0.1
			eSg	07 26.50	
SDI	1.96	286	P	07 20.80	-0.1
			eSn	07 47.00	

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

? FEB 23, 1991 03h 18m 25.46± 5.91s
14.879 N ±34.8km 60.703 W ±42.5km
DEPTH = 33.0km (normal)
WINDWARD ISLANDS (95)
ML 2.4 (FDF).

CRM	0.24	239	iPc	18 32.54	0.0
			S	18 40.30	
MVM	0.37	210	iPc	18 34.15	-0.1
			S	18 43.50	
FDF	0.46	252	eP	18 35.43	-0.1
	0.1s	0.30nm			
			S	18 45.70	
BIM	0.51	225	eP	18 36.31	0.1
			S	18 47.20	

S.D. = 0.1 on 4 of 4 obs.

% FEB 23, 1991 04h 19m 06.82± 0.66s
41.513 N ± 6.6km 13.785 E ± 6.0km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SDI	0.19	7	Pd	19 11.20	0.1
			eSg	19 15.10	
DUI	0.53	73	P	19 16.90	-0.6
			eSg	19 25.50	
AZI	0.54	331	P	19 17.40	-0.4
			eSg	19 28.00	
RMP	0.86	290	P	19 23.00	-0.5
			eSn	19 37.00	
AQU	0.89	341	P	19 25.10	1.2
MNS	1.20	317	P	19 28.90	-0.3
			eSn	19 47.00	
SGO	1.50	129	P	19 34.00	0.3
			eSn	19 54.50	
ASS	1.77	332	P	19 38.20	0.5
			eSn	20 00.00	
MGR	1.92	135	P	19 40.00	0.1
ARV	2.08	343	P	19 41.60	-0.6
			eSn	20 08.20	

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

FEB 23, 1991 04h 55m 00.92± 0.62s
67.589 N ± 5.2km 158.870 W ± 5.4km
DEPTH = 33.0km (normal)
3.3mb (1 obs.)
ALASKA (676)
ML 3.6 (PMR).

IMA	2.56	124	eP	55 41.90	0.8
BRW	3.81	10	eP	55 58.70	0.1
ANM	4.03	224	eP	56 01.60	-0.2
TTA	4.83	164	eP	56 13.60	0.4
NEA	5.00	123	eP	56 15.93	0.3
MDM	5.04	117	eP	56 16.16	-0.1
RDS	5.15	118	eP	56 17.88	0.2
BWN	5.16	127	eP	56 18.40	0.6
FBA	5.23	116	eP	56 18.70	-0.1
GLM	5.32	114	eP	56 19.67	-0.4
CCB	5.38	118	eP	56 20.46	-0.4
WRH	5.39	120	eP	56 20.67	-0.4
HDA	5.82	118	eP	56 26.60	-0.5
SKT	6.44	147	eP	56 35.67	-0.2
SVW	6.66	166	eP	56 39.00	0.0
NCG	6.85	152	eP	56 41.48	-0.2
SUA	7.07	147	eP	56 44.83	0.0
PMR	7.33	141	eP	56 50.80	2.6X
INK	9.53	74	eP	57 17.00	-1.8X
YKA	19.01	84	eP	59 20.10	-1.9X
	0.6s	1.30nm		3.3mb	

S.D. = 0.4 on 17 of 20 obs.

FEB 23, 1991 04h 59m 38.15± 0.64s
40.551 N ± 8.3km 20.340 E ± 5.8km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
MD 3.1 (ATH).

OHR	0.66	32	iPgc	59 50.50	-0.8
			iSg	00 00.50	
			Lg	00 02.50	
KEK	0.93	207	ePb	59 56.00	0.0
KZN	1.12	102	ePb	59 57.00	-2.2
SKO	1.64	30	ePn	00 08.50	1.3
			i	00 09.70	
			iSn	00 30.50	
LCI	1.83	264	P	00 08.60	-1.3
VAY	1.86	65	iPn	00 11.00	0.7
EVR	1.99	145	ePb	00 14.00	1.7
BRT	2.41	279	P	00 19.50	1.3
MGR	3.68	265	P	00 35.90	-0.4
SGO	3.83	272	P	00 38.50	0.1
SOI	4.14	235	P	00 45.50	2.7X
SDI	5.06	285	P	00 55.50	-0.4

S.D. = 1.4 on 11 of 12 obs.

* FEB 23, 1991 05h 11m 33.85± 0.98s
36.081 S ±14.3km 74.122 W ±14.0km
DEPTH = 33.0km (normal)
4.3mb (2 obs.)
OFF COAST OF CENTRAL CHILE (134)

LNV	3.07	47	iPc	12 20.90	-0.3
			iS	12 54.50	
LCCH	3.34	40	iPc	12 23.60	-1.4
TACH	3.57	48	eP	12 28.20	0.0
			iS	13 11.50	
PCH	3.85	51	eP	12 33.20	0.9
			iS	13 20.50	
ROCH	4.03	41	eP	12 34.50	-0.5
PEL	4.08	45	iPc	12 35.50	0.0
			i	13 24.00	
			iS	13 25.00	
CNCB	19.96	17	Pd	16 08.00	1.3
ZOBO	20.44	17	Pd	16 12.10	0.3
	1.0s	12.50nm		4.2mb	
SIV	23.14	34	P	16 38.60	0.4
PPD	24.28	61	eP	16 56.20	6.9X
VAO	26.88	68	eP	17 12.50	-1.2
ALQ	76.82	333	eP	23 23.00	-1.1
	1.0s	3.50nm		4.3mb	
LIC	77.04	72	P	23 26.30	0.8
TIC	77.31	72	P	23 27.90	0.9
GBA	146.06	124	PKPd	31 11.20	-0.3

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

& FEB 23, 1991 05h 28m 36.91s
60.586 N 152.886 W
DEPTH = 143.7km
3.7mb (1 obs.)
SOUTHERN ALASKA (2)
<AEIC>.

NCT	0.03	221	iP	28 55.69	0.7
			eS	29 09.78	
RDN	0.09	140	iP	28 55.72	0.7
			eS	29 10.18	
REF	0.13	137	eP	28 55.82	0.7
RS2	0.14	153	eP	28 56.14	0.9
RSO	0.14	152	eP	28 55.96	0.8
			eS	29 11.22	
RED	0.18	161	eP	28 55.75	0.6
RDT	0.24	93	iP	28 56.04	0.8
			eS	29 11.28	
CKL	0.67	23	iP	28 58.14	-0.8
BGL	0.72	19	iP	28 58.61	-0.7
SPU	0.72	34	iP	28 58.20	-1.0
CRP	0.77	27	iP	28 59.01	-0.7
NKA	0.83	78	eP	29 00.76	0.9
NCG	0.89	23	iP	28 59.84	-0.8
NNL	0.96	124	eP	29 01.74	0.7
PDB	1.03	220	iP	29 00.94	-0.7
HOM	1.12	146	eP	29 02.06	-0.4
			eS	29 22.24	
AUE	1.26	191	eP	29 03.69	0.0
AUH	1.26	193	eP	29 03.92	0.0
XLV	1.28	152	iP	29 03.61	-0.4
			eS	29 23.29	
AUI	1.28	192	eP	29 03.84	-0.2
BRLK	1.30	129	eP	29 04.57	0.4
			eS	29 23.92	
SLKM	1.32	92	iP	29 03.50	-1.0
			eS	29 24.02	
CNPM	1.35	141	eP	29 04.25	-0.5
			eS	29 25.17	
SUA	1.37	49	iP	29 04.36	-0.7
SVW	1.44	293	iPd	29 04.30	-1.4
SKT	1.55	24	iP	29 06.05	-0.8
MCNL	1.58	208	iP	29 06.86	-0.4
CDD	1.71	193	eP	29 07.75	-0.9
PMS	1.75	66	eP	29 08.14	-1.1
SEW	1.78	104	iP	29 08.53	-0.8
			eS	29 32.56	
PWA	1.81	52	eP	29 08.71	-1.1
SYI	2.00	173	eP	29 11.31	-0.7
			eS	29 37.28	
PLRM	2.09	59	eP	29 11.14	-1.9
			eS	29 37.98	
PMR	2.09	59	eP	29 11.70	-1.3
CUT	2.21	33	iP	29 13.65	-1.0
GHO	2.26	56	iP	29 13.57	-1.7
KNK	2.31	67	iP	29 14.13	-1.8
KNIM	2.56	93	eP	29 16.55	-2.4
MTU	2.67	101	eP	29 19.62	-0.8
TTA	2.78	329	eP	29 20.60	-1.3
HUR	2.85	31	eP	29 21.83	-0.9
			eS	29 54.59	
GLI	2.86	82	eP	29 20.22	-2.6
TRF	3.13	22	eP	29 25.11	-1.3

eS 30 01.36
VZW 3.14 79 eP 29 24.16 -2.3
eS 30 01.42
VLZ 3.25 77 eP 29 25.85 -2.0
eS 30 04.50
RND 3.41 32 eP 29 28.64 -1.4
KLU 3.51 72 eP 29 29.34 -2.0
TOA 3.57 62 eP 29 31.80 -0.4
MCK 3.66 29 eP 29 32.45 -0.8
TZL 3.88 65 eP 29 34.79 -1.4
SDG 4.02 58 eP 29 37.07 -0.9
PAX 4.26 53 eP 29 40.26 -1.0
NEA 4.38 22 eP 29 40.91 -1.8
WRH 4.49 28 eP 29 42.00 -2.2
GLB 4.50 75 eP 29 42.57 -1.8
DDM 4.60 43 eP 29 45.88 0.2
CCB 4.70 28 eP 29 44.75 -2.3
HDA 4.72 33 iP 29 45.73 -1.5
RDS 4.78 25 eP 29 46.02 -2.1
MDM 4.88 24 eP 29 47.22 -2.3
FBA 4.92 26 eP 29 48.60 -1.4
TGL 4.95 84 eP 29 49.33 -1.2
GLM 5.09 27 eP 29 50.29 -2.0
BALM 5.18 80 eP 29 52.35 -1.3
IMA 5.52 357 eP 29 56.80 -1.3
CTGM 5.67 81 eP 30 00.05 -0.2
YKA 18.17 67 eP 32 39.30 -1.4
0.5s 2.00nm 3.7mb
MBC 19.46 23 eP 32 52.00 -2.1
68 obs. associated

% FEB 23, 1991 05h 48m 24.03± 1.04s
41.103 N ±11.3km 16.286 E ± 6.2km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

BAI 0.44 88 P 48 33.00 0.0
eSg 48 39.00
BRT 0.73 108 P 48 36.80 -1.6
eSg 48 45.90
SGO 0.92 234 P 48 41.60 0.0
eSn 48 55.20
ORI 1.05 173 P 48 44.30 0.5
eSn 49 00.30
MGR 1.11 210 P 48 44.10 -0.8
eSn 49 01.40
LCI 1.48 121 P 48 52.30 1.6
SDI 1.95 289 P 48 57.80 0.2
S.D. = 1.2 on 7 of 7 obs.

FEB 23, 1991 05h 55m 44.24± 1.14s
8.167 N ± 5.5km 122.129 E ± 6.4km
DEPTH = 54.1 ± 11.0 km
5.0mb (14 obs.) 4.7Msz (9 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 26C
Centroid Location:
Origin Time 05:55:44.2 0.4
Lat 8.55N 0.07 Lon 122.60E 0.09
Dep 16.3 3.5 Half-duration 2.2
Moment Tensor; Scale 10**17 Nm
Mrr= 1.06 0.12 Mtt=-0.79 0.14
Mff=-0.27 0.13 Mrt=-0.01 0.25
Mrf=-3.27 0.76 Mtf=-0.66 0.11
Principal Axes:
T Val= 3.77 Plg=50 Azm= 82
N -0.71 12 187
P -3.06 37 286
Best Double Couple:Mo=3.4*10**17
NP1:Strike= 68 Dip=14 Slip= 152
NP2: 185 83 78

DAV 3.58 107 eP 56 38.00 -0.6
TSM 5.62 226 ePd 57 08.00 0.7
KKM 6.24 251 iPc 57 12.20 -3.8X
0.3s 63.80nm 5.6mb
QCP 6.51 351 eP 57 30.00 10.2X
BAG 8.33 350 eP 57 46.00 0.7
QIZ 16.09 313 eP 59 24.60 -3.8X
N 11s 3.70um
E 11s 2.60um
GZH 17.07 331 eP 59 43.00 2.3X
Z 15s 4.30um
N 11s 1.40um
E 12s 5.10um

IPM 21.27 262 eP 00 13.50 -14.8X
IPM 21.27 262 ePd 00 30.00 1.7
1.1s 37.60nm 4.7mb
LOE 21.89 297 eP 00 34.00 -0.5
NST 22.76 291 eP 00 45.20 2.2X
SSE 22.83 358 Pc 00 42.00 -1.6
1.0s 25.00nm 4.6mb
Z 20s 1.80um 4.5Msz
E 12s 1.10um
pP 00 52.00 37kmX
sP 01 01.00
S 04 52.00
PJG 22.96 74 e(P) 00 34.00 -11.0X
GUA 22.99 75 e(P) 00 40.70 -4.6X
GYA 23.38 323 P 00 50.00 0.9
Z 20s 2.50um 4.7Msz
N 14s 4.10um
E 14s 4.30um
WHN 23.42 343 eP 00 50.00 0.7
6.0s 600.00nm 5.2mb X
Z 14s 1.70um 4.7MszX
E 11s 2.60um
pP 01 03.00 53kmX
NJ2 23.96 353 Pd 00 55.00 0.5
6.0s 1000.00nm 5.5mb X
Z 16s 0.90um 4.3MszX
N 11s 1.10um
E 13s 1.80um
S 05 12.00
KHT 23.97 288 eP 00 55.00 0.2
BDT 24.27 294 eP 00 55.50 -2.2
CHG 24.87 298 eP 01 02.80 -0.7
1.0s 12.25nm 4.4mb
KMI 25.03 315 Pd 01 03.00 -2.2
Z 16s 4.70um 5.1MszX
TIA 28.29 351 eP 01 33.10 -1.5
Z 18s 1.30um 4.6Msz
E 13s 2.50um
eS 06 16.00
CD2 28.40 325 eP 01 34.70 -1.1
Z 18s 7.70um 5.3Msz
E 12s 3.90um
S 06 19.00
XAN 28.48 337 P 01 41.10 4.6X
N 13s 2.10um
E 12s 1.80um
S 06 20.00
WB2 30.42 157 iPc 01 52.60 -1.2
TIY 30.70 345 eP 01 58.00 1.8
Z 14s 2.40um 5.0MszX
N 14s 2.20um
MAT 31.82 25 (P) 01 44.00 -22.0X
Z 20s 1.42um 4.6Msz
(S) 06 58.00
BJI 32.18 351 eP 02 10.00 0.9
Z 28s 1.38um 4.5MszX
eS 07 16.00
LZH 32.42 332 eP 02 17.00 5.6X
2.0s 71.00nm 5.2mb
Z 22s 2.84um 4.9Msz
E 13s 2.75um
pP 02 26.00 31kmX
PP 03 17.00
SNY 33.55 2 eP 02 18.00 -2.9X
1.2s 20.00nm 4.9mb
Z 17s 1.80um 4.9MszX
S 07 37.00
ASPA 33.67 160 iPc 02 21.00 -1.2
0.9s 14.40nm 4.9mb
HHC 33.88 346 P 02 24.00 0.0
Z 17s 2.40um 5.0MszX
N 14s 0.50um
E 13s 1.20um
S 07 46.00
SS 09 58.00
BTO 34.05 343 eP 02 30.00 4.5X
N 13s 1.00um
E 13s 2.20um
esP 02 40.00
eS 07 50.00
eSS 09 51.00
CN2 35.61 4 Pc 02 36.00 -2.6X
6.0s 600.00nm 5.7mb X
Z 15s 2.30um 5.1MszX
N 12s 0.90um
E 12s 0.60um
pP 02 50.00 54kmX

PP 03 58.00
S 08 08.00
SS 10 32.00
MDJ 36.89 9 eP 02 49.00 -0.3
Z 20s 1.50um 4.8Msz
pP 02 56.00 24kmX
PP 04 16.00
S 08 32.00
GTA 36.99 331 eP 02 51.50 1.1
1.0s 10.00nm 4.7mb
Z 16s 4.80um 5.4MszX
E 13s 3.40um
pP 02 55.50 13kmX
sP 02 58.60
S 08 30.00
SS 11 08.00
GUN 39.44 305 P 03 11.20 -0.2
PKI 39.70 304 P 03 13.20 -0.3
KKN 39.89 304 P 03 14.40 -0.5
DMN 39.96 304 P 03 16.00 0.4
GKN 40.49 304 P 03 14.40 -5.4X
NWAO 41.13 186 eP 03 25.00 0.3
Z 20s 0.60um 4.5Msz
N 20s 0.60um
E 20s 1.00um
GBA 44.17 281 P 03 50.00 0.2
ADE 45.67 161 iPc 04 02.00 0.4
1.0s 56.00nm 5.4mb
BRS 46.15 141 iPc 04 05.00 -0.4
e 05 51.00
eS 10 48.00
WMQ 46.50 326 P 04 11.00 3.0
Z 18s 2.30um 5.2Msz
N 14s 3.40um
eS 10 58.00
POO 47.96 288 eP 04 18.50 -1.3
iS 11 16.00
BFD 48.99 158 eP 04 28.00 0.6
CNB 50.31 151 eP 04 39.00 1.4
DZM 52.82 126 iPc 04 57.10 0.3
ANM 75.18 25 eP 07 24.10 1.7
BRW 79.46 19 eP 07 48.00 2.0
IMA 80.23 24 ePc 07 50.90 0.5
1.6s 66.70nm 5.3mb
PMR 82.28 29 eP 08 00.10 -0.9
1.3s 46.80nm 5.3mb
FBA 82.70 25 eP 08 02.50 -0.7
TOA 83.64 28 eP 08 07.70 -0.4
INK 87.72 21 eP 08 27.50 -0.6
MBC 88.63 12 eP 08 32.50 0.2
1.2s 21.00nm 5.3mb
DAG 92.27 352 eP 08 48.20 -1.0
1.1s 8.86nm 5.1mb
YKA 97.30 23 eP 09 11.60 -0.9
0.9s 2.70nm 4.8mb
ALQ 117.23 44 e(PKP)14 25.00 -0.9
LPB 167.01 131 PKP 15 47.00 0.7
ZOBO 167.15 130 PKP 15 47.50 0.9
1.2s 3.38nm
Z 24s 0.20um 4.7Msz
LR 10 35.00
S.D. = 1.1 on 48 of 63 obs.

FEB 23, 1991 06h 21m 50.54± 0.29s
40.560 N ± 3.5km 20.272 E ± 2.3km
DEPTH = 25.7 ± 3.2 km
3.8mb (2 obs.)
GREECE-ALBANIA BORDER REGION (392)
ML 4.5 (ATH), 4.1 (TTG).

BERA 0.28 300 eP 21 56.40 -1.0
eS 22 03.10
TPE 0.33 217 eP 21 57.50 -0.6
eS 22 03.60
KBN 0.42 81 eP 21 55.90 -3.5X
eS 22 01.50
LSK 0.48 148 eP 21 56.80 -3.7X
eS 22 05.00
OHR 0.68 36 iPgc 22 02.50 -1.3
iSg 22 12.40
TIR 0.84 339 eP 22 07.50 1.0
eS 22 25.00
FNA 0.87 75 eP 22 04.40 -2.6
KEK 0.92 203 eP 22 06.60 -1.1
IGT 1.03 177 eP 22 08.50 -0.8
KZN 1.17 102 eP 22 09.00 -2.4
KKS 1.52 4 iPgd 21 56.80 -19.4X

23d 06h

			iSg	22	05.00		VAM	6.01	148	ePb	22	56.00	-24.0X		at Friendly Cove, Surge Narrows,							
SDA	1.57	338	eP	22	20.40	3.5X	UZD	6.15	349	e(P)	23	26.00	3.9X		Thasis and Zebollos; (IV) at							
			eS	22	45.00		ARV	6.20	301	Pc	23	21.80	-1.0		Ahousat, Estevan Point, Gold							
ULC	1.60	332	iPnd	22	20.20	2.7X				iSn	24	35.00			River, Telegroph Cove and Woss;							
			iSn	22	43.17		PTJ	6.20	331	iPnc	23	21.60	-1.2		(III) at Alert Boy, Cool							
SKO	1.66	32	ePn	22	19.50	1.1				iSn	24	31.10			Horbour, Kingcome Inlet, Port							
			i	22	20.50		ASS	6.21	296	P	23	23.00	-0.1		Hordy, Port McNeill and on							
LIT	1.76	104	eP	22	18.20	-1.6				eSn	24	34.50			Minstrel Island; (II) at Port							
LCI	1.78	263	Pc	22	19.80	-0.3	RIY	6.44	320	ePn	23	24.80	-1.3		Renfrew and Sechelt. Also felt							
			iSn	22	48.00					iSn	24	37.80			at Kyuquot.							
BCI	1.81	355	eP	22	24.40	3.9X	ISR	6.49	43	eP	23	29.00	2.1										
			eS	22	49.90		TIH	6.57	346	iP	23	38.80	10.9X		ETB	0.20	123	Pd	25	13.64	-0.7	
VAY	1.90	66	iPn	22	22.30	0.5	RSM	6.71	303	P	23	29.00	-0.9		EDB	0.44	332	Pc	25	16.78	-0.5	
			i	22	24.40		CRE	6.91	299	P	23	32.20	-0.6					S	25	23.32		
			iSn	22	48.30					eSn	24	52.00			GDR	0.58	59	Pd	25	18.29	-1.0	
			Lg	22	55.40		BUD	6.98	353	e(P)	23	40.00	6.3X					S	25	26.24		
TTG	2.02	338	iPnd	22	26.23	2.8X	TRI	7.01	319	iPnd	23	32.40	-1.7		BTB	0.83	91	Pc	25	23.00	-0.1	
			iSn	22	54.40					iSn	24	49.30						S	25	34.10		
EVR	2.02	144	eP	22	25.10	1.4				i	25	35.60			OZB	1.01	121	Pc	25	25.26	-0.2	
BDV	2.04	328	iPnc	22	25.67	1.9	SFI	7.09	301	P	23	34.90	-0.4		KBB	1.03	29	Pd	25	25.90	0.1	
			iSn	22	52.67		MAO	7.09	288	P	23	36.60	1.3		CBB	1.08	59	P	25	26.61	0.1	
PVY	2.05	354	iPnd	22	28.17	4.1X	VRI	7.10	39	ePc	23	37.50	2.2		PHC	1.29	342	P	25	29.68	0.3	
			iSn	22	56.95		PGD	7.16	300	P	23	36.50	0.1		ALB	1.31	99	P	25	29.51	-0.2	
THE	2.05	87	eP	22	24.10	0.1	PSZ	7.36	358	e(P)	23	41.00	1.9		MGB	1.47	109	Pc	25	31.51	-0.7	
			eS	22	50.00		SRO	7.39	350	e(Pn)	23	57.40	18.1X		PFB	1.80	120	Pc	25	35.97	-1.0	
KNT	2.08	72	eP	22	24.28	-0.2				e	25	07.30			NAB	1.85	97	Pc	25	37.30	-0.2	
AGG	2.21	133	eP	22	27.30	1.0	FIR	7.43	299	e(Pn)	23	51.00	11.0X		OSP	1.89	129	Pc	25	37.64	-0.5	
HCY	2.31	325	iPnc	22	28.98	1.4				i(Sn)	25	05.00			OTR	2.15	130	Pc	25	41.40	-0.4	
			iSn	22	58.82		VVI	7.88	316	P	23	44.70	-1.7		OFK	2.23	133	Pc	25	42.53	-0.5	
IVA	2.33	353	iPnc	22	31.93	4.0X	MME	7.96	300	P	23	47.90	0.2		OBC	2.32	128	Pc	25	43.64	-0.6	
			iSn	23	03.57					eSn	25	17.50			WPB	2.34	84	Pc	25	44.25	-0.3	
BRT	2.35	279	Pc	22	29.60	1.3	ZST	7.96	345	eP	23	47.60	0.2		PGC	2.36	110	Pc	25	43.84	-0.9	
			iSg	23	08.00		BDI	7.98	299	P	23	47.00	-0.8		OOW	2.46	134	Pc	25	45.80	-0.5	
SOH	2.36	83	eP	22	27.90	-0.5				eSn	25	17.00			STW	2.46	122	Pc	25	45.28	-1.0	
PLG	2.43	93	eP	22	29.00	-0.4	FVI	8.12	320	P	23	48.50	-1.1		OSD	2.65	128	Pc	25	48.23	-0.8	
NKY	2.44	337	iPnd	22	31.98	2.3				eSn	25	19.50			MCW	2.73	106	P	25	49.56	-0.5	
			iSn	23	04.25		VKA	8.21	341	eP	24	03.00	12.2X		BLN	2.94	119	P	25	52.01	-1.0	
KKB	2.49	57	eP	22	31.00	0.7	KBA	8.22	325	ePn	23	50.00	-1.1		OHW	3.05	111	P	25	54.15	-0.4	
SRS	2.58	76	eP	22	31.47	-0.1				ic	23	50.70			HDW	3.10	125	P	25	54.55	-0.7	
NEO	2.59	118	eP	22	31.50	-0.2				iSn	25	21.90			PGW	3.25	119	P	25	57.24	-0.1	
BAI	2.64	283	P	22	33.00	0.6	CTI	8.34	314	P	23	50.40	-2.4		MBW	3.29	100	P	25	57.71	-0.6	
			eSn	23	05.00					eSn	25	25.00			GMW	3.30	125	P	25	57.24	-1.0	
BRY	2.67	332	iPnd	22	34.55	1.6	SPC	8.63	360	eP	24	08.40	11.5X		ONR	3.31	141	P	25	57.50	-0.8	
			iSn	23	08.10		PGF	8.68	287	eP	23	57.70	0.1		JCW	3.47	110	P	25	59.93	-0.6	
MMB	2.81	67	ePd	22	35.00	0.2		1.0s		22.00nm			5.3mb X		CPW	3.51	134	P	26	00.19	-1.0	
PLE	2.84	347	iPnd	22	38.67	3.4X	SAL	8.73	308	P	23	57.00	-1.1		BLH	3.57	116	P	26	01.67	-0.2	
			iSn	23	14.58		BHG	8.91	326	iPd	24	00.50	-0.1		MEW	3.59	128	P	26	02.86	0.6	
ORI	2.96	262	P	22	38.00	1.0	SCE	8.96	319	iPnd	23	59.90	-1.5		SPW	3.59	121	P	26	02.92	0.7	
			eSn	23	20.00		BOB	9.01	301	P	24	00.00	-2.1		RPW	3.64	105	P	26	02.43	-0.5	
VTS	3.00	46	iPd	22	38.00	0.5	OGA	9.19	316	eP	24	03.50	-1.2		HTW	3.74	115	P	26	04.09	-0.3	
TDS	3.15	255	P	22	41.30	1.7	MDI	9.31	308	P	24	04.70	-1.4		BMW	3.85	140	P	26	05.04	-1.0	
			eSn	23	24.00					eSn	25	48.00			GHW	3.89	127	P	26	06.44	-0.1	
PGB	3.53	54	iPd	22	45.00	-0.2	CKI	9.66	297	P	24	09.50	-1.5		RMW	3.89	120	P	26	06.46	-0.2	
RZN	3.54	70	iPc	22	46.00	0.6	KHC	9.80	333	eP	24	13.10	0.3		APW	3.98	134	P	26	06.96	-0.8	
ITM	3.61	159	eP	22	46.20	0.0				e	24	28.40			NLO	4.08	145	P	26	09.18	-0.1	
MGR	3.63	265	Pc	22	47.80	1.4	VAI	9.93	306	P	24	11.50	-3.1X		RVC	4.11	126	P	26	09.53	-0.2	
			iSn	23	34.00		ORO	10.31	303	P	24	18.00	-2.1		LMW	4.13	131	P	26	10.40	0.3	
PLD	3.68	64	iPd	22	48.00	0.9	BNI	10.95	299	P	24	28.00	-0.8		CZM	4.20	135	P	26	11.55	0.6	
ATH	3.72	133	eP	22	50.60	3.0X	LPG	11.06	301	eP	24	26.40	-4.0X		REMR	4.26	127	P	26	11.83	-0.1	
SGO	3.78	272	P	22	48.90	0.4		0.4s		4.00nm			5.0mb X		LON	4.32	127	eP	26	12.00	-0.7	
			eSn	23	39.00		LPL	11.08	301	eP	24	26.80	-3.8X		KMOR	4.46	149	P	26	13.85	-0.8	
HVAR	3.87	314	iPnd	22	49.70	-0.1		0.3s		2.55nm			4.9mb X		NLW	4.50	106	P	26	14.92	-0.4	
			iSn	23	35.60		GRF	11.14	328	e(P)	24	33.00	1.9		SHW	4.51	135	eP	26	15.00	-0.4	
RDO	4.04	80	eP	22	51.00	-1.2	BSF	12.09	311	eP	24	40.90	-3.3X		ETW	4.69	111	P	26	17.23	-0.8	
KDZ	4.04	73	iP	22	51.00	-1.2		0.7s		8.80nm			5.1mb X		PNT	4.69	89	P	26	17.40	-0.5	
SOI	4.11	234	P	22	52.50	-0.7	CDF	12.14	315	eP	24	42.10	-2.7X		PGO	4.99	142	P	26	23.31	1.2	
			eSn	23	42.00		HAU	12.44	311	eP	24	45.70	-3.0X		GT2	5.32	143	P	26	27.03	0.3	
DIM	4.23	68	eP	22	54.00	-1.0	SMF	13.36	303	eP	24	57.90	-3.1X		VGB	5.70	132	eP	26	32.00	-0.1	
DUI	4.53	286	P	23	00.70	1.4	LBF	13.40	304	eP	24	58.40	-3.1X		OD2	5.78	108	P	26	31.68	-1.6	
			eSn	23	58.00		LOR	13.59	305	eP	25	01.20	-2.8X		DPW	5.92	103	eP	26	33.50	-1.8	
PVL	4.62	53	iPc	22	56.00	-4.4X	BGF	13.98	301	eP	25	06.50	-2.5X		HSO	6.49	155	P	26	45.16	1.9	
EZN	4.69	97	ePn	23	01.10	-0.4	HFS	20.02	350	eP	26	21.60	-2.4X		NEW	6.50	97	eP	26	40.90	-2.6	
BLY	4.77	332	ePn	23	03.90	1.4		0.4s		1.80nm			3.8mb		LBFM	8.84	155	eP	27	19.00	2.8	
			eSn	23	50.90		NUR	20.16	6	eP	26	39.00	13.6X		FHC	8.91	166	eP	27	20.10	3.1	
RFI	4.82	281	P	23	05.28	2.0	NB2	21.25	348	P	26	34.40	-2.3		SIT	9.13	329	eP	27	21.40	1.4	
SDI	5.01	285	P	23	07.10	1.1		0.9s		3.60nm			3.8mb		EDM	9.21	61	iPc	27	19.20	-1.9	
			iSn	24	08.00		KAF	21.89	8	eP	26	47.00	3.9X					pP	29	03.40		
JMB	5.11	66	eP	23	07.00	-0.4	KIC	40.75	220	P	29	31.30	0.2		WDC	9.40	160	iPc	27	27.30	3.6	
BZS	5.15	11	Pc	23	12.50	4.6X	LIC	41.01	220	P	29	33.50	0.3		MIN	9.85	156	eP	27	33.30	3.2	
AZI	5.35	288	P	23	12.40	1.7	S.D. = 1.2 on 88 of 124 obs.								SES	10.20	79	P	27	32.80	-2.0	
APE	5.39	129	eP	23	10.60	-0.8	---								LRM	10.35	105	eP	27	34.90	-2.1	
AOU	5.46	291	P	23	13.50	1.0	& FEB 23, 1991 06h 25m 07.60s								ORV	10.62	157	eP	27	44.00	3.5	
IZM	5.82	110	eP	23	18.60	1.1	49.488 N 126.801 W								KVN	12.15	146	eP	28	04.10	2.8	
CMP	5.86	35	ePc	23	07.00	-11.0X	DEPTH = 34.1km								CMB	12.35	156	eP	28	05.70	1.9	
TNR	5.87	29	ePd	23	25.00	6.9X	4.6mb (17 obs.)								MHC	12.70	161	eP	28	14.00	5.3	
MNS	5.99	290	P	23	19.30	-0.5	VANCOUVER ISLAND REGION (25)								ARN	12.72	161	eP	28	11.60	2.8	
			eSn	24	32.00		<PGC>. ML 4.9 (PGC). Felt (VI)								BONR	13.05	149	eP	28	16.30	2.9	

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TNP     13.32 145 eP     28 19.00    2.1
FRI     13.51 155 eP     28 21.50    2.4
DUG     13.57 128 eP     28 21.30    1.1
BW06    13.70 113 eP     28 22.30    0.4
        0.8s     19.05nm          5.0mb
DAU     14.24 124 eP     28 30.50    1.4
YKA     14.67  23 eP     28 32.60   -1.6
        1.1s      7.50nm          4.0mb
ISA     15.10 153 eP     28 49.00    8.9
MSU     15.17 131 eP     28 42.20    1.0
CLC     15.23 150 eP     28 45.00    3.3
SYP     15.78 159 eP     28 57.00    8.1
GSC     15.96 149 eP     28 54.00    2.8
FFC     16.08  62 eP     28 47.00   -5.5
        0.5s      5.00nm          3.9mb
FFC     16.08  62 eP     28 54.00    1.5
        0.6s     37.00nm          4.7mb
RSSD    16.46 100 eP     29 00.00    2.4
MWC     16.57 154 eP     29 05.00    6.0
TOA     16.59 327 eP     29 01.50    2.5
        1.2s    113.64nm          4.9mb
RVR     16.98 152 eP     29 09.00    5.0
PEC     17.14 152 eP     29 08.50    2.5
TPC     17.31 149 eP     29 10.00    1.9
PMR     17.39 323 eP     29 13.50    4.6
        1.4s     53.98nm          4.5mb
PLM     17.73 152 eP     29 16.00    2.4
GOL     18.07 115 eP     29 17.50   -0.3
        0.8s      8.93nm          4.0mb
BAR     18.42 152 eP     29 25.00    3.2
GLA     18.69 147 eP     29 28.00    2.9
FBA     19.02 332 eP     29 28.40   -0.5
        1.0s      7.50nm          3.9mb
INK     19.17 352 eP     29 34.00    3.4
ALQ     20.84 127 ePc    29 50.00    1.1
        1.2s     27.34nm          4.5mb
TTA     20.85 321 eP     29 50.50    1.9
        1.2s     45.45nm          4.7mb
IMA     21.65 330 eP     29 59.00    2.2
        1.3s     28.00nm          4.5mb
MEO     25.38 115 e(P)   30 34.50    1.3
BRW     25.86 338 eP     30 40.50    3.2
MBC     27.02   4 eP     30 50.50    2.7
        1.1s     15.00nm          4.5mb
FRB     33.74  43 eP     31 48.00    0.6
GAC     34.27  76 ePd    31 53.00    0.8
        0.5s      2.00nm          4.3mb
DAG     46.27  18 iPc    33 32.00    1.1
        0.9s      9.24nm          4.7mb
NB2     64.77  21 P      35 44.60    0.2
        0.9s      4.70nm          4.6mb
CN2     67.73 312 P      36 04.00    0.5
MOX     74.10  26 e(P)   36 44.00    2.3
BRG     74.54  25 eP     36 46.60    2.4
        1.4s     24.00nm          5.0mb
                  e      36 52.60
GRF     74.83  27 e(P)   36 54.60    8.6
KSP     75.19  23 eP     36 50.00    2.0
KHC     76.02  26 P      36 55.60    2.9
HHC     76.44 318 P      36 56.80    1.4
BTO     77.31 319 P      37 01.60    1.4
TIA     77.64 312 eP     37 03.10    1.2
TIY     78.63 316 Pd     37 08.80    1.4
WMQ     82.30 336 P      37 29.50    2.7
                  pP     37 39.50   32kmX
GTA     82.40 325 eP     37 29.00    1.5
        0.8s     10.00nm          4.9mb
XAN     83.26 316 P      37 33.40    1.5
CCH     85.41 123 P      37 45.50    2.4
SIV     87.12 119 eP     37 49.00   -2.2
GYA     90.69 314 P      38 10.60    2.3
BUL    144.76  43 iPKPc  44 43.60    1.0
SLR    149.41  48 iPKPc  44 55.00    5.0
        0.9s     16.00nm
      126 obs. ossociated
-------------------------------------
   FEB  23, 1991  06h 52m 11.08± 0.57s
   47.489 N ± 7.3km  115.791 W ± 5.5km
   DEPTH =   1.0km  (geophysicist)
 MONTANA                          (456)
     ML 2.4 (GS).

EBI      0.69 199 P      52 24.90    0.1
NEW      1.18 311 eP     52 34.00    0.0
DPW      1.67 284 eP     52 41.70    0.0
HBMT     2.77 127 ePn    52 57.20   -0.6
HRY      2.81 105 ePn    52 58.80    0.6
LRM      2.84 125 ePn    52 58.50   -0.2
MCMT     3.36 141 ePn    53 06.50    0.5
BGMT     3.44 130 ePn    53 06.90   -0.3
MEMT     3.82 118 ePn    53 12.50   -0.1
     S.D. = 0.4  on   9 of   9 obs.
-------------------------------------
*  FEB  23, 1991  07h 14m 44.91± 0.80s
   37.463 N ±11.7km  113.461 E ± 7.4km
   DEPTH =  33.0km  (normol)
 NORTHEASTERN CHINA               (658)
     ML 3.5 (BJI).

TIY      0.85 287 iPgc   15 01.20    0.6
                 Sg      15 13.20
TIA      3.19 112 Pnd    15 33.90   -0.1
                 Pg      15 40.70
                 Sn      16 10.20
                 Sg      16 20.50
BJI      3.34  39 Pg     15 36.00    0.1
                 Sg      16 17.00
XAN      5.03 229 Pn     16 00.20    0.1
                 Sg      17 20.10
GTA     10.88 284 eP     17 20.80   -0.7
                 S       19 21.40
     S.D. = 0.7  on   5 of   5 obs.
-------------------------------------
   FEB  23, 1991  07h 27m 12.65± 0.65s
   42.429 N ± 6.1km   19.744 E ± 5.2km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                       (383)
     ML 2.4 (TTG).

PVY      0.24  46 iPgc   27 16.16   -1.6
                 iSg     27 19.96
TTG      0.36 270 iPgc   27 19.43   -0.6
                 iSg     27 27.81
IVA      0.46  14 iPgd   27 21.25   -0.7
                 iSg     27 28.65
ULC      0.59 218 iPgd   27 23.46   -1.2
                 iSg     27 32.88
NKY      0.67 305 iPgc   27 26.88    0.8
                 iSg     27 38.48
BDV      0.69 258 iPgc   27 26.03   -0.4
                 iSg     27 38.21
HCY      0.92 272 iPgc   27 30.66    0.4
                 iSg     27 46.83
PLE      0.94 344 iPgc   27 31.13    0.5
                 iSg     27 46.45
BRY      1.00 298 iPgc   27 32.46    0.7
                 iSg     27 49.35
SKO      1.34 109 iPn    27 39.50    2.2
                 iSn     27 54.50
OHR      1.54 149 ePn    27 40.00   -0.2
     S.D. = 1.2  on  11 of  11 obs.
-------------------------------------
*  FEB  23, 1991  07h 29m 03.84± 0.59s
   37.303 N ±13.9km   71.463 E ±14.8km
   DEPTH =  33.0km  (normol)
   4.2mb (  3 obs.)
 AFGHANISTAN-USSR BORDER REGION   (717)

GKN     14.45 126 P      32 28.60    0.6
KKN     15.01 125 P      32 35.60    0.2
DMN     15.02 126 P      32 35.40   -0.2
PKI     15.24 126 P      32 38.00   -0.6
GUN     15.32 124 P      32 39.80    0.1
GBA     24.20 166 Pc     34 18.30   -0.1
HFS     42.67 321 eP     36 58.50   -0.2
        0.4s      4.40nm          4.5mb
NB2     43.97 323 P      37 09.60    0.3
        0.5s      2.00nm          4.2mb
INK     73.06   9 eP     40 32.00    0.1
YKA     80.43   3 eP     41 12.80   -0.3
        0.6s      0.80nm          3.9mb
     S.D. = 0.4  on  10 of  10 obs.
-------------------------------------
?  FEB  23, 1991  08h 25m 43.83± 1.13s
   16.339 N ±18.4km   61.389 W ±12.6km
   DEPTH =  33.0km  (normol)
 LEEWARD ISLANDS                  ( 92)
     ML 1.7 (FDF).

SEG      0.13 300 iPd    25 49.77    0.0
                 S       25 52.00
DEG      0.32  95 eP     25 51.87    0.0
                 S       25 56.50
DOG      0.38 216 ePc    25 52.59   -0.1
                 S       25 57.40
PAG      0.42 222 eP     25 53.33    0.1
                 S       25 58.50
     S.D. = 0.1  on   4 of   4 obs.
-------------------------------------
?  FEB  23, 1991  08h 52m 16.61± 1.73s
    4.774 S ±19.1km  144.755 E ±21.8km
   DEPTH =  33.0km  (normol)
   4.4mb (  1 obs.)
 NEAR N COAST OF PAPUA NEW GUINEA(200)

MNDI     1.75 218 iP     52 34.00  -11.4X
YYYY     1.89 140 iPc    53 00.20   12.9X
PMG      5.18 153 eP     53 33.00   -0.9
WB2     18.17 213 eP     56 27.00   -1.1
                 eS      01 15.00
ASPA    21.50 208 iPc    57 05.90    1.0
        0.9s     15.00nm          4.4mb
QLP     21.69 181 iPd    57 07.00    0.3
RMQ     21.93 170 iPd    57 10.20    1.1
PKI     65.61 303 P      03 00.00   -0.3
SIV    147.15 129 PKP    12 14.00   17.3X
     S.D. = 1.2  on   6 of   9 obs.
-------------------------------------
   FEB  23, 1991  09h 31m 40.38± 0.17s
   45.222 N ± 3.9km  150.449 E ± 3.0km
   DEPTH =  38.5km  (  6 depth phases)
   5.4mb ( 89 obs.)  4.6Msz ( 14 obs.)
 KURIL ISLANDS                    (221)

KUSJ     4.64 245 P      32 49.90    0.0
                 S       33 41.50
ASAJ     5.68 262 P      33 08.00    3.6X
HOOJ     5.91 244 P      33 09.60    1.9
                 S       34 17.50
SAP      6.91 255 eP     33 26.00    4.3X
MRRJ     7.33 251 eP     33 28.90    1.2
                 S       34 51.30
AOMJ     8.74 241 eP     33 47.10   -0.1
                 eS      35 18.90
OFUJ     8.95 230 P      33 47.40   -2.7X
                 S       35 23.50
YAMJ    10.49 231 eP     34 09.60   -1.7
NIIJ    11.73 231 eP     34 26.40   -1.7
KAKJ    11.90 224 P      34 28.90   -1.5
                 eS      36 34.20
CHJJ    12.62 227 eP     34 38.10   -2.0
                 S       36 51.90
MAT     12.67 231 eP     34 39.00   -1.8
        0.9s     23.53nm          5.2mb
     Z  20s      1.06um          4.5Msz
                 (S)     36 50.00
MTMJ    12.87 232 eP     34 41.10   -2.3
IIDJ    13.63 229 eP     34 52.40   -0.9
TSRJ    14.65 234 eP     35 03.70   -2.9
MDJ     14.79 275 eP     35 11.50    3.0X
     Z  20s      2.30um
CN2     17.87 274 Pc     35 46.00   -1.6
     Z  16s      4.70um
     E  14s      1.00um
                 esP     35 58.00
                 eS      39 00.00
SHNJ    18.51 240 eP     35 55.50    0.1
SNY     19.74 270 Pc     36 08.00   -1.7
        1.4s    100.00nm          4.9mb
     Z  17s      1.80um          4.5MszX
     E  15s      1.40um
                 eS      39 40.00
KUMJ    19.78 237 eP     36 11.30    1.2
KAGJ    20.73 234 eP     36 21.80    1.9
DL2     22.24 264 eP     36 36.00    0.9
        1.0s     80.00nm          5.1mb
                 S       40 37.00
BJI     25.62 271 Pc     37 08.00    0.3
        1.0s     53.00nm          5.1mb
     Z  18s      1.47um          4.6Msz
                 eS      41 32.00
                 esS     41 52.00
TIA     26.66 262 eP     37 17.70    0.4
SSE     26.81 248 Pd     37 20.00    1.2
        1.0s     62.00nm          5.2mb
     Z  20s      0.90um          4.3Msz
     E  12s      0.60um
NJ2     27.77 253 Pc     37 28.00    0.5
     Z  18s      0.70um          4.3Msz
HHC     28.56 275 iPc    37 35.40    0.7
     Z  18s      2.40um          4.8Msz
```

23d 09h

	E	16s		1.50um				SAO	63.87	63	eP	42	11.50	0.2	WET	78.99	333	iPc	43	42.00	0.5
TIY		29.25	269	Pc	37	41.50	0.7	KAF	64.03	334	eP	42	10.40	-1.5		1.0s		84.00nm			5.7mb
	Z	16s		1.00um			4.5MszX		0.7s		8.80nm			4.9mb	GRF	79.03	334	iPc	43	42.10	0.4
	E	16s		0.80um				PRS	64.19	64	eP	42	13.70	0.4		0.9s		64.00nm			5.6mb
				S	42	34.00		LLA	64.28	63	eP	42	14.00	0.0	Z	19s		0.50um			4.9Msz
BTO		29.75	276	P	37	45.00	-0.3	FRI	64.82	62	eP	42	17.60	0.2				e	44	06.20	92kmX
	N	15s		0.70um				QUE	64.96	288	iPc	42	19.00	0.3	UZD	79.22	328	e(P)	43	42.00	-0.7
	E	15s		1.10um				TNP	65.68	60	iPd	42	23.10	-0.1	TNS	79.37	336	ePc	43	43.30	-0.3
ANM		31.02	36	ePc	37	56.30	0.1	NUR	65.78	334	eP	42	21.40	-1.8	ENN	79.57	338	e(P)	43	43.50	-1.0
WHN		31.74	255	Pc	38	03.20	0.4		0.5s		5.80nm			4.9mb		0.9s		71.00nm			5.6mb
		0.7s		30.00nm			5.3mb	ISA	66.43	63	eP	42	27.00	-0.9	ABH	79.93	337	eP	43	46.96	0.4
				pP	38	14.50	42km	WB2	66.49	197	iPc	42	28.10	0.0	SNF	80.23	339	P	43	48.10	0.0
XAN		33.54	265	iPc	38	18.30	-0.2	CLC	66.89	62	eP	42	30.00	-0.7	BHG	80.24	332	iPd	43	48.90	0.7
TTA		34.79	40	ePc	38	29.40	0.3	FRB	67.09	18	ePc	42	30.10	-1.3		0.8s		37.00nm			5.4mb
		0.9s		21.80nm			5.1mb		0.7s		43.00nm			5.6mb	FUR	80.36	334	iPd	43	49.30	0.5
SVW		34.86	43	ePc	38	30.60	0.9	BW06	67.14	52	iP	42	33.00	0.5		1.0s		40.00nm			5.3mb
LZH		36.08	272	iPc	38	41.50	1.1	MWC	67.62	64	eP	42	46.00	10.5X	DOU	80.53	339	Pc	43	49.20	-0.5
		1.0s		160.00nm			5.9mb	GSC	67.71	62	eP	42	36.00	0.0		0.7s		20.00nm			5.2mb
	Z	26s		0.83um			4.4MszX	POO	67.73	274	iPc	42	34.30	-2.0	KDZ	80.54	322	iP	43	51.00	1.1
	E	10s		0.30um					0.9s		58.82nm			5.7mb	KBA	80.64	332	iPc	43	51.20	0.6
IMA		36.13	35	iPc	38	40.70	0.3	RVR	68.20	63	eP	42	38.00	-0.9		0.8s		52.60nm			5.6mb
		1.1s		50.80nm			5.4mb	UPP	68.39	337	iP	42	36.60	-3.0X				id	43	51.80	2kmX
BRW		36.15	26	iPc	38	40.90	0.6	PEC	68.40	63	eP	42	39.80	-0.4				i	44	24.60	
RSO		36.27	44	eP	38	42.40	0.7	GBA	68.52	268	P	42	40.20	-0.9	FVM	80.69	44	eP	43	50.00	-0.8
GZH		37.36	246	iPd	38	53.20	2.2	PLM	68.94	64	eP	42	44.00	0.3		0.6s		22.11nm			5.3mb
GTA		37.38	279	iPc	38	52.20	1.0	TPC	68.96	63	eP	42	44.00	0.3				e	44	01.70	38km
		1.0s		40.00nm			5.3mb	NB2	69.05	340	P	42	41.60	-2.2	VTS	80.72	323	iPc	43	50.00	-1.0
	Z	18s		0.70um			4.5Msz		0.8s		12.50nm			5.0mb	PTJ	80.76	330	eP	43	50.50	-0.6
	E	13s		0.50um				AKU	69.07	355	iP	42	44.00	0.3	GAC	80.78	31	ePc	43	51.00	0.0
				pP	39	02.20	34km		0.9s		23.53nm			5.2mb		0.9s		13.00nm			4.9mb
				PcP	41	10.00		HFS	69.22	338	eP	42	42.20	-2.6	RZN	80.82	322	iPd	43	51.00	-0.6
				sS	44	56.00			0.4s		3.00nm			4.7mb	ZAG	80.83	330	eP	43	51.30	0.0
SLKM		37.52	44	eP	38	51.00	-1.0		Z 19s		0.41um			4.7Msz	ECP	80.95	346	eP	43	52.00	0.2
PMR		37.99	43	ePc	38	56.70	0.9				LR	12	25.00		WATA	81.00	333	iPc	43	52.50	0.1
		0.8s		22.40nm			5.1mb	RSSD	69.23	48	iPc	42	44.80	-0.6		0.9s		66.50nm			5.6mb
FBA		38.51	37	iPc	39	01.10	0.9		0.7s		21.97nm			5.3mb	WTTA	81.04	333	iPc	43	52.90	0.2
		0.8s		74.31nm			5.6mb	BAR	69.50	64	eP	42	47.00	0.0		0.7s		52.50nm			5.6mb
CD2		38.90	265	iPc	39	04.50	0.6	ASPA	70.20	196	iPd	42	50.00	-1.1	MOTA	81.14	333	iPc	43	53.20	0.1
		0.9s		100.00nm			5.6mb		1.0s		26.70nm			5.2mb		0.9s		67.50nm			5.6mb
TOA		39.35	42	ePc	39	08.70	1.3	PV09	70.23	55	eP	42	51.40	-0.3	SOTA	81.22	333	iPc	43	53.60	0.1
GYA		39.56	257	iPc	39	10.00	0.4	GLA	70.42	63	eP	42	53.00	0.4		0.9s		45.80nm			5.5mb
		1.0s		100.00nm			5.6mb	KOD	70.82	265	eP	42	55.80	0.2	FVI	81.26	332	P	43	53.60	0.1
				PcP	41	17.80		RMO	71.38	182	eP	43	00.00	1.8	MMB	81.33	323	iPc	43	55.00	0.9
BALM		41.30	43	eP	39	24.00	0.5	GOL	71.55	52	ePc	42	59.50	-0.1	CDF	81.34	336	eP	43	54.00	-0.1
KMI		43.13	259	Pc	39	39.70	0.7		0.7s		4.85nm			4.6mb		1.0s		38.00nm			5.3mb
		1.5s		80.00nm			5.2mb	GLD	71.60	52	eP	43	00.50	0.7	OGA	81.59	333	iPc	43	56.00	0.5
	Z	20s		0.40um			4.3Msz		1.0s		28.00nm			5.2mb		0.7s		26.00nm			5.3mb
WMO		43.75	291	P	39	45.50	1.8	ALQ	74.23	56	iPc	43	15.70	0.4	EZN	81.61	320	eP	43	55.70	0.2
	Z	20s		0.60um			4.5Msz		0.9s		12.60nm			4.9mb	TRI	81.70	331	iPd	43	54.00	-1.8
INK		43.93	31	iPc	39	45.00	0.4				e	43	27.00	37km	CLE	81.96	37	iP	43	57.70	0.4
		0.5s		22.00nm			5.2mb	WARB	74.30	202	eP	43	17.70	2.3	HAU	81.97	337	eP	43	57.10	-0.2
MBC		46.66	19	ePc	40	05.50	-0.8	SCH	75.45	21	eP	43	21.00	-0.8		0.8s		12.10nm			5.0mb
		0.7s		13.00nm			5.0mb	KRA	75.82	330	iPd	43	23.80	-0.1	Z	20s		0.43um			4.8Msz
LSA		48.49	273	eP	40	23.80	2.0		0.8s		57.00nm			5.6mb	SKO	81.97	324	iPc	43	58.00	0.6
CHG		49.95	256	iPc	40	33.40	0.9	KSP	76.41	332	iPc	43	27.00	-0.2	BSF	82.00	336	eP	43	57.20	-0.4
		0.9s		31.72nm			5.3mb		0.9s		33.00nm			5.3mb		1.1s		26.85nm			5.2mb
YKA		53.25	35	eP	40	55.70	-1.2				e	43	50.20	88kmX	VAY	82.04	323	iP	43	58.20	0.5
		1.0s		17.40nm			5.0mb	SPC	76.43	329	eP	43	26.70	-0.9		1.0s		121.00nm			5.9mb
GUN		53.27	274	P	40	58.40	0.5	CFR	76.52	322	eP	43	28.00	0.1	CTI	82.11	332	P	43	57.20	-0.9
KKN		53.77	275	P	41	02.00	0.6	VRI	76.59	323	eP	43	31.00	2.7X	RSNY	82.12	31	eP	43	57.50	-0.6
PKI		53.81	274	P	41	02.20	0.3	CVO	76.86	324	eP	43	31.00	1.2		0.8s		196.31nm			6.2mb
DMN		54.00	275	P	41	03.80	0.6	CLL	77.06	334	iPc	43	30.10	-0.7	IZM	82.32	318	eP	43	58.70	-0.6
GKN		54.09	275	P	41	04.00	0.3		1.0s		59.00nm			5.6mb	OHR	82.96	324	eP	44	01.80	-0.8
PNT		57.62	51	eP	41	28.00	-0.7				i	43	42.40	41km		0.9s		85.00nm			5.8mb
		0.9s		27.00nm			5.3mb	BRG	77.14	333	iPc	43	30.10	-1.2	FLN	83.01	341	eP	44	02.70	0.1
DAG		58.09	357	iPd	41	29.50	-2.1		1.0s		24.00nm			5.2mb		0.9s		7.35nm			4.8mb
		1.0s		13.00nm			5.0mb	MLR	77.22	324	eP	43	32.00	0.0	Z	20s		0.28um			4.6Msz
				ipP	42	21.70	231kmX	ISR	77.25	323	eP	43	33.00	1.0	LDF	83.09	341	eP	44	03.00	0.0
KEV		58.15	340	eP	41	33.00	0.9	EKA	77.36	345	Pd	43	33.20	0.8		1.2s		86.30nm			5.7mb
EDM		58.71	44	ePc	41	35.50	-0.8		0.8s		23.00nm			5.3mb	VAI	83.19	334	P	44	03.00	-0.5
NDI		58.87	281	iPc	41	37.80	0.1	PSZ	77.62	328	eP	43	34.50	0.5	LOR	83.32	338	eP	44	04.30	0.0
		0.8s		138.06nm			6.1mb	PRU	77.72	333	Pc	43	34.30	-0.1		0.8s		43.65nm			5.6mb
IPM		59.04	242	ePd	41	45.50	6.5X		0.9s		21.00nm			5.2mb	Z	20s		0.45um			4.8Msz
NEW		59.58	51	iPc	41	41.40	-1.0				e	43	59.00	94kmX	NWAO	83.42	208	iPc	44	06.00	1.3
		0.9s		32.89nm			5.5mb	MOX	78.06	335	iP	43	37.00	0.6		0.7s		21.00nm			5.3mb
SOD		59.99	338	eP	41	43.00	-1.9		1.2s		41.00nm			5.3mb	GRR	83.45	341	eP	44	05.20	0.3
WDC		60.89	61	iPc	41	51.80	0.5	HOF	78.28	334	iPd	43	37.20	-0.4		1.0s		124.00nm			6.0mb
SES		61.53	46	ePc	41	54.70	-1.0		0.8s		26.00nm			5.3mb	LBF	83.55	338	eP	44	05.40	-0.1
MIN		61.60	60	ePc	41	55.80	-0.6	SRO	78.29	329	iP	43	37.70	0.1		0.7s		17.10nm			5.3mb
ORV		62.14	61	eP	41	59.40	-0.4		0.9s		42.00nm			5.5mb	SSF	83.61	338	eP	44	05.90	0.2
BRK		62.68	63	ePc	42	03.30	-0.1	BUD	78.31	329	eP	43	37.70	0.0		0.9s		36.05nm			5.5mb
FFC		63.10	38	iPc	42	05.60	-0.3	ZST	78.39	330	eP	43	38.80	0.6	ORX	83.64	335	P	44	05.18	-0.9
		0.7s		46.00nm			5.7mb				e	15	37.50		LPF	83.83	341	eP	44	07.30	0.5
GCC		63.36	63	eP	42	08.10	0.2	8BTK	78.55	316	iPc	43	41.00	1.7		1.0s		84.00nm			5.8mb
LRM		63.60	51	ePc	42	09.50	-0.2	VKA	78.61	331	e(P)	43	37.00	-2.4	AVF	83.90	338	P	44	07.60	0.4
				e	42	20.90	38km	KHC	78.78	333	iPc	43	40.50	0.2	SMF	83.90	338	iPc	44	07.50	0.2
CMB		63.76	62	ePc	42	10.70	0.1		1.0s		32.00nm			5.3mb		0.9s		55.70nm			5.7mb

SFI	83.92	331	P	44	08.40	1.1
RSL	83.99	335	P	44	08.06	0.1
PGD	84.00	331	P	44	09.40	1.4
LSD	84.04	335	P	44	08.67	0.4
MME	84.06	332	P	44	09.50	1.1
LPL	84.12	335	iPc	44	09.30	0.7
	0.9s	40.95nm			5.6mb	
LPG	84.13	335	iPc	44	09.40	0.6
	0.9s	38.30nm			5.5mb	
BGF	84.25	338	eP	44	09.20	0.2
	0.7s	16.55nm			5.3mb	
RSP	84.29	335	P	44	08.67	-0.7
PCP	84.45	334	P	44	09.39	-0.7
BNI	84.56	335	P	44	11.30	0.6
BHB	84.57	335	P	44	09.08	-1.6
PLDF	84.58	337	P	44	11.35	0.6
MAF	84.63	338	iP	44	11.80	0.9
CKI	84.63	334	P	44	10.40	-0.5
RRL	84.64	335	P	44	11.54	0.3
TCF	84.66	338	eP	44	11.80	0.7
	1.0s	28.00nm			5.4mb	
AQU	84.75	330	P	44	12.90	1.3
FIN	84.85	334	P	44	10.82	-1.2
LSF	84.87	339	eP	44	13.00	0.9
ROB	84.88	334	P	44	11.33	-0.9
PZZ	84.92	335	P	44	11.03	-1.5
RSCP	84.95	43	ePd	44	13.00	0.3
PYM	84.95	338	P	44	12.91	0.3
MFF	84.96	340	eP	44	13.40	0.9
	1.0s	58.00nm			5.7mb	
SSB	84.97	337	P	44	12.97	0.3
AZI	85.06	329	P	44	13.50	0.4
ENR	85.08	334	P	44	11.33	-2.0
STV	85.09	334	P	44	11.23	-2.1
IMI	85.22	334	P	44	13.49	-0.5
LBL	85.37	337	P	44	15.42	0.9
SBF	85.40	334	eP	44	14.50	-0.4
	0.7s	17.65nm			5.4mb	
RJF	85.76	339	eP	44	17.50	0.9
	1.0s	23.00nm			5.3mb	
Z	22s	0.57um			4.9Msz	
FRF	85.92	335	eP	44	17.60	0.2
	1.1s	31.75nm			5.5mb	
CAF	85.97	338	iPc	44	18.90	1.3
	0.9s	61.40nm			5.8mb	
BLA	85.99	38	eP	44	18.30	0.4
PGF	86.09	333	eP	44	18.20	-0.2
	0.8s	16.10nm			5.3mb	
LRG	86.10	335	eP	44	18.80	0.6
	1.0s	62.00nm			5.8mb	
Z	18s	0.22um			4.6Msz	
LMR	86.17	335	eP	44	16.90	-1.7
	1.0s	72.00nm			5.9mb	
LFF	86.30	339	eP	44	20.30	1.1
	0.9s	36.85nm			5.6mb	
LPO	86.42	339	eP	44	20.90	1.1
	1.2s	34.20nm			5.5mb	
BCAO	114.61	305	ePKPc	50	19.00	0.5
	0.8s	7.00nm				
			i	51	11.20	
TIC	123.88	330	PKP	50	35.68	-0.5
KIC	124.04	330	PKP	50	36.14	-0.3
	0.8s	8.50nm				
LIC	124.27	330	PKP	50	36.56	-0.3
BUL	126.33	278	iPKPc	50	41.30	0.4
	1.0s	9.00nm				
SLR	130.16	273	iPKPc	50	47.00	-1.0
ZOBO	136.69	61	ePKP	50	50.00	-11.2X
			e	51	02.00	
LPB	136.91	61	PKP	51	00.00	-1.4
CNCB	137.19	61	ePKP	51	02.00	-0.1
SIV	140.64	52	PKP	51	00.60	-7.2X
LCCH	145.82	85	ePKP	51	17.00	0.8
LNV	146.19	85	ePKP	51	17.50	0.7
PEL	146.26	84	iPKPd	51	18.20	1.2
PDCR	146.41	17	ePKP	51	17.20	-0.5
			e	51	28.40	
SAN	146.44	84	ePKP	51	18.50	1.2
BAO	146.66	34	ePKPd	51	19.50	1.3
PPD	150.79	45	ePKP	51	30.60	6.2X
			e	51	38.70	

S.D. = 1.0 on 231 of 242 obs.

% FEB 23, 1991 09h 53m 20.51± 0.84s
41.082 N ± 9.4km 16.290 E ± 6.0km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

BAI	0.44	85	P	53	30.00	0.6
			eSg	53	36.00	
BRT	0.72	106	P	53	33.30	-1.4
			eSg	53	42.50	
SGO	0.91	235	P	53	37.00	-0.9
			eSn	53	50.00	
ORI	1.02	173	P	53	41.40	1.5
			eSn	53	57.00	
MGR	1.10	211	P	53	40.70	-0.4
			eSg	53	58.20	
DUI	1.50	293	P	53	48.00	0.5
			eSn	54	10.00	
SDI	1.96	289	P	53	54.30	0.1

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

% FEB 23, 1991 10h 17m 06.27± 0.93s
39.132 N ± 8.1km 27.554 E ±15.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

IZM	0.77	197	iPg	17	21.30	0.0
			eSg	17	33.30	
DST	0.96	60	ePg	17	24.50	0.0
EDC	1.24	11	ePn	17	29.00	-0.2
BNT	1.25	13	iPn	17	29.80	0.2
KCT	1.28	29	ePn	17	30.00	0.1

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

FEB 23, 1991 10h 17m 13.86± 0.48s
30.807 N ± 3.6km 36.034 E ± 6.2km
DEPTH = 10.0km (geophysicist)
DEAD SEA REGION (373)

JRDJ	0.33	256	Pc	17	19.62	-1.1
GHZJ	0.34	132	Pc	17	20.23	-0.7
LISJ	0.64	312	Pc	17	26.59	-0.1
MKRJ	0.82	336	Pc	17	29.58	-0.1
MDSJ	0.84	13	Pc	17	29.55	-0.7
MASJ	0.96	344	Pc	17	32.10	0.0
SALJ	1.24	346	Pc	17	36.63	-0.2
JARJ	1.43	357	Pc	17	39.74	-0.1
BURJ	1.44	352	Pd	17	40.36	0.2
HQL	1.75	209	iPc	17	45.60	1.1
			iS	18	10.00	
SHMJ	1.93	353	Pd	17	48.50	1.5
AYN	1.93	181	iPd	17	47.13	0.1
			iS	18	16.00	
BADA	2.45	202	ePd	17	54.47	0.0
			eS	18	32.67	

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

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* FEB 23, 1991 10h 40m 57.91± 0.67s
15.435 N ±12.3km 120.902 E ±25.5km
DEPTH = 33.0km (normal)
4.7mb (4 obs.) 3.9Msz (1 obs.)
LUZON, PHILIPPINE ISLANDS (249)

OCP	0.81	168	eP	41	13.00	0.1
BAG	1.02	342	iPc+	41	11.00	-5.1X
GYA	17.22	312	P	45	03.60	5.9X
KMI	19.55	302	eP	45	31.00	4.7X
CD2	21.99	317	P	45	52.00	1.0
LZH	25.59	327	eP	46	25.50	-0.5
	1.5s	28.00nm			4.6mb	
Z	20s	0.39um			3.9Msz	
N	10s	0.24um				
			pP	46	32.00	23kmX
HHC	26.59	344	eP	46	35.80	0.7
GTA	30.19	326	eP	47	07.00	-0.7
	0.8s	10.00nm			4.7mb	
MBC	81.82	12	eP	53	14.50	-0.1
NB2	85.82	333	P	53	34.50	-0.7
	0.9s	4.60nm			4.7mb	
YKA	91.11	23	eP	54	00.60	0.3
	0.8s	0.90nm			4.2mb	

S.D. = 0.7 on 8 of 11 obs.

? FEB 23, 1991 11h 02m 48.47± 1.06s
43.916 N ±13.2km 12.148 E ± 6.5km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

SFI	0.21	271	Pd	02	53.20	0.1
			eSg	02	56.00	
RSM	0.22	87	Pd	02	53.20	0.0
PGD	0.31	263	Pd	02	54.90	-0.1
			eSg	02	59.00	
CRE	0.32	206	P	02	55.20	0.0
			eSg	03	01.80	
BOB	2.12	295	P	04	13.10	48.7X
			eSg	04	19.10	

S.D. = 0.2 on 4 of 5 obs.

FEB 23, 1991 12h 30m 29.61± 1.06s
37.422 N ± 7.0km 72.277 E ± 6.1km
DEPTH = 148.0 ± 13.4 km
4.6mb (25 obs.)
TAJIK SSR (715)

KSH	3.55	54	P	31	26.00	1.3
QUE	8.47	213	eP	32	31.20	0.6
			eS	34	03.50	
NDI	9.65	153	iPd	32	47.00	1.0
	0.5s	56.34nm			5.5mb	
			iS	34	28.50	
WMQ	13.33	57	eP	33	32.50	-1.7
			sP	34	08.80	
GKN	14.00	129	P	33	41.40	-1.4
KKN	14.56	128	P	33	48.40	-1.5
DMN	14.58	128	P	33	49.80	-0.3
PKI	14.79	128	P	33	51.60	-1.3
GUN	14.86	126	P	33	52.00	-1.8
LSA	17.50	111	eP	34	28.20	1.9
POO	18.87	175	iPc	34	42.50	1.5
	1.0s	30.00nm			4.6mb	
GTA	21.64	76	eP	35	11.80	2.8
			PP	35	37.60	
GBA	24.16	168	P	35	38.10	4.8X
KOD	27.47	169	eP	36	08.10	4.0X
TIY	31.66	77	Pc	36	41.50	0.7
Z	16s	1.00um			4.6MszX	
E	16s	0.80um				
VRI	34.67	299	eP	37	08.20	1.6
CVO	35.06	299	eP	37	06.00	-3.9X
MLR	35.24	298	eP	37	13.50	2.0
KAF	37.42	326	iP	37	28.80	-0.6
	0.3s	2.20nm			4.4mb	
NUR	37.69	323	iP	37	31.10	-0.6
	0.3s	9.20nm			5.0mb	
KRA	39.09	306	eP	37	43.40	-0.1
	0.7s	34.00nm			5.2mb	
KSP	41.38	307	eP	38	02.20	-0.1
PRU	42.57	306	eP	38	12.80	0.8
BRG	42.86	308	iP	38	15.00	0.6
	1.0s	20.00nm			4.7mb	
HFS	42.98	321	eP	38	13.50	-1.7
	0.7s	30.60nm			5.0mb	
Z	16s	0.62um			4.6MszX	
			LR	50	08.00	
KHC	43.29	305	eP	38	19.00	1.1
CLL	43.42	308	iP	38	19.10	0.2
NB2	44.27	322	P	38	24.20	-1.5
	0.7s	11.80nm			4.6mb	
GRF	44.74	306	ePd	38	30.90	1.4
	1.4s	36.00nm			4.8mb	
CDF	47.52	305	eP	38	50.60	-0.9
PGF	47.76	297	eP	38	53.10	-0.3
	0.7s	6.60nm			4.5mb	
BSF	47.96	304	eP	38	54.30	-0.6
	0.7s	6.60nm			4.5mb	
HAU	48.21	305	eP	38	56.20	-0.5
SBF	48.50	299	eP	38	59.20	0.1
	0.9s	29.50nm			5.0mb	
LPG	48.54	301	eP	38	59.70	0.1
	0.9s	8.20nm			4.5mb	
LPL	48.55	301	eP	38	59.60	0.0
	1.0s	16.00nm			4.7mb	
FRF	49.13	299	eP	39	03.60	-0.2
	0.8s	14.80nm			4.8mb	
LRG	49.36	299	eP	39	05.40	-0.2
	1.0s	16.00nm			4.7mb	
LBF	50.02	304	eP	39	23.50	12.9X
	0.8s	7.10nm				
LOR	50.02	304	eP	39	09.60	-1.0
SMF	50.20	303	eP	39	11.30	-0.6
	0.8s	6.70nm			4.4mb	
AVF	50.48	304	eP	39	13.40	-0.6
	0.8s	12.10nm			4.7mb	
MAF	51.16	303	eP	39	19.10	-0.1
	0.7s	7.70nm			4.6mb	
TCF	51.38	303	eP	39	20.60	-0.3
	1.0s	12.00nm			4.6mb	
CAF	51.88	302	eP	39	24.70	0.0

23d 12h

0.8s 6.70nm 4.4mb
RJF 52.13 302 eP 39 26.50 0.0
0.7s 4.40nm 4.3mb
LDF 52.24 307 eP 39 26.30 -1.0
LPO 52.55 302 eP 39 29.50 -0.1
LFF 52.77 302 eP 39 31.10 -0.1
0.7s 6.60nm 4.6mb
MBC 66.37 3 ePd 41 04.20 0.4
0.9s 10.00nm 4.7mb
pP 41 37.00 135kmX
INK 72.83 10 eP 41 44.00 0.8
YKA 80.28 3 eP 42 25.10 0.4
0.6s 1.30nm 3.8mb
S.D. = 1.1 on 48 of 52 obs.

FEB 23, 1991 12h 33m 23.79± 0.17s
36.270 N ± 4.5km 70.645 E ± 3.0km
DEPTH = 154.7km (5 depth phases)
4.9mb (50 obs.)
HINDU KUSH REGION (718)
Felt at Srinagar, Kashmir. Felt
at Islamabad and Peshawar,
Pakistan.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 21C
Centroid Location:
Origin Time 12:33:24.3 0.5
Lat 35.90N 0.06 Lon 70.48E 0.06
Dep 146.3 2.0 Half-duration 1.8
Moment Tensor; Scale 10**17 Nm
Mrr=-0.04 0.07 Mtt=-0.40 0.10
Mff= 0.44 0.10 Mrt=-1.65 0.07
Mrf=-0.89 0.07 Mtf=-0.91 0.12
Principal Axes:
T Val= 1.44 Plg=50 Azm=171
N 1.00 11 68
P -2.44 38 329
Best Double Couple:Mo=1.9*10**17
NP1:Strike= 8 Dip=12 Slip= 30
NP2: 249 84 101

KSH 5.28 51 P 34 42.50 0.5
QUE 6.81 208 eP 35 01.50 -1.1
eS 36 17.00
NDI 9.38 142 iPd 35 35.00 -1.5
0.5s 380.28nm 6.3mb X
iS 37 10.50
WMQ 15.06 55 iPc 36 48.20 -1.7
1.0s 300.00nm 5.6mb
POO 17.89 170 iPc 37 22.30 -2.0
1.1s 164.56nm 5.3mb
iS 40 44.00
LSA 18.39 105 Pd 37 30.40 0.4
S 40 42.00
KER 19.30 271 eP 37 37.00 -2.2
TAB 19.45 283 eP 37 44.00 3.3X
GTA 23.20 73 iPc 38 19.50 1.7
0.8s 80.00nm 5.2mb
Z 12s 2.70um 4.9MszX
N 12s 3.30um
GBA 23.38 163 Pd 38 19.80 0.3
0.8s 163.90nm 5.6mb
RYD 23.63 248 iPc 38 24.00 2.1
AFIF 26.56 250 eP 38 53.30 4.1X
KOD 26.65 165 eP 38 51.30 1.1
LZH 26.73 80 eP 38 51.00 0.3
2.0s 67.00nm 4.9mb
Z 16s 0.58um 4.2MszX
eS 43 11.00
CD2 28.01 91 P 39 02.70 0.5
pP 39 31.20 134kmX
S 43 33.00
KMI 29.62 103 Pc 39 16.50 -0.3
2.0s 100.00nm 5.2mb
BBTK 29.90 288 eP 39 21.00 2.1
SRAT 30.30 240 eP 39 25.20 2.4
DHJN 30.32 240 eP 39 25.20 2.1
CHG 30.37 117 ePc 39 22.30 -0.8
0.8s 25.00nm 5.0mb
eS 45 08.00
CHTO 30.37 117 eP 39 21.90 -1.2
ipP 39 55.50 160km
BADA 30.94 266 ePd 39 29.50 1.5
BTO 30.96 70 eP 39 28.00 -0.3
N 13s 0.60um
E 13s 0.60um

eS 44 15.00
XAN 31.24 83 Pc 39 30.40 -0.3
pP 40 03.00 154km
S 44 23.00
sS 45 23.00
BDT 31.45 120 iPc 39 31.00 -1.5
0.8s 88.30nm 5.6mb
HHC 32.11 69 eP 39 39.60 1.3
GYA 32.12 97 iPc 39 38.60 0.1
1.2s 100.00nm 5.5mb
PP 40 50.00
S 44 38.00
sS 45 37.00
ScP 45 51.00
PcS 46 07.00
ScS 49 48.00
YLV 32.41 290 eP 39 38.00 -2.8
ELL 32.57 283 iP 39 42.40 0.0
KHL 32.59 286 eP 39 41.90 -0.5
KHT 32.87 123 eP 39 46.00 1.1
CFR 33.09 299 eP 40 04.00 17.5X
TIY 33.21 75 Pc 39 48.40 0.6
Z 10s 0.50um 4.5MszX
pP 40 21.00 152km
S 44 57.00
sS 45 50.00
LOE 33.29 116 iPc 39 47.00 -1.6
NST 33.31 120 iPc 39 51.00 2.3X
VRI 34.10 300 iPc 39 57.00 1.8
ISR 34.22 299 eP 39 59.00 2.6
CVO 34.48 300 eP 40 01.00 2.4
MLR 34.64 299 iPd 40 01.70 1.6
PCT 34.88 120 eP 40 03.50 1.4
NNT 35.21 125 iPc 40 07.00 2.0
KDZ 35.26 293 iP 40 05.00 -0.2
BJI 35.70 70 eP 40 10.00 1.2
1.5s 39.00nm 4.9mb
RZN 35.78 293 eP 40 10.00 0.3
TNR 35.81 300 ePd 40 13.00 3.2X
PGB 36.09 295 eP 40 13.00 0.8
BMR 36.33 303 ePc 40 17.00 2.9X
WHN 36.69 86 eP 40 17.50 0.2
VTS 36.79 295 eP 40 18.00 -0.2
VAY 37.43 293 eP 40 22.60 -0.7
KAF 37.66 327 iP 40 25.20 0.1
0.4s 13.10nm 5.0mb
NUR 37.85 325 iP 40 26.80 0.2
0.8s 80.70nm 5.5mb
i 40 58.20
e 52 04.00
e 56 30.00
SKO 38.17 294 eP 40 31.00 1.4
OIZ 38.43 106 eP 40 31.70 -0.2
SPC 38.51 306 e(P) 40 33.70 1.1
KRA 38.72 307 eP 40 33.90 -0.1
0.7s 38.00nm 5.2mb
i 40 39.50
PSZ 38.76 304 e(P) 40 35.00 0.5
OHR 38.78 293 eP 40 33.00 -1.7
GZH 39.05 98 iPd 40 38.40 1.4
BUD 39.37 303 eP 40 40.80 1.4
UZD 39.72 302 e(P) 40 44.00 1.7
NJ2 39.79 82 Pc 40 44.30 1.3
S 46 38.00
SOD 39.82 335 eP 40 41.00 -1.9
SRO 39.83 304 e(P) 40 44.00 0.9
i 41 16.10
e 42 11.00
DL2 40.06 70 eP 40 45.00 -0.1
S 46 40.00
SNY 40.94 66 Pc 40 52.20 -0.1
0.8s 20.00nm 4.8mb
S 46 52.00
sS 47 47.00
KSP 41.05 308 eP 40 47.50 -5.7X
e 41 32.50
i 42 26.70
e 49 39.50
UPP 41.08 322 iP 40 52.90 -0.3
i 41 24.50
ZAG 41.59 301 eP 40 38.50 -19.1X
PTJ 41.60 301 eP 40 58.00 0.2
KTK1 41.71 337 iPd 40 58.28 -0.1
CN2 41.97 62 eP 41 00.00 -0.8
Z 13s 1.10um 4.9MszX
N 12s 0.30um
E 12s 0.30um

eS 47 04.00
SSE 41.99 82 Pd 41 01.50 0.4
0.7s 30.00nm 5.0mb
E 10s 0.20um
pP 41 37.50 163km
S 47 12.00
sS 48 06.00
IPM 42.12 131 ePc 41 03.10 0.8
1.0s 166.20nm 5.6mb
BRG 42.54 308 iP 41 06.20 0.9
1.5s 38.00nm 4.8mb
i 41 46.20
i 41 54.80
i 42 55.20
e 50 28.00
HFS 43.07 322 eP 41 08.30 -1.2
0.5s 68.70nm 5.5mb
Z 17s 0.70um 4.6MszX
LR 58 15.00
CLL 43.11 309 i(P) 41 10.30 0.4
i 41 58.90
e 42 52.00
TRI 43.15 301 eP 41 20.10 9.8X
BHG 43.49 304 eP 41 13.60 0.5
FVI 43.70 302 P 41 18.00 3.3X
MOX 44.03 308 e(P) 41 17.00 -0.4
1.4s 28.00nm 4.7mb
ASS 44.38 297 P 41 23.00 2.7
NB2 44.39 323 P 41 19.40 -0.8
0.7s 45.10nm 5.2mb
MNS 44.51 296 P 41 23.00 1.7
NSS 44.54 328 eP 41 20.49 -0.7
CTI 44.55 302 P 41 22.00 0.3
SFI 44.79 299 P 41 25.00 1.6
OGA 44.85 303 iPc 41 24.00 -0.2
FIR 45.24 299 e(P) 41 29.00 2.0
MUD 45.24 317 iPd 41 28.00 1.2
1.2s 24.00nm 4.7mb
OSS 45.48 303 ePc 41 28.90 -0.2
BDI 45.65 299 P 41 31.00 0.6
SAX 45.93 304 ePc 41 32.40 -0.4
VDL 45.97 303 eP 41 32.40 -0.7
MOL 46.26 325 eP 41 33.68 -1.1
VAI 46.56 302 P 41 38.00 0.6
MMK 47.08 302 eP 41 41.10 -0.7
CDF 47.11 306 eP 41 40.80 -1.1
PGF 47.12 297 eP 41 40.40 -1.6
0.5s 5.10nm 4.4mb
DIX 47.45 302 ePc 41 44.50 -0.3
BSF 47.53 305 eP 41 43.50 -1.7
0.7s 14.35nm 4.7mb
EMS 47.78 303 ePc 41 47.00 -0.2
HAU 47.79 305 eP 41 45.50 -1.6
SBF 47.92 300 eP 41 46.60 -1.5
0.7s 14.35nm 4.8mb
LPG 48.02 302 eP 41 48.20 -1.0
0.5s 6.20nm 4.6mb
LPL 48.03 302 eP 41 48.20 -1.0
0.4s 4.85nm 4.6mb
BNI 48.18 301 P 41 49.00 -1.2
DOU 48.56 308 Pc 41 53.20 0.3
SNF 48.68 309 P 41 55.50 1.7
KBS 48.77 347 iP 41 54.50 0.3
CDR 49.14 300 ePc 42 00.20 2.8
e 42 41.20
LBF 49.58 304 eP 41 59.10 -1.7
SMF 49.74 304 eP 42 00.70 -1.3
0.9s 23.75nm 4.9mb
SSF 49.87 305 eP 42 01.50 -1.5
AVF 50.04 304 eP 42 02.70 -1.5
0.8s 18.80nm 4.9mb
MAF 50.70 304 eP 42 08.20 -1.1
1.0s 24.00nm 4.9mb
TCF 50.92 304 eP 42 10.00 -1.0
1.0s 18.00nm 4.7mb
CAF 51.38 302 eP 42 13.50 -1.0
1.0s 16.00nm 4.7mb
LSF 51.39 304 eP 42 12.90 -1.6
1.1s 18.30nm 4.7mb
LDF 51.89 307 eP 42 17.00 -1.2
0.9s 16.40nm 4.8mb
EKA 52.25 316 Pd 42 24.50 3.7X
0.8s 11.90nm 4.7mb
LFF 52.28 303 eP 42 19.80 -1.3
MFF 52.42 305 eP 42 20.20 -1.9
MAT 53.31 68 (P) 42 20.00 -8.8X
EBR 53.72 298 (P) 42 50.00 18.3X

DAG	54.90	344	iPc	42	39.10	-0.8	PRU	1.98	215	ePn	39	36.10	-0.2				S	53	24.16	
	1.1s		72.15nm			5.4mb				Pg	39	37.90		SAOF	0.87	221	Pg	53	13.68	-0.2
ECHE	55.19	297	e(P)	42	53.50	11.0X				e	39	41.50					Sg	53	25.77	
ECRI	55.24	301	eP	42	44.00	1.2				Sn	39	55.00		PZZ	0.90	261	P	53	14.18	-0.3
AKU	57.08	330	iP	42	56.10	0.6				eSg	40	00.60					S	53	25.87	
	1.5s		77.78nm			5.4mb	CLL	2.10	263	iPn	39	37.80	-0.2	RSP	0.93	303	P	53	13.88	-1.0
ENIJ	57.08	294	eP	42	56.00	0.0				iPg	39	40.40					S	53	25.36	
GUD	57.09	299	eP	42	56.00	-0.1				iSg	40	07.60		AUTN	0.93	226	Pg	53	14.74	-0.2
TOL	57.29	298	eP	42	57.00	-0.4	KHC	3.05	216	iPn	39	51.40	-0.1				Sg	53	27.72	
EPLA	58.66	299	eP	43	07.80	0.8				iPg	39	57.50		TOUF	1.01	232	Pg	53	16.56	0.2
IFR	60.68	292	iPc	43	21.00	0.0				Sn	40	24.50		ORO	1.01	345	P	53	16.90	0.6
AVE	62.49	293	iP	43	33.50	0.7				Sg	40	38.50					eSg	53	30.10	
			i	44	16.00		HOF	3.10	247	ePn	39	51.90	-0.3	ORX	1.02	345	P	53	16.75	0.3
TIO	63.47	290	iPd	43	38.50	-1.0	MOX	3.12	254	ePg	40	00.00	7.5X				S	53	30.32	
MBC	67.58	3	ePd	44	04.90	0.0				iSg	40	40.00		SBF	1.02	220	Pg	53	16.68	0.2
	0.5s		28.00nm			5.3mb	WET	3.31	223	ePn	39	55.10	-0.2				Sg	53	30.64	
			pP	44	40.00	145km	VKA	3.36	180	ePn	40	04.00	8.1X	AURF	1.06	224	Pg	53	17.34	0.3
BRW	67.60	15	eP	44	05.60	0.5				i	40	05.10		MVIF	1.14	229	Pg	53	18.70	0.2
BUL	68.75	222	iPc	44	13.60	0.6				i	40	55.60					Sg	53	34.30	
	0.7s		13.01nm			4.9mb	ZST	3.46	171	e(Pn)	40	36.70	39.3X	RRL	1.15	284	P	53	18.08	-0.6
ANM	70.36	22	eP	44	21.70	-0.4				e	40	47.90					S	53	32.78	
NANU	72.27	137	eP	44	33.50	-0.4				e	41	20.50		REVF	1.15	218	Pg	53	19.46	0.8
IMA	72.43	17	eP	44	34.30	-0.3				i	42	26.70					Sg	53	34.74	
	0.8s		11.90nm			4.7mb	GRF	3.77	241	ePnc	40	01.80	-0.1	LSD	1.17	314	P	53	18.28	-0.9
LKO	73.34	270	Pd	44	38.94	-1.6				e(Pg)	40	13.80					S	53	33.40	
	0.7s		12.50nm			4.7mb				eSg	41	00.20		VAI	1.26	14	Pd	53	21.20	0.8
SLR	73.49	219	eP	44	42.00	0.8	KBA	4.94	204	iPnc	40	18.80	0.2				eSg	53	38.00	
MBL	73.64	133	eP	44	42.00	0.0				i	40	27.10		BNI	1.26	289	P	53	20.50	-0.1
INK	74.18	9	ePd	44	44.00	-0.4				i	40	37.90					eSn	53	36.40	
	0.6s		18.00nm			5.0mb				eSn	41	15.50		CALN	1.38	230	Pg	53	23.40	0.9
KIC	74.49	267	Pd	44	46.04	-1.1				i	41	19.60		LPL	1.44	308	Pn	53	23.60	0.2
	0.6s		17.00nm			4.9mb				i	41	21.70		MDI	1.49	40	P	53	23.00	-0.8
TIC	74.55	267	P	44	46.40	-1.1				i	41	51.10		FRF	1.64	229	Pn	53	26.40	0.4
FBA	74.77	16	ePd	44	48.40	0.5		S.D. = 0.4		on	9	of	12 obs.				Sn	53	48.00	
	0.9s		53.96nm			5.3mb	----------							LRG	1.86	231	Pn	53	30.60	1.3
LIC	74.80	267	Pd	44	47.66	-1.2	FEB 23, 1991 12h 52m 07.98± 1.13s										Sn	53	54.00	
	0.6s		16.00nm			4.9mb	41.124 N ± 7.3km 22.712 E ± 9.8km							LMR	1.87	226	Pn	53	30.40	1.1
PRY	74.88	219	iPc	44	57.50	8.3X	DEPTH = 10.0km (geophysicist)										Sn	53	54.40	
FRB	75.20	343	eP	44	50.00	-0.3	YUGOSLAVIA (383)							CDR	2.10	243	eP	53	32.70	0.0
KNA	75.40	122	eP	44	51.20	-0.9	ML 2.1 (SKO).										e	53	36.30	
SVW	75.90	21	eP	44	55.00	0.5											e	53	58.90	
MEKA	77.13	137	eP	45	02.00	0.4	KNT	0.15	75	eP	52	19.70	8.3X				e	53	59.20	
			e	45	38.00					eS	52	35.70		PGF	2.15	167	Pn	53	31.80	-1.8
PMR	77.28	18	eP	45	02.20	0.3	VAY	0.22	332	iPg	52	13.20	0.4				Sn	53	56.40	
	1.0s		13.90nm			4.6mb				iSg	52	15.40		BSF	3.36	342	Pn	53	50.80	0.0
TOA	77.55	17	eP	45	04.50	0.9	GRG	0.29	235	iPd	52	19.80	5.8X				Sn	54	29.60	
SLKM	77.91	19	eP	45	05.00	-0.5				eS	52	36.20		HAU	3.63	338	Pn	53	54.20	-0.4
HVD	78.87	219	iPc	45	12.00	0.7	THE	0.53	159	eP	52	18.60	0.0				Sn	54	36.00	
			i	00	48.00					eS	52	34.00		CDF	3.84	349	Pn	53	57.60	0.0
BALM	79.36	16	eP	45	15.00	1.5	SRS	0.67	90	eP	52	20.30	-0.9	LBF	3.85	309	Pn	53	57.80	0.1
NWAO	81.46	142	eP	45	24.00	-0.7				eS	52	38.28		LOR	4.08	312	Pn	54	02.00	1.1
YKA	81.49	2	eP	45	16.40	-8.0X	KKB	0.79	20	ePg	52	20.00	-3.4X				Sn	54	48.00	
	0.8s		5.20nm			4.3mb	MMB	0.90	58	iPgd	52	25.00	-0.2		S.D. = 0.6		on	38	of	38 obs.
WB2	82.12	122	iPc	45	27.30	-1.1	PAIG	1.40	148	eP	52	22.70	-10.9X	----------						
			e	46	06.00					eS	52	41.00		& FEB 23, 1991 12h 56m 02.30s						
SCH	82.19	337	eP	45	28.00	-0.3	VTS	1.51	14	iPgc	52	34.00	-1.3	36.640 N 121.297 W						
ASPA	84.36	125	iPc	45	39.10	-0.6	RZN	1.61	69	iPc	52	38.00	1.3	DEPTH = 2.0km						
	0.7s		13.20nm			4.9mb	PLD	1.79	56	eP	52	40.00	0.9	CENTRAL CALIFORNIA (39)						
FORR	85.79	133	eP	45	46.20	-0.4	PGB	1.79	37	iPd	52	39.00	-0.2	<BRK>. ML 2.5 (BRK).						
QIS	86.20	119	eP	45	48.00	-0.9	KDZ	2.10	75	iP	52	47.00	3.3X							
FFC	89.15	356	eP	46	03.00	0.4		S.D. = 1.0		on	8	of	13 obs.	SAO	0.17	316	iP	56	05.70	-0.1
	0.6s		5.00nm			4.7mb	----------							LLA	0.29	95	iPc	56	08.20	0.2
EDM	90.81	2	eP	46	11.00	0.6	FEB 23, 1991 12h 52m 57.09± 0.28s							PRS	0.31	191	iPc	56	08.70	0.1
SES	93.70	1	eP	46	23.00	-0.7	44.646 N ± 2.0km 8.349 E ± 2.7km							GCC	0.68	305	eP	56	15.30	-0.6
PNT	94.30	7	eP	46	27.00	0.5	DEPTH = 10.0km (geophysicist)							PRI	0.71	134	eP	56	16.30	-0.2
	0.7s		6.00nm			5.0mb	NORTHERN ITALY (545)										iS	56	29.60	
NEW	95.56	5	eP	46	32.20	-0.1	ML 2.9 (LDG), 2.8 (GEN).							ARN	0.73	345	eP	56	16.70	-0.2
	1.0s		3.75nm			4.7mb								MHC	0.75	339	eP	56	17.50	0.2
SIV	132.73	282	PKP	52	21.20	-1.0	PCP	0.17	127	P	53	00.96	-0.1	PKEM	1.12	121	eP	56	24.00	0.0
ZOBO	138.39	288	ePKP	52	21.00	-12.6X				S	53	03.42		PCC	1.22	315	ePc	56	24.20	-1.5
Z	20s		0.09um			4.5Msz	CKI	0.23	193	Pc	53	02.20	0.2	FRI	1.32	74	eP	56	26.00	-1.5
			LR	07	45.00					eSg	53	06.40					iS	56	43.00	
LPB	138.53	287	PKP	52	29.00	-4.7X	FIN	0.45	193	P	53	05.77	-0.5	BKS	1.44	329	iPc	56	30.10	0.6
	S.D. = 1.1		on	157	of	175 obs.				S	53	12.44		BRK	1.45	328	eP	56	30.00	0.5
----------							ROB	0.49	224	P	53	06.39	-0.7	ZSP	1.51	330	eP	56	31.00	0.6
? FEB 23, 1991 12h 39m 02.38± 7.00s										S	53	13.77		CMB	1.57	27	eP	56	30.00	-1.3
51.617 N ±40.7km 16.319 E ±42.9km							ENR	0.79	238	P	53	12.01	-0.5				eS	56	49.50	
DEPTH = 10.0km (geophysicist)										S	53	22.32		BCH	1.75	146	eP	56	30.50	-3.5
POLAND (548)							BOB	0.79	81	P	53	12.90	0.3	ABL	2.46	136	eP	56	42.30	-2.0
ML 3.4 (GRF).										eSg	53	26.00		BONR	2.73	60	eP	56	47.00	-1.2
							BHB	0.80	285	P	53	12.16	-0.5	KVN	3.49	45	eP	56	59.70	0.7
KSP	0.77	181	iPd	39	17.50	0.0				S	53	22.78			18 obs. associated						
	0.5s		56.00nm				DOI	0.80	260	P	53	12.30	-0.4	----------						
			iS	39	27.00					eSg	53	23.00		& FEB 23, 1991 13h 18m 50.49s						
			iLR	39	34.00		IMI	0.81	204	P	53	12.85	0.1	62.647 N 149.131 W						
BRG	1.67	244	iPg	39	32.50	0.8				S	53	23.31		DEPTH = 62.4km						
			iSg	39	52.70		STV	0.84	242	P	53	13.05	-0.3	CENTRAL ALASKA (1)						

23d 13h

<AEIC>.

HUR	0.41	325	iP	19	01.82	0.0
			eS	19	10.39	
CUT	0.58	246	iP	19	03.53	-0.1
RND	0.77	9	iP	19	05.73	-0.2
			iS	19	17.42	
GHO	0.88	174	iP	19	07.15	-0.2
			eS	19	20.32	
TRF	0.96	327	iP	19	08.42	0.0
PLRM	1.06	180	eP	19	09.44	-0.1
			eS	19	25.25	
PMR	1.06	180	iPc	19	09.90	0.4
PWA	1.06	200	eP	19	09.69	0.2
MCK	1.09	5	eP	19	10.03	0.0
KNK	1.28	165	eP	19	12.85	0.3
			eS	19	30.78	
SKT	1.30	240	iP	19	13.03	0.1
SUA	1.41	213	eP	19	14.87	0.4
			eS	19	34.36	
PMS	1.42	188	eP	19	14.92	0.4
TOA	1.48	110	ePc	19	16.50	1.1
BWN	1.54	355	eP	19	15.70	-0.4
SDG	1.66	93	eP	19	18.38	0.5
			eS	19	40.44	
PAX	1.71	77	eP	19	18.59	0.0
			eS	19	40.57	
THY	1.72	62	eP	19	19.44	0.8
TZL	1.83	108	iP	19	21.28	1.1
DDM	1.87	51	eP	19	21.70	0.9
WRH	1.89	14	eP	19	20.20	-0.7
NCG	1.90	230	eP	19	21.39	0.3
KLU	1.90	126	eP	19	20.77	-0.5
NEA	1.94	1	eP	19	20.63	-1.0
CRP	1.99	227	eP	19	23.61	1.1
VZW	2.01	141	eP	19	22.02	-0.6
HDA	2.02	28	eP	19	22.05	-0.7
VLZ	2.02	138	eP	19	21.95	-0.7
SPU	2.02	225	eP	19	23.10	0.3
GLI	2.02	150	eP	19	22.03	-0.8
BGL	2.07	229	eP	19	24.33	0.7
CCB	2.09	16	eP	19	22.84	-0.9
CKL	2.10	228	eP	19	24.49	0.5
NKA	2.16	209	eP	19	27.64	3.0
SLKM	2.21	194	eP	19	26.25	0.8
RDS	2.23	11	eP	19	24.95	-0.8
FBA	2.34	14	iPc	19	26.90	-0.3
MDM	2.36	9	eP	19	26.72	-0.8
KNIM	2.40	163	eP	19	27.88	-0.2
GLM	2.47	17	eP	19	28.24	-0.9
SEW	2.56	184	eP	19	30.09	-0.2
RDT	2.60	218	eP	19	31.59	0.6
RDN	2.76	221	eP	19	32.91	-0.3
NCT	2.77	223	eP	19	33.50	0.1
GLB	2.78	113	eP	19	32.98	-0.6
TTA	3.17	278	eP	19	39.00	-0.1
SVW	3.44	246	eP	19	42.40	-0.4
TGL	3.55	119	eP	19	43.09	-1.3
BALM	3.60	114	eP	19	43.60	-1.5
IMA	3.96	332	eP	19	49.50	-0.7

50 obs. assaciated

% FEB 23, 1991 13h 25m 20.53± 1.19s
42.410 N ± 8.3km 19.832 E ± 8.3km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.8 (TTG).

PVY	0.21	29	iPgd	25	24.88	-0.3
			iSg	25	28.60	
TTG	0.42	273	iPgd	25	28.20	-1.0
			iSg	25	35.18	
IVA	0.46	6	iPgd	25	30.23	0.2
			iSg	25	37.42	
ULC	0.62	224	iPgd	25	33.23	0.2
			iSg	25	42.88	
NKY	0.74	303	iPgc	25	35.25	0.2
			iSg	25	46.27	
BDV	0.75	261	iPgd	25	35.43	0.1
			iSg	25	46.93	
HCY	0.99	273	iPgd	25	39.57	0.3
			iSg	25	55.08	
BRY	1.07	298	iPgd	25	41.02	0.3
			iSg	25	56.52	

S.D. = 0.5 on 8 of 8 obs.

? FEB 23, 1991 13h 42m 45.65±22.14s
19.438 N ±164.km 67.201 W ±77.7km
DEPTH = 33.0km (normal)
MONA PASSAGE (89)

MCP	1.02	175	iP	43	03.50	-0.1
MGP	1.43	176	iP	43	09.60	0.2
PORP	1.48	159	iP	43	10.00	-0.2
SJG	1.65	143	iP	43	13.00	0.2
LPR	1.69	131	iP	43	13.20	-0.1
CPD	1.85	139	iP	43	15.60	0.0

S.D. = 0.2 on 6 of 6 obs.

FEB 23, 1991 13h 56m 11.09± 0.45s
39.539 N ± 4.1km 28.509 E ± 4.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.0 (ISK).

DST	0.11	54	iPg	56	13.00	-1.0
KCT	0.72	351	iPg	56	25.30	0.1
BNT	0.93	331	iPg	56	28.60	-0.3
			iSg	56	42.10	
EDC	0.95	329	iPg	56	29.00	-0.1
			eSg	56	42.50	
YLV	1.22	33	iPn	56	34.10	0.2
ALT	1.33	111	iPn	56	35.70	0.0
GBZT	1.44	30	ePg	56	54.90	17.7X
			iSg	56	58.20	
KHL	1.45	147	ePn	56	37.40	0.0
IZM	1.50	221	ePn	56	38.00	-0.1
HRT	1.56	34	ePn	56	39.20	0.3
GPA	1.57	61	ePn	56	39.70	0.6
ISK	1.58	15	ePn	56	39.70	0.5
EZN	1.71	280	ePn	56	41.40	0.4
DMK	2.35	346	ePn	56	50.00	-0.3

S.D. = 0.5 on 13 of 14 obs.

& FEB 23, 1991 14h 27m 40.11s
60.366 N 152.634 W
DEPTH = 114.8km
SOUTHERN ALASKA (2)
<AEIC>.

RED	0.09	308	eP	27	55.45	0.9
RSO	0.11	328	eP	27	55.88	1.1
RS2	0.11	328	eP	27	55.85	1.1
REF	0.13	345	eP	27	55.67	0.9
RDN	0.16	337	eP	27	55.54	0.8
			S	28	08.55	
RDT	0.24	28	iP	27	55.83	0.9
			eS	28	08.99	
NCT	0.24	323	eP	27	55.93	0.9
			eS	28	08.63	
NNL	0.74	115	eP	27	59.86	0.3
NKA	0.79	61	eP	28	00.99	1.1
CKL	0.85	10	iP	27	59.77	-0.9
			eS	28	15.70	
HOM	0.87	145	eP	28	00.23	-0.4
SPU	0.87	19	iP	27	59.69	-1.1
			eS	28	15.18	
BGL	0.91	7	iP	28	00.53	-0.7
CRP	0.93	14	eP	28	01.14	-0.4
PDB	0.97	234	iP	28	00.57	-1.1
			eS	28	16.59	
BRLK	1.06	124	eP	28	01.97	-0.7
NCG	1.07	12	eP	28	01.83	-1.0
CNPM	1.10	140	eP	28	02.36	-0.7
			eS	28	19.60	
SLKM	1.20	82	eP	28	03.03	-1.2
SUA	1.44	39	eP	28	06.22	-0.8
			eS	28	26.99	
CDD	1.53	200	eP	28	06.07	-1.9
SEW	1.61	98	eP	28	07.42	-1.5
SKT	1.71	18	eP	28	08.67	-1.5
PMS	1.75	58	eP	28	09.26	-1.4
SYI	1.77	176	eP	28	09.37	-1.4
PWA	1.86	45	eP	28	11.86	-0.1
PLRM	2.10	53	eP	28	12.88	-2.2
GHO	2.29	50	eP	28	15.61	-2.0
KNK	2.30	61	eP	28	15.18	-2.5
CUT	2.34	28	eP	28	16.72	-1.5
MTU	2.52	97	eP	28	18.38	-2.2
GLI	2.78	77	eP	28	21.66	-2.3
VZW	3.07	74	eP	28	24.96	-2.9
KLU	3.47	68	eP	28	29.99	-3.3
GLB	4.44	72	eP	28	43.47	-3.1
WRH	4.63	25	eP	28	46.19	-2.8
BALM	5.10	78	eP	28	52.26	-3.3

37 obs. associated

? FEB 23, 1991 14h 43m 20.79± 1.03s
24.570 S ±21.2km 14.469 W ±16.4km
DEPTH = 10.0km (geophysicist)
4.8mb (3 obs.) 4.7Msz (2 obs.)
SOUTH ATLANTIC RIDGE (410)

PDCR	26.21	293	eP	48	58.90	1.3
			e	49	01.90	
WIN	28.97	93	eP	49	06.50	-16.5X
	1.0s		30.00nm			
SOB1	29.46	297	eP	49	28.50	1.3
KIC	32.17	18	P	49	48.00	-3.0X
BAO	32.64	279	ePc	49	55.50	0.2
LKO	35.00	15	P	50	10.50	-5.0X
	0.8s		9.00nm			4.7mb
SIV	44.37	272	P	51	33.00	-0.4
CNCB	50.40	268	Pc	52	20.50	-0.8
LPB	50.59	268	P	52	20.00	-2.6X
Z	18s		0.69um			4.7Msz
			LR	06	40.00	
ZOBO	50.70	269	Pc	52	21.70	-1.9
	1.0s		7.50nm			4.6mb
Z	20s		0.67um			4.7Msz
			S	59	52.00	
			LR	08	45.00	
IFR	58.44	9	iPc	53	23.50	4.2X
SPA	65.58	180	iPc	54	07.90	1.1
	1.0s		20.00nm			5.3mb
ZST	77.78	21	eP	55	19.60	0.1
SRO	77.85	22	eP	55	19.10	-0.8

S.D. = 1.3 on 9 of 14 obs.

? FEB 23, 1991 14h 54m 02.85± 0.62s
45.597 N ±11.6km 26.529 E ±12.0km
DEPTH = 120.0km (geophysicist)
ROMANIA (358)

VRI	0.31	27	iPc	54	20.50	1.1
CVO	0.34	312	iPc	54	20.60	1.0
MLR	0.42	256	iPc	54	21.50	0.7
ISR	0.46	179	iPc	54	22.20	1.3
CLI	1.09	29	iPc	54	27.00	0.9
CFR	1.22	109	iPc	54	28.00	0.6
TLB	1.47	133	iPd	54	31.00	0.8

S.D. = 0.3 on 7 of 7 obs.

FEB 23, 1991 14h 55m 41.71± 0.59s
46.862 N ±11.8km 152.414 E ± 8.5km
DEPTH = 33.0km (normal)
4.9mb (28 obs.) 4.4Msz (3 obs.)
KURIL ISLANDS (221)

KUSJ	6.63	238	P	57	17.30	-2.0
			eS	58	28.80	
MRRJ	9.22	245	P	57	54.90	-0.4
			S	59	36.70	
MAT	14.77	231	eP	59	06.00	-3.9X
	0.7s		8.22nm			4.2mb
MDJ	16.08	270	eP	59	31.00	4.2X
CN2	19.17	271	eP	00	04.80	-0.2
Z	14s		0.60um			
SNY	21.16	267	Pd	00	27.60	1.5
	0.8s		20.00nm			4.6mb
HHC	29.81	273	eP	01	49.70	2.0
TIY	30.67	267	eP	01	54.60	-0.8
TTA	32.66	42	eP	02	14.20	1.7
SVW	32.73	45	eP	02	15.00	1.9
IMA	34.00	36	eP	02	24.00	-0.2
	0.7s		4.70nm			4.5mb
BRW	34.08	27	eP	02	25.20	0.6
FBA	36.37	38	eP	02	44.50	0.3
	0.7s		10.76nm			4.9mb
LZH	37.40	271	eP	02	53.00	-0.4
Z	20s		0.39um			4.2Msz
GTA	38.48	278	eP	03	03.00	0.7
	1.0s		10.00nm			4.6mb
CD2	40.41	264	P	03	18.50	0.2
	0.9s		20.00nm			4.9mb
INK	41.81	32	eP	03	29.50	0.2
WMO	44.44	291	eP	03	53.60	2.5
LSA	49.79	273	eP	04	35.00	1.3
YKA	51.12	37	eP	04	41.10	-1.7
	0.6s		0.90nm			3.9mb X
CHG	51.68	256	eP	04	47.50	-0.1

1.0s 12.25nm 4.8mb
GUN 54.51 274 P 05 08.60 -0.4
0.6s 20.00nm 5.3mb
KKN 55.00 275 P 05 12.60 0.2
0.6s 32.00nm 5.5mb
PKI 55.05 274 P 05 12.20 -0.7
0.7s 22.00nm 5.3mb
DMN 55.23 275 P 05 14.20 0.1
0.9s 69.00nm 5.7mb
GKN 55.30 275 P 05 14.20 -0.3
0.6s 32.00nm 5.5mb
KEV 57.08 340 eP 05 27.00 0.5
SOD 58.97 339 iP 05 32.80 -7.0X
FFC 60.96 40 iPc 05 52.10 -1.5
0.5s 7.00nm 5.0mb
LRM 61.51 52 eP 05 56.00 -1.8
e 06 10.70
KAF 63.14 335 iP 06 06.50 -1.5
0.6s 6.40nm 4.9mb
NUR 64.90 334 iP 06 18.00 -1.5
0.6s 5.60nm 4.8mb
FRB 65.10 19 eP 06 18.00 -2.7X
NB2 67.97 341 P 06 38.30 -0.8
0.6s 7.30nm 5.0mb
OIS 68.09 193 eP 06 42.00 1.8
HFS 68.18 339 eP 06 38.50 -1.8
0.4s 7.30nm 5.1mb
Z 18s 0.17um 4.3Msz
LR 28 55.00
WRA 68.47 198 P 06 55.00 12.5X
1.0s 1.90nm
GBA 69.94 269 P 06 51.00 -0.8
KOD 72.31 266 eP 07 05.80 -0.7
KSP 75.59 333 iPd 07 24.50 0.0
CLL 76.16 335 iPd 07 27.20 -0.5
0.9s 13.00nm 4.9mb
BRG 76.27 334 iP 07 27.50 -0.9
PRU 76.88 334 eP 07 32.00 0.2
KHC 77.93 334 P 07 38.10 0.5
GRF 78.12 335 iPd 07 39.60 1.0
0.7s 14.00nm 5.1mb
Z 19s 0.30um 4.6Msz
KBA 79.82 333 iPd 07 49.40 1.2
0.8s 14.10nm 5.0mb
CDF 80.37 337 eP 07 50.80 -0.2
0.9s 8.20nm 4.7mb
BSF 81.03 337 eP 07 54.00 -0.5
0.9s 6.55nm 4.6mb
LOR 82.30 339 eP 08 01.00 0.0
0.8s 7.40nm 4.8mb
LBF 82.54 339 eP 08 02.60 0.3
SSF 82.58 339 eP 08 02.40 0.0
0.8s 121.30nm 6.0mb X
AVF 82.87 339 eP 08 04.20 0.3
0.7s 3.30nm 4.5mb
SMF 82.89 339 eP 08 04.30 0.3
1.0s 13.00nm 5.0mb
LPL 83.18 336 eP 08 06.30 0.5
MAF 83.60 339 eP 08 08.10 0.4
1.0s 18.00nm 5.2mb
PGF 85.24 334 eP 08 15.80 -0.3
1.0s 10.00nm 5.0mb
LMR 85.25 336 eP 08 16.30 0.3
LPO 85.37 340 eP 08 16.10 -0.5
1.0s 16.00nm 5.2mb
S.D. = 1.0 on 53 of 58 obs.

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* FEB 23, 1991 14h 59m 51.75± 0.77s
49.062 S ±12.2km 164.880 E ±10.8km
DEPTH = 33.0km (normal)
5.0mb (1 obs.)
AUCKLAND ISLANDS REGION (166)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 25C
Centroid Location:
Origin Time 14:59:52.5 1.1
Lat 49.83S 0.14 Lon 163.92E 0.12
Dep 15.0 FIX Half-duration 1.7
Moment Tensor; Scale 10**17 Nm
Mrr= 0.64 0.06 Mtt= 0.71 0.11
Mff=-1.35 0.10 Mrt=-0.81 0.22
Mrf= 0.41 0.28 Mtf=-0.08 0.06
Principal Axes:
T Val= 1.53 Plg=44 Azm=190
N -0.09 43 346
P -1.43 12 88

Best Double Couple:Mo=1.5*10**17
NP1:Strike=218 Dip=50 Slip= 153
NP2: 326 70 43

TLC 4.81 38 eP 01 03.70 -0.2
MSZ 4.86 26 P 01 05.90 1.5
MQZ 7.58 48 eP 01 41.80 -0.9
TAU 13.66 290 eP 03 01.00 -4.3X
eS 05 23.00
TOO 18.13 302 iPc 04 05.40 2.8X
BFD 20.09 298 eP 04 25.00 -0.2
DRV 21.78 207 eP 04 43.00 0.9
BRS 23.57 332 iPc 05 04.00 3.9X
RMQ 25.78 325 iPc 05 22.50 1.3
DZM 26.96 3 iPc 05 36.90 4.7X
OLP 27.57 317 eP 05 39.50 1.9X
ASPA 35.14 305 ePKP 06 43.60 -0.7
WB2 37.96 309 eP 07 07.00 -1.0
WRA 37.97 309 P 07 16.00 7.9X
0.9s 23.00nm 5.0mb
KKN 104.13 296 Pdiff 14 00.00 6.6X
SES 122.36 49 ePKP 18 44.00 -0.1
INK 125.66 24 ePKP 18 48.50 -1.4
pP 18 57.00
YKA 128.08 36 ePKP 18 49.90 -4.8X
1.3s 2.80nm
MBC 133.84 19 ePKP 19 06.00 0.7
BBTK 145.12 273 ePKP 19 12.00 -14.9X
FRB 148.10 43 ePKP 19 34.00 3.2X
SCH 148.25 60 ePKP 19 34.00 2.6X
DAG 152.15 2 ePKP 19 41.80 5.1X
0.8s 6.72nm
S.D. = 1.1 on 11 of 23 obs.

? FEB 23, 1991 15h 08m 04.16± 0.64s
45.578 N ±12.4km 26.589 E ±12.6km
DEPTH = 120.0km (geophysicist)
ROMANIA (358)

VRI 0.31 18 iPc 08 21.00 0.3
CVO 0.38 310 iPc 08 21.20 -0.5
ISR 0.44 184 iPc 08 23.00 0.9
MLR 0.46 259 iPc 08 22.00 -0.3
e 19 44.00
CLI 1.09 26 iPc 08 27.50 0.1
CFR 1.17 109 iPc 08 28.20 0.0
TLB 1.42 134 iPd 08 30.50 -0.5
S.D. = 0.6 on 7 of 7 obs.

FEB 23, 1991 15h 28m 24.53± 1.07s
37.156 N ± 4.4km 8.629 W ±10.4km
DEPTH = 33.0km (normal)
PORTUGAL (376)
mbLg 3.5 (MDD). MD 3.4 (RBA).

EVAL 1.56 74 iPgc 28 51.50 1.2
eSg 29 05.60
GIBL 2.17 98 eP 29 00.00 1.0
CNIL 2.21 110 eP 29 00.00 0.4
PLAT 2.53 113 eP 29 03.00 -1.2
EJIF 2.63 105 iPn 29 05.90 0.3
eSn 29 30.70
EPRU 2.72 93 ePn 29 07.30 0.4
eSn 29 32.40
MAL 3.41 96 ePn 29 18.00 1.4
iSg 29 26.00
EPLA 3.53 34 iPnc 29 21.10 2.7X
eSn 29 59.70
EBAN 3.97 74 iPnc 29 24.60 -0.1
eSn 30 03.60
AVE 3.98 165 iPn 29 25.50 0.8
iSn 30 02.00
i 30 05.00
PTO 3.98 0 ePn 29 37.80 13.1X
i 30 13.70
i 30 20.20
iSn 30 24.80
iS* 30 40.80
ECOG 4.04 87 ePn 29 25.50 -0.3
eSn 30 04.30
AFC 4.06 87 ePn 29 25.80 -0.3
eSn 30 06.00
TOL 4.51 51 iPn 29 33.50 1.2
ePb 29 40.00
eSn 30 22.50
eSb 30 34.50
iSg 30 50.50

IFR 4.62 141 iPn 29 33.50 -0.6
iSn 30 18.00
GUD 4.93 44 ePn 29 39.80 1.4
eSn 30 31.80
EVIA 5.06 71 iPnc 29 39.60 -0.7
eSn 30 29.80
ENIJ 5.13 90 ePn 29 40.70 -0.4
ETOR 6.29 52 ePn 29 57.70 0.2
eSn 31 03.00
TIO 6.32 169 iPn 29 57.50 -0.4
iSn 30 56.90
ECHE 6.49 66 ePn 29 59.60 -0.7
ACU 6.64 76 ePn 30 00.80 -1.6
eSn 31 09.90
ECRI 7.20 39 ePn 30 11.10 1.0
EPF 9.03 47 Pn 30 36.40 0.7
Sn 31 11.60
LFF 10.51 39 Pn 30 54.80 -1.0
LPO 10.56 42 Pn 30 56.60 0.0
RJF 11.16 40 Pn 31 03.60 -1.1
CAF 11.19 43 Pn 31 04.60 -0.7
MFF 11.35 31 Pn 31 08.00 0.6
LSF 11.83 37 Pn 31 12.80 -1.0
MAF 12.32 39 Pn 31 19.00 -1.4
BGF 12.69 39 Pn 31 24.40 -1.0
DOU 16.06 32 eP 32 11.20 1.9
S.D. = 1.0 on 31 of 33 obs.

FEB 23, 1991 16h 39m 51.18± 0.63s
41.249 N ± 7.4km 22.744 E ± 5.3km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.9 (SKO).

KNT 0.15 127 eP 40 01.40 6.8X
VAY 0.15 299 iPg 39 55.40 0.8
iSg 39 57.00
GRG 0.39 222 eP 39 58.80 -0.4
eS 40 17.90
SOH 0.63 133 eP 40 02.40 -1.5
THE 0.64 165 eP 39 59.00 -5.0X
eS 40 18.92
SRS 0.65 101 ePc 40 05.40 1.2
KKB 0.67 22 iPgc 40 02.00 -2.5X
MMB 0.81 65 iPgd 40 07.00 0.0
SKO 1.22 307 ePn 40 13.00 -0.8
VTS 1.39 14 iPg 40 15.00 -1.7
OHR 1.47 265 ePn 40 19.00 1.2
PAIG 1.50 151 ePc 40 01.72 -16.4X
RZN 1.55 73 iPc 40 20.00 1.0
PGB 1.68 39 iPd 40 21.00 0.2
PLD 1.70 59 eP 40 24.00 3.0X
S.D. = 1.2 on 10 of 15 obs.

FEB 23, 1991 16h 49m 46.56± 0.77s
55.060 N ± 7.2km 164.884 W ± 5.0km
DEPTH = 159.5 ± 7.0 km
4.3mb (14 obs.)
UNIMAK ISLAND REGION (10)

SDN 2.53 82 eP 50 28.70 -0.2
ADK 7.73 251 eP 51 37.40 0.1
KLU 11.85 49 eP 52 29.80 -1.7
IMA 12.31 22 eP 52 40.00 2.5
FBA 13.00 34 eP 52 46.20 -0.1
INK 19.62 35 eP 54 02.00 -2.2
YKA 26.48 53 eP 55 09.60 -0.5
0.8s 1.50nm 3.7mb
MBC 27.05 22 ePc 55 16.00 0.9
0.5s 4.00nm 4.3mb
LON 28.01 89 eP 55 25.00 0.8
NEW 29.90 83 eP 55 41.30 0.4
KVN 34.92 98 eP 56 24.70 0.1
BONR 35.56 99 eP 56 30.30 0.2
TNP 36.09 98 eP 56 34.50 0.1
BW06 37.40 86 eP 56 45.40 -0.1
MSU 38.68 93 eP 56 56.50 0.3
RSSD 39.71 80 eP 57 04.00 -0.6
GOL 41.79 86 eP 57 22.20 0.4
ALO 44.45 92 eP 57 43.00 -0.2
FRB 45.22 39 eP 57 49.00 0.4
DAG 46.69 10 eP 58 00.20 0.1
0.8s 12.69nm 4.6mb
NB2 64.21 2 P 00 05.40 -0.3
0.8s 2.30nm 4.1mb
HFS 65.15 1 eP 00 10.40 -1.3
0.4s 4.30nm 4.7mb

23d 17h

HAU	77.04	6 eP	01 22.80	0.0	
LOR	77.60	8 eP	01 26.00	0.1	
	0.7s	3.30nm		4.2mb	
GUN	77.70	301 P	01 27.00	-0.2	
	0.4s	6.00nm		4.7mb	
SSF	77.78	8 eP	01 27.20	0.3	
	0.6s	3.15nm		4.2mb	
LBF	77.90	8 eP	01 27.50	-0.1	
AVF	78.04	8 eP	01 28.60	0.3	
	0.6s	2.70nm		4.2mb	
KKN	78.09	302 P	01 28.80	-0.4	
PKI	78.21	301 P	01 29.60	-0.4	
SMF	78.22	8 eP	01 29.60	0.3	
	0.8s	5.35nm		4.3mb	
GKN	78.23	302 P	01 29.40	-0.4	
	0.6s	9.00nm		4.7mb	
DMN	78.33	302 P	01 30.40	-0.1	
LSF	78.41	10 eP	01 30.60	0.2	
	0.7s	1.10nm		3.7mb	
MAF	78.54	9 eP	01 31.30	0.3	
	0.8s	4.70nm		4.3mb	
PGF	82.63	5 eP	01 53.50	0.7	
	0.7s	5.50nm		4.4mb	
S.D. = 0.8 on 36 of 36 obs.					

FEB 23, 1991 17h 53m 02.30± 0.59s
37.397 N ± 5.2km 26.465 E ± 5.8km
DEPTH = 11.1 ± 3.5 km
DODECANESE ISLANDS (369)
ML 3.8 (ATH).

SMG	0.43	43 ePg	53 11.80	0.7	
APE	0.81	247 ePb	53 17.00	-1.0	
IZM	1.18	32 iPn	53 25.00	0.7	
YER	1.47	100 iPn	53 28.50	-0.3	
PRK	1.85	355 ePn	53 34.20	0.0	
KAP	1.93	163 ePb	53 30.00	-5.3X	
NPS	2.24	198 ePg	53 40.00	0.2	
ATH	2.25	286 ePg	53 47.00	7.0X	
EZN	2.43	357 ePn	53 42.50	0.0	
KHL	2.59	68 ePn	53 53.50	8.6X	
DST	2.78	37 ePn	53 56.00	8.4X	
VLI	2.90	258 ePn	53 51.00	1.8	
EDC	3.14	20 ePn	53 53.00	0.4	
BNT	3.17	21 iPn	53 52.40	-0.6	
KCT	3.21	27 ePn	54 00.00	6.4X	
ALT	3.31	59 ePn	54 06.90	11.7X	
RDO	3.81	349 ePn	54 02.30	0.2	
YLV	3.89	35 ePn	54 10.00	6.6X	
KDZ	4.32	350 iP	54 08.00	-1.4	
RZN	4.49	343 iPc	54 12.00	0.0	
DMK	4.53	12 eP	54 11.80	-0.5	
PLD	4.89	344 iPd	54 18.00	0.5	
PGB	5.44	342 iPc	54 25.00	-0.3	
VTS	5.76	335 iP	54 31.00	1.2	
S.D. = 0.9 on 17 of 24 obs.					

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* FEB 23, 1991 18h 14m 51.20± 0.66s
8.991 N ±12.8km 126.731 E ±15.3km
DEPTH = 33.0km (normol)
4.9mb (3 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

QIS	31.98	157 iPc	21 15.90	-0.8	
	0.5s	15.00nm		5.1mb	
NWAO	42.65	192 eP	22 47.00	0.6	
GUN	42.81	302 P	22 48.40	0.1	
PKI	43.11	301 P	22 50.40	-0.3	
KKN	43.28	301 P	22 51.80	-0.1	
DMN	43.37	301 P	22 52.60	-0.2	
GKN	43.89	301 P	22 56.00	-0.8	
GBA	48.49	280 P	23 34.00	0.8	
DAG	92.09	352 eP	27 58.00	0.1	
	0.7s	4.79nm		5.0mb	
YKA	94.73	24 eP	28 10.90	0.6	
	0.7s	0.40nm		4.0mb	
S.D. = 0.6 on 10 of 10 obs.					

% FEB 23, 1991 18h 26m 33.95± 1.24s
18.208 N ±12.2km 67.123 W ±12.0km
DEPTH = 33.0km (normol)
MONA PASSAGE (89)

MGP	0.20	171 iP	26 40.40	-0.2	
MCP	0.21	3 iP	26 40.80	0.1	
		SS	26 54.80		
PORP	0.49	108 iP	26 45.00	0.6	
SJG	0.93	96 iP	26 51.00	0.3	
CPD	1.16	98 iP	26 53.50	-0.5	
LPR	1.19	85 iP	26 54.00	-0.5	
S.D. = 0.6 on 6 of 6 obs.					

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* FEB 23, 1991 18h 45m 00.62± 0.90s
31.414 S ± 9.8km 68.431 W ±15.8km
DEPTH = 120.4 ± 8.4 km
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.09	339 iPc	45 17.20	-0.4	
		(S)	45 29.20		
ZON	0.25	238 iPd	45 17.50	-0.5	
RTCB	0.32	257 ePd	45 17.90	-0.4	
RTCV	0.45	191 iPc	45 19.60	1.0	
RTRS	1.52	324 iPc	45 28.90	0.2	
JACH	2.23	235 iP	45 38.50	0.9	
		iS	46 07.10		
PEL	2.57	227 iPc	45 42.20	0.2	
		iS	46 13.00		
ROCH	2.68	234 iP	45 43.40	-0.2	
		iS	46 15.50		
SAN	2.77	222 iPd	45 45.70	1.1	
		iS	46 19.20		
PCH	2.82	218 iPc	45 46.20	0.9	
		iS	46 22.00		
TACH	3.08	223 iPc	45 48.50	-0.1	
		i	46 20.50		
		iS	46 25.20		
LCCH	3.36	231 iP	45 51.50	-0.9	
LNV	3.57	224 iPc	45 53.30	-1.9	
		i	46 27.00		
CNCB	14.55	2 eP	48 23.00	0.6	
LPB	14.82	1 P	48 21.00	-4.7X	
ZOBO	15.08	1 eP	48 23.00	-6.1X	
		i	48 30.00		
SIV	16.76	25 eP	48 49.00	-0.5	
BCAO	89.70	85 ePd	58 08.20	21.5X	
	0.2s	4.00nm			
		i	58 20.20		
S.D. = 0.9 on 15 of 18 obs.					

% FEB 23, 1991 18h 51m 28.57± 2.30s
45.850 N ±12.2km 0.701 W ±24.2km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.3 (LDG).

MFF	0.85	27 Pg	51 43.40	-1.5	
		Sg	51 55.60		
LFF	1.36	131 Pg	51 52.20	-1.4	
		Sg	52 11.00		
LSF	1.60	75 Pg	51 58.00	1.0	
		Sg	52 19.20		
RJF	1.65	109 Pg	51 57.30	-0.4	
		Sg	52 20.40		
LPO	1.77	131 Pg	51 59.20	-0.3	
		Sg	52 23.20		
CAF	2.16	114 Pg	52 06.80	1.7	
		Sg	52 35.60		
LPF	2.20	354 Pg	52 06.40	0.8	
		Sg	52 33.20		
BGF	2.56	73 Pg	52 15.60	4.8X	
		Sg	52 49.60		
S.D. = 1.5 on 7 of 8 obs.					

FEB 23, 1991 19h 53m 16.10± 0.22s
4.676 S ± 4.0km 137.708 E ± 6.1km
DEPTH = 21.5km (5 depth phases)
5.2mb (19 obs.) 4.6Msz (4 obs.)
WEST IRIAN (201)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 19S, 31C
Centroid Location:
Origin Time 19:53:22.7 3.4
Lat 4.27S 0.22 Lon 137.93E 0.12
Dep 15.0 FIX Half-duration 1.5
Moment Tensor; Scale 10**16 Nm
Mrr= 4.13 0.38 Mtt=-4.87 0.50
Mff= 0.74 0.60 Mrt= 3.19 2.61
Mrf=-1.30 1.40 Mtf= 0.94 0.40
Principal Axes:
T Val= 5.35 Plg=70 Azm= 37
N 0.78 8 284
P -6.13 18 191
Best Double Couple:Mo=5.7*10**16
NP1:Strike=268 Dip=28 Slip= 72
NP2: 108 64 99

MNDI	6.10	104 eP	54 45.00	-2.6	
MTN	10.40	218 iPd	55 47.00	-0.1	
	0.3s	333.00nm		7.1mb X	
		eS	57 40.00		
PMG	10.49	117 eP	55 45.00	-3.3X	
KNA	14.08	218 eP	56 35.70	-0.9	
	0.4s	95.00nm		5.9mb	
		eS	59 06.00		
WB2	15.52	192 eP	56 53.00	-2.5	
QIS	15.89	173 iPc	56 56.50	-3.8X	
	0.6s	65.00nm		5.0mb	
		eS	59 51.00		
DAV	16.83	314 eP	57 11.90	-0.2	
CTA	17.43	152 iPd	57 22.10	2.4	
	0.9s	84.03nm		4.9mb	
		iS	00 39.00		
ASPA	19.23	191 iPc	57 40.70	-1.2	
	0.4s	333.10nm		5.9mb	
Z	18s	11.40um		4.9MszX	
		eS	01 07.20		
HNR	22.56	103 eP	58 12.00	-4.4X	
QLP	22.66	165 iPd	58 18.20	0.9	
		eS	03 10.00		
WARB	23.87	205 iPc	58 31.40	2.4	
	0.4s	33.00nm		5.2mb	
		eS	02 55.00		
MBL	23.87	225 eP	58 33.00	3.9X	
KKM	23.96	296 ePc	58 32.80	2.7X	
RMO	24.13	155 eP	58 32.00	0.4	
		eS	04 28.00		
BRS	26.77	149 iPd	58 57.70	1.2	
		i	59 18.50	93kmX	
		eS	04 42.00		
BAG	26.94	321 eP	59 00.80	2.5X	
FORR	27.56	198 eP	59 03.00	-0.6	
CMS	27.74	165 e(P)	59 07.00	1.8	
NANU	27.86	228 eP	59 06.00	-0.4	
ADE	30.16	178 e(P)	59 28.30	1.3	
MRWA	31.92	218 eP	59 43.00	0.5	
BFD	32.65	173 eP	59 48.00	-0.7	
KLB	32.67	213 eP	59 49.50	0.4	
	0.4s	11.00nm		5.1mb	
NWAO	33.99	212 eP	00 01.00	0.5	
	0.5s	11.00nm		5.0mb	
Z	20s	5.70um		5.3Msz	
N	20s	3.90um			
E	20s	2.80um			
QIZ	36.16	311 eP	00 19.70	0.5	
		eS	05 57.00		
SSE	38.91	337 P	00 42.00	-0.1	
	1.6s	75.00nm		5.2mb	
Z	20s	0.50um		4.3Msz	
E	12s	0.30um			
		pP	00 50.00	27km	
		S	06 38.00		
NJ2	40.69	335 Pc	00 58.00	1.2	
		S	07 10.00		
NNT	41.45	295 eP	01 02.40	-0.9	
WHN	41.54	329 eP	01 05.00	1.2	
LOE	41.75	303 eP	01 06.00	0.3	
NST	42.33	299 eP	01 13.00	2.5X	
GYA	43.14	317 P	01 18.40	1.3	
		S	07 48.00		
KHT	43.32	297 eP	01 20.80	2.2	
BDT	43.99	301 eP	01 22.00	-2.0	
CHG	44.75	303 ePc	01 30.30	0.2	
	1.0s	20.00nm		5.0mb	
TIA	45.01	336 eP	01 32.30	0.3	
KMI	45.07	313 Pd	01 34.80	1.9	
		pP	01 44.00	31km	
XAN	47.14	327 eP	01 48.00	-0.8	
WLZ	47.75	139 eP	01 54.60	0.9	
CD2	47.99	320 P	01 55.40	-0.3	
	1.0s	30.00nm		5.3mb	
SNY	48.04	346 Pd	01 55.80	0.0	
	1.6s	100.00nm		5.6mb	
		S	08 54.00		
TIY	48.28	333 eP	01 57.00	-0.8	
Z	12s	0.60um		4.8MszX	
N	10s	0.30um			
BJI	48.71	338 eP	02 01.00	0.1	
Z	26s	0.66um		4.5MszX	
		eS	09 00.00		
KHZ	49.25	145 P	02 03.70	-1.4	

MNG	49.29	142	eP	02	04.40	-1.1
CN2	49.50	348	P	02	06.20	-0.8
Z	24s	0.90um				4.7MszX
		pP		02	12.00	19km
		S		09	12.00	
MDJ	49.61	352	eP	02	07.70	-0.1
Z	20s	0.56um				4.6Msz
		S		09	16.00	
PGZ	49.78	142	P	02	08.20	-1.0
HHC	51.24	335	eP	02	20.00	-0.5
LZH	51.47	325	Pc	02	22.50	0.1
	1.8s	45.00nm				5.1mb
Z	24s	0.46um				4.4MszX
		pP		02	27.50	17km
		sP		02	30.50	
BTO	51.72	333	eP	02	23.50	-0.6
GTA	56.07	325	eP	02	55.80	-0.4
	1.2s	10.00nm				4.7mb
Z	28s	0.40um				4.4MszX
		pP		03	00.00	14km
		S		10	44.00	
LSA	56.19	311	eP	02	58.20	0.6
GUN	59.51	306	P	03	26.00	5.1X
PKI	59.75	306	P	03	27.00	4.5X
	0.9s	25.00nm				5.3mb
KKN	59.94	306	P	03	28.80	5.1X
	1.1s	78.00nm				5.8mb
DMN	60.01	306	P	03	29.40	5.2X
GKN	60.55	306	P	03	32.60	4.9X
GBA	62.51	288	P	03	38.00	-2.9
WMO	65.94	323	P	04	02.50	-0.4
		eS		12	48.00	
NDI	66.88	304	eP	04	08.00	-1.1
POO	66.98	292	eP	04	07.00	-3.0X
VNDA	73.92	175	P	04	51.00	0.0
QUE	75.88	303	eP	05	05.00	1.6
ANM	80.68	22	eP	05	29.70	1.0
SVW	83.06	27	eP	05	42.70	1.5
RSO	84.13	28	P	05	48.50	1.6
SLKM	85.33	28	P	05	51.40	-1.2
SPA	85.36	180	iPd	05	53.20	0.3
	1.0s	24.50nm				5.4mb
IMA	85.74	22	ePc	05	55.50	0.8
	1.1s	11.40nm				5.0mb
PMR	86.16	27	ePc	05	56.30	-0.4
	1.1s	24.20nm				5.3mb
BRW	86.77	17	eP	06	01.00	1.5
TOA	87.65	27	eP	06	05.20	1.2
FBA	87.69	24	ePc	06	03.60	-0.5
BALM	89.20	29	P	06	10.20	-1.3
INK	93.85	22	eP	06	31.00	-1.7
YKA	102.26	27	ePdiff	07	10.10	-0.7
	0.8s	0.70nm				4.4mb
BSF	119.98	324	ePKP	12	06.90	0.0
	0.9s	6.55nm				
PGF	121.01	318	ePKP	12	08.30	-0.8
LPG	121.14	322	ePKP	12	09.00	-0.5
	0.8s	4.05nm				
LPL	121.14	322	ePKP	12	09.00	-0.4
	0.8s	2.70nm				
SBF	121.46	320	ePKP	12	09.00	-0.8
LBF	122.06	324	ePKP	12	11.20	0.4
	0.8s	4.05nm				
FRF	122.11	320	ePKP	12	10.80	-0.2
SSF	122.29	325	ePKP	12	11.80	0.6
	0.9s	4.10nm				
LRG	122.34	320	ePKP	12	11.10	-0.3
Z	20s	0.15um				4.6Msz
TCF	123.46	324	ePKP	12	14.30	0.8
	0.9s	8.20nm				
LSF	123.87	325	ePKP	12	14.60	0.3
	1.0s	12.00nm				
RJF	124.40	324	ePKP	12	15.40	0.0
LPO	124.94	323	ePKP	12	16.80	0.4
LFF	125.06	324	ePKP	12	16.90	0.3
IFR	135.08	314	iPKP	12	37.00	0.6
KIC	142.59	274	PKP	12	46.00	-4.4X
TIC	142.86	275	PKP	12	48.40	-2.5
LIC	142.88	274	PKP	12	48.90	-2.0
LKO	143.28	280	PKP	12	47.74	-3.9X
	0.7s	11.50nm				
CNCB	146.83	131	iPKPc	13	01.50	3.4X
LPB	146.91	130	PKPc	12	59.70	1.6
ZOBO	147.05	130	ePKP	12	59.00	0.5
	1.0s	40.00nm				
Z	24s	0.15um				4.7MszX
		LR		32	30.00	

CCH	147.83	134	PKP	13	04.50	5.1X
VAO	152.12	171	ePKP	13	13.60	8.1X
SIV	152.30	138	PKP	13	13.20	7.3X
	S.D. = 1.2	on	84 of 103 obs.			

FEB 23, 1991 20h 19m 59.41± 0.72s
34.156 S ± 8.2km 71.160 W ± 6.9km
DEPTH = 78.9 ± 4.3 km
4.7mb (13 obs.)
NEAR COAST OF CENTRAL CHILE (135)
Felt (IV) at Rancagua and San Fernando; (III) at Santiago and Valparaiso.

LNV	0.29	314	iP	20	10.80	-0.8
TACH	0.53	20	iPc	20	13.00	-0.6
PCH	0.76	45	iPc	20	15.70	-0.2
LCCH	0.76	333	iP	20	15.50	-0.3
SAN	0.81	31	iPc	20	16.10	-0.4
PEL	1.08	22	iPd	20	20.10	0.3
ROCH	1.19	6	iPd	20	21.50	0.3
IHA	1.20	340	iPc	20	21.40	0.3
			iS	20	35.30	
JACH	1.54	18	iPd	20	26.00	0.2
			iS	20	45.50	
RTCV	3.18	45	ePc	20	49.20	1.1
RTCB	3.32	37	iPd	20	51.20	1.0
ZON	3.34	39	ePd	20	50.80	0.4
RTLL	3.62	40	iPc	20	54.80	0.5
			eS	21	40.00	
RTRS	4.23	20	iPd	21	03.80	1.1
ANT	10.43	4	e(P)	22	27.00	-1.2
CCH	17.30	16	P	23	58.00	0.4
CNCB	17.51	10	Pd	24	00.70	0.3
			i	24	27.30	
LPB	17.76	10	Pd	24	02.00	-1.4
	1.0s	166.00nm				5.2mb
Z	23s	0.76um				4.7Msz
		LR		01	20.00	
ZOBO	18.02	9	iPd	24	06.00	-0.7
	0.8s	69.60nm				4.9mb
Z	22s	0.84um				4.5MszX
		LR		00	50.00	
SIV	20.24	29	iPd	24	28.40	-2.3
PPD	21.23	60	eP	24	40.70	0.1
NNA	22.67	345	iP	24	56.50	1.5
	0.8s	16.42nm				4.5mb
VAO	23.92	69	eP	25	07.20	0.2
SPA	56.02	180	eP	29	33.00	0.9
	1.0s	10.00nm				4.8mb
RSCP	70.69	348	P	31	06.30	-2.2
BLA	71.52	352	P	30	58.80	-14.7X
FVM	73.97	344	P	31	27.00	-0.8
	0.7s	28.57nm				5.3mb
KIC	74.44	71	P	31	30.60	-0.4
	0.9s	7.50nm				4.6mb
LKO	75.75	68	P	31	38.00	-0.5
ALQ	76.27	331	ePd	31	41.90	0.7
	1.0s	5.25nm				4.4mb
			e	32	13.00	
RSNY	78.39	358	P	31	52.00	-0.4
	0.8s	13.62nm				4.9mb
GLD	80.00	334	P	32	02.80	1.3
	0.8s	28.24nm				5.2mb
GOL	80.01	334	P	32	02.20	0.5
	0.7s	2.79nm				4.3mb
PEC	80.27	323	P	32	02.80	-0.1
PV09	80.42	331	P	32	04.50	0.6
CBM	80.76	2	P	32	07.50	2.4X
RSSD	83.46	337	P	32	19.00	-0.5
	0.8s	8.01nm				4.7mb
TNP	83.64	325	P	32	21.20	0.7
	0.7s	4.22nm				4.5mb
BW06	84.24	333	P	32	22.80	-0.7
	0.8s	3.81nm				4.5mb
ORV	B6.86	323	eP	32	38.30	2.1
WDC	88.16	323	iPc	32	43.00	0.6
GBA	144.96	118	PKP	39	28.00	-1.5
GKN	158.41	100	PKP	40	00.00	11.1X
	S.D. = 1.0	on	40 of 43 obs.			

* FEB 23, 1991 20h 42m 39.78± 0.57s
12.922 N ±10.7km 87.882 W ±10.6km
DEPTH = 33.0km (normal)
4.8mb (14 obs.)
NEAR COAST OF NICARAGUA (74)

TPX	4.69	295	(P)	43	49.50	-0.5
			(S)	44	42.00	
SCX	5.96	310	(P)	44	20.00	12.0X
DVD	6.95	129	ePd	44	19.00	-3.0
OXX	9.49	297	(P)	44	19.00	-38.5X
PPM	12.00	302	(P)	45	31.00	-1.0
III	12.40	297	(P)	45	37.50	0.3
MRX	14.44	300	(P)	46	06.00	2.2
UYO	21.98	345	iPc	47	32.50	-0.2
RSCP	22.68	5	iP	47	40.00	0.4
MEO	23.83	338	e(P)	47	48.00	-2.8
BLA	25.09	14	eP	48	04.80	1.8
	1.0s	10.00nm				4.4mb
ALQ	27.63	326	ePc	48	26.30	-0.3
	1.1s	18.04nm				4.7mb
GOL	30.82	333	iP	48	55.00	-0.2
	1.5s	39.31nm				5.0mb
PV09	31.70	327	eP	49	03.10	0.0
RSNY	33.53	17	eP	49	20.00	1.5
	1.1s	24.84nm				5.0mb
RSSD	34.04	339	iP	49	22.20	-1.0
	1.2s	40.09nm				5.2mb
ZOBO	34.97	145	P	49	30.00	-1.8
	0.9s	3.24nm				4.3mb
			LR	55	42.00	
BW06	35.17	332	iP	49	32.00	-0.9
	1.5s	16.02nm				4.7mb
LPB	35.20	146	P	49	36.00	2.4
CNCB	35.49	146	P	49	37.70	1.5
TNP	36.17	319	eP	49	33.00	-8.5X
	0.9s	1.95nm				4.0mb
CMB	38.22	317	eP	50	00.50	2.0
LRM	38.84	332	eP	50	04.00	0.2
SIV	39.09	137	P	50	06.50	0.5
WDC	40.99	319	eP	50	17.00	-4.3X
SES	41.89	338	eP	50	29.00	0.4
NEW	42.79	331	eP	50	35.00	-1.0
FFC	43.15	348	eP	50	37.00	-1.8
	1.0s	22.00nm				4.9mb
PNT	44.71	331	eP	50	52.00	0.5
SCH	44.95	17	eP	50	53.00	-0.4
YKA	53.05	345	eP	51	51.40	-4.3X
	1.1s	15.60nm				4.9mb
INK	62.63	343	eP	53	02.00	-0.9
MBC	65.50	352	eP	53	21.00	-0.5
	1.0s	13.00nm				5.0mb
DAG	72.76	13	eP	54	05.80	-0.5
	0.6s	5.33nm				4.7mb
EKA	76.49	36	P	54	29.00	1.0
	2.7s	436.20nm				6.0mb X
NB2	83.16	29	P	55	06.20	2.5
	0.9s	4.50nm				4.6mb
KEV	86.25	18	eP	55	13.00	-6.0X
NUR	89.53	27	iP	55	31.00	-3.9X
	0.8s	24.90nm				5.6mb
WRA	138.99	254	PKP	02	02.00	-3.7X
	1.1s	3.00nm				
GBA	149.90	29	PKP	02	32.00	7.9X
	0.6s	1.90nm				
	S.D. = 1.5	on	31 of 40 obs.			

* FEB 23, 1991 20h 56m 49.56± 0.66s
27.874 S ± 9.9km 66.915 W ±13.9km
DEPTH = 183.2 ± 14.9 km
CATAMARCA PROVINCE, ARGENTINA (130)

RTRS	3.19	224	iPc	57	43.20	2.0
SLA	3.38	22	e(P)	57	43.00	-0.7
RTLL	3.70	201	iPd	57	42.80	-4.8X
			eS	58	30.20	
CFA	3.89	197	ePd	57	50.30	0.3
			eS	58	34.00	
RTCB	3.96	204	iPc	57	51.50	0.6
			eS	58	36.50	
ZON	3.97	202	ePd	57	50.30	-0.7
			eS	58	35.30	
TCA	4.00	150	iPd	57	50.80	-0.7
			S	58	35.20	
PEL	6.18	211	iPc	58	19.90	0.2
			iS	59	28.60	
PCH	6.51	208	eP	58	24.50	0.3
			iS	59	38.00	
TACH	6.72	210	eP	58	26.50	-0.3
			iS	59	40.60	
LNV	7.19	211	eP	58	31.00	-2.0
SIV	13.00	26	P	59	48.40	-0.4
PPD	15.30	71	eP	00	18.60	1.3

23d 21h

VAO	18.65	79	ePc	01	55.20	59.1X
			e	01	59.10	
LKO	69.98	67	P	07	43.42	0.1
S.D. = 1.1 on 13 of 15 obs.						

FEB 23, 1991 22h 21m 03.48± 0.34s
7.102 S ± 5.0km 129.563 E ± 8.9km
DEPTH = 33.0km (normol)
4.9mb (9 obs.) 4.7Msz (1 obs.)
BANDA SEA (280)

MTN	5.91	165	eP	22	33.00	1.9
	0.3s	439.00nm			6.6mb	X
KNA	8.63	185	eP	23	09.00	-0.1
	0.3s	155.00nm			6.6mb	X
			eS	24	38.00	
WB2	13.59	160	iPd	24	13.70	-2.6X
QIS	16.54	145	iPd	24	53.40	-1.3
	0.4s	29.00nm			4.8mb	
			eS	27	43.00	
MBL	16.85	213	eP	24	58.10	-0.4
			eS	27	47.00	
ASPA	16.99	166	iPc	24	58.60	-1.8
	0.4s	32.60nm			4.8mb	
			eS	27	51.50	
PMG	17.56	99	eP	25	12.00	4.5X
KKM	18.65	314	eP	25	28.00	6.9X
WARB	19.18	188	eP	25	26.00	-1.3
	0.3s	11.00nm			4.6mb	
			eS	28	47.00	
NANU	20.47	220	iPd	25	41.90	0.7
	0.4s	38.00nm			5.1mb	
CTA	20.70	130	iPd	25	48.30	4.7X
	0.9s	33.61nm			4.7mb	
MEKA	22.06	207	eP	25	58.00	0.7
			eS	30	00.00	
FORR	23.67	183	eP	26	13.50	0.6
OLP	23.88	146	iPc	26	16.10	1.0
			eS	30	56.00	
MRWA	25.45	209	eP	26	31.00	0.9
			e	26	53.00	
			eS	31	13.00	
BAL	26.31	206	eP	26	38.00	-0.1
KLB	26.74	203	eP	26	42.00	-0.1
			e	27	13.00	
			eS	31	44.00	
NWAO	28.13	202	eP	26	55.00	0.3
Z	20s	2.20um			4.7Msz	
N	20s	1.30um				
E	20s	1.10um				
			eS	32	18.00	
ADE	28.98	164	e(P)	27	00.00	-2.3
BRS	29.87	135	iPc	27	10.00	-0.4
TOO	33.61	157	iPd	27	44.70	1.7
KHT	37.63	305	eP	28	19.30	1.9
BDT	38.70	309	eP	28	26.00	-0.3
CHG	39.68	311	eP	28	36.20	1.7
	0.8s	16.04nm			4.8mb	
			e	34	40.30	
XAN	45.35	336	Pd	29	20.10	-0.4
TIY	47.36	341	eP	29	36.70	0.3
LSA	51.97	317	eP	30	13.00	0.6
GTA	53.85	332	eP	30	26.00	0.2
	1.0s	10.00nm			4.8mb	
GUN	54.69	311	P	30	32.00	-0.5
PKI	54.86	311	P	30	33.20	-0.5
KKN	55.08	311	P	30	34.60	-0.5
DMN	55.11	311	P	30	35.00	-0.4
GKN	55.67	311	P	30	38.60	-0.7
GBA	55.69	292	P	30	38.00	-1.4
NDI	61.70	308	iPc	31	19.00	-2.1
	0.5s	17.61nm			5.4mb	
WMQ	63.24	327	P	31	31.20	0.1
			PcP	32	07.50	
SPA	82.95	180	iPd	33	25.50	-0.9
	0.8s	19.58nm			5.3mb	
BZS	107.58	316	ePKP	39	49.50	20.7X
BRT	111.49	311	PKP	39	27.20	-9.2X
ORI	112.19	310	PKP	39	41.00	3.2X
TDS	112.35	310	PKP	39	36.80	-1.2
SOI	112.82	308	PKP	39	38.50	-0.4
MGR	112.86	311	PKP	39	43.30	4.3X
SGO	112.96	311	PKP	39	45.50	6.4X
ALQ	121.72	53	ePKP	39	56.30	-0.1
KIC	134.63	272	PKP	40	21.80	0.4
LIC	134.90	272	PKP	40	22.40	0.5
TIC	134.92	272	PKP	40	22.40	0.4
LKO	135.58	276	PKP	40	23.42	0.2
	0.6s	10.50nm				
NNA	147.61	126	ePKP	40	47.70	3.3X
	0.8s	10.45nm				
VAO	149.89	186	(PKP)	40	53.00	5.2X
CNCB	150.58	144	PKP	40	51.00	1.4
			i	41	25.60	
LPB	150.73	143	PKP	40	50.00	0.4
	1.0s	36.00nm				
			i	40	54.80	
ZOBO	150.92	143	iPKP	40	51.30	1.2
	1.0s	20.00nm				
Z	24s	0.08um			4.4MszX	
			LR	07	25.00	
PPD	151.04	178	ePKP	40	54.40	4.9X
CCH	151.14	148	(PKP)	40	56.00	5.9X
SIV	154.75	155	PKP	40	55.00	0.2
			i	41	19.00	
S.D. = 1.0 on 44 of 57 obs.						

? FEB 23, 1991 22h 35m 03.78± 6.11s
51.732 N ±36.1km 16.280 E ±37.4km
DEPTH = 10.0km (geophysicist)
POLAND (548)
ML 3.8 (GRF), 3.6 (VKA).

KSP	0.89	179	iPd	35	20.80	-0.1
			iS	35	29.80	
			iLR	35	38.00	
BRG	1.70	241	iPn	35	33.50	-0.1
			iPg	35	35.00	
			iSg	35	54.40	
PRU	2.06	213	Pn	35	38.80	-0.1
	0.5s	95.20nm				
			Pg	35	40.80	
			Sn	35	58.00	
			Sg	36	04.10	
			e	36	11.00	
CLL	2.09	260	iPn	35	39.50	0.2
			iPg	35	42.80	
			eSg	36	09.00	
KRA	2.86	124	eP	36	02.20	11.9X
			iS	36	41.20	
HOF	3.12	245	iPnc	35	53.80	-0.1
KHC	3.12	215	iPn	35	54.00	0.0
			Pg	36	01.00	
			Sn	36	29.40	
			Sg	36	40.30	
MOX	3.13	251	ePn	35	54.50	0.5
			iPg	36	03.00	
			iSg	36	42.00	
WET	3.38	221	iPnc	35	57.60	-0.1
VKA	3.47	180	iPgc	36	08.80	9.9X
			iSg	36	52.20	
SPC	3.59	134	eP	36	18.00	17.2X
GRF	3.81	240	iPnc	36	03.90	0.1
			ePg	36	16.70	
			eSg	37	01.10	
SRO	4.14	161	eP	37	02.50	54.2X
KBA	5.04	203	iPnc	36	21.50	0.2
	0.7s	27.30nm			5.0mb	X
			e	37	17.00	
			i	37	39.40	
			i	37	46.80	
TNS	5.17	256	ePn	36	22.50	-0.6
			eSn	37	50.30	
S.D. = 0.3 on 11 of 15 obs.						

? FEB 23, 1991 22h 36m 21.35± 0.69s
45.668 N ±13.4km 26.651 E ±13.5km
DEPTH = 120.0km (geophysicist)
ROMANIA (358)

VRI	0.21	14	iPc	36	38.50	0.9
CVO	0.37	295	iPc	36	38.40	-0.5
MLR	0.53	251	iPc	36	39.10	-0.8
ISR	0.54	188	ePc	36	41.00	1.2
CLI	0.99	26	iPc	36	43.40	-0.2
CFR	1.16	114	iPc	36	45.20	-0.1
TLB	1.46	137	iPd	36	48.00	-0.6
S.D. = 0.9 on 7 of 7 obs.						

FEB 23, 1991 22h 38m 08.47± 0.28s
39.275 N ± 2.7km 23.580 E ± 2.6km
DEPTH = 9.7 ± 1.8 km
AEGEAN SEA (365)
ML 3.9 (ATH).

NEO	0.28	277	eP	38	14.00	-0.3
PAIG	0.66	7	eP	38	22.40	0.8
AGG	1.00	256	eP	38	27.00	-0.5
PLG	1.10	355	eP	38	29.00	-0.2
LIT	1.18	315	eP	38	30.70	0.2
			eS	38	46.40	
ATH	1.30	175	eP	38	34.00	1.4
EVR	1.42	256	eP	38	34.00	-0.5
THE	1.44	341	eP	38	34.50	0.0
			eS	38	53.80	
SOH	1.56	354	eP	38	36.80	0.5
KZN	1.73	307	eP	38	38.20	-0.7
SRS	1.84	0	eP	38	40.60	0.2
GRG	1.91	332	eP	38	41.40	0.0
			eS	39	06.00	
KNT	1.96	345	eP	38	42.80	0.7
			eS	39	07.50	
PRK	2.09	90	ePg	38	49.00	5.0X
VAY	2.19	340	iPn	38	46.40	1.0
			i	39	09.60	
			iSn	39	14.30	
			Lg	39	30.60	
EZN	2.19	75	ePn	38	46.70	1.2
FNA	2.27	312	eP	38	46.60	0.0
MMB	2.31	3	iPc	38	47.00	-0.3
RDO	2.40	38	eP	38	47.20	-1.2
ITM	2.46	212	eP	38	50.00	0.6
ALN	2.49	49	eP	38	49.10	-0.6
IGT	2.53	277	eP	38	49.50	-0.8
			eS	39	20.30	
RZN	2.56	19	iPc	38	51.00	0.1
VLS	2.58	246	eP	38	51.30	0.2
VLI	2.60	191	eP	38	50.00	-1.3
KKB	2.62	352	eP	38	51.00	-0.5
APE	2.69	144	eP	38	51.70	-0.9
KDZ	2.76	30	iP	38	53.00	-0.5
OHR	2.81	312	ePn	38	54.80	0.4
			iSg	39	36.40	
			Lg	39	44.50	
PLD	2.95	16	iPc	38	57.00	0.7
KEK	2.96	280	eP	39	00.00	3.6X
IZM	3.01	106	ePn	38	58.00	0.9
DIM	3.15	28	eP	38	59.00	0.0
SKO	3.15	330	ePn	38	59.50	0.5
			i	39	09.50	
			i	39	21.50	
			i	39	44.00	
VTS	3.33	355	iPc	39	02.00	0.2
EDC	3.47	71	ePn	39	03.00	-0.6
BNT	3.51	71	ePn	39	03.60	-0.7
KCT	3.81	74	ePn	39	08.00	-0.5
JMB	3.92	35	iPc	39	09.00	-1.0
DST	3.92	84	ePn	39	12.00	1.9
DMK	4.07	50	iPn	39	11.90	-0.3
PVL	4.15	18	iPc	39	11.00	-2.3
YLV	4.64	72	eP	39	20.00	-0.3
PSN	5.60	37	iPd	39	33.00	-0.8
ISR	6.26	20	eP	39	43.00	-0.2
MLR	6.45	15	iPd	39	46.00	0.0
CFR	6.81	28	eP	39	57.00	6.2X
CVO	6.82	15	eP	39	52.00	1.0
VRI	6.99	18	eP	39	54.00	0.7
SDI	7.83	291	P	40	05.50	0.3
S.D. = 0.8 on 47 of 50 obs.						

• FEB 23, 1991 23h 07m 45.59± 0.65s
51.153 S ±10.9km 161.210 E ± 7.9km
DEPTH = 10.0km (geophysicist)
5.1mb (10 obs.)
NORTH OF MACQUARIE ISLAND (165)

TLC	7.95	44	eP	09	43.90	-0.1
MMCZ	8.12	44	eP	09	46.10	-0.3
MHZ	8.14	45	P	09	46.30	-0.3
MQZ	10.74	51	eP	10	20.90	-1.4
TAU	12.54	306	iPd	10	46.50	-0.3
			eS	12	57.00	
TOO	17.57	315	eP	11	56.00	3.9X
BFD	19.27	309	eP	12	15.00	2.0
			i	12	19.60	
ADE	22.92	306	iPd	12	53.30	2.6X
	0.9s	53.78nm			5.1mb	
BRS	24.58	342	iPc	13	09.00	2.3
RMO	26.40	334	iPd	13	25.00	1.2
	0.7s	22.00nm			5.0mb	
DZM	29.31	10	iPc	13	52.80	2.4
ASPA	34.60	312	iPc	14	36.40	-0.3

0.7s 39.90nm 5.4mb
iScP 19 53.10
WARB 36.21 300 eP 14 49.20 -1.1
KLB 37.33 285 eP 14 58.00 -1.7
0.7s 19.00nm 5.0mb
WB2 37.63 316 eP 15 01.00 -1.3
WRA 37.64 316 P 15 01.00 -1.3
1.1s 21.90nm 4.8mb
SPA 39.04 180 iPc 15 15.40 1.5
1.1s 8.93nm 4.3mb
i 17 18.00
BDT 87.03 302 eP 20 29.00 -3.3X
0.7s 34.40nm 5.7mb
CHG 88.36 303 ePc 20 37.90 -0.8
1.1s 38.92nm 5.6mb
SSE 89.17 327 Pc 20 42.00 -0.2
1.0s 25.00nm 5.4mb
NJ2 90.86 325 Pc 20 49.80 -0.2
GYA 90.96 313 P 20 50.40 -0.4
pP 20 57.00 21kmX
XAN 96.48 319 Pd 21 15.00 -0.9
GBA 96.61 283 Pd 21 12.10 -4.7X
0.7s 1.80nm 4.7mb
SES 125.52 52 ePKP 26 44.00 -3.7X
INK 128.54 26 ePKP 26 48.00 -4.8X
YKA 131.17 38 ePKP 26 49.70 -8.3X
0.9s 1.10nm
MBC 136.60 20 ePKP 27 04.00 -3.9X
VRI 149.77 278 ePKPc 27 32.00 0.5
MLR 150.09 277 ePKP 27 33.00 0.9
VAY 150.11 267 ePKP 27 32.50 0.4
OHR 151.11 265 ePKP 27 33.00 -0.7
FRB 151.24 45 ePKP 27 36.00 3.0X
S.D. = 1.2 on 24 of 33 obs.

? FEB 24, 1991 00h 08m 25.29± 3.08s
15.985 N ±29.4km 98.579 W ±12.7km
DEPTH = 33.0km (normal)
3.5mb (1 abs.)
OFF COAST OF GUERRERO, MEXICO (65)

ACX 1.51 306 iP 08 49.50 -0.8
iS 09 11.00
OXX 2.09 58 iP 08 59.50 0.6
(S) 09 31.25
III 2.52 340 iP 09 07.25 2.2
iS 09 35.00
IIT 3.03 5 iP 09 11.25 -1.1
iS 09 50.00
PPM 3.06 359 eP 09 13.25 0.2
iS 09 53.00
IISM 3.20 21 iP 09 13.25 -1.1
iS 09 54.50
UNM 3.38 350 (P) 09 24.00 6.7X
(S) 10 01.00
LVVM 4.25 28 (P) 09 25.25 -4.0X
MRX 4.46 326 eP 09 38.00 5.7X
ALQ 20.16 341 eP 13 04.00 4.1X
YKA 47.81 350 eP 17 01.30 0.0
0.6s 0.30nm 3.5mb
S.D. = 1.4 on 7 of 11 obs.

? FEB 24, 1991 00h 42m 19.80± 3.87s
35.669 S ± 9.5km 179.584 W ±43.8km
DEPTH = 33.0km (normal)
EAST OF NORTH ISLAND, N.Z. (688)

HBZ 2.57 221 P 43 00.00 0.0
0.4s 304.00nm
PUZ 2.96 215 P 43 05.30 -0.2
S 43 42.70
NOZ 3.50 212 P 43 13.30 0.0
TAZ 4.04 230 P 43 21.60 0.7
WLZ 4.44 239 P 43 26.20 -0.4
WHH 4.48 223 P 43 27.10 -0.1
DZM 18.23 314 iPd 46 32.00 0.0
YKA 110.75 27 ePdiff 57 14.10 24.0X
0.4s 0.20nm
YKA 110.75 27 ePKP 00 58.50 8.5X
0.7s 0.30nm
KEV 142.91 345 ePKP 01 41.00 -9.6X
SOD 144.88 343 iPKP 01 51.20 -2.8X
i 02 02.80
KAF 148.96 337 ePKP 02 02.80 2.0X
0.5s 2.80nm
NUR 150.67 335 ePKP 02 06.00 2.6X
0.7s 17.40nm
i 02 18.40
S.D. = 0.4 on 7 of 13 obs.

• FEB 24, 1991 00h 50m 37.44± 0.79s
42.091 S ±19.5km 171.414 E ± 9.2km
DEPTH = 33.0km (normal)
4.9mb (2 obs.)
SOUTH ISLAND, NEW ZEALAND (162)
Felt at Westport.

WEL 2.64 73 P 51 19.00 0.4
S 51 53.00
TAU 17.78 259 P 54 45.00 1.2
TOO 20.38 274 eP 55 14.00 0.0
BRS 21.14 308 iPd 55 27.00 5.2X
ASPA 36.11 289 iPc 57 37.50 -0.8
1.3s 19.10nm 4.9mb
WB2 38.26 294 iPd 57 56.00 -0.3
SPA 48.10 180 iPc 59 15.20 -0.5
1.0s 12.50nm 4.9mb
YKA 119.74 31 ePKP 09 18.70 -5.9X
0.8s 0.80nm
LIC 144.14 186 PKP 10 06.74 -5.0X
0.4s 6.50nm
KIC 144.26 187 PKP 10 07.22 -4.8X
0.6s 17.50nm
TIC 144.56 186 PKP 10 07.88 -4.6X
0.8s 11.00nm
LKO 147.48 186 PKPc 10 16.54 -0.8X
0.6s 11.00nm
S.D. = 0.9 on 6 of 12 obs.

• FEB 24, 1991 01h 20m 59.23± 0.79s
9.804 S ± 9.4km 159.814 E ±19.5km
DEPTH = 33.0km (normal)
4.7mb (4 obs.)
SOLOMON ISLANDS (193)

HNR 0.39 20 ePd 21 07.50 -0.7
eS 21 12.00
SVO 0.65 0 iP 21 11.90 0.0
iS 21 19.00
CTA 16.60 230 iPc 24 55.80 4.5X
1.2s 93.75nm 4.8mb
BRS 18.71 200 iPc 25 18.00 0.6
RMQ 19.62 211 iPd 25 28.00 0.0
0.5s 28.00nm 4.8mb
QIS 22.21 239 iPd 25 55.00 0.4
QLP 22.26 219 eP 25 54.00 -1.0
CMS 25.18 209 eP 26 24.00 0.7
WB2 26.55 245 iPd 26 35.60 -0.6
ASPA 28.32 238 eP 26 50.60 -1.6
1.0s 11.90nm 4.5mb
GUN 80.64 300 P 33 16.60 5.4X
PKI 80.95 300 P 33 14.00 1.3
KKN 81.12 300 P 33 16.60 3.1X
DMN 81.22 300 P 33 15.00 0.9
GKN 81.72 300 P 33 17.00 0.4
YKA 96.58 28 eP 34 26.50 -0.1
0.6s 0.30nm 4.0mb
S.D. = 0.9 on 13 of 16 obs.

& FEB 24, 1991 02h 03m 00.74s
46.627 N 122.132 W
DEPTH = 15.6km
WASHINGTON (29)
<SEA>. CL 2.6 (SEA).

LMW 0.12 291 Pc 03 04.35 -0.2
KOSW 0.17 194 Pd 03 04.89 -0.3
LON 0.25 61 Pc 03 05.95 -0.6
S 03 09.95
REMR 0.28 46 Pc 03 06.44 -0.6
S 03 10.83
TDL 0.28 192 Pd 03 06.37 -0.7
S 03 10.89
CZM 0.32 234 Pd 03 07.14 -0.5
S 03 12.28
RVC 0.33 19 Pd 03 07.36 -0.6
S 03 12.43
ERK 0.35 204 Pd 03 07.43 -0.8
APW 0.36 274 Pc 03 07.78 -0.5
S 03 13.36
GLK 0.37 100 Pc 03 07.81 -0.7
SOSW 0.39 180 Pc 03 07.95 -1.0
S 03 14.39
STD 0.39 189 Pd 03 08.20 -0.8
WPW 0.41 80 Pc 03 08.52 -0.7
GHW 0.43 347 Pd 03 08.58 -0.8
ESD 0.43 182 P 03 09.11 -0.5
FMW 0.44 46 Pc 03 09.10 -0.7
S 03 15.39
SHW 0.44 189 Pd 03 09.11 -0.7
FL2 0.46 199 Pd 03 09.14 -0.9
HSR 0.46 184 P 03 09.47 -0.6
JLK 0.48 182 Pd 03 09.63 -0.8
CDFW 0.51 173 Pd 03 10.32 -0.7
LVP 0.59 199 Pd 03 11.48 -0.8
MTMW 0.60 185 Pd 03 11.80 -0.7
ASR 0.61 142 Pd 03 11.67 -0.9
GSM 0.62 22 Pd 03 11.99 -0.9
RVW 0.64 222 Pd 03 12.09 -1.0
MEW 0.67 329 P 03 13.52 -0.1
BMW 0.77 259 Pc 03 14.50 -0.9
CPW 0.77 297 Pd 03 14.56 -0.8
S 03 25.41
RMW 0.86 15 P 03 15.76 -1.2
NAC 0.91 83 P 03 17.58 -0.1
SPW 0.93 355 ePd 03 17.60 -0.4
APM 0.94 160 Pd 03 17.47 -0.9
GMW 1.02 334 Pd 03 18.30 -1.3
NLO 1.06 240 P 03 19.50 -0.8
VLMM 1.09 177 P 03 20.19 -0.7
EBG 1.11 75 P 03 21.13 0.0
YAKW 1.11 95 P 03 21.47 0.3
GL2 1.13 126 P 03 21.26 -0.2
TBM 1.18 62 P 03 22.34 -0.1
HDW 1.20 329 Pd 03 21.02 -1.7
HTW 1.20 12 P 03 21.47 -1.3
VLL 1.21 165 P 03 22.23 -0.6
PGW 1.24 345 P 03 22.59 -0.6
MXC 1.27 92 P 03 23.58 -0.2
KMOR 1.37 224 P 03 24.11 -1.1
GT2 1.47 184 P 03 26.46 -0.3
BRVW 1.48 95 P 03 27.21 0.4
BLN 1.49 338 P 03 25.75 -1.2
VTG 1.51 77 P 03 28.28 1.1
ETW 1.57 51 P 03 28.76 0.6
JCW 1.57 5 ePd 03 27.77 -0.3
OSD 1.60 319 P 03 29.81 1.1
VBEM 1.61 166 P 03 29.49 0.7
MDW 1.63 90 P 03 29.44 0.5
RSW 1.77 97 P 03 30.91 -0.1
WAH2 1.77 85 P 03 32.61 1.6
CROR 1.83 154 P 03 32.55 0.7
WTV 1.83 53 P 03 33.50 1.6
RPW 1.87 13 P 03 32.88 0.4
S 03 57.77
EPH 1.88 66 P 03 33.91 1.3
NLW 1.90 39 P 03 33.93 1.0
DHW2 2.10 49 P 03 38.87 3.0
MCW 2.11 347 P 03 36.29 0.4
SAW 2.15 59 P 03 39.29 2.8
MBW 2.16 4 P 03 37.28 0.5
GMO 2.34 159 P 03 41.38 2.1
VIPM 2.37 153 P 03 41.72 2.0
68 obs. associated

? FEB 24, 1991 02h 34m 06.39± 2.29s
17.803 S ±20.2km 178.963 W ±19.2km
DEPTH = 644.1 ± 26.4 km
5.2mb (11 abs.)
FIJI ISLANDS REGION (181)

DZM 14.36 250 iPc 37 08.00 0.1
COO 29.37 239 iPd 39 23.60 1.2
0.6s 44.00nm 5.3mb
RMQ 31.06 248 iPd 39 36.50 0.0
0.4s 24.00nm 5.2mb
CNB 33.07 232 iPc 39 54.00 0.5
CMS 34.62 240 iPd 40 06.70 0.6
0.7s 52.00nm 5.2mb
QLP 35.08 249 iPd 40 10.10 0.1
TOO 36.83 230 eP 40 24.00 -0.3
0.8s 50.00nm 5.1mb
TAU 37.97 222 eP 40 33.00 -0.3
QIS 39.16 259 iPd 40 43.20 -0.1
ADE 41.25 237 e(P) 41 00.00 0.3
WB2 44.12 259 iPd 41 22.10 -0.1
ASPA 44.31 254 iPd 41 24.10 0.4
0.4s 186.10nm 5.9mb
eS 47 16.80
MTN 48.28 268 eP 41 53.90 0.2
0.3s 90.00nm 5.8mb

24d 02h

```
FORR    49.54 244 iPd    42 02.50   -0.3
        0.3s     58.00nm          5.5mb
KNA     49.96 264 iPd    42 06.20    0.1
COOL    55.52 244 eP     42 44.10   -1.3
        0.2s      6.00nm          4.5mb
MBL     57.49 256 eP     42 58.50   -0.4
MEKA    58.05 249 eP     43 02.00   -0.6
KLB     58.40 243 iPd    43 04.00   -0.8
        0.4s     23.00nm          4.8mb
BAL     59.35 245 eP     43 10.50   -0.6
MRWA    60.07 246 eP     43 15.20   -0.6
NANU    61.25 254 iPd    43 24.10    0.6
        0.4s     38.00nm          5.0mb
PNT     84.95  34 eP     45 36.00   -0.4
        0.6s      4.00nm          4.2mb
INK     91.92  15 eP     45 44.00  -24.4X
                  pP     46 07.00   84kmX
YKA     94.46  25 eP     46 18.70   -1.4
        0.6s      0.20nm          3.5mb X
HFS    136.75 351 ePKP   52 10.60   -7.8X
        1.4s     34.90nm
KSP    144.86 343 iPKP   52 34.40    1.4
CLL    145.24 347 iPKPc  52 35.30    1.7
        0.8s     11.00nm
CDF    149.05 352 ePKP   52 45.00    5.2X
FLN    149.10   2 ePKP   52 44.50    4.7X
LDF    149.27   2 ePKP   52 44.30    4.3X
GRR    149.46   2 ePKP   52 45.50    5.2X
        0.4s      4.60nm
HAU    149.57 353 ePKP   52 46.10    5.6X
BSF    149.68 352 ePKP   52 46.40    5.6X
LPF    149.80   3 ePKP   52 48.50    7.7X
        0.3s      3.00nm
LOR    150.52 356 ePKP   52 48.30    6.3X
        0.4s      3.70nm
SSF    150.75 357 ePKP   52 49.00    6.7X
        0.5s      2.90nm
LBF    150.80 356 ePKP   52 49.00    6.5X
AVF    151.03 357 ePKP   52 49.20    6.5X
MFF    151.26   2 ePKP   52 49.80    6.7X
     S.D. = 0.8  on  26 of  40 obs.
-------------------------------------------
&  FEB  24, 1991  02h 39m 37.80s
   36.208 N          120.318 W
   DEPTH =   9.0km
 CENTRAL CALIFORNIA                ( 39)
     <BRK>. ML 3.0 (BRK), 3.1 (PAS).

PKEM    0.22 131 eP     39 42.20   -0.4
PRI     0.29 257 iP     39 43.40   -0.4
LLA     0.65 309 iPc    39 49.40   -1.4
PRS     0.86 279 iPd    39 53.10   -1.3
FRI     0.92  32 iPd    39 53.10   -2.4
                 iS     40 04.90
BCH     1.04 169 eP     39 55.50   -2.1
SAO     1.06 302 iP     39 56.30   -1.7
ARN     1.50 320 eP     40 02.30   -2.6
MHC     1.55 317 eP     40 02.80   -2.9
GCC     1.58 302 eP     40 03.80   -2.2
ISA     1.59 109 eP     40 04.00   -2.3
ABL     1.62 146 eP     40 02.50   -4.4
BLP     1.65 182 eP     40 04.20   -2.8
CMB     1.82 358 iPd    40 07.50   -2.1
                 iS     40 32.50
BKS     2.26 318 eP     40 13.00   -3.0
BRK     2.28 318 eP     40 13.30   -2.8
BONR    2.38  42 eP     40 16.40   -1.4
TNP     3.10  52 eP     40 26.00   -2.0
KVN     3.34  31 eP     40 30.00   -1.4
PEC     3.47 131 eP     40 29.50   -3.6
       20 obs. associated
-------------------------------------------
   FEB  24, 1991  03h 18m 21.10± 0.64s
   67.595 N ± 4.2km  159.028 W ± 6.1km
   DEPTH =  10.0km  (geophysicist)
   3.4mb (  1 obs.)
 ALASKA                            (676)
     ML 3.9 (PMR).

IMA     2.61 123 ePc    19 05.40    1.2
BRW     3.81  11 ePc    19 22.40    1.4
ANM     3.99 223 eP     19 22.43   -1.1
TTA     4.85 163 ePc    19 36.90    1.0
NEA     5.05 122 eP     19 38.63    0.0
MDM     5.10 116 eP     19 39.10   -0.2
RDS     5.21 117 eP     19 40.39   -0.5
BWN     5.21 127 eP     19 41.17    0.3
FBA     5.28 116 ePc    19 42.30    0.4
GLM     5.37 114 eP     19 43.69    0.4
CCB     5.43 118 eP     19 43.42   -0.6
WRH     5.45 120 eP     19 43.79   -0.5
MCK     5.69 128 eP     19 47.52   -0.2
HDA     5.87 117 eP     19 50.02   -0.2
RND     5.96 130 eP     19 51.75    0.2
CUT     6.39 140 eP     19 58.25    0.7
SKT     6.48 147 eP     19 58.81    0.0
NCG     6.88 151 eP     20 04.38   -0.2
BGL     6.97 153 eP     20 06.30    0.5
CKL     7.04 153 eP     20 07.01    0.2
SPU     7.11 152 eP     20 07.99    0.4
SUA     7.11 146 eP     20 08.14    0.4
PWA     7.14 142 eP     20 08.12    0.1
GHO     7.27 139 eP     20 10.57    0.7
PLRM    7.37 140 eP     20 10.28   -0.9
PMR     7.37 140 eP     20 13.60    2.4X
NCT     7.55 156 eP     20 12.93   -0.9
PMS     7.57 143 eP     20 14.84    0.8
RDN     7.62 156 eP     20 14.00   -0.8
RDT     7.62 155 eP     20 15.16    0.4
PDB     8.12 162 eP     20 21.50   -0.3
INK     9.59  74 P      20 41.00   -1.0
        0.3s      1.60nm          4.9mb X
MBC    14.67  37 eP     21 50.50    0.4
YKA    19.07  84 eP     22 43.50   -2.1
        0.6s      1.50nm          3.4mb
     S.D. = 0.8  on  33 of  34 obs.
-------------------------------------------
%  FEB  24, 1991  03h 47m 14.98± 0.78s
   44.325 N ± 8.1km    7.361 E ± 6.7km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                    (545)
     ML 2.0 (GEN).

STV     0.09 198 P      47 17.78    0.2
                 S      47 19.42
ENR     0.11 157 P      47 18.19    0.3
                 S      47 20.24
PZZ     0.26 314 P      47 20.44   -0.1
                 S      47 23.73
ROB     0.37  95 P      47 23.11    0.6
                 S      47 28.54
IMI     0.56 137 P      47 25.88   -0.6
                 S      47 33.77
FIN     0.62 100 P      47 27.11   -0.4
     S.D. = 0.6  on   6 of   6 obs.
-------------------------------------------
•  FEB  24, 1991  03h 59m 58.01± 0.96s
   67.610 N ± 8.9km  158.810 W ±10.2km
   DEPTH =  10.0km  (geophysicist)
   2.6mb (  1 obs.)
 ALASKA                            (676)
     ML 3.0 (PMR).

IMA     2.55 125 eP     00 41.00    0.8
BRW     3.78  10 eP     00 58.10    0.6
ANM     4.06 224 eP     01 01.10   -0.3
TTA     4.84 165 eP     01 12.90    0.2
FBA     5.22 116 eP     01 18.00    0.1
YKA    18.98  84 eP     04 20.10   -1.3
        0.7s      0.30nm          2.6mb
     S.D. = 1.0  on   6 of   6 obs.
-------------------------------------------
%  FEB  24, 1991  04h 40m 07.55± 0.84s
   41.880 N ± 7.4km  13.265 E ± 5.7km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN ITALY                    (390)

AZI     0.17  49 Pd     40 11.30    0.0
                 eSg    40 14.10
RMP     0.43 261 P      40 15.80   -0.5
                 eSg    40 24.00
RDP     0.43 254 P      40 16.50    0.2
                 eSg    40 24.40
SDI     0.45 113 Pd     40 16.60   -0.1
                 eSg    40 25.00
AQU     0.48  12 P      40 16.60   -0.8
                 eSg    40 23.30
MNS     0.67 319 Pd     40 19.10   -1.7
                 eSg    40 29.00
ASS     1.27 340 P      40 31.40    0.2
                 eSn    40 51.30
ARV     1.64 352 P      40 39.00    2.5X
                 eSn    40 59.00
CRE     2.00 331 P      40 42.70    0.9
                 eSn    41 06.00
SFI     2.29 333 P      40 47.70    1.8
     S.D. = 1.2  on   9 of  10 obs.
-------------------------------------------
%  FEB  24, 1991  05h 04m 10.60± 0.68s
   41.893 N ± 6.5km   13.244 E ± 4.8km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN ITALY                    (390)

AZI     0.17  56 Pd     04 14.30   -0.2
                 eSg    04 17.30
RMP     0.41 259 P      04 19.00    0.0
                 eSg    04 25.60
RDP     0.42 251 P      04 19.30    0.2
                 eSg    04 25.20
SDI     0.47 114 Pd     04 19.50   -0.6
                 eSg    04 28.10
AQU     0.48  14 P      04 19.70   -0.6
                 eSg    04 26.10
MNS     0.65 320 Pd     04 22.20   -1.4
                 eSg    04 32.60
DUI     0.94 104 P      04 29.00    0.5
ASS     1.25 340 P      04 33.40   -0.5
                 eSn    04 50.00
ARV     1.62 352 P      04 41.50    2.2
CRE     1.98 332 P      04 45.00    0.4
                 eSn    05 09.00
     S.D. = 1.1  on  10 of  10 obs.
-------------------------------------------
?  FEB  24, 1991  05h 57m 56.53± 1.00s
   14.710 N ± 9.5km   61.026 W ± 8.3km
   DEPTH =  10.0km  (geophysicist)
 WINDWARD ISLANDS                  ( 95)

CRM     0.12  68 iPc    57 59.49    0.0
                 S      58 15.20
FDF     0.12 281 iPc    57 59.54    0.0
        0.1s      0.55nm
                 S      58 15.50
BIM     0.20 193 iPc    58 00.95    0.1
                 S      58 19.10
MVM     0.20 141 iPc    58 00.85   -0.1
     S.D. = 0.1  on   4 of   4 obs.
-------------------------------------------
•  FEB  24, 1991  06h 08m 09.19± 1.02s
   13.002 N ±10.5km   88.081 W ± 9.8km
   DEPTH =  39.5 ± 12.0 km
   4.5mb ( 11 obs.)  4.4Msz (  2 obs.)
 EL SALVADOR                       ( 73)
     Felt (VI) at La Union.

SJAS    1.25 302 iPd    08 29.50   -1.0
LFU     1.25 307 eP     08 30.20   -0.3
VSS     1.35 303 iPd    08 32.00    0.0
TME     1.60 309 iPc    08 34.50   -1.0
TPX     4.48 295 iP     09 19.00    2.6
                 iS     10 12.50
SCX     5.76 311 (P)    09 54.00   19.5X
OXX     9.28 297 (P)    10 27.50    3.7X
UPA     9.29 115 ePc    10 24.50    0.8
     Z  19s      3.82um
PPM    11.79 302 (P)    10 59.50    1.1
III    12.20 297 (P)    11 02.00   -1.5
MRX    14.23 300 (P)    11 35.00    4.8X
SDV    17.61 102 eP     12 11.00   -2.6
TOV    18.21  98 eP     12 21.30    0.4
UYO    21.85 346 iPd    13 01.00    0.8
RSCP   22.61   5 iP     13 10.00    2.2
        1.0s     55.31nm          5.0mb
MEO    23.68 338 eP     13 17.50   -0.7
BLA    25.06  15 eP     13 33.80    2.3
        0.8s      7.46nm          4.3mb
ALQ    27.46 326 eP     13 53.00   -0.8
        1.3s     10.58nm          4.3mb
GOL    30.66 333 eP     14 22.00   -0.5
        1.0s      5.50nm          4.3mb
RSNY   33.51  18 eP     14 46.50   -0.6
        1.1s     22.36nm          5.0mb
RSSD   33.90 339 iP     14 52.00    1.3
        1.0s     11.93nm          4.8mb
BW06   35.01 332 iP     15 01.00    0.7
        1.0s      3.00nm          4.2mb
ZOBO   35.15 145 P      15 02.50    0.4
     Z  21s      0.72um          4.4Msz
                 LR     26 00.00
LPB    35.37 146 eP     15 04.00    0.2
     Z  20s      0.71um          4.4Msz
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                LR    25 30.00
CNCB   35.66 146 eP    15 06.00   -0.5
TNP    35.99 319 eP    15 10.00    1.4
       1.0s     1.75nm          3.9mb
CCH    37.16 144 P     15 18.00   -0.7
LRM    38.68 333 eP    15 30.50   -0.7
SIV    39.28 136 P     15 38.40    2.1
FFC    43.03 348 eP    16 05.00   -1.6
       0.7s    10.00nm          4.7mb
SCH    44.93  17 eP    16 22.00    0.0
FRB    52.50  11 eP    17 20.00   -0.3
YKA    52.92 345 eP    17 19.70   -3.8X
       0.9s     5.90nm          4.6mb
INK    62.50 343 eP    18 28.00   -2.7
DAG    72.73  13 iPd   19 34.10   -0.6
       1.3s    19.23nm          4.9mb
WB2   138.81 255 ePKP  27 35.00    1.1X
GBA   149.92  29 PKP   28 03.00   10.3X
       0.6s     1.60nm
     S.D. = 1.4  on  31 of  37 obs.
-------------------------------------
   FEB  24, 1991  09h 36m 51.20± 0.31s
   22.689 S ± 7.0km  166.638 E ± 6.7km
   DEPTH =  33.0km  (normal)
   4.9mb (  8 obs.)  5.0Msz (  6 obs.)
 NEW CALEDONIA                    (187)
     CENTROID, MOMENT TENSOR      (HRV)
     Data Used: GDSN
     L.P.B.: 16S, 28C
     Centroid Location:
     Origin Time        09:36:46.7 0.7
     Lat 22.71S  FIX;Lon 166.78E  FIX
     Dep  15.0 FIX Half-duration  1.5
     Moment Tensor;   Scale 10**16 Nm
       Mrr=-1.44 0.33  Mtt=-5.15 0.48
       Mff= 6.59 0.47  Mrt= 1.57 0.93
       Mrf= 4.59 0.81  Mtf=-0.04 0.33
      Principal Axes:
       T  Val=  8.70  Plg=25  Azm=273
       N       -2.69      51       37
       P       -6.01      28      169
     Best Double Couple:Mo=7.3*10**16
      NP1:Strike=312 Dip=51 Slip=-177
      NP2:       220     88      -39

PVC     5.17  18 iPc   38 02.50   -5.8X
                iS    39 03.00
BKM     5.22  17 iP    38 06.70   -2.3
SVA    11.98  70 eP    39 44.00    1.4
BRS    13.41 247 iPd   40 04.00    2.3
                eS    43 18.00
HNR    14.66 333 eP    40 16.00   -2.1
                eS    43 06.00
SVO    14.97 333 eP    40 20.00   -2.2
COO    15.34 236 e(P)  40 30.00    3.0X
              e(TT)  54 39.00
RMO    16.70 253 iPd   40 44.80    0.5
       0.9s    24.00nm          4.3mb
WLZ    16.95 155 eP    40 49.90    2.5
CTA    19.16 274 iPd+  41 15.10    0.4
       1.6s   350.00nm          5.4mb
                iS    44 56.00
CNB    19.62 226 eP    41 21.00    1.0
CAW    19.69 161 eP    41 19.10   -1.5
MRW    19.70 162 eP    41 19.20   -1.4
WEL    19.76 162 eP    41 19.00   -2.3
WDW    19.82 161 eP    41 19.60   -2.3
CMS    20.47 240 eP    41 27.00   -1.8
OLP    20.73 255 eP    41 30.00   -1.5
PMG    22.87 302 eP    41 53.00    0.0
RAB    23.11 321 e(P)  42 00.00    4.6X
TOO    23.47 226 eP    41 59.00    0.2
OIS    25.21 270 iPc   42 16.30    0.7
ASPA   30.08 262 iPc   42 57.50   -2.4X
       1.2s    48.70nm          5.2mb
WRA    30.18 269 P     43 12.00   11.1X
       1.2s     9.10nm
FORR   35.22 248 eP    43 43.50   -1.0
WARB   36.48 256 eP    43 54.00   -1.3
NJ2    71.07 318 Pc    48 10.00    1.8
     Z 17s      0.40um          4.7MszX
                S     57 26.00
WHN    72.94 314 eP    48 20.50    1.2
GYA    75.86 307 P     48 41.00    4.5X
                pP    48 50.00   29kmX
CN2    76.19 331 eP    48 39.00    1.2
       1.0s    10.00nm          4.8mb

     Z 20s      1.40um          5.3Msz
                ePP   48 47.00   26kmX
CHG    77.93 296 eP    48 50.90    2.9X
KMI    78.09 304 Pd    48 51.50    2.5X
BJI    78.14 323 eP    48 49.50    0.9
     Z 23s      0.75um          5.0MszX
                eS    58 44.00
XAN    78.70 314 eP    48 49.40   -2.6
TIY    78.77 319 eP    48 53.00    0.7
     Z 20s      0.60um          4.9Msz
     N 17s      0.80um
                S     58 55.00
CD2    80.46 309 P     49 04.30    2.8X
HHC    81.30 321 eP    49 06.80    1.0
LZH    83.27 313 Pd    49 17.00    0.8
       2.0s    64.00nm          5.4mb
     Z 25s      0.52um          4.8MszX
                sP    49 30.00
GTA    87.76 315 eP    49 41.20    2.9X
       1.6s    10.00nm          4.8mb
     Z 22s      0.40um          4.8Msz
PRS    89.75  50 eP    49 49.30    1.6
SYP    89.90  52 eP    49 50.00    1.4
PRI    90.16  51 eP    49 51.80    2.1X
WDC    91.00  46 eP    49 54.80    1.5
MWC    91.18  53 eP    49 53.00   -1.5
FRI    91.24  50 eP    49 55.30    0.8
CMB    91.25  49 eP    49 54.30   -0.3
ISA    91.52  52 eP    49 54.00   -1.9
PLM    91.69  55 eP    49 58.00    1.1
PEC    91.70  54 P     49 54.70   -2.0
CLC    92.23  52 eP    50 00.00    0.9
GSC    92.58  53 eP    50 02.00    1.2
TPC    92.62  54 eP    50 02.00    1.0
GUN    92.71 299 P     50 03.20    1.3
PKI    92.96 299 P     50 02.60   -0.4
GLA    93.10  56 eP    50 01.00   -2.2
KKN    93.15 299 P     50 02.80   -1.0
DMN    93.22 298 P     50 03.20   -0.9
IMA    93.45  15 eP    50 12.60    8.4X
TNP    93.50  50 P     50 01.00   -4.1X
       0.9s     4.49nm          4.9mb
GKN    93.75 299 P     50 07.00    0.5
FBA    94.08  18 eP    50 05.50   -1.4
INK   100.57  19 ePdiff50 37.00    0.6
BW06  100.73  48 Pdiff 50 41.30    3.3X
YKA   104.84  28 ePdiff50 52.50   -3.0X
       0.4s     0.10nm          4.1mb
FRB   125.31  27 ePKP  55 48.00   -1.5
KRA   142.26 325 ePKP  56 22.70    0.9
KSP   143.65 328 ePKP  56 21.70   -2.5
BUD   144.17 322 e(PKP)56 24.00   -1.2
SRO   144.40 323 ePKP  56 24.50   -1.0
VAY   144.64 310 ePKP  56 24.40   -1.8
BRG   144.75 330 iPKP  56 25.00   -1.0
       1.0s    28.00nm
                i     56 28.30
ZST   144.85 324 ePKP  56 25.60   -0.7
CLL   144.88 331 ePKP  56 26.00   -0.2
       1.8s    42.00nm
PRU   145.06 328 ePKP  56 26.50   -0.1
       1.2s     8.30nm
                e     56 41.50
SKO   145.19 312 ePKP  56 26.80   -0.3
       1.8s   140.00nm
VKA   145.23 325 ePKP  56 27.00    0.0
       2.0s   164.00nm
                i     56 40.60
                e     56 49.00
OHR   145.96 311 ePKP  56 09.80  -18.7X
MOX   145.97 331 iPKP  56 30.00    1.8
       1.9s    52.00nm
KHC   146.10 328 iPKPd 56 30.30    1.8
       1.2s    20.00nm
WET   146.43 328 iPKPc 56 31.70    2.7X
EKA   146.52 349 PKP   56 29.00    0.1
       1.4s    43.50nm
PTJ   146.81 321 ePKP  56 32.00    2.3
GRF   146.83 330 ePKP  56 31.50    1.9
     Z 25s      0.20um          4.8MszX
ZAG   146.84 321 ePKP  56 31.00    1.3
BHG   147.37 326 ePKP  56 33.40    2.9X
KBA   147.55 325 ePKP  56 33.00    2.0
       1.2s    14.30nm
                i     57 51.00
TRI   148.16 323 ePKPc 56 34.60    2.8X
CTI   149.10 325 PKP   56 38.40    5.0X

DOU   149.23 337 PKP   56 37.60    4.3X
CDF   149.52 332 ePKP  56 36.10    2.1
       1.0s    20.00nm
FEL   149.61 331 ePKP  56 37.05    2.9X
ARV   149.94 320 PKP   56 40.70    6.0X
BSF   150.18 332 ePKP  56 37.60    2.6X
       1.3s    32.50nm
HAU   150.23 333 ePKP  56 37.70    2.7X
       0.9s    11.45nm
     Z 20s      0.22um          5.0Msz
SFI   150.33 322 PKP   56 41.10    6.0X
PGD   150.43 322 PKP   56 42.30    6.7X
AZI   150.48 317 PKP   56 44.50    9.1X
VAI   150.71 327 PKP   56 41.60    6.0X
FIR   150.76 322 ePKP  56 28.00   -7.8X
BDI   150.95 323 PKP   56 42.10    5.9X
BOB   151.11 325 PKP   56 42.30    5.8X
LOR   151.83 335 ePKP  56 42.50    5.1X
       1.2s    25.25nm
     Z 21s      0.30um          5.1Msz
LPL   151.95 329 ePKP  56 43.30    5.4X
       0.9s     8.20nm
FLN   152.04 342 ePKP  56 42.70    5.1X
       1.2s    38.70nm
     Z 19s      0.35um          5.2Msz
SSF   152.14 335 ePKP  56 43.30    5.5X
       1.0s    10.00nm
PGF   152.81 322 ePKP  56 42.70    3.7X
       1.0s    13.00nm
LPO   155.02 335 ePKP  56 43.20    1.4
     S.D. = 1.5  on  69 of 106 obs.
-------------------------------------
% FEB  24, 1991  09h 57m 39.40± 0.93s
   41.155 N ±10.7km   16.341 E ± 6.1km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN ITALY                   (390)

BAI     0.40  95 P     57 48.00    0.5
                eSg   57 54.00
BRT     0.71 113 P     57 51.40   -2.0
                iSg   57 59.70
SGO     0.98 233 P     57 58.00   -0.1
                eSg   58 11.00
ORI     1.09 176 P     58 01.00    1.1
                eSg   58 15.00
MGR     1.18 211 P     58 00.50   -0.9
                eSg   58 16.50
LCI     1.47 123 P     58 07.20    1.2
                eSn   58 28.00
DUI     1.50 290 P     58 07.50    1.0
SDI     1.98 287 P     58 12.50   -0.8
     S.D. = 1.4  on   8 of   8 obs.
-------------------------------------
% FEB  24, 1991  10h 12m 51.82± 0.81s
   39.155 N ± 6.7km   27.557 E ± 8.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
     MD 2.7 (ISK).

IZM     0.79 197 ePg   13 07.00   -0.2
                eSg   13 19.00
DST     0.94  61 ePg   13 10.40    0.6
EZN     1.17 305 ePn   13 14.00    0.4
EDC     1.21  11 ePn   13 14.00   -0.4
BNT     1.23  13 ePn   13 14.50   -0.2
KCT     1.25  29 ePn   13 15.00   -0.1
     S.D. = 0.5  on   6 of   6 obs.
-------------------------------------
   FEB  24, 1991  11h 04m 15.87± 0.21s
   15.125 S ± 7.1km  173.384 W ± 5.4km
   DEPTH =  33.0km  (normal)
   5.2mb ( 25 obs.)  5.4Msz ( 18 obs.)
 TONGA ISLANDS                    (173)
     CENTRDID, MOMENT TENSOR      (HRV)
     Data Used: GDSN
     L.P.B.: 15S, 32C
     Centroid Location:
     Origin Time        11:04:20.3 0.5
     Lat 15.12S 0.06 Lon 173.25W 0.04
     Dep  15.0 FIX Half-duration  2.1
     Moment Tensor;   Scale 10**17 Nm
       Mrr= 2.82 0.09  Mtt=-1.37 0.12
       Mff=-1.45 0.13  Mrt=-3.57 0.31
       Mrf= 1.15 0.32  Mtf= 1.31 0.08
      Principal Axes:
       T  Val=  4.88  Plg=61  Azm=187
       N       -0.48      12      298
```

24d 11h

P -4.41 27 34
Best Double Couple:Mo=4.7*10**17
NP1:Strike=150 Dip=21 Slip= 124
NP2: 294 73 78

AFI 1.97 52 iP 04 39.00 -8.6X
SVA 8.37 248 eP 06 25.60 7.7X
DZM 20.32 247 iPc 08 53.10 1.0
AFR 22.78 99 eP 09 18.00 1.2
1.0s 30.00nm 4.7mb
PPN 23.11 99 eP 09 21.00 1.0
1.0s 35.00nm 4.8mb
TVO 23.29 100 eP 09 22.00 0.2
1.0s 70.00nm 5.1mb
NOZ 24.59 196 eP 09 35.10 0.9
PMO 24.61 93 eP 09 35.00 0.4
1.0s 60.00nm 5.1mb
WLZ 24.64 201 eP 09 35.90 1.2
VAH 24.85 94 eP 09 36.00 -0.9
1.0s 35.00nm 4.9mb
TPT 24.88 93 eP 09 36.00 -1.1
1.0s 70.00nm 5.2mb
RUV 25.09 94 eP 09 38.00 -1.2
1.0s 40.00nm 5.0mb
SNZO 28.06 199 P 10 12.00 5.7X
S 14 40.00
RMO 37.02 246 eP 11 22.00 -2.6
CMS 40.58 239 eP 11 52.00 -2.2
TOO 42.65 230 eP 12 10.00 -1.1
TAU 43.53 223 eP 12 20.00 1.9X
WB2 49.91 257 iPc 13 06.90 -1.8
i 13 12.30
ASPA 50.21 252 iPd 13 08.50 -2.5
0.7s 24.20nm 5.3mb
FORR 55.52 243 eP 13 47.00 -3.4X
MAT 68.74 320 eP 15 18.00 -0.7
1.9s 200.00nm 5.9mb
Z 20s 1.06um 5.1Msz
eS 24 21.00
SYP 70.79 45 eP 15 45.00 13.6X
PRI 71.26 43 eP 15 34.70 0.5
MHC 71.34 41 eP 15 35.70 1.0
PLM 72.30 47 eP 15 44.00 3.4X
FRI 72.38 43 eP 15 40.10 -0.6
ISA 72.45 44 eP 15 40.00 -1.2
CMB 72.55 41 eP 15 41.00 -0.8
WDC 72.75 38 eP 15 43.00 0.2
CLC 73.12 45 eP 15 45.00 -0.2
TPC 73.27 47 eP 15 46.00 -0.1
GSC 73.38 45 eP 15 46.00 -0.8
GLA 73.60 48 eP 15 46.00 -2.0
BONR 73.85 42 P 15 50.80 1.2
KVN 74.60 42 P 15 53.30 -0.6
TNP 74.63 43 P 15 53.50 -0.6
1.4s 35.42nm 5.2mb
SPA 74.97 180 iPd 15 55.90 0.3
1.0s 50.00nm 5.5mb
Z 20s 1.44um 5.3Msz
i 16 23.50
SPA 74.97 180 iPd 15 56.00 0.4
BMW 76.10 33 P 16 03.20 1.1
VGB 76.82 35 P 16 05.80 -0.3
GMW 77.02 32 P 16 07.40 0.2
LON 77.03 34 P 16 07.10 -0.2
RMW 77.48 33 P 16 09.30 -0.5
MSU 78.22 45 P 16 15.60 1.3
PMR 78.85 12 eP 16 16.90 0.0
1.6s 80.00nm 5.5mb
ANM 79.68 4 eP 16 22.20 0.9
PNT 79.78 32 eP 16 21.00 -1.2
TOA 79.91 13 eP 16 22.80 0.1
1.2s 147.73nm 5.9mb
NJ2 80.01 307 eP 16 20.00 -3.8X
Z 20s 0.80um 5.1Msz
S 26 28.00
ALO 80.61 50 eP 16 25.50 -1.7
1.2s 21.88nm 5.0mb
Z 18s 1.72um 5.4Msz
CN2 80.89 320 Pc 16 28.00 -0.2
Z 18s 1.70um 5.4Msz
epP 16 36.00 25kmX
eS 26 35.00
DL2 81.00 314 Pd 16 32.00 3.1X
6.0s 1100.00nm 6.0mb X
Z 20s 0.60um 4.9Msz
PP 19 40.00
SNY 81.08 318 Pc 16 30.00 0.8

1.6s 100.00nm 5.6mb
Z 20s 1.00um 5.2Msz
LRM 81.79 38 eP 16 32.50 -0.7
BW06 82.06 42 P 16 34.40 -0.2
FBA 82.12 11 iPc 16 33.90 -0.3
0.8s 53.10nm 5.6mb
IMA 82.29 8 eP 16 35.40 0.2
1.0s 5.00nm 4.5mb
TIA 83.04 310 eP 16 36.40 -3.2X
Z 22s 0.80um 5.0Msz
E 15s 0.60um
GOL 83.45 46 P 16 41.80 -0.2
1.4s 52.22nm 5.5mb
GLD 83.58 46 P 16 43.30 0.8
1.5s 46.88nm 5.4mb
SES 84.97 35 eP 16 43.00 -6.0X
1.6s 149.00nm 5.9mb
BJI 85.29 313 eP 16 52.00 1.2
2.0s 12.00nm 4.8mb
Z 14s 1.58um 5.6MszX
MEO 86.49 53 iPd 16 56.40 -0.5
TIY 87.09 310 Pd 17 01.60 1.8
Z 22s 1.60um 5.4Msz
N 14s 1.20um
INK 88.00 14 eP 17 02.00 -1.4
pP 17 18.00 56kmX
XAN 88.48 306 eP 17 07.80 1.2
HHC 88.85 313 Pd 17 10.00 1.7
Z 32s 1.80um 5.3MszX
sS 28 09.50
sS 28 10.00
YKA 89.84 23 eP 17 10.50 -1.8
1.4s 8.50nm 4.8mb
BTO 89.86 312 P 17 14.00 1.0
N 15s 0.80um
E 15s 0.60um
FFC 91.87 33 eP 17 21.00 -0.7
1.5s 44.00nm 5.7mb
LZH 93.07 306 eP 17 27.50 -0.5
2.0s 29.00nm 5.4mb
pP 17 36.50 28kmX
MBC 96.66 11 eP 17 43.00 -0.3
GTA 97.02 309 eP 17 48.80 2.9X
1.6s 10.00nm 5.1mb
sP 18 04.20
ZOBO 99.90 110 (P) 18 18.00 18.0X
Z 19s 0.51um 5.0Msz
SK$ 29 45.00
LR 54 45.00
KRA 143.52 346 ePKP 23 45.20 -3.6X
KSP 143.53 350 ePKP 23 43.00 -5.8X
e 24 09.50
CLL 143.54 353 ePKP 23 49.00 0.2
BRG 143.85 352 ePKP 23 54.80 5.5X
MOX 144.34 355 ePKP 23 49.00 -1.2
1.6s 28.00nm
ENN 144.45 1 ePKP 23 49.00 -1.3
1.0s 16.00nm
PRU 144.64 351 ePKP 23 49.50 -1.2
1.4s 20.00nm
Z 18s 1.10um 5.7Msz
e 23 53.50
e 24 07.50
SNF 144.66 3 PKP 23 49.50 -1.2
BMR 144.66 340 ePKPd 23 51.00 0.2
KAS 144.84 323 iPKPd 23 51.60 0.2
CFR 144.95 333 ePKP 23 50.00 -1.3
VRI 145.00 335 ePKP 23 51.00 -0.5
DOU 145.08 2 PKP 23 51.00 -0.4
CVO 145.26 336 ePKP 23 52.50 0.5
GRF 145.32 355 ePKP 23 51.70 -0.2
Z 22s 0.60um 5.3Msz
e 23 55.90
e 24 04.10
ABH 145.33 359 ePKP 23 50.90 -1.0
PSZ 145.50 344 e(PKP) 23 52.00 -0.4
KHC 145.61 352 iPKPd 23 53.50 1.0
1.4s 58.50nm
Z 18s 1.20um 5.7Msz
e 24 05.60
MLR 145.63 336 ePKP 23 53.00 0.3
WET 145.69 353 iPKPd 23 53.50 0.9
ZST 145.90 347 ePKP 23 53.90 1.0
i 24 08.30
FLN 145.95 8 ePKP 23 51.80 -1.2
1.4s 87.15nm
Z 21s 1.55um 5.8Msz

SRO 146.00 346 ePKP 23 53.60 0.5
VKA 146.00 348 iPKPc 23 54.00 0.9
4.0s 746.00nm
id 23 54.60
i 23 58.50
BUD 146.13 345 ePKP 23 54.20 0.9
TNR 146.13 338 ePKPd 23 55.00 1.6
LDF 146.17 8 ePKP 23 52.50 -0.8
1.5s 101.45nm
GRR 146.26 9 ePKP 23 53.00 -0.5
1.4s 74.05nm
KMR 146.58 351 iPKP+ 23 55.60 1.6
i 23 59.30
LPF 146.58 9 ePKP 23 53.80 -0.2
1.0s 36.00nm
CDF 146.80 359 ePKP 23 55.00 0.5
0.9s 29.50nm
BZS 147.08 340 ePKP 24 00.50 5.6X
BHG 147.09 352 iPKPd 23 57.40 2.5X
HAU 147.21 0 ePKP 23 56.00 0.9
1.0s 32.00nm
Z 21s 0.82um 5.5Msz
BSF 147.39 360 ePKP 23 56.40 0.9
1.1s 24.40nm
KBA 147.65 351 ePKP 24 00.00 4.0X
1.4s 50.00nm
i 24 04.30
i 24 15.60
PVL 147.74 334 ePKP 24 00.00 4.0X
BHL 147.81 311 PKP 24 00.00 3.4X
YLV 147.83 326 ePKP 23 56.00 -0.4
LOR 147.87 4 ePKP 23 57.80 1.7
0.9s 22.95nm
Z 21s 1.83um 5.8Msz
SSF 148.05 4 ePKP 23 58.60 2.2
1.0s 34.00nm
MFF 148.11 9 ePKP 23 58.20 1.7
OGA 148.14 354 iPKPd 24 00.50 3.7X
LBF 148.16 3 ePKP 23 58.80 2.1
1.0s 27.00nm
BEO 148.16 341 ePKP 23 59.00 2.4X
AVF 148.31 4 ePKP 23 58.30 1.5
1.0s 31.00nm
PTJ 148.33 348 ePKP 24 00.10 3.1X
ZAG 148.41 347 ePKP 24 01.00 4.0X
SMF 148.49 4 ePKP 23 59.40 2.3X
1.3s 54.15nm
BGF 148.50 5 ePKP 23 59.40 2.2X
1.4s 78.40nm
TCF 148.71 6 ePKP 24 00.00 2.4X
0.9s 13.10nm
MAF 148.81 5 ePKP 24 00.40 2.7X
0.8s 14.80nm
CTI 148.88 353 PKP 23 56.90 -1.0
DST 148.91 326 ePKP 24 02.40 4.3X
TRI 148.92 350 ePKPd 24 01.30 3.5X
KDZ 148.97 332 ePKP 24 02.00 3.9X
VTS 149.13 336 ePKP 24 03.00 4.5X
RZN 149.25 333 ePKP 24 01.00 2.3X
KHL 149.30 323 ePKP 24 02.00 3.2X
VAI 149.30 357 PKP 24 03.10 4.7X
RJF 149.61 7 ePKP 24 02.30 3.4X
Z 22s 1.45um 5.7Msz
LPL 149.70 360 ePKP 24 03.70 4.4X
1.0s 21.00nm
LPG 149.72 360 ePKP 24 03.90 4.4X
LFF 149.87 8 ePKP 23 59.70 0.4
0.8s 17.45nm
CAF 150.05 6 ePKP 24 03.80 4.2X
BNI 150.17 360 PKP 24 06.60 6.7X
LPO 150.18 8 ePKP 24 03.80 4.0X
SKO 150.34 337 iPKP 24 05.00 4.9X
i 24 29.00
BOB 150.36 356 PKP 24 08.00 7.9X
VAY 150.46 335 ePKP 24 05.40 5.1X
CKI 150.76 358 PKP 24 06.20 5.5X
MME 150.82 354 PKP 24 08.30 7.2X
SFI 150.95 352 PKP 24 07.00 6.1X
PGD 151.02 352 PKP 24 08.00 6.7X
FIR 151.17 353 ePKP 24 08.00 6.8X
ARV 151.21 350 PKP 23 56.50 -4.9X
OHR 151.33 337 ePKP 24 07.90 6.2X
1.4s 118.00nm
SBF 151.35 359 ePKP 24 06.40 4.8X
0.9s 24.55nm
CDR 151.54 1 ePKPd 24 09.00 7.1X
FRF 151.66 360 ePKP 24 07.40 5.4X

```
LRG   151.77    0 ePKP  24 07.80   5.6X
      Z  21s     1.20um          5.7Msz
LMR   151.89    0 ePKP  24 08.00   5.6X
LWI   152.08  234 ePKPd 24 04.90   1.1
PGF   152.60  356 ePKP  24 09.40   5.9X
       0.9s    14.75nm
GUD   152.90   18 ePKP  24 12.00   7.9X
IFR   158.82   28 ePKP  24 18.00   6.0X
BCAO  164.17  229 iPKPd 24 17.90   0.1
       1.0s    20.00nm
     S.D. = 1.1  on 101 of 161 obs.
-----------------------------------------
?  FEB 24, 1991  11h 28m 00.12± 3.11s
    6.433 S ±30.9km  147.392 E ±24.0km
   DEPTH = 116.4 ± 24.2 km
   4.9mb (  2 obs.)
 EAST PAPUA NEW GUINEA REGION     (207)

MNDI    3.72 274 eP    28 57.00   0.0
OIS    15.94 208 iPc   31 39.00  -0.2
WB2    18.46 222 iPc   32 17.70   8.0X
RMQ    19.99 176 iPd   32 25.50  -0.2
OLP    20.26 188 iPd   32 29.10   0.6
BRS    21.46 167 iPd   32 40.50  -0.1
ASPA   21.49 216 iPd   32 41.00   0.1
       0.7s    29.30nm         4.Bmb
               eS      36 44.20
WARB   27.88 223 iPc   33 41.20   0.1
FORR   30.29 214 iPc   34 02.00  -0.4
       0.3s    10.00nm         5.0mb
     S.D. = 0.4  on   8 of   9 obs.
-----------------------------------------
   FEB 24, 1991  11h 34m 45.34± 0.29s
    9.263 N ± 4.7km  125.724 E ± 7.0km
   DEPTH =  33.0km  (normoi)
   5.0mb ( 22 obs.) 4.8Msz (  5 obs.)
 MINDANAO, PHILIPPINE ISLANDS     (259)

DAV     2.17 184 eP    35 21.80   2.0
OCP     7.01 320 eP    36 40.00  11.6X
BAG     8.70 325 eP    36 52.10   0.0
       1.0s   570.00nm         6.7mb X
MKS    15.68 204 iPc   38 29.00   3.5X
GZH    18.15 321 iPc   39 00.00   3.4X
       0.9s    90.00nm         4.9mb
     Z  19s     4.20um          4.5Msz
     N  18s     3.20um
     E  17s     2.50um
QIZ    18.19 304 eP    38 56.70  -0.4
     N  14s     1.70um
               eS      42 16.00
SSE    22.13 350 P     39 39.50  -0.3
       1.0s    25.00nm         4.6mb
     Z  20s     1.80um          4.5Msz
     N  12s     0.50um
     E  12s     0.60um
MTN    22.61 166 eP    39 46.00   1.4
       0.3s    75.00nm         5.6mb
NJ2    23.55 345 Pc    39 54.20   0.5
WHN    23.68 335 eP    39 55.50   0.5
     Z  24s     1.00um          4.2MszX
     N  16s     1.90um
LOE    24.69 292 eP    40 05.00   0.1
GYA    24.87 316 P     40 07.20   0.5
     Z  20s     0.70um          4.2Msz
     N  14s     1.00um
     E  14s     0.70um
IPM    24.95 261 ePd   40 08.90   1.5
KNA    25.03 173 eP    40 08.00  -0.1
NST    25.77 287 eP    40 17.00   1.9
KHT    27.08 284 eP    40 29.50   2.3
BDT    27.17 290 eP    40 20.30  -7.6X
CHG    27.62 293 eP    40 31.50  -0.6
CHTO   27.62 293 eP    40 31.50  -0.6
       1.6s    42.65nm         4.9mb
TIA    27.94 345 eP    40 34.10  -0.7
XAN    29.09 330 P     40 43.10  -2.1
MAT    29.43  21 eP    40 46.00  -2.2
               (S)     46 10.00
CD2    29.71 320 P     40 49.90  -0.9
     Z  20s     2.60um          4.9Msz
     N  18s     2.60um
WB2    30.24 164 iPd   40 54.40  -1.2
               eS      46 03.00
               ePcS    46 24.00
TIY    30.76 339 eP    41 02.80   2.8
MBL    30.78 191 eP    40 59.00  -1.3
       0.5s    16.00nm         5.1mb
BJI    31.81 346 P     41 07.00  -2.1
SNY    32.49 357 Pc    41 14.80  -0.2
       1.2s   100.00nm         5.6mb
OIS    32.63 155 iPd   41 15.30  -1.2
NANU   33.17 197 eP    41 20.00  -1.1
LZH    33.30 327 eP    41 25.50   3.1X
       2.0s    39.00nm         5.0mb
ASPA   33.69 166 iPd   41 25.00  -0.7
       1.2s    14.70nm         4.8mb
HHC    33.87 341 eP    41 31.00   3.8X
BTO    34.18 338 eP    41 29.50  -0.4
CN2    34.41 360 eP    41 32.00   0.4
WARB   35.24 179 iPd   41 39.10   0.1
       0.5s    24.00nm         5.4mb
MDJ    35.38   5 eP    41 44.50   4.5X
CTA    35.48 145 iPd   41 41.80   0.7
       1.0s    39.00nm         5.3mb
GTA    37.91 327 eP    42 01.80   0.3
       0.7s    10.00nm         4.8mb
     Z  20s     2.10um          4.9Msz
     E  20s     2.50um
LSA    38.19 307 eP    42 08.20   3.9X
MRWA   39.39 193 eP    42 12.00  -1.8
KLB    41.33 190 eP    42 29.00  -0.7
       0.4s    10.00nm         4.9mb
GUN    41.82 302 P     42 34.60   0.3
PKI    42.12 301 P     42 37.60   0.9
KKN    42.29 301 P     42 37.20  -0.8
DMN    42.38 301 P     42 39.80   1.0
GKN    42.90 301 P     42 43.20   0.3
RKG    43.88 190 eP    42 55.50   5.0X
CMS    44.86 155 eP    43 02.00   3.5X
BRS    44.89 145 iPc   42 58.10  -0.7
ADE    45.67 165 eP    43 05.50   0.6
       0.7s    30.14nm         5.3mb
HYB    46.51 285 eP    43 11.40  -0.4
GBA    47.47 280 P     43 19.60   0.3
KOD    47.54 275 eP    43 20.00  -0.3
WMO    47.69 323 Pc    43 20.80   0.0
     Z  20s     1.60um          5.0Msz
               PP      45 11.00
BFD    48.81 162 eP    43 30.00   0.5
NDI    49.38 300 eP    43 33.50  -0.6
DZM    50.64 128 iPc   43 44.40   0.6
POO    51.04 286 eP    43 53.50   6.6X
QUE    58.46 300 eP    44 35.00  -6.0X
ANM    72.68  25 eP    46 12.90   1.3
BRW    77.28  19 eP    46 39.80   2.1
IMA    77.77  24 eP    46 42.60   1.9
       0.6s     2.28nm         4.4mb
PMR    79.61  29 ePc   46 51.60   1.0
       1.1s    24.20nm         5.1mb
FBA    80.19  26 ePc   46 54.30   0.6
TOA    81.00  28 eP    47 00.40   2.3
SOD    85.00 337 eP    47 18.00  -0.4
INK    85.41  21 eP    47 21.00   0.5
KAF    86.26 332 iP    47 23.70  -1.1
       0.7s     5.10nm         4.9mb
MBC    86.81  13 eP    47 28.00   0.8
       1.0s    15.00nm         5.2mb
NUR    87.41 331 eP    47 29.00  -1.4
       1.0s    22.50nm         5.4mb
               e       47 38.00
DAG    91.69 352 eP    47 48.00  -2.2
       0.8s     5.97nm         5.1mb
HFS    92.69 332 ePKP  47 53.20  -1.9
       0.6s     1.10nm         4.5mb
NB2    93.42 334 P     47 56.40  -2.1
       0.7s     1.50nm         4.5mb
KSP    94.85 323 eP    48 05.50   0.3
               e       48 21.50
YKA    94.89  24 eP    48 04.80  -0.4
       1.1s     4.90nm         4.8mb
KHC    97.11 322 eP    48 25.00   9.4X
UPA   149.00  55 (PKP) 54 35.00   6.6X
     Z  17s     7.14um          6.5MszX
CNCB   164.69 121 ePKP  54 52.00   3.6X
LPB    164.72 120 ePKP  54 54.00   5.8X
ZOBO   164.81 119 ePKP  54 51.00   2.5X
       0.9s     4.33nm
     Z  22s     1.98um          5.7Msz
               LR      16 30.00
SIV   170.58 136 PKP   54 54.60   2.8X
     S.D. = 1.2  on  64 of  82 obs.
-----------------------------------------
   FEB 24, 1991  11h 58m 23.05± 1.06s
   13.098 N ± 8.8km   88.041 W ± 8.9km
   DEPTH =  44.7 ± 11.4 km
   4.7mb ( 10 obs.)
 EL SALVADOR                      ( 73)

LFU     1.23 302 eP    58 43.20  -0.9
SJAS    1.23 297 eP    58 43.00  -1.2
VSS     1.33 299 eP    58 45.40  -0.3
TME     1.57 306 eP    58 47.50  -1.5
TPX     4.47 294 eP    59 30.75   0.6
                iS     00 31.50
OXX     9.27 296 (P)   00 43.00   5.6X
IISM   10.71 304 (P)   01 02.00   5.1X
IIT    11.49 302 (P)   01 23.00  15.3X
PPM    11.77 302 (P)   01 13.50   1.7
III    12.19 297 (P)   01 19.50   2.5
MEX    12.36 302 (P)   01 13.00  -6.5X
MRX    14.22 299 (P)   01 47.00   3.4X
SDV    17.59 102 eP    02 25.30  -1.6
TOV    18.18  99 eP    02 35.50   1.4
PRM    21.52  13 P     03 13.00   2.7
UYO    21.77 346 iPd   03 13.80   1.0
JSC    21.97  15 P     03 15.50   0.7
RSCP   22.52   5 P     03 21.00   0.8
       0.8s    88.14nm         5.3mb
OLY    22.52 353 P     03 20.80   0.6
GBTN   22.73   8 P     03 24.20   1.9
TKL    22.79   9 P     03 20.90  -2.0
MEO    23.61 338 eP    03 29.50  -1.3
BLA    24.96  15 P     03 44.90   1.0
       1.0s    15.00nm         4.5mb
ALO    27.40 326 eP    04 06.00  -0.6
       1.0s    11.25nm         4.5mb
CLE    28.85  10 iP    04 20.70   1.3
GOL    30.59 333 P     04 34.70  -0.6
       0.9s     5.68nm         4.3mb
MSU    33.16 324 P     04 58.00   0.3
DAU    33.99 327 P     05 05.30   0.3
DUG    34.67 326 P     05 11.50   0.8
BW06   34.94 332 P     05 13.00   0.0
ZOBO   35.20 145 P     05 17.30   1.4
       1.0s     5.00nm         4.4mb
     Z  17s     0.47um          4.3MszX
               LR      13 57.00
LPB    35.43 146 P     05 18.20   0.6
     Z  24s     2.33um          4.9MszX
               LR      16 30.00
CNCB   35.72 146 eP    05 20.00  -0.3
TNP    35.94 319 P     05 21.70   0.1
BONR   36.57 318 P     05 29.80   2.9X
KVN    37.07 320 P     05 33.00   2.0
CCH    37.21 144 P     05 33.00   0.5
LRM    38.61 332 eP    05 44.10   0.2
SIV    39.33 137 P     05 48.50  -1.4
SES    41.67 338 eP    06 09.00   0.2
FFC    42.95 348 eP    06 18.00  -1.2
       1.0s    24.00nm         4.9mb
PNT    44.48 331 eP    06 32.00   0.3
SCH    44.83  17 eP    06 33.00  -1.5
FRB    52.40  11 eP    07 31.00  -1.8
YKA    52.84 345 eP    07 33.30  -2.8
       0.8s     7.60nm         4.8mb
INK    62.42 343 eP    08 42.00  -1.5
MBC    65.30 352 eP    09 00.50  -1.7
       1.2s    11.00nm         4.8mb
FBA    65.61 336 eP    09 03.20  -1.1
DAG    72.63  13 eP    09 48.00   0.6
       1.1s    12.66nm         4.8mb
MAL    77.24  55 eP    10 20.00   5.6X
NB2    83.08  29 P     10 44.40  -0.8
       1.1s     7.20nm         4.6mb
CLL    86.67  38 eP    11 04.00   0.7
KHC    87.66  40 P     11 11.00   2.8X
GBA   149.82  29 PKP   18 16.00  10.3X
     S.D. = 1.3  on  45 of  54 obs.
-----------------------------------------
%  FEB 24, 1991  12h 06m 16.02± 1.94s
   43.936 N ±18.0km   12.014 E ± 9.1km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                    (381)

SFI     0.12 263 P     06 19.50   0.6
               iSg     06 22.50
PGD     0.22 254 P     06 20.40  -0.5
               eSg     06 25.90
CRE     0.31 188 P     06 22.00  -0.5
               eSg     06 27.00
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24d 12h

```
ARV      0.80 123 P      06 30.80  -0.8
                  eSn    06 43.00
ASS      0.98 151 P      06 36.00   1.2
                  eSg    06 50.50
      S.D. = 1.2  on   5 of   5 obs.
-----------------------------------------
*  FEB 24, 1991  12h 16m 02.53± 0.63s
   58.385 N ±10.6km  175.517 W ±12.6km
   DEPTH =  20.0km  (geophysicist)
 BERING SEA                          (  3)

ADK      6.55 186 e(P)   17 40.00  -0.1
SDN      8.77 104 eP     18 07.50  -3.6X
FBA     14.60  52 ePc    19 36.40   6.8X
        0.7s    18.02nm          4.7mb
TOA     14.96  63 eP     19 40.30   5.9X
INK     20.83  44 ePc    20 43.80  -1.0
MBC     26.42  27 eP     21 39.50   0.5
YKA     29.34  56 eP     21 35.90 -29.7X
        1.1s     1.00nm
SES     37.02  74 eP     23 13.00   0.7
GUN     70.97 292 P      27 21.00   0.2
KKN     71.36 293 P      27 23.00   0.0
GKN     71.50 293 P      27 23.60  -0.1
SPA    148.21 180 iPKPd  35 47.10   3.5X
        1.0s    10.00nm
      S.D. = 0.7  on   7 of  12 obs.
-----------------------------------------
   FEB 24, 1991  12h 32m 12.23± 0.90s
   43.916 N ± 9.6km   12.086 E ± 4.7km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                       (381)

SFI      0.17 272 P      32 16.20   0.1
                  eSg    32 19.10
RSM      0.26  87 P      32 17.70  -0.1
                  eSg    32 19.30
PGD      0.27 261 P      32 17.80  -0.1
                  eSg    32 22.50
CRE      0.30 199 P      32 18.70   0.1
                  eSg    32 25.40
ARV      0.75 124 P      32 27.20   0.3
                  eSg    32 36.00
ASS      0.94 153 P      32 30.00  -0.3
                  eSn    32 44.70
MME      1.04 286 P      32 35.00   3.0X
                  eSn    32 50.00
TRI      2.15  33 eP     33 27.00  38.4X
      S.D. = 0.3  on   6 of   8 obs.
-----------------------------------------
   FEB 24, 1991  12h 43m 38.79± 0.31s
   44.558 N ± 2.5km    7.213 E ± 3.0km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                      (545)
      ML 2.3 (LDG), 2.2 (GEN).

DOI      0.06 157 Pd     43 40.70  -0.4
                  iSg    43 41.50
PZZ      0.10 236 P      43 40.98  -0.6
                  S      43 42.21
BHB      0.29   7 P      43 45.39   0.6
                  S      43 49.49
FOUF     0.31 265 ePgc   43 44.84  -0.4
                  i      43 45.12
                  e      43 47.10
STV      0.32 166 P      43 45.08  -0.5
                  S      43 49.08
ENR      0.36 156 P      43 46.00  -0.3
                  S      43 50.31
RRL      0.47 320 P      43 48.36  -0.1
                  S      43 55.95
ROB      0.54 119 P      43 49.90   0.2
                  S      43 56.98
RSP      0.59   3 P      43 51.03   0.1
                  S      43 59.23
SBF      0.71 167 Pg     43 53.20   0.3
                  Sg     44 01.60
FIN      0.79 116 P      43 54.00  -0.3
                  S      44 04.36
IMI      0.81 143 P      43 54.51   0.0
                  S      44 04.67
PCP      0.95  91 P      43 57.18   0.2
LPL      1.02 341 Pg     43 57.50  -0.7
FRF      1.08 202 Pg     43 59.40   0.3
                  Sg     44 13.00
LRG      1.26 209 Pg     44 02.40   0.2
                  Sg     44 19.60

LMR      1.33 203 Pg     44 03.60   0.4
                  Sg     44 20.40
CDR      1.37 230 eP     44 04.90   1.0
                  e      44 22.70
      S.D. = 0.5  on  18 of  18 obs.
-----------------------------------------
?  FEB 24, 1991  13h 15m 24.72± 1.60s
   44.004 N ±25.8km  148.674 E ±22.9km
   DEPTH =  33.0km  (normal)
   4.1mb (  3 obs.)
 KURIL ISLANDS                       (221)

KUSJ     3.02 254 P      16 10.80  -0.5
                  S      16 40.40
HOOJ     4.26 249 P      16 30.00   1.2
                  eS     17 14.80
ASAJ     4.35 274 P      16 34.80   4.6X
MRRJ     5.78 257 P      16 50.80   0.5
                  eS     17 50.30
OFUJ     7.20 229 eP     17 09.50  -0.8
                  eS     18 21.10
INK     45.63  31 eP     23 46.00   2.8X
YKA     54.98  34 eP     24 55.50   1.0
        0.7s     0.20nm          3.3mb
KEV     58.86 340 eP     25 22.00   0.0
SOD     60.65 338 eP     25 31.00  -3.3X
NB2     69.76 339 P      26 31.80  -1.3
        0.7s     1.50nm          4.2mb
HFS     69.88 338 eP     26 31.70  -2.1X
        0.4s     1.70nm          4.5mb
      S.D. = 1.1  on   7 of  11 obs.
-----------------------------------------
   FEB 24, 1991  13h 30m 35.50± 0.59s
   23.488 N ± 4.9km  120.969 E ± 6.8km
   DEPTH =  36.0 ±  7.8 km
   4.6mb ( 11 obs.)
 TAIWAN                              (244)

TWF1     0.33 114 iPd    30 42.90  -0.9
                  eS     30 50.90
TWG      0.67 172 ePd    30 48.30  -0.2
TWO      0.79 351 iPc    30 47.00  -3.3X
                  eS     30 57.00
TWC      1.38  36 eP     30 59.00   0.4
ANP      1.76  16 iP     31 05.50   1.2
                  eS     31 15.20
QZH      2.61 304 Pn     31 11.20  -5.0X
      E  12s     10.40um
                  Sn     31 46.00
HKC      6.38 261 eP     32 05.40  -4.2X
GZH      7.02 268 P      32 15.00  -3.6X
      Z  12s      3.50um
SSE      7.58   1 P      32 21.50  -4.9X
        0.9s    22.00nm          5.1mb
      Z  12s      2.70um          4.9MszX
                  pP     32 27.50
                  sP     32 35.00
                  S      33 43.00
NJ2      8.73 348 Pd     32 36.40  -6.0X
      Z  10s      2.60um
                  pP     32 43.30
                  sP     32 48.00
                  S      34 13.00
WHN      9.17 321 eP     32 42.50  -6.0X
      Z  11s      2.70um
QIZ     11.28 249 eP     33 21.00   3.6X
      N  17s      1.50um
      E  16s      1.40um
TIA     13.11 346 eP     33 41.50  -0.3
      Z  11s      3.40um
      N  10s      2.90um
      E  10s      1.10um
GYA     13.31 286 P      33 41.20  -3.4X
      Z  12s      3.60um
      N  10s      2.60um
      E  10s      5.80um
                  S      36 03.40
DL2     15.38   2 eP     34 12.00   0.5
      Z  10s      1.30um
      N  10s      1.70um
      E  10s      1.10um
                  S      36 55.00
TIY     15.96 335 Pc     34 20.00   1.0
      Z  12s      4.30um
      N  10s      4.40um
CD2     16.99 300 eP     34 31.10  -1.0
        1.1s   100.00nm          4.9mb

      Z  12s      5.20um          4.3MszX
BJI     16.99 347 eP     34 32.00   0.0
        1.5s    58.00nm          4.5mb
      Z  14s      1.58um          4.7Msz
      N  12s      1.15um
SNY     18.42   6 eP     34 50.00   0.3
        1.6s   100.00nm          4.7mb
LOE     19.01 255 eP     34 57.00   0.0
HHC     19.03 338 eP     34 52.00  -5.3X
      Z  18s      1.50um
      N  12s      0.80um
                  S      38 27.00
BTO     19.39 334 eP     35 01.00  -0.5
      N  12s      3.30um
      E  14s      1.80um
                  eS     38 31.50
LZH     19.42 314 iPc    35 01.50  -0.4
        1.5s   120.00nm          4.9mb
      Z  13s      3.42um          4.6Msz
                  pP     35 07.50  22kmX
                  sS     38 46.00
CN2     20.60   9 eP     35 13.00  -1.0
      Z  14s      1.60um          4.5MszX
                  epP    35 22.00  34kmX
                  eS     38 49.00
CHG     21.05 261 eP     35 20.00   1.1
CHTO    21.05 261 eP     35 20.00   1.1
        1.0s    11.25nm          4.2mb
GTA     23.95 316 eP     35 47.40   0.0
        2.2s    60.00nm          4.7mb
      Z  16s      1.80um          4.6MszX
      N  11s      1.20um
                  sS     40 13.00
LSA     27.33 290 eP     36 22.60   3.0X
GUN     31.86 285 P      37 00.00   0.1
WMQ     34.00 315 eP     37 16.00  -2.1
      Z  12s      0.90um          4.7MszX
                  pP     37 26.00  35kmX
                  PP     38 33.50
                  eS     42 40.00
                  sS     42 53.00
WRA     45.09 162 P      38 51.00   0.8
        1.1s    5.30nm          4.3mb
INK     73.94  22 eP     42 08.00  -0.5
DAG     77.04 351 eP     42 25.80  -0.2
        1.2s    14.06nm          4.9mb
HFS     78.07 331 eP     42 32.50   0.6
        0.5s    1.20nm          4.2mb
YKA     83.69  23 eP     43 01.70   0.1
        1.4s    2.50nm          4.1mb
      S.D. = 0.8  on  24 of  35 obs.
-----------------------------------------
*  FEB 24, 1991  13h 33m 11.06± 1.17s
   30.595 S ±11.1km   68.470 W ±10.8km
   DEPTH =  33.0km  (normal)
 SAN JUAN PROVINCE, ARGENTINA        (137)

RTLL     0.73 180 iPc    33 28.00   3.0X
RTCB     0.93 198 iPd    33 29.10   1.2
                  eS     33 39.90
RTRS     0.96 296 iPc    33 28.00  -0.1
                  eS     33 55.90
ZON      0.96 191 iPd    33 28.30   0.0
                  eS     33 38.30
CFA      1.03 169 iPc    33 29.50   0.3
                  eS     33 41.90
RTCV     1.26 183 iPc    33 31.10  -1.4
TCA      3.41 104 ePc    34 03.50   0.1
                  (S)    34 35.20
      S.D. = 1.1  on   6 of   7 obs.
-----------------------------------------
?  FEB 24, 1991  14h 34m 47.17± 0.52s
   15.096 S ±23.3km  173.145 W ±18.6km
   DEPTH =  33.0km  (normal)
   4.6mb (  7 obs.)  4.7Msz (  2 obs.)
 TONGA ISLANDS                       (173)

AFI      1.77  48 iP     35 11.00  -5.1X
DZM     20.54 247 iPc    39 27.20   1.5
WB2     50.14 256 iPc    43 39.50  -2.3
ASPA    50.44 252 eP     43 38.40  -5.7X
        1.4s    9.10nm          4.6mb
FORR    55.74 243 eP     44 19.00  -4.2X
KVN     74.42  41 P      46 24.80   0.7
TNP     74.45  43 P      46 25.20   0.9
        0.8s    2.45nm          4.3mb
SPA     75.00 180 iPc    46 26.50  -0.5
```

	1.0s	25.00nm		5.2mb		
		i	46	42.30		
MSU	78.04	45 P	46	45.00	0.4	
PMR	78.78	11 P	47	02.20	14.4X	
	1.0s	27.50nm				
PNT	79.63	32 eP	46	54.00	1.3	
ALQ	80.42	50 eP	46	56.30	-1.2	
	1.0s	4.25nm		4.4mb		
LRM	81.63	38 eP	47	03.00	-0.6	
BW06	81.88	42 P	47	04.30	-0.7	
FBA	82.05	11 P	47	04.50	-0.6	
	0.8s	12.07nm		5.0mb		
GOL	83.27	46 P	47	12.50	0.2	
	0.9s	5.21nm		4.6mb		
SES	84.81	35 eP	47	19.00	-0.6	
INK	87.92	14 eP	47	32.00	-2.3X	
YKA	89.72	23 eP	47	41.70	-1.3	
	1.3s	1.90nm		4.2mb		
KSP	143.54	350 ePKP	54	16.70	-3.4X	
PRU	144.64	351 ePKP	54	21.00	-1.0	
VRI	145.07	335 ePKP	54	23.50	0.6	
GRF	145.31	355 ePKP	54	23.20	0.0	
		e	54	29.00		
		e	54	38.60		
KHC	145.61	352 iPKPc	54	24.90	1.1	
	1.2s	15.00nm				
MLR	145.69	336 ePKP	54	24.00	-0.2	
ZST	145.93	348 ePKP	54	25.40	1.1	
SRO	146.02	346 ePKP	54	24.90	0.5	
CDF	146.78	359 ePKP	54	26.40	0.6	
	0.9s	8.20nm				
HAU	147.18	1 ePKP	54	27.60	1.3X	
	0.7s	4.40nm				
	Z 20s	0.08um		4.5Msz		
LOR	147.83	4 ePKP	54	29.40	2.0X	
	1.0s	10.00nm				
	Z 19s	0.20um		4.9Msz		
SSF	148.01	4 ePKP	54	30.10	2.5X	
	1.1s	12.20nm				
LBF	148.12	4 ePKP	54	30.20	2.3X	
	0.9s	7.35nm				
AVF	148.27	5 ePKP	54	30.40	2.4X	
SMF	148.45	4 ePKP	54	30.80	2.4X	
BGF	148.46	5 ePKP	54	30.90	2.5X	
	0.8s	6.70nm				
MAF	148.76	6 ePKP	54	31.80	2.9X	
	0.9s	4.90nm				
LPL	149.68	0 ePKP	54	35.30	4.7X	
	0.9s	4.90nm				
LPG	149.69	0 ePKP	54	35.50	4.8X	
OHR	151.39	338 ePKP	54	38.50	5.4X	
	S.D. = 1.0	on 22 of 39 obs.				

? FEB 24, 1991 14h 41m 15.21± 1.01s
37.004 N ± 9.6km 29.560 E ± 8.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.0 (ISK).

ELL	0.38	132 iPg	41	22.70	-0.3	
		iSg	41	28.80		
BCK	0.94	61 ePn	41	33.80	0.6	
YER	1.03	278 ePn	41	35.00	0.3	
KHL	1.32	359 ePn	41	39.00	-0.6	
	S.D. = 1.0	on 4 of 4 obs.				

• FEB 24, 1991 16h 19m 09.28± 2.92s
5.800 S ±13.3km 105.681 E ±16.5km
DEPTH = 182.3 ± 28.5 km
4.8mb (3 obs.)
SUNDA STRAIT (276)

IPM	11.31	336 ePc	21	48.00	1.2	
KHT	21.63	341 eP	23	48.50	2.7X	
LOE	23.39	350 eP	24	04.00	1.1	
KNA	24.71	115 eP	24	14.20	-1.2	
QIZ	25.01	9 eP	24	23.00	4.9X	
	E 13s	1.30um				
CHG	25.34	345 eP	24	19.00	-2.2	
WB2	31.21	119 eP	25	12.00	-1.7	
		e	26	41.50		
GYA	32.08	2 P	25	21.60	0.4	
	N 16s	1.20um				
	E 16s	1.60um				
ASPA	32.45	126 iPc	25	23.50	-0.9	
	0.8s	26.00nm		5.0mb		
GBA	34.03	305 P	25	34.00	-4.0X	
QIS	36.03	117 iPc	25	54.90	0.0	
CD2	36.55	357 eP	26	01.00	1.9	
GUN	38.58	331 P	26	14.40	-2.2	
DMN	38.71	330 P	26	15.30	-2.2	
KKN	38.77	330 P	26	15.10	-2.9X	
GKN	39.27	330 P	26	18.80	-3.2X	
POO	39.62	308 eP	26	07.50	-17.4X	
XAN	39.74	4 P	26	25.70	0.1	
ADE	42.07	138 eP	26	45.00	0.2	
TIY	43.74	8 eP	27	02.10	3.8X	
	Z 13s	0.60um		4.7MszX		
GTA	45.31	354 eP	27	11.00	0.3	
	1.6s	20.00nm		4.4mb		
	Z 20s	0.30um		4.2Msz		
	N 14s	0.50um				
CMS	45.42	129 eP	27	12.00	0.4	
BFD	45.88	138 eP	27	16.00	0.9	
BRS	49.59	121 iPc	27	45.50	1.4	
WMQ	52.00	344 P	28	00.50	-1.5	
CN2	52.50	18 eP	28	06.00	0.4	
	Z 14s	0.50um		4.7MszX		
		eS	35	32.00		
BUL	75.90	251 iPd	30	37.90	-0.1	
VRI	86.48	317 eP	31	35.50	2.9X	
CVO	86.85	316 eP	31	36.00	1.6	
MLR	86.94	316 eP	31	37.50	2.5X	
BCAO	87.61	275 iPd	31	39.30	0.6	
	0.6s	11.00nm		4.9mb		
MBC	105.41	10 ePKP	37	27.00	15.9X	
	0.5s	2.00nm				
YKA	116.19	20 ePKP	37	33.00	1.1	
	0.9s	1.00nm				
ZOBO	157.23	196 ePKP	38	53.00	7.0X	
	S.D. = 1.4	on 23 of 34 obs.				

• FEB 24, 1991 16h 32m 50.02± 1.55s
51.352 N ±19.8km 179.508 E ± 7.5km
DEPTH = 85.7 ± 11.7 km
4.3mb (4 obs.)
RAT ISLANDS, ALEUTIAN ISLANDS (6)

ADK	2.43	76 iPc	33	27.90	-0.6	
SMY	3.61	295 eP	33	44.00	-0.7	
SDN	12.59	64 eP	35	46.80	-0.2	
ANM	15.42	25 eP	36	27.70	4.1X	
TTA	17.49	39 eP	36	51.40	1.9	
RSO	17.90	49 eP	36	56.50	1.9	
PMR	19.92	47 eP	37	17.10	0.3	
IMA	20.03	32 eP	37	18.30	0.1	
TOA	21.41	47 eP	37	32.10	0.0	
FBA	21.62	39 eP	37	33.50	-0.6	
INK	28.09	35 eP	38	28.00	-7.0X	
YKA	36.02	46 eP	39	43.00	-1.1	
	0.6s	5.00nm		4.6mb		
NEW	39.89	69 eP	40	16.20	-0.4	
TNP	45.49	81 eP	41	03.50	1.1	
CLC	46.68	84 eP	41	15.00	3.3X	
BW06	47.32	71 eP	41	17.00	0.2	
GSC	47.51	84 eP	41	22.00	3.8X	
PLM	48.75	86 eP	41	32.00	4.1X	
TPC	48.76	85 eP	41	31.00	3.2X	
GLA	50.22	85 eP	41	43.00	4.0X	
FRB	53.60	31 eP	42	03.00	-0.8	
ALQ	54.14	77 eP	42	07.00	-1.5	
	1.0s	2.50nm		4.2mb		
NUR	66.67	347 eP	43	43.00	10.0X	
NB2	67.57	354 P	43	37.40	-1.3	
	0.6s	1.50nm		4.1mb		
HFS	68.28	352 eP	43	41.40	-1.7	
	0.4s	1.70nm		4.3mb		
GUN	70.88	291 P	44	01.10	1.2	
KKN	71.32	291 P	44	03.60	1.2	
GKN	71.54	292 P	44	04.70	1.1	
	S.D. = 1.2	on 20 of 28 obs.				

% FEB 24, 1991 18h 51m 40.58± 0.89s
43.123 N ±13.3km 7.896 E ± 9.3km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)

SBF	0.81	336 Pn	51	56.40	0.0	
		Sn	52	05.20		
PGF	0.99	125 Pn	51	59.50	0.0	
		Sn	52	10.80		
FRF	1.01	296 Pn	51	59.60	-0.1	
LMR	1.04	282 Pn	52	00.20	0.1	
LRG	1.17	287 Pn	52	02.40	0.0	
	S.D. = 0.1	on 5 of 5 obs.				

• FEB 24, 1991 18h 53m 12.38± 1.94s
9.127 S ± 8.0km 114.896 E ±12.3km
DEPTH = 78.0 ± 20.7 km
4.7mb (3 obs.)
SOUTH OF BALI ISLAND (284)

MKS	5.97	50 iPc	54	40.50	0.4	
MBL	12.87	159 eP	56	09.50	-4.3X	
		eS	58	20.00		
NANU	13.37	177 eP	56	19.00	-1.3	
	0.3s	22.00nm		5.2mb	X	
		eS	58	36.00		
MTN	16.36	105 eP	56	54.00	-4.7X	
		eS	59	46.00		
MRWA	20.01	177 eP	57	47.00	5.6X	
		eS	01	10.00		
WARB	20.30	148 iPc	57	45.10	0.7	
		eS	01	19.00		
WB2	21.66	122 iPc	57	57.20	-1.0	
		iS	01	51.00		
		iPcS	05	26.40		
COOL	22.42	166 eP	58	07.50	1.9	
		e	58	19.00		
		eS	02	04.00		
KLB	22.51	174 eP	58	09.50	3.0X	
		eS	02	08.00		
ASPA	23.22	131 iPd	58	12.70	-0.8	
	0.7s	26.60nm		4.8mb		
		eS	02	31.00		
FORR	24.87	152 eP	58	30.00	0.8	
		e	58	53.50		
		eS	03	06.00		
GBA	43.50	301 P	01	10.00	0.0	
	0.2s	0.60nm		4.1mb		
HYB	44.56	306 eP	01	18.20	-0.4	
GUN	46.30	324 P	01	31.70	-0.9	
PKI	46.33	323 P	01	33.50	0.7	
DMN	46.54	323 P	01	34.80	0.4	
	0.7s	24.00nm		5.2mb		
KKN	46.57	323 P	01	35.00	0.4	
GKN	47.11	323 P	01	38.80	0.0	
YKA	115.93	23 ePKP	11	46.50	-0.9	
	0.5s	0.20nm				
SOB1	149.79	234 ePKP	12	58.20	7.2X	
	S.D. = 1.0	on 15 of 20 obs.				

FEB 24, 1991 19h 31m 53.14± 0.43s
1.680 S ± 7.1km 28.772 E ±10.0km
DEPTH = 10.0km (geophysicist)
4.6mb (19 obs.)
ZAIRE REPUBLIC (567)

NAI	8.04	87 eP	33	55.00	2.0	
BCAO	11.90	301 iPc	34	36.20	-9.7X	
	0.6s	27.00nm		5.7mb	X	
		iS	36	40.90		
		Lg	37	52.90		
BUL	18.35	180 iPn	36	09.30	-0.4	
		iSn	39	22.00		
		iSg	41	18.20		
BFT	23.90	177 eP	37	13.50	5.3X	
		S	41	59.00		
SLR	23.92	181 eP	37	08.50	0.1	
		S	41	27.00		
KSR	24.11	184 e(P)	37	10.50	0.2	
BLF	27.39	185 e(P)	37	45.00	4.1X	
		(S)	42	45.00		
KIC	34.40	284 P	38	37.28	-5.7X	
	0.4s	3.00nm		4.5mb		
LIC	34.65	283 P	38	39.24	-5.8X	
	0.5s	4.00nm		4.6mb		
TIC	34.73	284 P	38	40.16	-5.6X	
	0.6s	12.50nm		5.0mb		
LKO	35.99	289 P	38	51.16	-5.4X	
	0.7s	11.00nm		4.8mb		
MLR	47.03	357 eP	40	27.00	0.3	
LPG	50.87	340 eP	40	56.20	-0.4	
LPL	50.89	340 eP	40	56.40	-0.3	
	0.6s	2.25nm		4.3mb		
EPF	51.34	333 eP	41	01.70	1.8	
KRA	52.09	353 eP	41	07.10	1.7	
CAF	52.13	336 eP	41	06.80	0.9	
	0.6s	2.70nm		4.4mb		
KHC	52.29	347 Pc	41	04.30	-2.7X	
	1.2s	10.00nm		4.6mb		

24d 19h

LPO 52.29 335 eP 41 07.80 0.8
0.7s 6.60nm 4.7mb
RJF 52.66 336 eP 41 10.40 0.6
LFF 52.69 335 eP 41 10.10 0.1
0.8s 12.10nm 4.9mb
SMF 52.89 339 eP 41 11.40 -0.1
BSF 52.91 342 eP 41 11.10 -0.7
0.8s 5.35nm 4.5mb
MAF 53.01 337 eP 41 13.50 1.1
0.8s 6.70nm 4.6mb
AVF 53.19 338 eP 41 13.40 -0.3
0.7s 2.75nm 4.3mb
TCF 53.20 337 eP 41 14.70 0.9
0.7s 2.20nm 4.2mb
CDF 53.28 342 eP 41 14.60 0.2
0.8s 5.35nm 4.6mb
GRF 53.36 346 eP 41 13.20 -1.7
LOR 53.41 339 eP 41 15.20 -0.1
0.7s 3.30nm 4.4mb
LPF 55.91 336 eP 41 33.00 -0.5
GKN 61.16 57 P 42 09.40 -1.3
KKN 61.63 57 P 42 11.00 -3.0X
NUR 62.09 358 eP 42 12.70 -3.5X
0.9s 20.70nm 5.3mb
GUN 62.17 57 P 42 16.70 -1.1
KAF 63.65 359 eP 42 24.40 -2.0
0.9s 18.90nm 5.3mb
NB2 64.00 351 P 42 25.40 -3.5X
0.8s 10.30nm 5.1mb
SOD 68.92 359 iP 42 58.60 -1.3
WMO 69.31 42 eP 43 02.50 -0.5
KEV 71.31 359 eP 43 19.00 4.5X
GTA 76.52 49 eP 43 45.60 0.0
1.2s 10.00nm 4.8mb
S.D. = 1.0 on 28 of 40 obs.

FEB 24, 1991 20h 05m 12.58± 0.62s
37.079 N ± 6.2km 28.156 E ± 5.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YER 0.12 61 iPn 05 14.60 -1.0
SMG 1.22 301 eP 05 36.00 0.7
ELL 1.44 103 iPn 05 39.30 0.4
IZM 1.49 332 iPn 05 40.20 0.7
KSL 1.50 129 eP 05 39.00 -0.5
KHL 1.65 41 iPn 05 41.20 -0.6
KAP 1.72 208 eP 05 42.00 -0.7
BCK 1.98 78 iPn 05 47.90 1.4
ALT 2.50 37 ePn 05 55.00 0.9
DST 2.55 8 ePn 05 54.60 -0.1
PRK 2.62 326 eP 05 55.20 -0.5
EZN 3.10 333 ePn 06 04.00 1.7
KCT 3.17 3 eP 06 13.70 10.3X
EDC 3.27 356 ePn 06 04.00 -0.9
BNT 3.28 357 ePn 06 03.00 -2.0
YLV 3.61 15 eP 06 18.20 8.4X
CSS 4.70 115 e(P) 06 25.50 0.3
S.D. = 1.1 on 15 of 17 obs.

? FEB 24, 1991 21h 18m 54.73± 0.90s
37.124 N ± 8.3km 29.551 E ± 7.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.8 (ISK).

ELL 0.47 143 iPg 19 04.30 -0.1
iSg 19 12.30
BCK 0.89 68 ePn 19 12.00 0.1
YER 1.01 271 ePn 19 14.00 0.0
KHL 1.20 359 ePn 19 17.00 -0.1
S.D. = 0.1 on 4 of 4 obs.

& FEB 24, 1991 22h 26m 38.60s
38.840 N 122.818 W
DEPTH = 2.0km
NORTHERN CALIFORNIA (36)
<BRK>. ML 2.9 (BRK).

NWRM 0.39 188 eP 26 46.50 0.2
ZSP 1.00 154 eP 26 57.50 -0.7
iS 27 14.20
BRK 1.06 155 eP 26 58.80 -0.5
iS 27 12.80
BKS 1.07 154 iPd 26 58.50 -0.9
i 27 15.10
ORV 1.25 55 eP 27 04.00 1.5
PCC 1.38 165 eP 27 03.80 -1.0
WDC 1.75 7 eP 27 13.20 3.0
MHC 1.76 148 eP 27 09.30 -1.1
ARN 1.80 145 eP 27 09.50 -1.4
CMB 2.07 112 eP 27 13.80 -1.1
KVN 3.68 85 eP 27 36.20 -1.8
11 obs. ossociated

& FEB 25, 1991 00h 40m 13.90s
38.827 N 122.822 W
DEPTH = 4.0km
NORTHERN CALIFORNIA (36)
<BRK>. ML 3.2 (BRK).

NWRM 0.37 188 eP 40 21.60 0.2
ZSP 0.99 153 eP 40 32.30 -0.9
eS 40 45.50
BRK 1.05 155 eP 40 34.20 0.0
iS 40 48.00
BKS 1.06 154 iPd 40 34.30 0.0
eS 40 47.40
ORV 1.26 54 eP 40 36.80 -1.0
PCC 1.37 165 eP 40 41.00 1.3
MHC 1.75 148 eP 40 44.50 -0.9
WDC 1.76 7 eP 40 49.50 4.1
ARN 1.79 145 eP 40 44.70 -1.2
GCC 1.91 160 eP 40 51.50 4.0
CMB 2.07 112 ePc 40 48.70 -1.2
FHC 2.17 336 eP 40 59.50 8.2
SAO 2.33 152 eP 40 52.00 -1.6
LBFM 2.62 16 eP 41 00.30 2.4
LLA 2.66 145 eP 40 57.40 -1.0
PRS 2.75 155 eP 40 58.80 -0.8
FRI 3.07 126 eP 41 03.90 -0.2
BONR 3.66 102 eP 41 12.50 -0.3
KVN 3.69 85 eP 41 11.80 -1.3
19 obs. ossociated

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* FEB 25, 1991 00h 47m 00.57± 1.17s
40.425 N ± 9.3km 23.015 E ±12.1km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 1.7 (SKO).

THE 0.21 350 eP 47 05.20 0.1
GRG 0.71 319 eP 47 14.50 0.0
eS 47 24.20
PAIG 0.71 134 eP 47 14.60 0.0
KNT 0.74 353 eP 47 15.10 0.0
eS 47 25.20
SRS 0.82 32 eP 47 16.40 0.0
VAY 0.96 340 iPg 47 09.30 -9.5X
iSg 47 11.40
S.D. = 0.1 on 5 of 6 obs.

FEB 25, 1991 00h 53m 42.01± 0.33s
38.571 N ± 3.1km 26.635 E ± 3.2km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
MD 3.7 (ATH), 3.6 (ISK).

IZM 0.52 109 iPg 53 52.90 0.3
eSg 54 00.40
PRK 0.73 337 ePb 53 55.50 -0.8
SMG 0.88 169 ePb 53 58.50 -0.3
EZN 1.28 349 iPn 54 05.60 -0.1
APE 1.74 211 ePn 54 12.00 -0.4
DST 1.86 56 iPn 54 14.20 -0.1
YER 1.94 137 iPn 54 15.70 0.3
EDC 2.01 28 ePn 54 16.00 -0.4
BNT 2.04 29 ePn 54 16.50 -0.3
KCT 2.14 38 ePn 54 19.00 0.7
KHL 2.28 95 iPn 54 20.80 0.4
RDO 2.71 342 ePn 54 26.00 -0.3
ALT 2.76 79 ePn 54 27.10 -0.1
YLV 2.91 46 ePn 54 29.00 -0.2
ISK 3.11 36 ePn 54 31.00 -1.0
KDZ 3.21 343 iPd 54 34.00 0.5
DMK 3.36 14 ePn 54 35.20 -0.4
SOH 3.38 313 ePc 54 36.40 0.4
RZN 3.44 335 eP 54 37.00 0.1
SRS 3.46 318 iPd 54 36.60 -0.4
DIM 3.58 347 eP 54 40.00 1.4
MMB 3.75 324 iP 54 41.00 -0.2
PLD 3.83 338 eP 54 43.00 0.8
KNT 3.87 313 iPd 54 43.10 0.3
VAY 4.16 313 ePn 54 58.40 11.5X
PGB 4.40 335 eP 54 50.00 -0.3
BBTK 4.92 73 eP 55 15.50 17.6X
S.D. = 0.6 on 25 of 27 obs.

FEB 25, 1991 02h 06m 37.29± 0.55s
10.583 S ±10.2km 74.824 W ± 6.9km
DEPTH = 33.0km (normal)
4.5mb (3 obs.)
PERU (116)

NNA 2.42 235 iPc 07 15.50 0.0
0.6s 333.33nm
eS 07 44.50
PT10 2.57 235 iPd 07 17.50 -0.1
iS 07 48.80
ZOBO 8.63 132 P 08 43.40 0.0
Z 19s 0.22um
i 09 14.60
S 11 04.00
LR 12 20.00
LPB 8.82 133 eP 08 51.00 5.1X
S 11 13.00
LR 12 05.00
CNCB 9.08 134 eP 08 51.00 1.3
S 11 09.00
SIV 14.42 113 P 09 57.40 -3.8X
PPD 25.23 120 eP 12 00.80 -1.2
SOB1 33.44 91 eP 13 15.60 -0.1
BW06 61.87 332 eP 16 50.60 -5.5X
PNT 71.42 331 eP 17 59.00 2.8X
0.7s 4.00nm 4.6mb
KIC 71.77 80 (P) 17 58.60 -0.4
0.6s 4.50nm 4.7mb
FRB 74.26 3 eP 18 20.00 7.5X
YKA 79.09 342 eP 18 39.70 0.0
0.7s 1.10nm 4.0mb
INK 88.82 341 eP 19 30.00 1.2
WB2 138.22 224 ePKP 26 01.50 -0.3
WRA 138.23 223 ePKP 26 01.50 -0.4
S.D. = 0.8 on 11 of 16 obs.

? FEB 25, 1991 02h 24m 40.42± 1.65s
39.973 N ±11.1km 28.045 E ±14.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.4 (ISK).

KCT 0.36 41 iPg 24 48.00 0.1
BNT 0.39 346 iPg 24 48.00 -0.5
eSg 24 54.00
EDC 0.40 340 iPg 24 49.00 0.4
eSg 24 55.00
DST 0.58 129 iPg 24 52.20 0.0
eSg 25 00.20
S.D. = 0.7 on 4 of 4 obs.

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* FEB 25, 1991 02h 38m 42.85± 1.13s
30.837 N ±19.0km 67.198 E ±15.0km
DEPTH = 33.0km (normal)
4.7mb (4 obs.)
PAKISTAN (710)

NDI 8.97 101 eP 40 55.00 1.9
eS 42 37.00
GKN 15.46 96 P 42 19.20 -1.0
0.6s 32.00nm 4.7mb
DMN 15.96 97 P 42 26.60 -0.2
KKN 16.06 96 P 42 27.60 -0.5
PKI 16.23 97 P 42 28.00 -2.3X
GUN 16.54 95 P 42 33.70 -0.6
HYB 16.89 140 eP 42 34.00 -4.4X
eS 46 33.00
GBA 19.57 149 Pd 43 11.10 0.0
0.7s 1.20nm 3.3mb X
MBC 73.10 2 eP 50 11.00 -0.1
IMA 78.44 16 eP 50 42.60 0.9
1.0s 7.50nm 4.7mb
INK 79.96 8 eP 50 49.00 -0.6
FBA 80.75 14 eP 50 55.60 1.7
0.7s 9.60nm 4.9mb
PMR 83.31 17 eP 51 07.60 0.3
YKA 86.99 1 eP 51 23.80 -1.8
0.9s 2.70nm 4.5mb
S.D. = 1.2 on 12 of 14 obs.

? FEB 25, 1991 04h 44m 06.43± 0.93s
11.440 N ±13.0km 124.856 E ±20.5km

DEPTH = 60.0km (geophysicist)
4.4mb (3 obs.)
LEYTE, PHILIPPINE ISLANDS (256)

SSE	19.85	351	eP	48	35.50	0.3
	0.8s	10.00nm			4.2mb	
			eS	52	06.00	
ASPA	35.99	166	eP	51	02.50	-1.2
	0.5s	4.90nm			4.7mb	
WARB	37.44	177	eP	51	17.00	1.3
GUN	39.98	300	P	51	37.60	0.2
PKI	40.29	299	P	51	39.80	-0.1
KKN	40.46	300	P	51	41.20	0.0
DMN	40.56	299	P	51	42.00	-0.1
GKN	41.06	300	P	51	45.70	-0.4
GBA	46.29	278	Pc	52	28.30	0.1
	0.5s	2.60nm			4.4mb	

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

& FEB 25, 1991 06h 31m 46.14s
40.526 N 123.007 W
DEPTH = 38.7km
NORTHERN CALIFORNIA (36)
<GM>. MD 3.2 (GM).

LTCM	0.75	115	iP	31	59.20	-1.1
FHC	0.79	291	eP	31	59.80	-1.2
LBFM	1.18	46	eP	32	06.30	-0.3
ORV	1.51	129	eP	32	08.70	-2.4
KVN	4.06	110	eP	32	45.10	-2.5

5 obs. ossocioted

FEB 25, 1991 06h 39m 04.95± 0.46s
7.388 S ± 3.2km 128.922 E ± 4.2km
DEPTH = 123.6 ± 4.1 km
5.6mb (49 obs.)
BANDA SEA (280)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 32C
Centraid Lacotion:
Origin Time 06:39: 7.3 0.6
Lat 7.41S 0.06 Lon 128.84E 0.04
Dep 114.9 2.3 Half-duration 2.1
Moment Tensor; Scale 10**17 Nm
Mrr= 1.93 0.08 Mtt=-0.09 0.16
Mff=-1.84 0.16 Mrt= 1.40 0.09
Mrf=-0.91 0.09 Mtf= 0.46 0.11
Principal Axes:

T	Val= 2.73	Plg=64	Azm= 18
N	-0.37	19	151
P	-2.35	18	247

Best Double Couple:Mo=2.5*10**17
NP1:Strike= 4 Dip=32 Slip= 128
NP2: 142 65 69

AAI	3.75	349	ePc	40	01.60	-0.4
			eS	40	46.40	
MTN	5.84	158	eP	41	25.80	55.2X
KNA	8.31	181	iPc	40	59.00	-5.1X
MKS	9.64	282	ePc	41	24.30	2.4X
BKB2	13.44	296	iPd	42	23.20	11.3X
WRA	13.54	158	eP	42	05.70	-7.6X
			eS	44	23.60	
WB2	13.55	158	eP	42	05.70	-7.6X
			eS	44	23.60	
MNDI	14.69	86	iP	42	26.00	-2.1
DAV	14.76	347	eP	42	30.00	1.2
	1.3s	492.31nm			5.6mb	
TSM	15.82	316	ePd	42	50.00	7.9X
MBL	16.27	212	eP	42	40.00	-7.6X
ASPA	16.88	164	iPd	42	50.00	-5.2X
	0.4s	104.90nm			5.5mb	
			eS	45	41.20	
			iScS	54	37.80	
PMG	18.15	98	eP	43	10.00	-0.6
KKM	18.41	316	ePd	43	14.90	1.4
	1.2s	285.30nm			5.4mb	
WARB	18.82	186	iPc	43	15.60	-2.2
	0.5s	116.00nm			5.5mb	
NANU	19.85	219	eP	43	27.50	-1.0
			eS	46	55.00	
CTA	21.01	129	iPd	43	40.90	0.5
	1.0s	332.00nm			5.7mb	
			iS	47	28.00	
MEKA	21.52	206	eP	43	44.90	-0.4
RAB	23.34	83	eP	44	04.00	0.8
			eS	48	08.00	
FORR	23.35	182	eP	44	02.50	-0.6
			i	44	03.10	
QLP	24.01	144	iPc	44	10.50	1.0
			eS	48	35.00	
COOL	24.48	196	eP	44	13.00	-1.0
	0.3s	8.00nm			4.8mb	
BAG	25.05	341	eP	44	17.00	-2.5
	1.6s	1066.67nm			6.1mb	
			eS	48	34.00	
BAL	25.78	205	eP	44	26.00	0.0
			e	44	50.00	
			eS	49	15.00	
GUA	26.16	37	eP	44	30.50	0.9
	0.8s	268.66nm			5.9mb	
PJG	26.17	37	eP	44	30.20	0.5
KLB	26.24	202	eP	44	30.10	-0.1
			e	44	58.00	
			eS	49	23.00	
RMO	26.77	138	iPc	44	34.00	-1.2
	0.9s	135.00nm			5.5mb	
			e	54	03.00	
MUN	27.18	204	eP	44	38.00	-0.8
	0.8s	110.00nm			5.5mb	
			e	45	05.00	
KGM	27.20	289	ePc	44	41.50	2.4X
CMS	28.71	149	iPc	44	51.70	-0.8
	0.5s	20.00nm			5.0mb	
			eS	50	22.00	
ADE	28.89	163	eP	44	54.00	-0.2
BRS	30.12	134	iPc	45	03.00	-2.2
			eS	50	06.00	
IPM	30.27	292	ePd	45	06.30	-0.3
	0.3s	42.20nm			5.6mb	
SVO	30.62	95	eP	45	09.00	-0.6
HNR	30.75	96	eP	45	09.00	-1.8
BFD	32.14	159	eP	45	22.60	-0.1
			e	51	43.00	
QIZ	32.29	325	P	45	24.00	-0.2
	1.6s	200.00nm			5.6mb	
			S	50	28.00	
CNB	33.53	149	eP	45	35.00	0.1
			e	52	30.00	
TOO	33.60	156	eP	45	36.70	1.3
			e	52	28.00	
NNT	35.15	304	eP	45	48.00	-0.8
NST	36.58	309	eP	46	02.00	1.2
KHT	37.28	306	eP	46	08.30	1.6
BDT	38.39	310	eP	46	14.40	-1.6
	0.8s	171.30nm			5.9mb	
KAGJ	38.40	3	eP	46	16.70	0.8
SSE	38.97	349	Pc	46	20.00	-0.7
	1.4s	200.00nm			5.7mb	
	Z 20s	0.50um			4.3Msz	
	E 10s	0.30um				
DZM	38.98	116	iPc	46	21.90	0.9
CHG	39.39	312	ePc	46	25.00	0.7
	0.8s	113.25nm			5.7mb	
			eS	52	18.00	
KUMJ	39.74	3	eP	46	26.70	-0.3
GYA	39.98	328	iPc	46	29.00	-0.2
	1.8s	300.00nm			5.8mb	
	N 16s	1.40um				
	E 16s	0.80um				
			ScP	52	12.60	
WHN	40.22	340	iPc	46	31.50	0.6
	1.5s	300.00nm			5.8mb	
NJ2	40.38	347	Pc	46	32.60	0.4
	1.0s	100.00nm			5.5mb	
			ScP	52	15.00	
KMI	41.16	323	Pc	46	40.50	1.5
	2.0s	540.00nm			5.9mb	
	Z 14s	0.60um			4.6MszX	
SHNJ	41.34	3	eP	46	39.10	-0.9
SHK	41.84	5	eP	46	45.30	1.1
IIDJ	43.47	11	P	46	55.90	-1.6
CHJJ	44.23	12	P	47	02.10	-1.5
MTMJ	44.53	10	P	47	04.90	-1.1
MAT	44.56	11	eP	47	04.00	-2.2
	0.9s	54.62nm			5.3mb	
			(S)	53	40.00	
KAKJ	44.63	13	P	47	05.30	-1.4
TIA	44.76	346	eP	47	07.00	-0.8
	1.4s	100.00nm			5.4mb	
CD2	45.07	329	P	47	09.70	-0.6
	1.3s	200.00nm			5.7mb	
	Z 22s	1.00um			4.7Msz	
XAN	45.35	336	iPc	47	11.40	-1.1
	1.4s	200.00nm			5.7mb	
NIIJ	45.38	11	P	47	12.30	-0.4
YAMJ	46.49	12	eP	47	23.10	1.6
DL2	46.55	352	eP	47	21.00	-0.9
	1.0s	150.00nm			5.7mb	
TIY	47.43	342	Pc	47	28.20	-0.8
	Z 16s	0.50um			4.6MszX	
	N 12s	0.40um				
OFUJ	47.72	13	eP	47	30.80	-0.2
BJI	48.64	347	eP	47	37.50	-0.6
	1.4s	180.00nm			5.7mb	
	N 32s	0.75um				
			eScP	52	48.00	
			eScS	57	19.00	
SNY	49.22	355	Pc	47	41.40	-1.1
	1.6s	200.00nm			5.7mb	
	N 13s	0.50um				
	E 13s	0.60um				
LZH	49.25	333	iPc	47	43.00	-0.1
	1.8s	640.00nm			6.2mb	
	Z 30s	1.15um			4.7MszX	
	N 12s	0.40um				
			PP	49	40.00	
HHC	50.59	343	P	47	52.80	-0.3
			S	55	00.00	
BTO	50.83	341	P	47	54.00	-0.9
			ePP	49	51.00	
			eS	55	01.50	
CN2	51.04	357	Pc	47	55.00	-1.4
	1.0s	50.00nm			5.4mb	
	Z 18s	0.90um			4.8Msz	
			ScP	52	58.00	
LSA	51.75	317	eP	48	03.00	0.5
MDJ	51.77	1	Pd	48	02.00	0.2
	1.7s	490.00nm			6.1mb	
TCW	52.43	137	eP	48	06.10	-0.8
KHZ	52.51	139	eP	48	06.50	-0.9
	0.8s	133.00nm			5.9mb	
WEL	52.80	137	P	48	08.00	-1.6
GTA	53.80	332	iPc	48	17.00	-0.1
	1.2s	190.00nm			5.9mb	
	Z 22s	0.80um			4.7Msz	
	E 12s	0.40um				
			ScS	57	54.60	
HBZ	53.81	132	eP	48	17.20	0.1
	0.7s	175.00nm			6.1mb	
PUZ	53.95	132	eP	48	17.70	-0.4
GUN	54.41	312	P	48	21.60	-0.5
PKI	54.57	311	P	48	22.20	-1.0
KKN	54.79	312	P	48	24.10	-0.5
DMN	54.82	311	P	48	24.40	-0.5
GBA	55.20	292	P	48	26.40	-1.1
GKN	55.38	311	P	48	27.90	-0.9
HYB	55.53	297	iPd	48	29.50	-0.4
	1.0s	125.00nm			5.8mb	
POO	60.10	296	iPd	48	59.00	-2.9X
	0.8s	26.87nm			5.3mb	
NDI	61.38	308	iPd	49	08.50	-1.8
	0.7s	54.79nm			5.6mb	
			eS	57	16.00	
WMQ	63.14	328	iPc	49	21.60	-0.2
	1.2s	200.00nm			5.9mb	
	Z 20s	0.60um			4.8Msz	
			sP	49	37.00	
KSH	67.55	318	Pc	49	51.00	0.7
AFR	79.55	106	iP	51	03.00	2.9X
	1.0s	55.00nm			5.3mb	
PAE	79.73	107	iP	51	04.00	2.9X
	1.0s	45.00nm			5.2mb	
PPT	79.74	107	iP	51	04.10	2.9X
	1.0s	70.00nm			5.4mb	
PPN	79.88	106	iP	51	05.00	3.1X
	1.0s	25.00nm			5.0mb	
TVO	80.03	107	iP	51	06.20	3.4X
	1.0s	60.00nm			5.3mb	
PMO	81.57	104	iP	51	14.70	4.0X
	1.0s	65.00nm			5.4mb	
VAH	81.80	104	iP	51	15.90	4.0X
	1.0s	30.00nm			5.0mb	
TPT	81.84	104	iP	51	16.30	4.2X
	1.0s	50.00nm			5.3mb	
SDN	85.21	33	ePc	51	29.00	0.6
ANM	86.50	23	eP	51	36.30	1.6
TAB	88.71	308	eP	51	46.00	-0.1
IMA	91.63	23	eP	51	59.40	0.4
	1.2s	15.50nm			5.1mb	

25d 06h

BRW 91.98 18 eP 52 00.20 -0.1
PMR 92.62 28 eP 52 03.20 -0.2
1.3s 33.70nm 5.4mb
FBA 93.79 25 eP 52 08.60 -0.2
1.7s 62.10nm 5.7mb
TOA 94.09 28 eP 52 10.70 0.4
BUL 97.07 249 eP 52 28.20 3.4X
INK 99.62 22 ePc 52 34.00 -1.2
MBC 102.23 13 ePdiff52 47.00 0.3
KRA 107.79 320 ePKP 57 39.70 20.5X
e 57 44.80
YKA 108.57 26 ePdiff53 15.00 -0.1
0.8s 1.20nm 5.2mb
YKA 108.57 26 ePKP 57 13.00 -7.2X
0.8s 2.00nm
PNT 109.52 40 ePKP 57 24.00 1.5
0.6s 3.00nm
KSP 109.92 322 ePKP 57 24.70 1.5
e 57 52.00
KHC 112.04 320 ePKP 57 14.60 -12.7X
e 58 17.20
KBA 112.70 318 e(PKP)57 29.00 0.2
0.7s 3.10nm
i 57 32.60
TNP 113.27 52 PKP 57 30.70 0.4
CLC 113.30 54 ePKP 57 32.00 1.8
e 58 21.00
GSC 114.02 55 ePKP 57 33.00 1.3
e 58 23.00
PLM 114.23 57 ePKP 57 35.00 2.7X
SES 114.58 38 ePKP 57 33.00 0.8
TPC 114.80 56 ePKP 57 35.00 1.9
LRM 115.06 43 ePKP 57 34.00 0.5
GLA 115.96 57 ePKP 57 38.00 2.6
CDF 116.23 321 ePKP 57 35.70 0.3
PCP 116.61 316 PKP 57 36.18 -0.1
ORX 116.67 318 PKP 57 36.08 -0.3
BSF 116.73 320 ePKP 57 35.90 -0.5
0.7s 11.00nm
PGF 116.85 314 ePKP 57 36.50 -0.3
0.3s 6.80nm
HAU 116.95 321 ePKP 57 36.50 -0.2
0.7s 6.60nm
ROB 117.15 316 PKP 57 36.59 -0.7
IMI 117.25 316 PKP 57 37.41 -0.1
LSD 117.27 318 PKP 57 37.93 0.2
RSP 117.30 317 PKP 57 37.21 -0.4
BHB 117.39 317 PKP 57 36.39 -1.3
ENR 117.48 316 PKP 57 36.29 -1.7
LPG 117.53 318 ePKP 57 38.20 -0.1
0.3s 5.55nm
STV 117.54 316 PKP 57 36.70 -1.4
LPL 117.54 318 ePKP 57 38.20 0.0
0.3s 11.10nm
SBF 117.57 316 ePKP 57 37.70 -0.4
0.7s 8.80nm
PZZ 117.61 317 PKP 57 37.00 -1.3
RRL 117.69 317 PKP 57 38.44 -0.1
FFC 117.83 31 ePKP 57 39.00 0.8
0.9s 13.00nm
BW06 117.92 45 PKP 57 39.50 0.4
FRF 118.21 316 ePKP 57 39.50 0.3
0.3s 2.55nm
LMR 118.38 316 ePKP 57 39.50 0.0
LRG 118.44 316 ePKP 57 39.90 0.3
0.7s 8.80nm
Z 21s 0.13um 4.5Msz
LOR 118.79 321 ePKP 57 40.20 0.0
0.4s 4.00nm
Z 21s 0.13um 4.5Msz
LBF 118.82 320 ePKP 57 40.20 -0.2
0.4s 4.00nm
EKA 118.99 331 PKP 57 42.00 1.7
0.4s 3.30nm
SMF 119.03 320 ePKP 57 40.80 0.1
0.3s 3.85nm
SSF 119.09 320 ePKP 57 41.00 0.2
0.4s 7.45nm
AVF 119.29 320 ePKP 57 41.00 -0.2
0.3s 4.70nm
PV09 119.40 50 PKP 57 42.80 0.7
BGF 119.70 320 ePKP 57 42.30 0.3
0.6s 18.05nm
MAF 120.01 320 ePKP 57 42.70 0.1
TCF 120.21 320 ePKP 57 43.30 0.3
0.4s 4.30nm
LSF 120.66 320 ePKP 57 43.70 -0.1
LDF 120.68 323 ePKP 57 43.90 0.1
FLN 120.82 323 ePKP 57 44.10 0.1
Z 21s 0.17um 4.7Msz
CAF 120.83 319 ePKP 57 44.90 0.7
0.7s 5.50nm
RJF 121.04 319 ePKP 57 44.90 0.3
GRR 121.21 323 ePKP 57 45.00 0.2
RSSD 121.26 42 PKP 57 45.20 -0.1
LPF 121.48 323 ePKP 57 45.50 0.2
0.7s 11.00nm
LPO 121.50 319 ePKP 57 46.20 0.7
0.7s 6.60nm
MFF 121.57 321 ePKP 57 45.60 0.1
0.6s 9.00nm
LFF 121.69 319 ePKP 57 46.50 0.7
GOL 121.86 48 PKP 57 47.30 0.6
0.8s 5.95nm
GLD 121.95 47 PKP 57 49.00 2.3
FRB 122.36 9 ePKP 57 47.00 0.6
ALQ 122.40 53 ePKP 57 48.50 0.8
EPF 122.71 317 ePKP 57 48.20 0.3
0.3s 4.05nm
GUD 126.75 316 ePKP 57 57.50 1.5
FVM 133.18 43 PKP 58 09.40 1.3
KIC 134.00 272 PKP 58 11.76 1.5
LIC 134.27 271 PKP 58 12.16 1.4
TIC 134.30 272 PKP 58 12.14 1.3
LKO 134.98 276 PKP 58 13.88 1.7
BLA 140.10 38 PKP 58 12.60 -8.5X
MBO 145.81 285 iPKPd 58 34.40 3.0X
ITB7 147.55 175 PKPc 58 38.20 4.1X
ITB 147.87 175 ePKP 58 39.20 4.6X
NNA 147.95 127 iPKP 58 38.00 3.0X
1.0s 92.00nm
ITB1 148.00 174 ePKP 58 39.50 4.8X
BMA 149.34 193 ePKP 58 43.20 6.2X
e 58 43.90
e 58 47.30
e 58 49.60
VAO 149.53 187 iPKPc 58 43.40 6.1X
e 58 46.80
e 59 16.70
JFO 150.08 195 ePKP 58 46.00 7.9X
e 58 52.30
CNCB 150.72 145 iPKPc 58 42.80 3.0X
i 58 48.00
PPD 150.76 180 ePKP 58 40.60 1.5
e 58 45.60
LPB 150.87 145 PKPc 58 40.50 0.6
1.1s 177.22nm
i 58 46.20
ZOBO 151.07 144 PKPc 58 42.20 1.8
0.9s 92.99nm
Z 21s 0.11um 4.6Msz
i 58 48.00
LR 51 00.00
CCH 151.24 149 ePKP 58 48.00 7.7X
i 58 49.00
UPA 151.79 85 ePKPc 58 47.80 7.0X
SIV 154.75 157 PKP 58 45.60 0.8
SOB1 160.64 212 ePKP 58 55.00 3.0X
S.D. = 1.0 on 162 of 199 obs.

FEB 25, 1991 07h 25m 58.41± 0.24s
41.310 N ± 2.9km 20.252 E ± 2.5km
DEPTH = 31.7 ± 2.8 km
4.5mb (9 obs.)
ALBANIA (391)
ML 4.5 (SKO), 4.2 (ZAG). Felt (IV) in the Debar area, Yugoslavia.

TIR 0.29 277 eP 26 04.50 -1.4
eS 26 08.50
OHR 0.46 116 iPgc 26 06.20 -2.2
iSg 26 13.10
LACI 0.52 309 eP 26 07.60 -1.7
eS 26 15.70
BERA 0.65 201 eP 26 10.30 -0.9
eS 26 22.20
PUK 0.78 340 eP 26 11.00 -2.0
eS 26 24.00
KBN 0.81 148 eP 26 12.50 -0.9
eS 26 25.00
SDA 0.90 322 eP 26 15.00 0.2
eS 26 30.00
ULC 0.99 311 iPg 26 15.60 -0.6
iSg 26 32.00
FNA 1.00 121 eP 26 16.60 0.3
VLO 1.02 215 eP 26 18.60 2.1
eS 26 36.40
BCI 1.06 353 eP 26 16.90 -0.2
eS 26 34.40
SKO 1.11 53 iPgc 26 16.30 -1.5
iSg 26 31.30
LSK 1.19 167 eP 26 20.20 1.2
eS 26 39.20
PVY 1.30 351 iPg 26 21.00 0.4
iSg 26 41.90
TTG 1.34 327 iPg 26 22.00 1.0
iSg 26 43.00
BDV 1.44 313 iPg 26 24.00 1.4
iSg 26 47.30
SRN 1.44 188 eP 26 26.10 3.6X
eS 26 46.80
KZN 1.53 131 ePn 26 24.00 0.1
IVA 1.58 351 iPg 26 26.00 1.3
iSg 26 53.00
KEK 1.63 192 eP 26 27.60 2.3X
GRG 1.66 102 eP 26 26.10 0.3
eS 26 48.20
HCY 1.73 312 iPn 26 29.00 2.2
eSn 26 55.00
VAY 1.75 89 iPn 26 27.20 0.2
0.7s 1574.00nm
i 26 46.30
iSn 26 49.00
Lg 26 56.40
NKY 1.77 329 iPn 26 29.50 2.1
eSn 26 59.00
IGT 1.78 178 eP 26 29.40 2.0
LCI 2.00 242 P 26 30.10 -0.5
eSn 26 54.30
KNT 2.00 93 eP 26 30.60 -0.1
eS 26 57.10
BRY 2.03 322 iPn 26 33.50 2.2
eSn 27 04.20
LIT 2.09 125 eP 26 33.20 1.3
eS 27 00.50
PLE 2.12 343 iPn 26 35.00 2.6X
eSn 27 04.00
THE 2.16 107 eP 26 33.50 0.6
BRT 2.34 260 P 26 37.40 1.9
eSn 27 10.00
SOH 2.40 101 eP 26 36.30 0.0
SRS 2.53 93 eP 26 37.60 -0.6
VTS 2.55 59 iP 26 38.00 -0.6
PLG 2.60 110 eP 26 39.00 -0.2
MMB 2.63 83 ePgd 26 40.00 0.4
EVR 2.67 153 eP 26 43.20 2.9X
AGG 2.79 144 eP 26 43.40 1.6
PAIG 2.95 117 eP 26 44.70 0.6
NEO 3.03 130 eP 26 46.00 0.7
VLS 3.14 175 eP 26 46.00 -0.8
ORI 3.15 248 P 26 47.20 0.3
PGB 3.17 66 iP 26 47.00 -0.3
RZN 3.37 82 iP 26 50.00 -0.4
HVAR 3.38 305 iPnd 26 51.20 0.9
i(Sn) 27 39.20
TDS 3.41 242 P 26 51.10 0.4
BEO 3.51 2 ePn 26 53.50 1.4
iSn 27 36.00
iSg 27 53.40
MGR 3.76 253 P 26 56.30 0.8
SGO 3.82 260 P 26 56.90 0.5
eSn 27 44.00
KDZ 3.90 83 iPd 26 57.00 -0.5
RDO 3.99 91 eP 26 58.00 -0.9
DIM 4.02 78 ePg 27 12.00 12.6X
BLY 4.11 328 eP 27 05.10 4.6X
eS 27 55.10
PVL 4.22 62 eP 27 05.00 2.8X
ITM 4.33 162 eP 27 04.00 0.3
DUI 4.37 277 P 27 05.00 0.7
ALN 4.40 93 eP 27 03.00 -1.7
DRA 4.47 40 eP 27 25.00 19.3X
SOI 4.58 226 P 27 06.40 -0.8
eSn 27 59.00
SDI 4.85 277 P 27 11.70 0.6
eSn 28 08.00
JMB 4.87 74 eP 27 19.00 7.7X
VLI 5.04 155 eP 27 12.70 -1.1
AZI 5.15 280 P 27 15.20 -0.1
TNR 5.23 33 ePc 27 19.00 2.5X

CMP	5.28	40	ePc	27	04.00	-13.1X
ZAG	5.47	327	ePn	27	23.00	3.3X
			iPg	27	41.50	
			iSg	28	52.50	
PTJ	5.55	327	ePn	27	20.90	0.0
			eSn	28	23.60	
MNS	5.76	283	P	27	24.50	0.6
ARV	5.84	294	P	27	24.00	-1.1
TIH	5.84	344	eP	27	27.10	2.1
RIY	5.88	315	ePn	27	24.40	-1.2
MLR	5.89	43	eP	27	27.50	1.7
			e	54	21.00	
ASS	5.91	290	P	27	26.00	-0.1
ISR	5.98	48	eP	27	43.50	16.4X
BUD	6.23	352	e(P)	27	32.00	1.4
RSM	6.32	297	P	27	33.50	1.7
TRI	6.45	315	iPnd	27	31.60	-2.0
			iSn	28	44.00	
			i	29	27.30	
VRI	6.55	44	eP	27	42.00	7.0X
CRE	6.56	293	P	27	35.50	0.2
SRO	6.65	349	eP	27	36.10	-0.2
			i	28	15.40	
SFI	6.72	296	P	27	38.00	0.6
			eSn	28	51.00	
PGD	6.80	295	P	27	38.00	-0.7
ZST	7.24	343	eP	27	33.80	-10.8X
			e	27	50.40	
			i	29	10.70	
FVI	7.54	317	P	27	48.70	-0.2
MME	7.60	295	P	27	49.70	-0.3
KBA	7.61	322	iPnc	27	50.30	0.3
			iSn	29	19.40	
CTI	7.83	310	P	27	50.80	-2.2
PGF	8.48	282	eP	28	00.60	-1.5
	0.5s		5.85nm			5.0mb
BOB	8.63	297	P	28	02.80	-1.4
SOTA	8.77	315	iPnd	28	05.80	-0.3
			iSn	29	47.70	
KHC	9.12	331	Pn	28	15.00	4.1X
PRU	9.55	337	ePn	28	24.50	7.8X
			e	28	48.50	
			e	29	16.50	
			Sn	30	24.00	
LPG	10.68	298	eP	28	30.00	-2.5X
	0.4s		4.00nm			5.0mb
LPL	10.69	298	eP	28	30.20	-2.5X
	0.4s		2.85nm			4.8mb
BSF	11.60	309	eP	28	42.00	-2.8X
	0.5s		4.35nm			4.9mb
CDF	11.62	312	eP	28	41.40	-3.7X
SMF	12.96	300	eP	28	59.50	-3.5X
LBF	12.98	301	eP	28	59.50	-3.8X
LOR	13.16	302	eP	29	00.50	-5.1X
	0.5s		3.65nm			4.7mb
HFS	19.28	350	eP	30	23.60	0.5
	0.4s		1.50nm			3.6mb
NB2	20.51	347	P	30	34.00	-2.3X
	0.9s		4.40nm			3.8mb
EKA	20.82	320	P	30	44.00	4.6X
	1.5s		18.80nm			4.3mb
YKA	70.38	340	eP	37	11.30	0.5
	0.8s		0.50nm			3.6mb
	S.D. = 1.2		on 78 of 104 obs.			

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* FEB 25, 1991 08h 24m 43.87± 2.91s
13.243 N ± 4.6km 57.576 W ±26.0km
DEPTH = 33.0km (normal)
NORTH ATLANTIC OCEAN (402)
MD 4.3 (TRN).

SLW	3.36	284	eP	25	35.24	-0.1
			eS	26	14.36	
SLB	3.42	280	eP	25	35.71	-0.5
			eS	26	15.38	
MVM	3.48	292	iPc	25	36.96	-0.1
			S	26	16.80	
SVV	3.54	272	eP	25	38.06	0.1
			eS	26	18.19	
CRM	3.57	295	eP	25	38.89	0.5
SVB	3.58	271	eP	25	38.24	-0.2
			eS	26	18.89	
BIM	3.62	291	iPc	25	39.09	0.0
			S	26	19.50	
BOT	3.70	236	eP	25	40.50	0.4
			eS	26	20.47	
FDF	3.77	294	iPc	25	41.47	0.3
	0.1s		2.80nm			
			S	26	22.00	
TBH	4.38	232	eP	25	50.28	0.4
			eS	26	36.29	
BBL	4.41	301	eP	25	50.70	0.4
			S	26	34.40	
DEG	4.55	313	eP	25	51.61	-0.6
			S	26	41.00	
TRN	4.55	236	eP	25	51.74	-0.4
			eS	26	39.75	
TPP	4.78	233	eP	25	54.95	-0.5
			eS	26	45.39	
DOG	4.79	306	eP	25	55.80	0.1
TCE	4.81	239	eP	25	56.05	0.2
			eS	26	46.26	
PAG	4.84	305	eP	25	55.90	-0.5
SEG	4.93	310	eP	25	58.04	0.4
	S.D. = 0.4		on 18 of 18 obs.			

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* FEB 25, 1991 09h 13m 40.31± 2.04s
22.714 N ±18.7km 121.583 E ±11.6km
DEPTH = 10.0km (geophysicist)
3.6mb (1 obs.)
TAIWAN REGION (243)

TWG	0.48	283	iPc	13	49.80	-0.3
			eS	13	53.00	
TWF1	0.69	338	iPd	13	54.30	0.4
TWM1	1.07	276	ePd	14	01.30	0.8
TWK	1.15	299	ePd	14	01.20	-0.6
			eS	14	13.10	
TWC	1.90	7	eP	14	16.80	3.7X
YKA	84.18	23	eP	26	12.60	-0.2
	0.5s		0.20nm			3.6mb
	S.D. = 0.8		on 5 of 6 obs.			

FEB 25, 1991 09h 21m 45.60± 0.30s
44.032 N ± 2.6km 7.662 E ± 2.5km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.3 (GEN).

SAOF	0.09	240	Pg	21	48.07	-0.2
AUTN	0.17	258	Pg	21	49.74	0.1
			Sg	21	56.17	
IMI	0.20	126	P	21	50.40	0.3
			S	21	53.72	
SBF	0.24	224	Pg	21	51.04	0.4
ENR	0.26	318	P	21	51.19	0.0
			S	21	54.77	
AURF	0.28	239	Pg	21	51.93	0.4
			Sg	21	58.60	
TOUF	0.30	267	Pg	21	52.27	0.3
ROB	0.30	30	P	21	52.30	0.4
			S	21	56.75	
STV	0.32	311	P	21	52.16	-0.2
			S	21	56.54	
REVF	0.36	216	Pg	21	53.12	0.1
			Sg	22	01.59	
FIN	0.43	66	P	21	54.29	-0.1
			S	22	00.54	
DOI	0.56	328	P	21	57.00	0.0
			eSg	22	05.00	
CKI	0.59	48	P	21	58.00	0.4
			eSg	22	06.00	
PZZ	0.62	320	P	21	58.02	-0.2
			S	22	06.08	
CALN	0.62	244	Pg	21	58.45	0.2
PCP	0.81	51	P	22	02.02	0.6
BHB	0.86	341	P	22	01.27	-0.9
			S	22	12.22	
RRL	1.09	325	P	22	06.12	-0.1
CDR	1.42	256	eP	22	11.20	-0.2
			e	22	31.20	
PGF	1.78	146	Pg	22	15.28	-1.4
	S.D. = 0.5		on 20 of 20 obs.			

FEB 25, 1991 09h 42m 24.24± 0.95s
23.800 N ± 6.4km 121.782 E ± 9.0km
DEPTH = 30.8 ± 6.0 km
4.6mb (6 obs.)
TAIWAN (244)

TWD	0.33	329	iPd	42	30.00	-2.1
			eS	42	33.20	
TWF1	0.63	225	iPc	42	37.10	0.3
TWC	0.81	4	ePc	42	39.20	-0.1
			eS	42	49.80	
TWG	1.17	214	eP	42	46.40	1.8
			eS	43	02.20	
TWZ	1.30	352	eP	42	46.10	-0.3
ANP	1.40	350	iP	42	49.30	1.4
			eS	43	03.40	
OZH	3.12	292	Pnc	43	09.00	-3.5X
Z	12s		5.40um			
SSE	7.29	356	eP	44	08.00	-3.2X
Z	14s		1.80um			
N	10s		1.00um			
			pP	44	12.50	
			S	45	28.50	
GZH	7.78	266	eP	44	19.30	1.1
Z	14s		2.00um			
E	13s		2.10um			
NJ2	8.62	343	Pc	44	26.00	-3.8X
	0.6s		100.00nm			6.2mb X
Z	10s		1.50um			4.7Msz
			pP	44	34.00	
WHN	9.43	317	eP	44	36.00	-5.0X
Z	14s		1.20um			
N	10s		1.50um			
E	10s		1.30um			
			eS	46	22.50	
QIZ	12.09	249	eP	45	21.30	3.9X
			eS	47	37.30	
TIA	13.01	343	eP	45	25.60	-3.9X
N	11s		0.90um			
E	13s		1.40um			
GYA	13.95	284	P	45	41.00	-1.1
N	10s		1.30um			
E	10s		1.40um			
XAN	15.18	315	iPd	46	03.00	4.9X
E	11s		0.60um			
TIY	16.01	332	iP	46	11.10	2.2
Z	13s		1.60um			
N	12s		1.40um			
BJI	16.87	345	eP	46	21.00	1.4
Z	12s		0.60um			
N	11s		0.57um			
CD2	17.50	298	eP	46	28.50	0.9
Z	12s		3.20um			
E	11s		1.40um			
HHC	19.04	336	P	46	45.00	-1.6
BTO	19.45	332	eP	46	51.00	-0.4
N	11s		1.40um			
E	11s		0.70um			
LZH	19.75	312	eP	46	54.00	-0.8
	2.0s		54.00nm			4.5mb
Z	15s		1.20um			4.2Msz
N	10s		0.57um			
E	10s		0.61um			
			pP	47	02.00	31kmX
			sP	47	06.00	
			eS	50	28.00	
CN2	20.18	8	eP	47	02.40	3.4X
Z	13s		1.80um			4.6MszX
			epP	47	08.00	21kmX
			eS	50	38.00	
CHG	21.84	261	eP	47	16.10	0.0
	1.1s		22.78nm			4.5mb
GTA	24.24	315	Pd	47	39.80	0.2
	1.6s		50.00nm			4.8mb
GUN	32.49	285	P	48	54.60	-0.2
PKI	32.92	284	P	48	57.40	-1.1
KKN	33.03	285	P	48	58.60	-0.7
DMN	33.19	284	P	49	00.00	-0.7
GKN	33.59	285	P	49	02.90	-1.2
WMO	34.31	314	P	49	12.00	1.9
GBA	43.06	265	Pc	50	27.20	4.0X
	0.7s		2.00nm			4.0mb
WRA	45.17	163	eP	50	39.40	-0.7
WB2	45.17	163	eP	50	39.40	-0.8
INK	73.38	22	eP	53	54.00	-0.6
YKA	83.11	23	eP	54	48.00	-0.1
	0.7s		2.70nm			4.5mb
FFC	93.26	24	eP	55	38.40	1.4
	0.8s		7.00nm			5.1mb
	S.D. = 1.2		on 27 of 36 obs.			

FEB 25, 1991 09h 48m 41.22± 0.39s
37.246 N ± 4.2km 114.289 W ± 3.5km
DEPTH = 10.0km (geophysicist)
SOUTHERN NEVADA (41)
ML 3.5 (GS).

25d 09h

DLM	0.51	315	P	48 51.80	0.2
SRG	0.89	316	P	48 58.60	0.2
CCU	1.06	66	P	49 01.10	-0.3
MSU	2.10	52	iPc	49 17.00	-0.1
TNP	2.47	291	eP	49 22.20	-0.2
DUG	3.16	21	eP	49 35.80	3.7X
BONR	3.26	284	eP	49 33.30	-0.5
KVN	3.50	302	P	49 36.50	-0.5
DAU	3.95	36	e(P)	49 50.00	6.5X
PEC	4.08	216	eP	49 45.50	0.4
GLA	4.21	186	eP	49 46.50	-0.4
PV09	4.27	71	eP	49 48.00	0.0
PLM	4.42	209	eP	49 50.30	0.3
CMB	4.90	281	eP	49 56.90	0.1
BW06	6.61	32	eP	50 21.50	0.5
GOL	7.41	68	e(P)	50 34.50	2.2X

S.D. = 0.4 on 13 of 16 obs.

• FEB 25, 1991 10h 46m 48.96± 0.93s
38.158 N ±11.9km 73.981 E ±21.1km
DEPTH = 33.0km (normal)
3.8mb (1 obs.)
TAJIK-XINJIANG BORDER REGION (719)

NDI	9.83	163	eP	49 10.00	-1.0
			eS	50 54.00	
GKN	13.49	136	P	50 00.40	-0.2
KKN	14.02	134	P	50 07.40	-0.2
DMN	14.06	135	P	50 08.20	0.0
PKI	14.26	134	P	50 10.40	-0.4
GUN	14.27	132	P	50 12.00	1.0
GBA	24.65	172	P	52 09.00	1.2
MBC	65.56	3	eP	57 31.00	0.1
INK	71.87	10	eP	58 11.00	1.0
YKA	79.46	4	eP	58 51.60	-1.4
	0.5s		0.50nm	3.8mb	

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

• FEB 25, 1991 10h 52m 33.90± 0.52s
34.695 N ± 8.2km 79.059 E ±11.4km
DEPTH = 33.0km (normal)
4.6mb (6 obs.)
KASHMIR-TIBET BORDER REGION (304)

NDI	6.19	195	iP	54 06.50	1.0
	0.6s		26.67nm	5.1mb	
			iS	55 16.00	
GKN	8.20	143	P	54 34.40	0.7
KKN	8.70	141	P	54 39.40	-1.2
DMN	8.76	142	P	54 41.80	0.3
GUN	8.93	137	P	54 43.40	-0.5
PKI	8.94	141	P	54 44.20	0.1
MLR	41.36	302	eP	00 36.00	17.6X
NUR	43.14	324	eP	00 40.00	7.4X
KEV	44.96	337	eP	00 41.00	-6.2X
HFS	48.51	323	eP	01 15.70	0.4
	0.4s		1.40nm	4.3mb	
NB2	49.74	324	P	01 24.20	-0.6
	0.7s		2.30nm	4.3mb	
CDR	55.82	303	eP	02 01.60	-8.6X
			e	02 08.00	
BCAO	63.40	256	iPc	03 01.40	-1.3
	0.5s		13.00nm	5.3mb	
MBC	68.71	5	ePc	03 36.50	0.7
	0.9s		9.00nm	4.8mb	
INK	74.46	12	ePd	04 10.90	0.7
YKA	82.53	6	eP	04 53.80	-0.4
	0.8s		1.30nm	4.0mb	

S.D. = 0.9 on 12 of 16 obs.

FEB 25, 1991 11h 30m 11.55± 0.25s
44.052 N ± 2.5km 7.672 E ± 2.1km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 3.7 (GEN), 3.3 (LDG).

SAOF	0.11	232	Pg	30 13.37	-1.0
AUTN	0.19	252	Pg	30 15.04	-0.8
IMI	0.21	132	Pd	30 15.64	-0.5
ENR	0.25	314	Pd	30 16.40	-0.5
SBF	0.25	222	Pg	30 16.28	-0.7
ROB	0.28	30	Pd	30 17.50	0.0
			S	30 22.05	
AURF	0.30	237	Pg	30 17.09	-0.7
			Sg	30 21.37	
TOUF	0.31	263	Pg	30 17.43	-0.6
STV	0.32	308	Pd	30 17.52	-0.6
			S	30 21.66	
REVF	0.38	215	Pg	30 18.40	-1.0
			Sg	30 24.55	
FIN	0.42	68	Pc	30 19.74	-0.3
			S	30 25.91	
DOI	0.55	326	P	30 22.00	-0.6
			eSg	30 30.20	
CKI	0.57	49	Pc	30 22.60	-0.6
			eSg	30 31.70	
PZZ	0.61	318	P	30 23.07	-0.9
			S	30 31.28	
CALN	0.64	242	Pg	30 23.93	-0.6
			Sg	30 31.66	
SURF	0.75	305	Pg	30 25.74	-0.7
PCP	0.80	52	P	30 26.62	-0.4
			S	30 38.08	
FOUF	0.80	307	ePgd	30 26.11	-0.9
			i	30 26.88	
			e(Sg)	30 33.24	
BHB	0.84	340	Pd	30 26.80	-1.0
			S	30 37.07	
FRF	0.89	237	Pg	30 28.20	-0.4
			Sg	30 39.60	
RRL	1.08	324	Pd	30 31.15	-0.8
			S	30 45.25	
LMR	1.11	230	Pg	30 32.00	-0.3
			Sg	30 46.60	
LRG	1.12	238	Pg	30 32.60	0.0
			Sg	30 48.00	
RSP	1.14	345	Pc	30 31.48	-1.5
			S	30 46.54	
BNI	1.23	325	Pc	30 34.10	-0.4
			eSg	30 52.60	
TAVF	1.25	250	Pg	30 37.04	2.3
VILF	1.43	263	Pg	30 39.93	2.4
			Sg	30 58.26	
CDR	1.43	255	e(Pg)d	30 37.30	-0.2
			i(Sg)	30 52.20	
			i	30 53.50	
LSD	1.45	346	P	30 36.71	-1.4
			S	30 56.40	
BOB	1.46	60	Pc	30 38.50	0.5
			eSg	30 59.00	
PUYF	1.52	251	Pg	30 40.44	1.6
			Sg	30 59.31	
LPG	1.59	336	Pn	30 40.00	0.0
ORO	1.59	8	P	30 39.70	-0.2
			eSg	31 01.60	
ORX	1.60	8	P	30 39.11	-0.9
			S	30 57.59	
LPL	1.61	336	Pn	30 40.40	0.1
BERF	1.62	244	Pg	30 42.63	2.4
			Sg	31 03.09	
TREF	1.71	256	Pn	30 43.04	1.5
			Sg	31 06.34	
GELF	1.76	248	Pn	30 43.61	1.3
			Sg	31 06.84	
PGF	1.79	147	Pn	30 40.48	-2.3
RSL	1.80	336	Pn	30 44.30	1.3
GRN	1.82	312	Pn	30 46.01	2.8X
PRAF	1.83	263	Pn	30 44.66	1.4
VAI	1.98	23	P	30 46.00	0.7
			eSn	31 10.00	
MMK	2.01	6	eP	30 45.90	-0.2
DIX	2.04	355	eP	30 46.30	-0.2
EMS	2.09	346	eP	30 48.50	1.3
BDI	2.11	89	Pc	30 46.60	-0.8
			eSn	31 14.00	
MME	2.19	85	P	30 48.50	-0.2
			eSn	31 16.90	
MDI	2.25	39	P	30 51.30	1.9
			eSn	31 16.00	
VDL	2.75	27	eP	30 58.00	1.4
PGD	2.93	92	P	30 57.20	-2.0
			eSn	31 29.90	
LLS	2.97	18	eP	31 00.50	0.8
SFI	3.02	91	P	30 59.70	-0.5
			eSn	31 35.00	
CRE	3.13	96	P	31 01.60	-0.3
			(Sn)	31 37.80	
OSS	3.16	33	eP	31 04.20	1.8
RSM	3.45	90	P	31 12.60	6.2X
CTI	3.45	53	P	31 06.60	0.0
SMF	3.74	315	Pn	31 11.00	0.4
			Sn	31 55.00	
ASS	3.76	103	P	31 12.00	1.2
SLE	3.76	8	eP	31 10.80	0.0
BSF	3.83	351	Pn	31 11.00	-0.9
			Sn	31 56.20	
LBF	3.92	320	Pn	31 13.20	0.1
			Sn	31 57.20	
HAU	4.06	347	Pn	31 14.20	-0.8
			Sn	32 02.00	
AVF	4.09	314	Pn	31 15.60	0.1
CAF	4.11	284	Pn	31 15.20	-0.5
			Sn	32 03.50	
LOR	4.18	322	Pn	31 16.40	-0.4
SSF	4.20	317	Pn	31 17.00	0.0
MAF	4.21	303	Pn	31 17.80	0.5
BGF	4.23	308	Pn	31 17.30	-0.1
			Pg	31 31.50	
			Sg	32 28.00	
CDF	4.37	357	Pn	31 19.20	-0.3
FVI	4.41	53	P	31 21.20	1.2
TCF	4.46	302	Pn	31 21.20	0.4
RJF	4.57	288	Pn	31 22.60	0.4
TRI	4.64	67	eP	32 11.70	48.5X
			e	32 46.20	
LPO	4.69	280	Pn	31 23.40	-0.7
KBA	5.00	51	ePn	31 31.00	2.4
			e	32 31.00	
			i(Sn)	32 35.80	
GRF	6.14	22	e(Pg)	32 17.00	32.5X
			e(Sg)	32 53.00	

S.D. = 1.0 on 73 of 77 obs.

• FEB 25, 1991 11h 44m 10.25± 1.14s
23.238 S ± 7.0km 70.476 W ±11.2km
DEPTH = 37.2 ± 10.3 km
4.7mb (6 obs.)
NEAR COAST OF NORTHERN CHILE (122)

ANT	0.47	173	iPd	44 21.30	0.9
			iS	44 28.00	
CNCB	6.81	21	iP	45 53.10	2.2
			S	47 30.00	
LPB	7.04	19	eP	45 53.00	-0.9
	1.0s		100.00nm	5.7mb X	
			S	47 32.00	
			LR	48 30.00	
CCH	7.10	36	P	46 04.20	9.4X
ZOBO	7.28	18	P	45 58.30	0.8
Z	18s		1.08um		
			LR	48 47.00	
TCA	9.61	148	ePd	46 27.40	-1.9
			(S)	48 26.80	
PEL	9.87	181	eP	46 45.00	12.2X
LNV	10.71	184	eP	47 00.00	15.8X
SIV	11.42	53	Pd	46 52.00	-2.0
PPD	17.73	90	eP	48 20.60	4.5X
VAO	21.62	94	eP	48 58.30	-1.0
			e	49 02.90	
BMA	24.23	94	(P)	49 26.00	1.1
SOB1	31.56	69	eP	50 31.70	0.1
RSCP	60.24	346	iP	54 15.50	-1.6
	1.0s		8.68nm	4.8mb	
FVM	63.72	343	iP	54 39.50	-0.9
	1.0s		10.00nm	4.9mb	
SPA	66.90	180	eP	55 02.00	1.2
	1.0s		8.50nm	4.8mb	
LIC	70.26	74	P	55 22.90	0.7
TIC	70.46	74	P	55 24.30	0.9
KIC	70.58	74	P	55 24.90	0.8
GOL	70.58	332	eP	55 23.00	-1.0
LKO	71.31	71	P	55 28.92	0.3
TNP	75.14	324	eP	55 51.00	0.2
	1.0s		2.00nm	4.1mb	
SES	81.62	335	eP	56 26.00	0.3
FFC	82.22	342	eP	56 28.00	-0.6
	1.0s		10.00nm	4.8mb	
FRB	86.71	1	eP	56 52.00	1.1
YKA	92.34	341	eP	57 16.90	-0.6
	0.8s		1.00nm	4.3mb	
GBA	148.15	102	PKP	03 55.90	4.8X
HYB	150.42	96	ePKP	04 12.00	17.4X
GKN	157.08	73	PKP	04 00.00	-3.8X

S.D. = 1.2 on 22 of 29 obs.

FEB 25, 1991 12h 12m 35.43± 0.52s
36.441 N ± 7.6km 70.896 E ± 8.5km
DEPTH = 195.5km (2 depth phases)
4.4mb (8 obs.)
HINDU KUSH REGION (718)

```
KSH      5.02   52 P      13 51.50   0.8
                   S      14 51.50
NDI      9.39  144 iPc    14 47.30  -0.4
        0.6s     66.67nm          5.2mb
                   iS     16 25.00
GKN     14.34  122 P      15 49.60  -1.4
WMQ     14.80   55 eP     15 56.20  -0.3
DMN     14.91  122 P      15 57.50  -0.7
KKN     14.92  121 P      15 57.00  -1.2
PKI     15.14  122 P      16 00.90  -0.2
GUN     15.26  120 P      16 02.30  -0.3
GTA     22.96   74 Pd     17 26.00   2.3
        0.8s     10.00nm          4.5mb
GBA     23.49  164 P      17 30.70   2.0
                   S      21 30.70
KOD     26.76  166 eP     18 00.90   1.6
HFS     43.06  322 eP     20 16.20  -0.9
        0.4s      2.60nm          4.1mb
NB2     44.38  323 P      20 27.30  -0.4
        0.7s      4.50nm          4.1mb
DAG     54.79  344 iPc    21 46.00  -0.5
        0.6s      4.00nm          4.3mb
BCAO    57.56  249 iPc    22 06.50  -0.5
        1.0s     18.00nm          4.8mb
MBC     67.40    3 eP     23 11.50   0.5
        1.0s     14.00nm          4.7mb
                   pP     23 57.50 195km
INK     73.98    9 eP     23 50.50   0.1
                   pP     24 37.50 196km
YKA     81.31    3 eP     24 30.50   0.0
        0.4s      2.30nm          4.3mb
WB2     82.04  122 iPc    24 34.50  -0.6
     S.D. = 1.1   on  19 of  19 obs.
-------------------------------------
   FEB  25, 1991  12h 39m 35.88± 0.49s
   38.990 N ± 5.1km   19.709 E ± 4.3km
   DEPTH =  10.0km  (geophysicist)
 IONIAN SEA                      (399)
     MD 3.5 (ATH).

KEK      0.73    5 eP     39 49.60  -0.5
SRN      0.92   14 eP     39 54.00   0.6
                   eS     40 06.10
VLS      1.07  139 eP     39 56.50   0.6
LSK      1.35   30 eP     40 00.40  -0.3
                   eS     40 16.20
VLO      1.49  354 eP     40 03.20   0.6
                   eS     40 22.70
EVR      1.64   92 eP     40 05.80   0.9
BERA     1.72    6 eP     40 04.10  -1.9
KBN      1.84   27 eP     40 08.60   0.9
LCI      1.91  315 P      40 10.00   1.3
AGG      2.04   88 eP     40 12.40   1.7
KZN      2.06   50 eP     40 10.00  -1.1
FNA      2.20   35 eP     40 12.50  -0.6
OHR      2.28   21 iPnd   40 13.80  -0.4
                   iSg    40 40.00
                   Lg     40 41.80
TIR      2.36    3 eP     40 17.00   1.8
                   eS     40 41.00
LIT      2.42   62 eP     40 17.00   0.9
                   eS     40 45.30
ITM      2.52  135 eP     40 17.80   0.3
LACI     2.64  360 eP     40 22.80   3.5X
BRT      2.70  315 P      40 24.50   4.4X
                   eSn    40 58.50
TDS      2.70  285 P      40 19.00  -1.1
ORI      2.74  294 P      40 23.80   3.1X
SOI      3.01  253 P      40 23.00  -1.4
                   eSn    40 53.00
PLG      3.20   63 eP     40 25.00  -2.2
VAY      3.20   42 ePn    40 24.00  -3.1X
SKO      3.26   23 ePn    40 34.50   6.5X
        0.3s    186.00nm
                   i      40 53.40
                   iSg    41 01.50
                   Lg     41 05.40
SOH      3.35   56 eP     40 29.00  -0.3
MGR      3.41  291 P      40 31.00   0.8
VLI      3.42  131 eP     40 30.00  -0.3
ATN      3.43  257 P      40 29.30  -1.2
                   eSn    41 06.50
SRS      3.66   53 eP     40 32.80  -1.0
SGO      3.74  296 P      40 36.50   1.7
     S.D. = 1.2   on  25 of  30 obs.
-------------------------------------
% FEB  25, 1991  13h 20m 56.87± 1.39s
   43.015 N ± 7.7km   12.831 E ±15.2km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                   (381)

ASS      0.14  294 Pd     20 58.80  -1.4
                   eSg    21 01.30
ARV      0.49   10 P      21 06.40  -0.4
                   eSg    21 14.50
MNS      0.64  190 P      21 10.00   0.3
                   eSg    21 19.00
CRE      0.89  314 P      21 14.40   0.4
SFI      1.15  322 P      21 19.50   1.1
                   eSg    21 34.80
     S.D. = 1.3   on   5 of   5 obs.
-------------------------------------
   FEB  25, 1991  14h 30m 27.62± 0.12s
   40.386 N ± 3.3km   78.959 E ± 2.0km
   DEPTH =  20.6km  ( 14 depth phases)
   5.5mb ( 82 obs.)  6.1Msz ( 28 obs.)
 SOUTHERN XINJIANG, CHINA        (321)
      Three people were injured and at
      least 120 houses collapsed and
      8,441 houses damaged in the
      Kalpin area. Ground crocks and
      earthquake lights were reported
      in the epicentral area. Felt at
      Akqi, Aksu, Bachu and Wasi.
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 17S, 43C
      Centroid Location:
      Origin Time        14:30:34.6 0.3
      Lat 40.34N 0.03 Lon  79.20E 0.03
      Dep  15.0 BDY Half-duration  3.7
      Moment Tensor;   Scale 10**18 Nm
        Mrr= 1.32 0.03  Mtt=-1.06 0.03
        Mff=-0.27 0.04  Mrt= 0.24 0.10
        Mrf= 0.03 0.09  Mtf=-0.48 0.03
       Principal Axes:
        T  Val=  1.35  Plg=84  Azm=  8
        N       -0.04       3      245
        P       -1.30       5      155
      Best Double Couple:Mo=1.3*10**18
       NP1:Strike=242 Dip=40 Slip=  85
       NP2:        68     50       94

KSH      2.47  249 iPnc   31 10.00   2.4
FRU      4.07  308 iPd    31 34.50   4.3X
                   iS     32 34.00
WMQ      7.35   59 iPc    32 16.00  -0.5
        5.0s   6500.00nm          7.0mb X
                   iS     33 40.00
DSH      8.09  260 eP     32 24.00  -2.8X
                   eS     34 24.00
NDI     11.76  188 iPd    33 12.40  -4.8X
        0.5s    309.86nm          6.8mb X
                   iS     37 17.30
GKN     13.21  157 Pd     33 31.40  -5.4X
KKN     13.61  156 Pd     33 37.20  -4.9X
GUN     13.69  153 Pd     33 39.00  -4.3X
DMN     13.72  156 Pd     33 39.00  -4.6X
PKI     13.85  155 Pd     33 40.80  -4.6X
LSA     14.59  133 eP     33 55.40   0.2
     Z  24s    132.00um
                   pP     34 02.00
                   sP     34 06.00
GTA     16.04   87 P      34 09.40  -4.2X
        1.0s     90.00nm          4.9mb
     Z  14s    176.00um          4.5Msz
                   pP     34 16.00
                   sP     34 21.00
LZH     19.99   94 Pc     35 00.30  -1.5
        2.0s    570.00nm          5.6mb
     Z  26s    158.00um          4.1MszX
     N  13s     64.50um
                   PP     35 19.00
                   S      38 37.00
IRK     21.04   47 iPc    35 12.00  -0.3
                   eS     39 06.00
BOM     22.06  196 iPc    35 24.20   1.4
                   iS     39 07.20
CD2     22.20  107 iPd    35 25.00   0.8
        1.9s   1800.00nm          6.2mb
     Z  20s     70.40um          6.1Msz
     E  10s     43.60um
                   sP     35 31.50
POO     22.22  193 iPd    35 21.50  -3.0X
        0.9s    290.76nm          5.7mb
                   iS     39 30.50
HYB     22.89  181 ePd    35 29.00  -2.1
        1.0s    440.00nm          5.9mb
                   eS     39 37.00
BTO     23.57   79 iPc    35 38.00   0.4
        4.0s   2600.00nm          6.1mb X
     N  13s     63.40um
     E  13s     54.30um
                   pP     35 44.50  23km
                   PP     36 13.00
XAN     24.62   95 iPc    35 47.70   0.0
        2.0s    800.00nm          6.0mb
     N  12s     35.80um
     E  11s     39.90um
HHC     24.68   78 P      35 49.20   0.8
        1.0s    330.00nm          5.9mb
     Z  11s     47.00um          6.2MszX
KMI     25.02  120 Pc     35 52.00   0.1
        1.6s    730.00nm          6.1mb
     Z  30s     35.60um          5.7MszX
                   S      40 10.00
TAB     25.31  275 eP     35 55.00   0.5
KER     25.93  267 ePc    36 01.00   0.7
TIY     26.05   85 iPc    36 01.50   0.2
        1.0s    200.00nm          5.7mb
     Z  16s     52.80um          6.2MszX
                   pP     36 04.50  11km
                   sP     36 08.50
                   S      40 33.00
                   sS     40 39.00
BKR     26.65  285 iPc    36 08.00   1.2
                   iS     40 48.00
GYA     26.84  113 iPc    36 08.00  -0.7
        3.0s   1000.00nm          5.9mb
     N  12s     21.50um
     E  12s     12.10um
                   pP     36 15.00  25km
                   sP     36 18.00
                   PP     36 57.00
                   S      40 46.00
                   sS     40 58.00
CHG     27.52  136 ePc    36 13.80  -1.0
        1.3s    137.98nm          5.5mb
                   eS     40 50.00
BJI     28.29   78 eP     36 21.50   0.0
        1.8s    120.00nm          5.3mb
     Z  14s     34.00um          6.1MszX
     N  14s     45.10um
                   eS     41 08.00
BDT     28.85  137 eP     36 23.50  -3.3X
KOD     30.06  183 eP     36 37.00  -1.0
                   eS     41 34.00
TIA     30.08   86 Pc     36 37.70   0.0
        1.4s    100.00nm          5.5mb
     Z  16s     36.30um          6.1MszX
     N  11s     24.60um
     E  10s     14.10um
                   eS     41 37.20
LOE     30.19  133 eP     36 38.50  -0.3
WHN     30.28   98 eP     36 39.20  -0.3
        1.5s    300.00nm          5.9mb
     Z  20s     37.60um          6.0Msz
                   pP     36 45.00  20km
                   S      41 40.00
KHT     30.73  141 eP     36 43.80   0.3
NST     30.75  137 eP     36 45.00   1.3
RYD     31.21  250 ePc    36 48.10   0.3
OBN     31.51  312 iPc    36 49.50  -0.5
        1.3s    120.00nm          5.6mb
     Z  20s     34.00um          6.0Msz
                   iS     41 52.00
DL2     32.66   79 eP     36 59.00  -1.2
        1.0s    150.00nm          5.9mb
     Z  18s     28.10um          6.0Msz
     N  16s     24.40um
     E  16s     41.70um
                   pP     37 07.00  28km
                   S      42 16.00
SIM     32.96  293 eP     37 06.00   3.2X
                   eS     42 30.00
NJ2     33.02   92 Pc     37 04.30   0.9
        4.0s    700.00nm          5.9mb X
     Z  14s     20.10um          6.0MszX
     N  14s     43.00um
     E  13s     20.80um
                   pP     37 10.00  20km
```

25d 14h

sP 37 19.00
S 42 20.00
NNT 33.17 141 iPc 37 04.30 -0.6
SNY 33.37 73 Pc 37 05.80 -0.6
1.2s 100.00nm 5.6mb
N 13s 37.90um
E 12s 27.60um
pP 37 14.00 28km
PcP 39 52.80
S 42 18.50
GZH 33.68 110 P 37 10.00 0.7
Z 16s 25.20um 6.0MszX
N 10s 10.40um
E 10s 12.40um
eS 42 31.00
KAS 33.89 287 eP 37 12.50 1.5
QIZ 33.97 120 P 37 12.00 0.1
N 17s 15.30um
E 12s 11.90um
eS 42 30.00
CN2 34.32 69 Pc 37 14.00 -0.6
1.0s 30.00nm 5.2mb
Z 18s 76.00um 6.5Msz
N 10s 19.00um
pP 37 21.00 24km
S 42 37.00
HKC 34.77 111 eP 37 19.40 0.7
eS 42 52.00
BHL 34.85 273 P 37 16.00 -3.4X
S 42 57.00
SSE 35.23 92 Pc 37 22.00 -0.5
0.8s 20.00nm 5.1mb
Z 20s 28.90um 6.0Msz
N 15s 42.30um
E 15s 24.50um
pP 37 27.00 17km
S 42 56.00
sS 43 10.00
SS 45 15.00
CSS 36.21 276 e(P) 37 32.50 1.7
QZH 36.42 103 Pd 37 34.00 1.4
4.0s 960.00nm 6.0mb X
Z 15s 18.20um 6.0MszX
MDJ 37.08 66 eP 37 38.50 0.5
1.4s 260.00nm 5.9mb
Z 20s 21.50um 5.9Msz
N 12s 44.10um
E 12s 34.10um
S 43 25.00
CFR 37.09 295 eP 37 28.50 -9.5X
IAS 37.15 298 eP 37 35.00 -3.6X
PPE 37.27 296 eP 37 36.00 -3.6X
YLV 37.31 287 eP 37 40.80 0.7
ITU 37.42 288 eP 37 40.00 -0.9
CLI 37.44 297 eP 37 32.00 -9.1X
KHL 37.88 283 iP 37 44.70 -0.2
VRI 37.95 296 ePc 37 36.50 -8.8X
KAF 38.05 323 iP 37 46.00 0.1
0.8s 43.20nm 5.3mb
ELL 38.13 281 eP 37 49.00 1.9
DST 38.14 286 iP 37 47.40 0.4
DMK 38.14 289 eP 37 47.00 0.0
ISR 38.22 295 eP 37 40.00 -7.6X
SNG 38.32 144 eP 37 49.60 0.9
eS 43 26.20
CVO 38.33 296 eP 37 40.00 -8.6X
ANP 38.47 100 eP 37 52.00 2.0
MLR 38.56 296 eP 37 42.00 -8.6X
NUR 38.61 320 iP 37 51.00 0.3
0.9s 106.40nm 5.6mb
Z 18s 29.60um 6.2Msz
e 39 24.00 515kmX
LR 54 00.00
BUC 38.68 294 eP 37 54.00 2.6
BUC1 38.75 294 eP 37 43.00 -9.0X
JMB 38.81 291 eP 37 53.00 0.4
SOD 39.13 331 iP 37 54.90 0.0
i 38 09.00 54kmX
CMP 39.23 296 ePc 38 02.00 5.9X
PVL 39.51 292 iPc 38 00.00 1.7
KOT 39.51 270 eP 38 01.50 3.0X
TNR 39.67 296 ePc 38 01.00 1.3
COZ 39.70 296 eP 37 51.00 -9.1X
KEV 39.74 335 iP 38 03.00 3.0X
1.0s 72.00nm 5.3mb
Z 20s 35.00um 6.2Msz
e 39 36.00 511kmX

LR 55 12.00
EZN 39.76 287 eP 38 01.10 0.6
BMR 39.79 300 ePd 38 03.00 2.4
TIK 39.82 22 iPc 38 00.00 -0.6
eS 43 57.00
HLW 39.92 270 eP 38 02.00 0.1
e 38 20.00 73kmX
eS 44 08.00
PLD 40.25 291 eP 38 08.00 3.5X
UZH 40.41 301 eP 38 07.00 1.3
eS 44 20.00
IPM 40.81 145 ePd 38 08.90 -0.4
1.0s 91.40nm 5.5mb
SHNJ 41.48 81 eP 38 17.10 2.5
SPC 41.64 302 iP 38 16.60 0.6
KRA 41.68 304 ePc 38 15.50 -0.6
0.8s 57.00nm 5.4mb
Z 22s 16.40um 5.9Msz
E 24s 19.40um
e 38 19.00 12km
i 38 24.80
e 39 58.00
eS 44 30.00
KUMJ 41.94 84 eP 38 18.10 -0.4
VAY 42.01 290 iP 38 19.40 0.5
1.0s 48.00nm 5.2mb
i 38 23.30 13km
UPP 42.09 319 iPc 38 19.50 0.2
iPP 40 00.00
iS 44 34.00
i 52 46.50
PSZ 42.12 301 eP 38 21.30 1.4
TRO 42.43 333 eP 38 23.20 1.2
BEO 42.49 296 eP 38 23.40 0.6
SHK 42.49 80 eP 38 22.80 -0.2
KAGJ 42.59 86 eP 38 22.50 -1.3
SKO 42.62 292 iP 38 24.30 0.4
Z 17s 10.82um 5.8MszX
N 17s 7.08um
E 16s 17.61um
i 38 26.00 6kmX
iPP 40 08.50
iPPP 40 31.00
iS 44 53.00
iSS 48 00.00
iSSS 48 42.00
i 50 10.00
LR 58 58.00
BUD 42.79 300 eP 38 25.90 0.6
BAG 43.18 111 eP 38 28.00 -0.9
eS 45 00.00
SRO 43.19 301 iP 38 28.80 0.4
i 38 44.60 62kmX
OHR 43.35 291 eP 38 25.70 -4.2X
IVA 43.43 293 iPd 38 32.26 1.6
PVY 43.46 293 iPc 38 37.00 6.1X
PLE 43.64 294 iPd 38 34.18 1.8
TIH 43.68 300 eP 38 33.70 1.2
TKSJ 43.75 80 P 38 33.50 0.3
KSP 43.82 306 iPc 38 33.70 0.1
1.1s 50.00nm 5.2mb
i 38 59.00 109kmX
i 40 17.60
e 48 33.00
e 54 01.00
ZST 43.89 302 eP 38 33.90 -0.2
e 38 59.40 110kmX
e 39 09.70
e 44 49.50
BSD 43.92 312 iP 38 34.80 0.5
0.8s 20.00nm 5.0mb
e 40 16.00 561kmX
TTG 44.01 293 iPc 38 35.58 0.4
HFS 44.05 319 eP 38 34.70 -0.6
0.5s 45.40nm 5.6mb
Z 18s 41.81um 6.4Msz
LR 47 53.00
NKY 44.08 294 iPd 38 37.36 1.5
KGM 44.11 144 ePc 38 37.00 0.7
ULC 44.17 292 iPd 38 36.75 0.2
BDV 44.36 293 iPd 38 38.58 0.5
BRY 44.37 294 iPc 38 38.65 0.4
VKA 44.38 302 iPc 38 36.30 -1.8
3.5s 444.00nm 5.7mb X
Z 19s 17.70um 6.0Msz
i 38 41.30 17km
i 39 21.50

LR 59 00.00
HCY 44.54 293 iPc 38 39.38 -0.1
OCP 44.72 113 eP 38 56.00 14.8X
WKYJ 44.81 79 P 38 41.40 -0.5
PRU 45.10 305 Pc 38 44.50 0.6
Z 20s 22.10um 6.1Msz
N 17s 11.60um
E 19s 16.70um
e 39 09.70 108kmX
PP 40 28.00
S 45 22.00
SS 48 38.00
NB2 45.20 321 P 38 44.10 -0.5
0.8s 96.20nm 5.8mb
PTJ 45.24 299 iPc 38 45.10 -0.1
ZAG 45.25 299 eP 38 45.00 -0.1
MRRJ 45.71 66 eP 38 50.50 1.8
CLL 45.75 307 iPc 38 48.80 -0.2
1.2s 50.00nm 5.3mb
Z 17s 24.50um 6.2MszX
e 39 13.00 103kmX
eS 49 00.00
MAT 45.80 75 eP 38 49.00 -0.7
2.0s 188.24nm 5.7mb
Z 20s 7.09um 5.6Msz
eS 45 33.00
KMR 45.85 302 eP 38 51.00 1.2
i 38 58.70 26km
i 40 35.30
i 49 56.70
IIDJ 46.02 76 eP 38 50.70 -0.7
ASAJ 46.24 63 eP 38 52.50 -0.5
KBS 46.30 346 eP 38 53.50 0.5
WET 46.36 304 iPc 38 54.60 0.7
Z 17s 20.00um 6.1MszX
YAMJ 46.50 72 eP 38 54.70 -0.4
KBA 46.63 301 iPc 38 56.70 0.4
1.4s 68.80nm 5.5mb
i 38 59.50 9kmX
i 39 20.40
i 40 13.90
HOF 46.69 306 eP 38 57.00 0.5
Z 17s 18.00um 6.1MszX
BHG 46.75 302 iPd 38 57.80 0.8
MOX 46.76 306 eP 38 57.00 0.0
1.3s 53.00nm 5.4mb
Z 17s 19.40um 6.1MszX
N 16s 20.70um
E 20s 11.90um
TRI 46.76 299 iPc 38 57.00 -0.1
iPP 40 42.00
iS 45 44.00
iSS 49 34.00
MUD 46.90 314 iPc 39 01.10 3.1X
0.9s 26.00nm 5.3mb
i 41 13.80
TDS 47.04 291 P 39 00.50 1.1
FVI 47.15 301 Pd 38 59.10 -1.0
GRF 47.26 305 iPc 39 02.00 1.0
1.0s 52.00nm 5.5mb
Z 20s 22.00um 6.1Msz
e 39 04.00 7kmX
HOOJ 47.26 65 eP 39 00.80 -0.2
OFUJ 47.33 70 eP 39 03.30 1.7
KAKJ 47.39 74 eP 39 01.00 -1.1
MGR 47.42 291 Pd 39 02.50 0.1
SGO 47.44 292 Pd 39 03.00 0.5
ODD1 47.60 319 eP 39 04.00 0.4
DUI 47.64 294 P 39 05.10 0.9
FUR 47.65 303 iPc 39 05.00 0.9
Z 17s 19.00um 6.1MszX
SOI 47.86 289 P 39 08.10 2.3
SOTA 47.98 302 iPc 39 06.20 -0.6
0.7s 27.80nm 5.4mb
i 39 20.70 55kmX
i 41 04.70
KUSJ 48.00 64 eP 39 07.80 1.0
ARV 48.04 297 Pc 39 07.10 -0.1
CTI 48.06 300 P 39 06.50 -1.0
SDI 48.07 294 P 39 08.00 0.5
AOU 48.13 295 P 39 02.70 -5.2X
BER 48.16 320 eP 39 08.30 0.5
ASK 48.21 320 iPc 39 08.50 0.3
OGA 48.21 301 iPd 39 08.30 -0.4
RSM 48.23 297 P 39 09.20 0.6
AZI 48.23 295 P 39 09.30 0.6
ATN 48.25 289 P 39 08.60 -0.3

25d 14h

ASS		48.38	296	P	39	10.70	0.8	LSF		54.54	304	eP	39	54.90	-1.4	BFT		79.94	224	iPd	42	38.00	1.1
MNS		48.61	295	Pd	39	11.40	-0.3			0.7s		19.85nm			5.3mb			0.7s		37.67nm			5.5mb
SFI		48.64	298	Pd	39	12.60	0.9	LDF		54.64	307	eP	39	55.40	-1.5	SLR		80.92	225	iPc	42	42.60	0.6
CRE		48.67	297	P	39	12.40	0.2			0.8s		36.25nm			5.5mb			1.0s		30.00nm			5.3mb
PGD		48.74	297	P	39	13.50	0.7	CAF		54.74	302	eP	39	57.20	-0.6		Z	22s		3.70um			5.7Msz
TNS		48.83	306	eP	39	13.40	0.2			0.9s		21.30nm			5.2mb	KIC		81.12	271	Pc	42	42.50	-0.7
OSS		48.84	302	ePc	39	13.10	-0.4	FLN		54.79	307	eP	39	56.10	-2.0			0.9s		26.50nm			5.3mb
FIR		49.09	298	eP	39	18.00	2.8X			0.9s		21.30nm			5.2mb	TIC		81.15	271	Pc	42	42.58	-0.8
WIT		49.16	310	eP	39	16.00	0.4		Z	18s		30.00um			6.4Msz	LIC		81.43	271	P	42	43.94	-0.9
SAX		49.18	302	ePc	39	15.80	-0.4	RJF		54.94	303	eP	39	58.60	-0.6			0.9s		21.00nm			5.2mb
WTS		49.31	309	eP	39	16.50	-0.3			1.2s		89.25nm			5.7mb					S	53	00.00	
		0.9s		27.00nm			5.3mb	GRR		55.17	307	eP	39	59.20	-1.6	ASPA		81.68	131	iPc	42	45.10	-0.8
MME		49.32	298	Pc	39	18.20	0.9			1.1s		78.15nm			5.7mb			0.8s		39.10nm			5.5mb
VDL		49.35	301	ePc	39	16.00	-1.5	ETER		55.33	299	eP	40	00.50	-1.5	PRY		82.30	225	iPd	42	57.00	7.8X
BNS		49.39	308	eP	39	17.50	0.1	LPO		55.41	302	eP	40	01.70	-0.9	SEK		83.33	224	iPc	42	53.50	-1.0
	Z	20s		1.00um			4.8MszX			1.2s		44.65nm			5.4mb			0.7s		17.12nm			5.3mb
BDI		49.43	298	Pd	39	17.80	-0.2	LPF		55.43	307	eP	40	01.00	-1.7	FORR		84.23	139	eP	42	57.80	-0.9
ABH		49.48	306	eP	39	18.00	-0.3			0.8s		22.85nm			5.3mb	WIN		85.02	235	iPc	43	04.00	0.9
LLS		49.53	302	ePc	39	18.10	-0.7	MFF		55.46	305	eP	40	01.40	-1.5			1.0s		50.00nm			5.7mb
SLE		49.56	303	ePc	39	18.70	-0.1	LFF		55.59	303	eP	40	03.20	-0.7	MBO		85.23	285	eP	43	06.40	2.3
ZLA		49.72	303	ePc	39	19.40	-0.7			1.0s		48.00nm			5.5mb	FFC		85.26	1	iPc	43	03.80	0.1
GWF		49.72	305	P	39	19.75	-0.3	ESEL		56.43	296	eP	40	10.00	0.0			0.6s		30.00nm			5.7mb
FEL		49.83	304	P	39	20.36	-0.7	NAI		56.50	234	eP	40	20.00	9.0X	EDM		86.16	7	iPc	43	08.30	0.0
BOB		49.95	299	Pc	39	22.50	0.5	ETA		56.55	313	eP	40	17.00	6.4X	CBM		88.25	338	eP	43	19.00	0.6
VAI		50.01	301	Pc	39	20.80	-1.5	EPF		56.68	301	eP	40	10.10	-1.7	SES		89.17	6	ePc	43	22.80	-0.1
WLS		50.07	304	P	39	22.29	-0.5			1.4s		34.85nm			5.2mb			1.2s		123.00nm			6.1mb
CDF		50.12	304	P	39	22.53	-0.7	ECP		56.85	313	eP	40	17.30	4.5X	PNT		89.19	12	ePc	43	23.00	0.0
ENN		50.20	308	eP	39	22.50	-1.2	EBR		57.58	298	eP	40	18.00	-0.1			1.0s		65.00nm			5.9mb
		1.0s		32.00nm			5.3mb	ILT		57.61	26	eP	40	18.00	0.0	MCW		89.24	14	P	43	24.20	0.9
ECH		50.26	304	P	39	23.66	-0.5					iS	48	20.00		CRZF		89.76	198	eP	43	33.00	7.8X
TSM		50.34	125	ePc	39	26.50	1.4	ECRI		58.74	301	eP	40	26.20	-0.1					eS	54	37.00	
MOF		50.39	304	P	39	24.99	-0.3	ETOR		59.28	299	eP	40	33.00	2.8X	QLP		90.07	126	eP	43	29.00	1.8
MMK		50.48	301	ePc	39	26.00	-0.2	EVIA		60.65	297	eP	40	39.00	-0.6	GMW		90.34	15	P	43	29.70	1.3
BSF		50.62	304	P	39	26.49	-0.5	GUD		60.76	300	eP	40	39.00	-1.3	NEW		90.59	11	ePc	43	30.00	0.5
DIX		50.83	302	ePc	39	28.10	-0.8	BRW		61.83	18	ePc	40	47.20	0.2			1.2s		0.04nm			2.6mb X
VITF		51.00	305	P	39	29.23	-0.5	ERUA		61.84	303	eP	40	50.00	2.5	BMW		91.28	15	P	43	31.50	-1.3
PGF		51.08	297	P	39	29.63	-1.0	SMY		61.92	43	P	41	00.00	12.2X	GAC		91.29	342	eP	43	34.50	1.8
EMS		51.14	302	ePc	39	30.40	-0.8		Z	18s		7.24um			5.9Msz			0.6s		3.00nm			4.8mb
SNF		51.27	308	P	39	32.00	0.2	EPLA		62.32	300	eP	40	50.20	-0.6	LON		91.29	14	P	43	33.40	0.6
LPG		51.47	301	eP	39	33.20	-0.6	LWI		62.36	240	iP-	40	53.00	1.6	SHW		91.75	15	P	43	36.00	1.0
		0.9s		64.00nm			5.6mb	EHOR		62.93	298	eP	40	54.20	-0.5	HBVT		91.96	340	P	43	36.80	1.0
LPL		51.47	301	eP	39	33.20	-0.5	MAL		62.93	296	eP	40	55.00	0.3	RSNY		92.15	341	eP	43	38.00	1.3
SAOF		51.50	299	P	39	33.40	-0.3					iS	49	24.00				1.2s		0.06nm			2.9mb X
AUTN		51.58	299	P	39	34.31	-0.3	MBC		63.06	5	iPc	40	54.90	-0.1		Z	22s		8.47um			6.1Msz
AURF		51.69	299	P	39	34.53	-0.7			0.5s		238.00nm			6.6mb X	STK		92.32	131	P	43	44.00	6.6X
TOUF		51.70	299	P	39	34.97	-0.4	PTO		63.42	302	eP	41	05.70	7.8X	VGB		92.67	14	P	43	39.90	0.7
SURF		51.81	300	P	39	35.53	-0.7					e(S)	49	29.00		RMQ		92.86	123	eP	43	40.00	0.0
GRN		52.22	301	P	39	38.93	-0.3	EJIF		63.79	297	eP	41	01.00	0.5	LRM		93.57	8	eP	43	43.70	0.1
FRF		52.27	299	eP	39	38.60	-0.9	ANM		63.95	26	iPc	41	02.40	1.4	WVLY		95.05	344	P	43	50.50	0.3
		1.1s		58.60nm			5.4mb	BCAO		64.82	253	iPc	41	05.50	-1.9	RSSD		95.83	2	P	43	54.50	0.5
LMR		52.45	299	eP	39	40.00	-0.9			0.9s		54.00nm			5.7mb			1.0s		44.74nm			5.9mb
LRG		52.51	299	eP	39	40.40	-0.8					i	41	25.50	77kmX		Z	19s		9.58um			6.3Msz
		1.1s		43.95nm			5.3mb					i	42	25.00		WDC		97.07	16	eP	43	58.60	-0.7
	Z	18s		20.50um			6.2Msz	IFR		65.14	294	iPd	41	09.50	0.0	GLD		100.15	3	Pdiff	44	14.00	0.7
LOR		52.67	304	eP	39	41.00	-1.5	IMA		66.41	21	ePc	41	17.10	0.0		Z	18s		12.42um			6.5Msz
		1.2s		34.20nm			5.2mb			0.6s		84.40nm			6.1mb	GOL		100.20	3	ePdiff	44	14.00	0.4
	Z	19s		18.50um			6.1Msz	AVE		66.85	295	eP	41	20.00	-0.2		Z	19s		10.38um			6.4Msz
LBF		52.70	304	eP	39	41.20	-1.6					i	41	31.00	36kmX	RSCP		103.06	347	Pdiff	44	30.00	3.8X
		0.8s		16.10nm			5.0mb	TIO		68.08	292	iP	41	27.00	-1.2		Z	21s		11.41um			6.4Msz
CDR		52.82	299	ePc	39	31.30	-12.3X					i	41	35.40	27km	ALO		104.88	5	ePdiff	44	37.00	2.5X
DAG		52.82	343	iPd	39	42.10	-1.1	TTA		68.08	24	eP	41	30.20	2.6		Z	20s		7.09um			6.2Msz
		0.7s		38.36nm			5.4mb	FBA		68.87	19	iPc	41	32.70	0.4	UYO		105.57	354	e(PKP)	48	50.00	-0.7X
	Z	18s		32.58um			6.4Msz			1.1s		178.40nm			6.1mb	GLA		105.83	12	ePKP	48	34.00	-17.2X
	N	18s		12.23um				INK		68.93	12	iPc	41	32.20	-0.4	BMA		129.27	272	ePKP	49	33.70	-2.6X
SMF		52.92	303	eP	39	43.10	-1.2			1.0s		152.00nm			6.1mb	SPA		130.20	180	iPKPc	49	37.50	0.7
		1.1s		76.90nm			5.5mb	PTZ		70.04	230	iPd	41	38.00	-2.2			1.0s		21.00nm			
SSF		52.97	304	eP	39	43.40	-1.3	PDB		71.03	25	P	41	45.80	0.3	VAO		131.58	274	(PKP)	49	41.00	0.3
		1.2s		55.05nm			5.4mb	PMR		71.17	22	ePc	41	46.20	-0.1	PPD		134.33	278	(PKP)	49	46.00	0.1
DAV		53.14	116	eP	39	44.00	-2.3			0.9s		129.00nm			6.0mb	SIV		137.71	293	PKP	49	46.40	-6.1X
AVF		53.17	304	eP	39	45.00	-1.2		Z	20s		8.50um			6.0Msz	ZOBO		142.71	301	PKP	49	58.00	-4.1X
EDU		53.38	317	ePc	39	47.00	-0.6	NANU		71.28	144	eP	41	47.00	-0.5		Z	23s		3.07um			6.0MszX
ESY		53.39	316	eP	39	46.50	-1.1	TOA		71.57	21	ePc	41	49.70	0.8					i	50	06.40	
BGF		53.59	304	eP	39	47.90	-1.3	MBL		72.09	140	iPc	41	51.00	-1.3					LR	39	50.00	
		1.0s		37.00nm			5.3mb	KLU		72.15	21	P	41	51.70	-0.6	LPB		142.88	300	PKP	49	59.00	-3.2X
EBL		53.66	316	eP	39	48.70	-0.9	KNA		72.51	130	eP	41	54.00	-0.9		Z	24s		6.98um			6.3MszX
EDI		53.69	316	eP	39	49.20	-0.6	LSZ		72.71	232	iP	41	55.00	-1.3					LR	29	10.00	
PYM		53.80	303	P	39	46.82	-4.0X	KMZ		72.74	235	iP	41	57.80	1.3	CNCB		143.00	300	PKPd	50	00.00	-2.6X
LBL		53.85	302	P	39	46.79	-4.3X	FRB		73.05	346	ePc	41	56.60	-0.9					i	51	13.00	
EAU		53.86	316	eP	39	50.40	-0.6	BUL		76.29	228	eP	42	16.40	-0.4	NNA		144.58	316	iPKPc	50	03.50	-1.2
		0.8s		81.00nm			5.8mb	YKA		76.89	6	eP	42	19.50	0.1			1.0s		84.00nm			
EKA		53.88	316	P	39	50.00	-1.2			1.1s		96.30nm			5.8mb		Z	24s		1.16um			5.6MszX
		1.0s		31.60nm			5.3mb	SIT		78.71	18	P	42	30.90	1.3	PT10		144.72	316	ePKP	50	04.00	-0.9
MAF		53.90	303	eP	39	50.60	-0.9			1.0s		90.00nm			5.8mb	ARE		145.02	304	iPKPd	50	06.00	0.3
		1.4s		87.15nm			5.6mb	WB2		79.09	128	iPc	42	31.30	-0.9	RKT		146.66	69	ePKP	50	14.00	6.2X
ESK		53.91	316	eP	39	51.00	-0.4	WARB		79.70	138	eP	42	34.00	-1.3			1.0s		60.00nm			
TCF		54.10	304	eP	39	52.10	-0.9	LKO		79.75	274	Pc	42	34.72	-1.3	AIA		147.46	208	ePKP	50	07.50	-0.3
		0.9s		21.30nm			5.2mb			1.0s		21.50nm			5.1mb			S.D. = 1.0		on 289 of 344 obs.			

FEB 25, 1991 14h 36m 17.45± 0.59s
41.072 N ± 5.0km 22.842 E ± 6.0km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
MD 2.5 (THE). ML 2.2 (SKO).

KNT	0.10	26	ePc	36	18.84	-1.3
VAY	0.32	321	iPg	36	23.30	-0.8
			iSg	36	27.30	
GRG	0.35	251	ePc	36	24.52	-0.2
			eS	36	30.32	
THE	0.45	168	ePc	36	26.12	-0.5
			eS	36	33.44	
SRS	0.57	85	ePd	36	27.40	-1.6
			eS	36	35.08	
MMB	0.84	52	ePg	36	34.00	0.2
LIT	1.01	196	ePd	36	37.48	0.9
			eS	36	51.48	
PAIG	1.31	151	eP	36	41.70	0.0
			eS	37	00.98	
RZN	1.54	66	iP	36	46.00	0.9
VTS	1.54	10	iP	36	46.00	0.9
PGB	1.78	33	iP	36	50.00	1.5

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

FEB 25, 1991 14h 52m 04.58± 0.18s
40.277 N ± 3.7km 79.070 E ± 3.8km
DEPTH = 33.0km (normal)
5.0mb (32 obs.)
SOUTHERN XINJIANG, CHINA (321)

WMQ	7.33	58	Pn	53	50.60	-1.5
			Sn	55	11.50	
NDI	11.67	188	iPd	54	50.50	-1.2
	0.8s	82.09nm			6.0mb	X
			iS	56	57.00	
GKN	13.08	158	P	55	09.60	-1.2
KKN	13.47	156	P	55	15.00	-1.0
GUN	13.56	153	P	55	16.40	-0.9
DMN	13.59	157	P	55	16.60	-1.0
PKI	13.72	156	P	55	17.80	-1.6
GTA	15.96	86	P	55	46.00	-2.3
	1.4s	150.00nm			4.9mb	
CD2	22.09	107	eP	56	59.10	0.6
POO	22.13	193	iPd	56	58.70	-0.3
			iS	01	00.00	
HYB	22.78	181	eP	57	07.30	1.9
KMI	24.90	120	Pd	57	28.20	2.1
TIY	25.97	85	Pd	57	38.10	2.2
GBA	26.61	184	P	57	43.40	1.6
			S	02	47.40	
GYA	26.72	113	P	57	42.20	-0.7
CHG	27.38	136	eP	57	49.30	0.4
CHTO	27.38	136	eP	57	49.30	0.4
	0.9s	10.23nm			4.5mb	
WHN	30.18	98	iPc	58	15.00	1.1
SSE	35.14	92	Pc	58	58.50	1.5
	1.0s	25.00nm			5.1mb	
VRI	38.07	296	eP	59	14.00	-7.6X
KAF	38.19	323	P	59	23.30	0.9
	1.2s	22.00nm			4.9mb	
MLR	38.68	296	eP	59	19.50	-7.4X
			e	00	05.00	
NUR	38.75	320	eP	59	27.80	0.7
	0.5s	5.80nm			4.6mb	
SOD	39.26	331	eP	59	21.00	-10.3X
KRA	41.81	304	eP	59	52.10	-0.4
UPP	42.23	319	iP	59	55.80	0.1
HFS	44.19	319	eP	00	11.00	-0.7
	0.5s	5.30nm			4.6mb	
NB2	45.34	321	P	00	20.40	-0.6
	0.9s	21.50nm			5.1mb	
TRI	46.89	299	iPc	00	33.60	0.2
CDF	50.25	305	eP	00	59.60	0.1
	0.9s	11.45nm			4.9mb	
BSF	50.75	304	eP	01	03.40	0.1
	0.7s	14.35nm			5.1mb	
HAU	50.97	304	eP	01	04.80	-0.1
PGF	51.20	297	eP	01	06.90	0.1
DOU	51.36	307	P	01	07.40	-0.3
LPG	51.60	301	eP	01	10.40	0.4
	0.7s	13.25nm			5.0mb	
LPL	51.60	301	iPc	01	10.30	0.3
	0.8s	12.75nm			4.9mb	
SBF	51.76	299	iPc	01	11.10	0.1
	0.7s	15.45nm			5.1mb	
FRF	52.40	299	eP	01	15.70	0.0
	0.9s	13.10nm			4.9mb	
LBF	52.84	304	eP	01	18.20	-0.8
DAG	52.94	343	iPd	01	17.80	-1.5
	0.7s	7.53nm			4.8mb	
SMF	53.05	304	iPc	01	20.10	-0.4
	0.9s	11.45nm			4.8mb	
SSF	53.11	304	eP	01	20.60	-0.3
	0.7s	5.50nm			4.6mb	
AVF	53.31	304	iPc	01	22.00	-0.4
	0.9s	24.55nm			5.2mb	
EKA	54.02	316	P	01	27.00	-0.4
	0.9s	19.50nm			5.1mb	
MAF	54.03	303	eP	01	27.80	0.1
TCF	54.23	304	iPc	01	29.30	0.1
	0.7s	5.50nm			4.7mb	
LSF	54.68	304	iPc	01	31.80	-0.7
	0.7s	6.60nm			4.8mb	
LDF	54.77	307	eP	01	32.40	-0.8
	0.6s	9.90nm			5.0mb	
FLN	54.93	307	eP	01	33.30	-1.0
RJF	55.07	303	eP	01	35.60	0.2
GRR	55.31	307	iPc	01	36.20	-0.8
	0.7s	13.25nm			5.1mb	
LPO	55.54	302	eP	01	38.70	-0.1
MFF	55.59	305	eP	01	38.40	-0.7
LFF	55.72	303	eP	01	40.20	0.2
TOL	61.20	299	iPc	02	19.00	0.6
BRW	61.91	18	eP	02	22.60	-0.1
MBC	63.16	5	ePc	02	30.50	-0.4
	0.6s	42.00nm			5.7mb	
ANM	64.01	26	eP	02	38.00	1.4
BCAO	64.87	254	iPc	02	42.90	0.0
	0.4s	10.00nm			5.3mb	
GDH	65.35	343	eP	02	40.00	-5.2X
			e	05	02.00	
IMA	66.48	21	ePc	02	52.60	-0.1
	0.8s	17.00nm			5.2mb	
FBA	68.94	19	ePc	03	08.20	0.2
	1.1s	36.10nm			5.4mb	
INK	69.02	12	eP	03	08.00	-0.3
PTZ	70.03	230	iP	03	14.00	-1.3
PTZ	70.03	230	iP	03	15.50	0.2
PDB	71.09	25	P	03	21.70	0.6
PMR	71.24	22	ePc	03	21.80	-0.1
	0.9s	27.30nm			5.3mb	
TOA	71.64	21	ePc	03	25.40	0.9
KLU	72.22	21	P	03	27.00	-0.9
LSZ	72.71	232	P	03	32.00	0.6
LSZ	72.71	232	iP	03	33.00	1.6
FRB	73.18	346	eP	03	32.00	-1.4
YKA	76.99	6	eP	03	53.90	-1.2
	0.9s	24.30nm			5.2mb	
WB2	78.96	128	eP	04	06.00	-0.6
LKO	79.84	274	P	04	11.78	0.2
	0.8s	17.00nm			5.1mb	
KIC	81.21	271	Pc	04	19.60	0.8
	0.7s	17.00nm			5.2mb	
TIC	81.24	271	P	04	19.58	0.6
	0.8s	14.50nm			5.1mb	
LIC	81.51	271	Pc	04	21.04	0.7
	0.9s	21.50nm			5.2mb	
EDM	86.26	7	eP	04	44.00	0.1
SES	89.27	6	ePc	04	58.50	0.0
NEW	90.68	11	P	05	05.50	0.4
LRM	93.67	8	eP	05	19.30	0.2
RSSD	95.94	2	P	05	31.00	1.4
ZOBO	142.84	301	ePKP	11	34.00	-3.4X
LPB	143.01	300	ePKP	11	39.00	1.5
CNCB	143.13	300	PKP	11	37.00	-0.9
NNA	144.72	316	ePKP	11	39.50	-0.5
	0.9s	16.81nm				
ARE	145.15	304	ePKP	11	43.00	2.0

S.D. = 0.9 on 83 of 88 obs.

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* FEB 25, 1991 14h 54m 44.17± 0.66s
40.499 N ±12.6km 78.917 E ± 9.7km
DEPTH = 33.0km (normal)
4.9mb (7 obs.)
SOUTHERN XINJIANG, CHINA (321)

WMQ	7.32	60	Pn	56	31.20	-0.3
			Sn	57	51.50	
TIY	26.07	85	Pc	00	18.40	2.0
GBA	26.82	183	P	00	22.00	-1.3
KAF	37.94	323	eP	01	58.80	-1.1
NUR	38.51	320	iP	02	05.10	0.4
	0.5s	3.90nm			4.5mb	
SOD	39.01	331	eP	01	50.00	-18.8X
HFS	43.95	319	eP	02	48.90	-0.4
	0.5s	10.50nm			4.9mb	
NB2	45.10	321	P	02	58.40	-0.3
	0.6s	7.30nm			4.8mb	
BNI	51.60	301	P	03	52.00	2.6
			eSg	03	55.00	
BRW	61.73	18	eP	05	01.00	-0.1
IMA	66.32	21	ePc	05	31.00	-0.3
	0.7s	10.90nm			5.1mb	
FBA	68.77	19	ePc	05	46.40	-0.1
	0.7s	8.20nm			4.9mb	
INK	68.82	12	eP	05	46.00	-0.7
PDB	70.94	25	P	05	59.50	-0.3
PMR	71.07	22	eP	06	00.30	-0.2
	0.7s	8.50nm			4.9mb	
TOA	71.48	21	ePc	06	03.70	0.6
KLU	72.05	21	P	06	05.50	-1.0
WB2	79.18	128	eP	06	42.60	-4.8X
FFC	85.15	1	eP	07	17.50	-0.3
	0.6s	9.00nm			5.1mb	
ARE	144.93	304	ePKP	14	21.00	0.8

S.D. = 1.1 on 18 of 20 obs.

% FEB 25, 1991 15h 03m 46.97± 1.91s
44.884 N ± 4.5km 6.688 E ±15.5km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.3 (GEN).

RRL	0.08	62	P	03	49.44	-0.2
			S	03	51.08	
BHB	0.41	96	P	03	55.08	-0.3
			S	04	01.10	
PZZ	0.48	142	P	03	56.61	-0.1
			S	04	03.18	
RSP	0.48	56	P	03	56.92	0.1
			S	04	03.92	
LSD	0.66	30	P	04	00.30	0.0
			S	04	09.84	
STV	0.78	144	P	04	02.15	-0.2
			S	04	13.22	
ENR	0.84	141	P	04	03.28	0.0
			S	04	14.95	
ROB	1.03	124	P	04	06.46	0.0
FIN	1.28	121	P	04	10.84	0.1
PCP	1.37	104	P	04	12.77	0.7

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

? FEB 25, 1991 17h 01m 53.59± 1.03s
37.036 N ±10.0km 29.483 E ± 8.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.1 (ISK).

ELL	0.45	130	iPg	02	02.30	-0.4
			iSg	02	10.80	
YER	0.97	276	ePn	02	12.30	0.3
BCK	0.98	64	iPn	02	13.00	0.8
CIN	1.25	297	eP	02	06.00	-10.8X
KHL	1.29	1	ePn	02	16.80	-0.7

S.D. = 1.1 on 4 of 5 obs.

% FEB 25, 1991 17h 08m 31.18± 1.96s
43.919 N ±22.8km 12.635 E ±15.1km
DEPTH = 33.0km (normal)
CENTRAL ITALY (381)

RSM	0.13	274	P	08	37.30	0.2
			eSg	08	39.40	
ARV	0.48	152	P	08	41.40	-0.1
			eSg	08	50.40	
SFI	0.57	270	P	08	42.50	-0.2
			eSg	08	50.50	
CRE	0.57	240	P	08	43.10	0.1
			eSg	08	49.70	
PGD	0.66	267	P	08	44.20	0.0
			eSg	08	54.00	

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

FEB 25, 1991 17h 48m 48.34± 0.35s
41.307 N ± 3.8km 20.282 E ± 3.7km
DEPTH = 10.0km (geophysicist)
ALBANIA (391)
ML 3.0 (TTG). MD 3.0 (THE).

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TIR      0.32 277 eP     48 55.00   0.1
                 eS     49 01.00
OHR      0.44 116 iPgc   48 57.00  -0.3
                 iSg    49 04.10
                 Lg     49 04.60
LACI     0.54 308 eP     48 58.50  -0.8
                 eS     49 07.30
BERA     0.65 203 eP     49 01.50   0.1
KKS      0.77   7 eP     49 02.50  -0.9
                 eS     49 14.00
PUK      0.79 339 eP     49 02.40  -1.3
                 eS     49 14.80
KBN      0.79 149 eP     49 04.00   0.3
                 eS     49 19.00
FNA      0.98 122 eP     49 06.40  -0.6
ULC      1.01 311 ePg    49 06.60  -0.9
                 eSg    49 22.40
VLO      1.03 216 eP     49 10.60   2.9X
BCI      1.07 351 eP     49 08.20  -0.3
                 eS     49 24.20
SKO      1.09  52 ePg    49 08.30  -0.6
                 i      49 09.30
                 iSg    49 22.00
LSK      1.18 168 eP     49 09.90  -0.5
                 eS     49 21.80
PVY      1.31 350 ePg    49 12.80   0.2
                 eSg    49 33.00
TTG      1.36 326 iPgc   49 12.60  -0.6
                 iSg    49 34.00
BDV      1.46 312 ePg    49 15.00   0.3
                 eSg    49 37.00
IVA      1.59 350 iPnc   49 18.50   1.9
                 eSn    49 44.50
GRG      1.64 102 eP     49 19.10   1.8
                 eS     49 40.40
VAY      1.72  89 ePn    49 19.80   1.3
HCY      1.75 311 ePn    49 19.50   0.6
                 eSn    49 45.40
IGT      1.77 179 eP     49 22.50   3.2X
                 eS     49 45.20
NKY      1.78 328 ePn    49 20.50   1.0
                 eSn    49 46.50
BRY      2.05 321 ePn    49 24.50   1.1
                 eSn    49 55.00
LIT      2.07 125 eP     49 22.80  -0.7
PLE      2.13 342 ePn    49 27.40   2.9X
SRS      2.50  93 eP     49 29.40  -0.4
PAIG     2.93 117 eP     49 36.10   0.3
HVAR     3.41 305 e(Pn)  49 51.90   9.3X
ALN      4.37  93 eP     49 55.30  -1.0
     S.D. = 0.9  on  25 of  29 obs.
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*  FEB  25, 1991  18h 17m 04.55± 1.30s
   10.025 S ± 7.8km  160.297 E ±15.0km
   DEPTH =  56.9 ±  9.1 km
   4.8mb (  7 obs.)
 SOLOMON ISLANDS                 (193)

HNR      0.68 330 iPc    17 18.00  -0.5
                 iS     17 27.00
SVO      0.99 331 iP     17 23.00   0.5
                 iS     17 36.00
RMQ     19.68 212 iPd    21 31.30  -0.6
        1.0s    98.00nm          5.1mb
COO     21.90 200 iPc    21 55.50   1.0
WRA     26.91 245 P      22 55.00  12.6X
        1.1s    12.10nm
CN2     62.23 332 Pc     27 22.00  -0.6
XAN     65.53 315 Pd     27 44.00  -0.5
CHG     66.93 295 eP     27 53.80   0.1
CD2     67.77 309 P      27 58.70  -0.1
        1.0s    10.00nm          4.8mb
GTA     74.54 316 P      28 40.60   1.2
        1.0s    10.00nm          4.7mb
ANM     78.74  14 eP     29 03.10   0.9
SPA     80.04 180 eP     29 09.00  -0.4
        0.9s     7.27nm          4.6mb
GUN     81.16 300 P      29 16.40   0.1
PKI     81.47 300 P      29 17.60  -0.3
KKN     81.64 300 P      29 19.60   1.0
DMN     81.74 300 P      29 18.40  -0.8
GKN     82.25 300 P      29 21.40  -0.3
IMA     83.05  17 ePc    29 25.70   0.7
        0.8s     7.40nm          4.7mb
FBA     84.10  20 ePc    29 30.00  -0.2
        0.7s    29.50nm          5.4mb
YKA     96.55  28 eP     30 27.70  -1.2
        0.8s     2.50nm          4.8mb
BCAO   141.68 264 ePKPc  36 28.50  -4.0X
        0.2s     8.00nm
SOB1   151.54 132 ePKP   36 53.90   5.5X
                 e      36 56.50
                 e      37 03.10
                 e      37 11.70
     S.D. = 0.8  on  19 of  22 obs.
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?  FEB  25, 1991  18h 51m 06.83± 0.95s
   65.108 N ±12.5km  157.048 W ± 9.0km
   DEPTH =  33.0km  (normal)
 ALASKA                          (676)
      ML 2.8 (PMR).

IMA      1.70  54 ePc    51 34.70   0.0
TTA      2.23 168 eP     51 42.30   0.0
ANM      3.60 265 eP     52 01.60   0.0
FBA      3.93  89 eP     52 06.40   0.0
     S.D. = 0.0  on   4 of   4 obs.
-------------------------------------
   FEB  25, 1991  18h 52m 30.01± 0.86s
   39.237 N ± 7.3km   20.947 E ±10.3km
   DEPTH =  10.0km  (geophysicist)
 GREECE-ALBANIA BORDER REGION    (392)
      MD 2.9 (ATH).

KEK      1.01 298 ePb    52 49.20   0.1
VLS      1.09 195 ePb    52 50.50  -0.1
KZN      1.24  30 ePb    52 52.50  -0.6
OHR      1.88 357 ePn    53 02.20  -0.2
VAY      2.42  30 ePn    53 11.20   0.9
SKO      2.76   8 ePn    53 15.00  -0.1
     S.D. = 0.7  on   6 of   6 obs.
-------------------------------------
*  FEB  25, 1991  18h 55m 07.36± 1.88s
   9.198 N ± 8.9km  126.326 E ±18.5km
   DEPTH =  99.8 ± 17.4 km
   4.6mb (  1 obs.)
 MINDANAO, PHILIPPINE ISLANDS    (259)

DAV      2.23 200 eP     55 43.40   0.0
SSE     22.31 348 P      59 59.00   1.5
     Z  18s     0.50um          4.0Msz
                 eS     03 56.00
                 sS     04 08.00
NJ2     23.77 344 Pc     00 11.50  -0.2
XAN     29.45 330 eP     01 01.00  -2.9X
WB2     30.02 165 iPc    01 06.50  -2.5
TIY     31.04 338 eP     01 22.40   4.5X
BJI     32.02 345 eP     01 27.50   1.2
        1.4s    16.00nm          4.6mb
HHC     34.13 340 eP     01 43.00  -1.8
WARB    35.17 180 iPd    01 54.70   1.1
FORR    39.85 178 eP     02 32.40  -0.3
KLB     41.38 191 eP     02 46.00   0.8
MUN     42.07 193 iPd    02 52.10   1.2
GUN     42.36 302 P      02 53.70  -0.2
PKI     42.66 301 P      02 55.50  -0.8
KKN     42.83 301 P      02 56.80  -0.7
DMN     42.93 301 P      02 58.50   0.2
GKN     43.44 301 P      03 01.40  -1.0
GBA     48.06 280 P      03 40.00   1.1
INK     85.26  22 eP     07 34.00   0.3
     S.D. = 1.2  on  17 of  19 obs.
-------------------------------------
*  FEB  25, 1991  19h 06m 13.26± 1.23s
   37.828 N ±16.4km   72.474 E ±26.2km
   DEPTH =  33.0km  (normal)
   4.2mb (  2 obs.)
 TAJIK SSR                       (715)

NDI      9.94 155 e(P)   08 37.00   0.1
GKN     14.14 130 P      09 33.40   0.0
KKN     14.69 129 P      09 40.50  -0.1
DMN     14.71 130 P      09 41.30   0.3
PKI     14.92 130 P      09 43.70  -0.2
        0.6s    21.00nm          4.6mb
GUN     14.97 127 P      09 44.50   0.0
INK     72.40  10 eP     17 38.00   0.5
YKA     79.86   3 eP     18 19.00  -0.5
        0.6s     0.70nm          3.8mb
     S.D. = 0.4  on   8 of   8 obs.
-------------------------------------
*  FEB  25, 1991  19h 52m 10.09± 0.67s
   9.187 N ± 9.7km  126.549 E ±17.5km
   DEPTH =  60.0km  (geophysicist)
   4.6mb (  3 obs.)
 MINDANAO, PHILIPPINE ISLANDS    (259)

SSE     22.36 348 P      57 04.80   0.5
        1.0s    12.00nm          4.3mb
NJ2     23.85 344 Pd     57 20.00   1.3
XAN     29.57 329 P      58 09.50  -2.0
WB2     29.95 165 eP     58 13.30  -1.7
TIY     31.13 338 Pd     58 26.40   1.1
BJI     32.09 345 eP     58 33.50   0.0
        1.0s    10.00nm          4.6mb
QIS     32.23 157 eP     58 35.00   0.0
                 eS     03 30.00
SNY     32.62 356 eP     58 37.40  -0.7
WARB    35.16 180 eP     59 02.00   1.8
GUN     42.56 301 P      00 02.40   0.2
        0.7s    18.00nm          5.0mb
PKI     42.85 301 P      00 03.80  -0.8
KKN     43.03 301 P      00 06.00   0.1
DMN     43.12 301 P      00 06.80   0.1
GKN     43.63 301 P      00 10.40  -0.3
GBA     48.28 280 P      00 48.00   0.5
     S.D. = 1.1  on  15 of  15 obs.
-------------------------------------
?  FEB  25, 1991  20h 01m 39.25± 2.27s
   30.617 N ±12.1km   67.498 E ±25.0km
   DEPTH =  33.0km  (normal)
   4.5mb (  2 obs.)
 PAKISTAN                        (710)

NDI      8.67 100 eP     03 46.00   0.6
                 eS     05 30.50
KSH     11.22  36 eP     04 22.00   1.5
     E  10s     5.90um
GKN     15.18  96 P      05 17.00   4.0X
DMN     15.68  97 P      05 19.80   0.2
KKN     15.78  96 P      05 21.40   0.5
PKI     15.95  97 P      05 23.20   0.1
GUN     16.27  95 P      05 26.00  -1.2
HYB     16.56 140 eP     05 32.50   1.9
LSA     20.47  87 eP     06 09.00  -8.3X
WMQ     20.73  45 iPd    06 19.20  -0.2
     Z  16s     0.45um          3.9MszX
GTA     27.77  63 P      07 27.20   0.1
        0.6s    10.00nm          4.7mb
CHG     30.78 105 eP     07 52.80  -1.3
CHTO    30.78 105 eP     07 52.80  -1.3
        1.1s     6.48nm          4.3mb
XAN     35.00  73 P      08 29.80  -0.9
BTO     35.68  62 eP     08 37.00   0.5
TIY     37.56  67 Pd     08 52.00  -0.3
NUR     41.14 329 eP     09 50.60  29.1X
KAF     41.21 332 eP     09 44.80  22.6X
        0.4s     2.50nm
     S.D. = 1.1  on  14 of  18 obs.
-------------------------------------
*  FEB  25, 1991  20h 08m 38.71± 0.84s
   52.778 N ±22.8km  172.635 E ± 8.5km
   DEPTH =  33.0km  (normal)
   4.1mb (  2 obs.)
 NEAR ISLANDS, ALEUTIAN ISLANDS  (  5)

SMY      0.89  92 eP     08 55.00   0.1
IMA     21.34  38 eP     13 26.00   1.2
YKA     38.08  46 eP     15 54.20  -1.3
        0.7s     1.10nm          3.8mb
HFS     66.17 349 eP     19 24.20  -0.4
        0.5s     1.40nm          4.3mb
GUN     66.40 285 P      19 26.80  -0.1
        1.0s    24.00nm          5.2mb X
KKN     66.84 286 P      19 30.00   0.4
        0.7s    15.00nm          5.2mb X
PKI     66.93 285 P      19 30.00  -0.3
        0.8s    13.00nm          5.1mb X
GKN     67.06 286 P      19 30.80  -0.1
        0.8s    11.00nm          5.0mb X
DMN     67.08 286 P      19 31.60   0.4
     S.D. = 0.8  on   9 of   9 obs.
-------------------------------------
*  FEB  25, 1991  20h 24m 01.99± 0.66s
   24.066 N ±14.4km   95.262 E ± 8.1km
   DEPTH =  33.0km  (normal)
 BURMA                           (296)

CHG      6.25 146 ePn    25 34.40   0.0
                 ePg    26 00.00
                 eSg    27 27.20
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25d 20h

KMI 6.89 80 eP 25 43.50 0.0
S 26 51.50
BDT 7.64 152 eP 26 28.00 34.3X
GUN 9.27 296 P 26 17.10 0.3
PKI 9.54 294 P 26 20.90 0.4
KKN 9.72 295 P 26 23.00 0.1
DMN 9.80 293 P 26 23.80 -0.3
GKN 10.33 295 P 26 30.50 -0.6
S.D. = 0.4 on 7 of 8 obs.

FEB 25, 1991 21h 12m 54.37± 0.79s
23.216 S ± 5.0km 70.560 W ± 8.7km
DEPTH = 40.5 ± 7.5 km
4.9mb (14 obs.) 4.4Msz (1 obs.)
NEAR COAST OF NORTHERN CHILE (122)
Felt (III) at Mejillones and Antofagasta.

ANT 0.50 165 iPd 13 04.30 -0.9
iS 13 10.00
ARE 6.78 352 iPd 14 30.00 -4.2X
iS 15 42.50
CNCB 6.82 21 Pd 14 36.20 1.1
S 16 13.00
RTRS 7.00 172 e(P) 14 40.00 3.1X
LPB 7.04 20 P 14 37.00 -1.0
1.1s 607.59nm 6.4mb X
i 14 49.00
S 16 10.00
LR 17 15.00
CCH 7.13 36 P 14 44.40 5.2X
ZOBO 7.28 19 P 14 41.10 -0.5
Z 18s 2.50um
i 14 50.00
S 16 12.00
LR 17 15.00
RTLL 8.29 167 ePc 14 56.30 1.2
RTCB 8.38 170 e(P) 14 54.00 -2.4
ZON 8.46 169 e(P) 14 59.00 1.5
RTCV 8.80 169 e(P) 15 02.00 0.0
SIV 11.47 53 P 15 34.20 -4.5X
NNA 12.67 331 eP 15 56.50 1.7
0.8s 7.46nm 4.8mb
PPD 17.81 90 eP 17 01.70 0.8
VAO 21.70 94 eP 17 41.30 -2.6X
e 17 54.20
e 18 07.30
BMA 24.31 94 eP 18 10.20 0.7
e 18 23.30
JFO 25.20 92 eP 18 17.80 -0.2
SOB1 31.62 69 eP 19 15.00 -1.0
e 19 22.70
e 19 46.90
e 22 46.00
RSCP 60.20 346 iP 22 59.00 -1.6
1.0s 34.71nm 5.4mb
SPA 66.92 180 iPd 23 44.80 0.1
0.9s 11.36nm 4.9mb
LIC 70.33 74 P 24 05.74 -0.6
0.7s 8.50nm 4.8mb
Z 20s 0.20um 4.4Msz
GOL 70.53 332 eP 24 06.50 -0.9
1.0s 9.00nm 4.7mb
TIC 70.53 74 P 24 07.04 -0.5
0.8s 10.50nm 4.9mb
KIC 70.65 74 Pc 24 07.84 -0.4
0.7s 20.00nm 5.2mb
LKO 71.38 71 Pc 24 12.16 -0.6
0.8s 19.00nm 5.1mb
RSSD 73.69 336 iP 24 26.00 0.0
1.0s 15.18nm 4.9mb
BW06 74.86 331 eP 24 35.00 2.2
1.0s 3.00nm 4.2mb
TNP 75.08 324 iP 24 33.50 -0.6
1.0s 3.75nm 4.3mb
SCH 77.78 2 eP 24 48.00 -0.6
SES 81.56 335 eP 25 09.00 -0.1
FFC 82.17 342 eP 25 11.50 -0.6
1.0s 11.00nm 4.8mb
IFR 84.02 50 iPd 25 24.50 2.2
FRB 86.68 1 eP 25 34.00 -0.5
BUL 90.21 112 iPd 25 54.20 1.6
0.9s 8.40nm 5.1mb
YKA 92.30 341 eP 26 00.40 -0.6
0.8s 2.70nm 4.7mb
WB2 130.70 212 ePKP 32 03.30 -0.1
GBA 148.23 102 PKPd 32 34.60 -0.3
0.9s 16.10nm
GBA 148.23 102 PKP 32 38.00 3.1X
HYB 150.50 96 ePKP 32 44.00 5.6X
MAT 151.86 305 ePKP 32 46.00 6.0X
0.8s 9.70nm
GKN 157.15 73 PKP 32 48.00 0.4
KKN 157.74 73 PKP 32 48.80 0.4
S.D. = 1.1 on 34 of 42 obs.

% FEB 25, 1991 21h 22m 20.35± 0.94s
17.291 N ±17.5km 94.566 W ± 9.4km
DEPTH = 33.0km (normal)
CHIAPAS, MEXICO (61)

SCX 1.93 106 eP 22 51.46 0.0
iS 23 16.50
OXX 2.07 265 iP 22 54.00 0.3
iS 23 19.00
LVVM 3.02 324 iP 23 06.50 -0.4
iS 23 42.00
IISM 3.16 303 eP 23 09.50 0.6
iS 23 46.50
IIT 3.95 296 eP 23 21.50 1.0
PPM 4.24 295 eP 23 24.67 -0.2
iS 24 16.00
III 4.79 284 eP 23 31.00 -1.3
S.D. = 0.9 on 7 of 7 obs.

? FEB 25, 1991 21h 54m 37.40± 0.88s
43.080 N ±15.9km 143.125 E ±25.2km
DEPTH = 33.0km (normal)
4.7mb (4 obs.)
HOKKAIDO, JAPAN REGION (224)

MAT 7.55 212 eP 56 28.00 0.1
0.7s 14.38nm 5.1mb
INK 48.45 30 ePc 03 18.50 0.5
MBC 50.37 18 eP 03 34.00 1.3
YKA 57.96 32 eP 04 27.60 -0.9
0.8s 1.20nm 4.0mb
KAF 63.56 332 eP 05 06.50 0.0
NUR 65.26 331 iP 05 17.70 0.2
0.6s 5.20nm 4.8mb
HFS 69.13 336 eP 05 41.50 -0.4
0.5s 2.50nm 4.5mb
FRB 70.60 14 eP 05 50.00 -0.8
S.D. = 0.9 on 8 of 8 obs.

FEB 25, 1991 21h 57m 27.44± 0.39s
41.109 N ± 4.2km 16.328 E ± 3.8km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

BAI 0.41 88 P 57 37.00 1.3
eSg 57 43.00
BRT 0.70 109 Pd 57 40.40 -0.9
eSg 57 50.00
SGO 0.95 235 P 57 45.40 -0.1
eSg 58 00.00
ORI 1.05 175 P 57 48.10 0.9
eSn 58 04.50
MGR 1.14 212 P 57 48.40 -0.3
eSn 58 05.70
TDS 1.45 180 P 57 53.60 -0.1
LCI 1.46 122 P 57 57.00 3.2X
eSn 58 14.50
DUI 1.51 292 P 57 54.90 0.3
eSn 58 14.60
HVAR 2.07 2 ePn 58 08.30 5.7X
iSn 58 40.30
AZI 2.34 293 P 58 07.30 0.7
MNS 3.01 296 P 58 16.30 0.2
SOI 3.04 184 P 58 16.00 -0.4
ASS 3.36 307 P 58 21.40 0.3
OHR 3.38 88 ePn 58 20.70 -0.6
ARV 3.47 315 P 58 21.80 -0.7
RSM 4.02 316 P 58 29.80 -0.5
CRE 4.10 309 P 58 30.90 -0.8
SFI 4.34 312 P 58 35.60 0.7
PTJ 4.80 357 eP 58 49.20 7.7X
TRI 4.96 339 eP 59 38.00 54.3X
e 00 22.80
CTI 5.99 327 P 58 54.90 -3.4X
FVI 6.05 336 P 58 55.40 -3.6X
S.D. = 0.7 on 16 of 22 obs.

? FEB 25, 1991 22h 20m 17.19± 2.31s
18.228 N ±13.8km 67.236 W ±22.5km
DEPTH = 33.0km (normal)
MONA PASSAGE (89)

MCP 0.22 32 P 20 24.20 0.2
MGP 0.26 148 P 20 24.20 -0.2
PORP 0.60 107 P 20 29.80 0.6
SJG 1.04 96 iP 20 31.50 -4.0X
CPD 1.27 98 P 20 39.00 0.3
LPR 1.30 86 P 20 38.40 -0.8
S.D. = 0.8 on 5 of 6 obs.

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* FEB 25, 1991 23h 08m 32.48± 0.54s
9.265 N ± 7.5km 126.380 E ±15.6km
DEPTH = 60.0km (geophysicist)
4.7mb (9 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

SSE 22.25 348 P 13 27.80 2.2
0.8s 10.00nm 4.3mb
NJ2 23.72 344 Pc 13 41.50 1.6
TIA 28.11 344 eP 14 20.00 -0.8
XAN 29.42 330 P 14 30.40 -2.2
WB2 30.07 165 iPd 14 35.90 -2.5
BJI 31.97 345 eP 14 54.00 -0.9
1.0s 9.00nm 4.6mb
SNY 32.53 356 eP 14 59.20 -0.5
HHC 34.09 340 eP 15 13.00 -0.5
WARB 35.24 180 iPd 15 23.80 0.5
FORR 39.92 178 iPc 16 02.40 0.0
KLB 41.45 191 eP 16 16.00 1.0
MUN 42.15 193 eP 16 21.70 1.0
GUN 42.37 301 P 16 23.40 0.3
0.8s 31.00nm 5.1mb
PKI 42.67 301 P 16 25.40 -0.1
0.7s 11.00nm 4.7mb
KKN 42.84 301 P 16 26.20 -0.6
0.8s 12.00nm 4.7mb
DMN 42.94 301 P 16 26.60 -1.0
GKN 43.45 301 P 16 31.00 -0.6
0.6s 9.00nm 4.7mb
WMO 48.08 323 P 17 08.70 0.6
GBA 48.10 280 P 17 09.80 1.3
KEV 84.61 340 eP 20 48.00 -12.3X
SOD 85.25 337 eP 21 03.00 -0.5
KAF 86.56 332 eP 21 10.40 0.3
0.5s 2.70nm 4.7mb
MBC 86.66 13 eP 21 11.50 1.1
1.0s 6.00nm 4.7mb
pP 21 23.00 37kmX
NUR 87.72 331 eP 21 16.10 0.4
YKA 94.63 24 eP 21 47.70 -0.1
0.6s 0.80nm 4.3mb
S.D. = 1.2 on 24 of 25 obs.

FEB 25, 1991 23h 14m 04.61± 0.98s
39.628 N ± 7.1km 24.097 E ± 6.6km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
MD 3.1 (ATH), 3.1 (THE).

PAIG 0.44 313 eP 14 14.10 0.5
eS 14 20.20
NEO 0.75 245 eP 14 20.00 0.7
SOH 1.32 335 eP 14 29.20 0.2
LIT 1.32 291 eP 14 28.50 -0.6
eS 14 46.00
THE 1.33 319 eP 14 28.90 -0.2
eS 14 46.50
AGG 1.50 247 eP 14 31.70 0.1
SRS 1.54 346 eP 14 33.20 1.1
eS 14 53.50
PRK 1.73 102 eP 14 41.00 6.2X
EZN 1.73 83 ePn 14 28.00 -6.9X
KNT 1.79 330 eP 14 35.80 0.1
GRG 1.86 316 eP 14 37.20 0.5
eS 15 01.50
RDO 1.87 35 eP 14 37.00 0.1
KZN 1.91 292 eP 14 36.20 -1.4
MMB 1.98 352 ePd 14 38.00 -0.5
VAY 2.05 326 ePn 14 40.00 0.4
KDZ 2.26 26 iPc 14 42.00 -0.5
OHR 2.92 302 ePn 14 51.50 -0.5
S.D. = 0.7 on 15 of 17 obs.

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* FEB 25, 1991 23h 36m 34.30± 2.81s
51.256 N ±21.8km 15.923 E ±15.7km

DEPTH = 10.0km (geophysicist)
POLAND (548)
ML 3.5 (GRF), 3.1 (VKA).

KSP	0.47	150	iPc	36 44.00	0.1
			iS	36 53.80	
			eLR	37 00.00	
PRU	1.54	215	Pn	37 02.30	0.4
			Pg	37 04.00	
			eSn	37 20.50	
			eSg	37 27.00	
CLL	1.83	273	ePn	37 06.00	-0.1
			iPg	37 10.20	
			iSg	37 31.80	
KHC	2.61	216	Pn	37 17.00	-0.2
			Pg	37 24.20	
			eSg	38 04.20	
MOX	2.79	259	e(P)	37 27.00	7.2X
VKA	3.01	175	iPgc	37 32.00	9.2X
			iSg	38 14.60	
ZST	3.16	166	e(P)	38 13.60	48.6X
GRF	3.39	244	ePg	37 28.40	0.1
			eSg	38 24.20	
SPC	3.46	125	eP	38 19.80	50.3X
KBA	4.51	203	e(Pn)	37 44.00	-0.3
			e(Sn)	39 00.00	

S.D. = 0.4 on 6 of 10 obs.

FEB 25, 1991 23h 46m 59.98± 0.53s
41.505 N ± 6.4km 14.252 E ± 4.9km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

DUI	0.22	45	Pd	47 04.60	-0.2
			eSg	47 10.20	
AZI	0.78	309	P	47 13.50	-1.6
			eSg	47 27.60	
AQU	1.06	324	P	47 20.60	0.6
RDP	1.18	283	P	47 22.10	0.1
			eSg	47 38.50	
RMP	1.20	285	P	47 21.80	-0.6
			eSg	47 40.50	
SGO	1.24	139	P	47 22.10	-0.9
MNS	1.47	307	P	47 27.00	0.5
MGR	1.69	144	P	47 31.00	1.4
ASS	1.96	323	P	47 34.50	0.9
BAI	2.01	100	P	47 35.00	0.8
ARV	2.21	335	P	47 38.00	0.7
BRT	2.31	105	P	47 38.00	-0.7
HVAR	2.33	44	eP	47 37.30	-1.7
CRE	2.72	322	P	47 44.20	-0.4
RSM	2.76	332	P	47 49.20	4.2X
SFI	2.99	325	P	47 48.00	-0.3
PTJ	4.56	15	eP	48 12.00	1.3

S.D. = 1.0 on 16 of 17 obs.

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* FEB 26, 1991 01h 01m 21.96± 0.86s
37.657 N ±11.5km 118.833 W ± 7.7km
DEPTH = 10.0km (geophysicist)
CALIFORNIA-NEVADA BORDER REGION (40)
MD 3.0 (GM).

BONR	0.52	55	iP	01 31.90	-0.6
CMB	1.29	288	eP	01 44.50	-1.3
TNP	1.35	71	eP	01 47.00	0.1
KVN	1.51	22	eP	01 50.00	0.8
ARN	2.17	263	eP	02 00.00	1.3
BCH	2.67	203	eP	02 05.50	-0.3

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

& FEB 26, 1991 01h 12m 10.31s
63.264 N 150.548 W
DEPTH = 133.2km
CENTRAL ALASKA (1)
<AEIC>.

TRF	0.22	32	iP	12 28.73	1.5
			eS	12 42.34	
HUR	0.50	124	eP	12 29.61	-0.4
			S	12 44.59	
RND	0.78	79	iP	12 31.53	-0.4
			eS	12 47.10	
MCK	0.86	56	eP	12 32.13	-0.5
			S	12 48.39	
CUT	0.87	171	iP	12 32.24	-0.4
			eS	12 49.82	
BWN	1.03	27	eP	12 33.92	-0.2
SKT	1.37	200	eP	12 36.83	-0.7
WRH	1.63	41	eP	12 39.47	-1.0
PWA	1.65	169	eP	12 40.32	-0.3
GHO	1.68	153	eP	12 40.72	-0.4
PLRM	1.80	158	eP	12 41.25	-1.2
SUA	1.81	183	eP	12 42.96	0.3
CCB	1.84	40	eP	12 42.01	-0.9
RDS	1.89	33	eP	12 42.69	-0.9
HDA	1.96	53	eP	12 43.33	-1.1
NCG	2.01	203	eP	12 44.86	-0.3
PMS	2.08	167	eP	12 45.25	-0.6
KNK	2.10	151	eP	12 45.35	-0.8
CRP	2.14	201	eP	12 41.20	-5.6
BGL	2.19	204	eP	12 47.98	0.7
SPU	2.21	199	eP	12 47.04	-0.4
GLM	2.22	37	eP	12 46.76	-0.9
CKL	2.24	203	eP	12 47.77	-0.2
PAX	2.33	95	eP	12 48.42	-0.6
TOA	2.33	118	eP	12 48.33	-0.7
SDG	2.41	106	eP	12 50.33	0.3
KLU	2.79	127	eP	12 53.43	-1.6
RDT	2.84	199	eP	12 55.27	-0.3

28 obs. associated

? FEB 26, 1991 01h 19m 27.39± 6.75s
31.353 N ±147.km 67.200 E ±82.9km
DEPTH = 33.0km (normal)
4.3mb (1 obs.)
AFGHANISTAN (709)

NDI	9.08	104	eP	21 39.00	-0.2
GKN	15.52	98	P	23 05.80	0.2
DMN	16.03	99	P	23 13.00	0.7
KKN	16.13	98	P	23 13.20	-0.2
PKI	16.30	99	P	23 15.60	-0.1
GUN	16.60	97	P	23 19.00	-0.5
YKA	86.47	1	eP	32 07.60	0.0

0.8s 1.60nm 4.3mb
S.D. = 0.5 on 7 of 7 obs.

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* FEB 26, 1991 02h 58m 35.49± 0.84s
36.680 N ± 7.9km 25.470 E ±10.4km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)
MD 3.5 (ATH).

APE	0.39	7	ePg	58 43.00	-0.5
NPS	1.42	175	ePb	59 01.00	-0.3
SMG	1.50	46	ePb	59 03.00	0.6
VLI	2.04	272	ePn	59 10.50	0.3
IZM	2.23	39	ePn	59 13.00	-0.1

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

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* FEB 26, 1991 03h 37m 32.38± 0.66s
45.752 N ±14.9km 26.699 E ±14.3km
DEPTH = 130.0km (geophysicist)
ROMANIA (358)

VRI	0.12	9	iPc	37 49.20	-0.4
CVO	0.37	281	iPc	37 50.90	-0.2
MLR	0.59	244	iPc	37 52.40	0.0
ISR	0.62	190	iPc	37 53.00	0.5
CLI	0.90	27	iPc	37 55.00	0.4
CFR	1.17	118	iPc	37 57.00	-0.2

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

FEB 26, 1991 05h 07m 59.33± 0.51s
41.029 N ± 4.9km 22.394 E ± 4.1km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.7 (SKO).

GRG	0.07	175	eP	08 02.00	0.2
			eS	08 03.40	
VAY	0.32	24	iPg	08 06.20	0.2
			iSg	08 10.00	
KNT	0.40	71	iPd	08 07.72	0.1
			eS	08 13.56	
THE	0.59	132	ePd	08 10.56	-0.6
			eS	08 18.52	
SOH	0.76	106	eP	08 13.30	-0.9
FNA	0.81	253	eP	08 14.60	-0.5
KZN	0.86	214	ePb	08 14.20	-1.8
SRS	0.91	84	ePd	08 16.64	-0.1
			iS	08 29.04	
LIT	0.93	175	ePd	08 17.24	0.1
			eS	08 31.20	
PLG	1.03	129	ePb	08 19.00	0.1
SKO	1.18	323	iPgc	08 21.30	-0.1
			i	08 35.90	
			iSg	08 37.40	
			Lg	08 45.20	
OHR	1.21	274	iPn	08 21.60	-0.3
			iSg	08 38.30	
			Lg	08 38.80	
PAIG	1.47	138	iPd	08 27.04	1.1
			eS	08 47.70	
IGT	2.17	227	ePd	08 38.24	2.2
RDO	2.38	86	ePn	08 44.00	5.0X

S.D. = 1.0 on 14 of 15 obs.

% FEB 26, 1991 05h 50m 14.74± 0.66s
38.152 N ± 7.0km 28.895 E ± 5.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.1 (ISK).

KHL	0.52	71	iPg	50 25.10	-0.3
			iSg	50 32.60	
YER	1.13	206	iPn	50 35.80	-0.1
IZM	1.31	281	iPn	50 39.10	0.1
ALT	1.31	46	iPn	50 39.40	0.4
DST	1.47	352	ePn	50 41.00	-0.3
BCK	1.51	117	ePn	50 42.00	0.1

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

& FEB 26, 1991 06h 38m 34.94s
63.609 N 149.623 W
DEPTH = 122.7km
3.4mb (2 obs.)
CENTRAL ALASKA (1)
<AEIC>.

MCK	0.33	68	eP	38 52.49	1.7
			eS	39 05.44	
TRF	0.34	242	iP	38 52.50	1.5
			iS	39 06.03	
RND	0.40	120	eP	38 52.53	-0.5
			eS	39 06.04	
BWN	0.57	7	iP	38 53.82	-0.1
			eS	39 07.70	
HUR	0.63	181	iP	38 53.88	-0.5
			eS	39 08.59	
NEA	1.00	14	iP	38 56.72	-0.8
			eS	39 13.62	
WRH	1.10	37	iP	38 57.96	-0.5
CUT	1.24	194	iP	38 59.45	-0.5
CCB	1.31	37	iP	39 00.10	-0.6
RDS	1.38	27	iP	39 01.11	-0.5
			eS	39 20.61	
HDA	1.42	55	iP	39 01.44	-0.6
			eS	39 22.02	
MDM	1.49	24	iP	39 02.29	-0.5
			eS	39 22.31	
FBA	1.52	31	iP	39 02.70	-0.5
DDM	1.68	82	eP	39 04.96	-0.2
			eS	39 26.87	
GLM	1.69	34	iP	39 04.66	-0.6
THY	1.75	95	eP	39 06.82	0.9
SKT	1.85	209	iP	39 05.84	-1.4
GHO	1.87	170	eP	39 07.12	-0.4
			eS	39 32.50	
PWA	1.97	184	eP	39 08.21	-0.4
PAX	1.98	107	eP	39 09.14	0.3
			eS	39 37.23	
PLRM	2.04	173	eP	39 08.71	-0.7
PMR	2.04	173	eP	39 09.00	-0.4
SDG	2.15	118	eP	39 10.88	0.0
TOA	2.19	132	eP	39 11.50	0.1
SUA	2.22	194	iP	39 09.49	-2.3
KNK	2.27	166	eP	39 11.79	-0.7
PMS	2.37	179	eP	39 13.17	-0.6
DOT	2.48	87	eP	39 14.41	-0.8
TZL	2.49	127	eP	39 15.10	-0.1
NCG	2.51	209	iP	39 12.53	-3.1
CRP	2.63	208	eP	39 14.01	-3.2
BGL	2.68	210	eP	39 15.26	-2.6
SPU	2.69	206	eP	39 14.33	-3.5
KLU	2.73	139	eP	39 17.50	-1.0
CKL	2.73	209	iP	39 15.44	-3.1
VLZ	2.92	147	eP	39 19.35	-1.5
VZW	2.93	149	eP	39 19.69	-1.4
TTA	2.97	260	eP	39 20.00	-1.6
NKA	2.97	195	eP	39 22.24	0.6

26d 06h

GLI	2.98	156	eP	39	20.11	-1.6	LCI	3.17	86	Pc	26	52.30	0.0	DDI	6.51	314	Pd	27	26.50	0.3
TMW	2.99	93	eP	39	20.96	-0.9	MEU	3.20	164	Pc	26	50.50	-2.3				eS	28	48.00	
IMA	3.02	327	eP	39	20.80	-1.5	ARV	3.37	349	Pd	26	54.80	0.6	PZZ	6.59	313	Pd	27	27.51	0.3
SLKM	3.13	185	eP	39	22.09	-1.6	HVAR	3.58	32	iPd	26	55.40	-0.5	BHB	6.72	316	Pd	27	28.12	-0.3
RDT	3.32	204	eP	39	22.94	-3.3	PTS	3.67	204	P	26	56.70	-0.1	TAVF	6.73	303	P	27	33.97	5.3X
KNIM	3.39	164	eP	39	25.39	-1.8	CRE	3.71	339	Pc	26	57.80	0.5	VAY	6.74	77	iPnc	27	29.30	0.6
NCT	3.43	208	eP	39	24.85	-3.0				iS	27	53.50			0.8s	987.00nm				6.0mb
RDN	3.44	207	eP	39	24.45	-3.5	RSM	3.88	345	P	26	59.60	1.0				i	27	36.70	
REF	3.45	206	eP	39	24.88	-3.3	PGD	4.00	338	P	27	00.70	0.6				i	28	46.60	
GLB	3.46	126	eP	39	27.62	-0.6	SFI	4.01	339	Pc	27	01.00	1.1				i	28	50.40	
RS2	3.49	206	eP	39	25.84	-2.8				iS	27	58.70					i	28	53.00	
RSO	3.49	206	eP	39	25.38	-3.3	FIR	4.07	333	iPnd	27	01.50	1.0				i	28	54.00	
RS1	3.49	206	eP	39	23.58	-5.1				iSn	27	59.50		BEO	6.74	44	iP	27	29.20	0.5
SEW	3.52	179	eP	39	27.95	-0.9				i	28	28.00					iS	28	48.40	
RED	3.53	206	eP	39	26.26	-2.9	HCY	4.18	56	iPnc	27	02.20	0.5	VAI	6.78	329	Pd	27	27.30	-1.7
HIN	3.54	154	eP	39	27.75	-1.5				iSn	27	58.85		FOUF	6.78	312	ePd	27	30.92	1.8
CVA	3.57	148	eP	39	28.18	-1.4	PII	4.30	326	P	27	05.60	2.8X	BERF	6.84	300	P	27	34.60	4.7X
NNL	3.67	193	eP	39	30.51	-0.4	KCHT	4.31	226	iPc	27	03.50	0.5	KBA	6.90	357	iPnd	27	31.10	0.5
SGAM	3.75	144	eP	39	30.98	-1.0	BDV	4.32	59	iPnc	27	03.70	0.7				i(Sn)	29	13.70	
MTU	3.75	165	eP	39	30.58	-1.5				iSn	28	01.66		ORO	6.92	324	P	27	28.47	-2.4
SVW	3.76	231	ePc	39	30.90	-1.2	PGF	4.33	305	P	27	04.30	1.1		0.3s	366.30nm				6.0mb
RAGM	3.99	142	eP	39	35.38	0.1	BRY	4.46	51	iPnc	27	05.01	0.4	PUYF	6.92	302	P	27	35.62	4.8X
HOM	4.08	195	eP	39	35.24	-1.2				iSn	28	05.43		ORX	6.93	324	P	27	28.81	-2.1
CNPM	4.17	191	eP	39	36.03	-1.7	ULC	4.47	65	iPnd	27	04.80	0.3	RSP	6.93	318	P	27	30.03	-0.9
BALM	4.26	124	eP	39	37.60	-1.5				iSn	28	03.56		CDR	6.94	303	iP	27	32.20	1.2
BALM	4.26	124	eP	39	41.00	1.9	BDI	4.56	329	Pc	27	05.60	0.2				i	27	32.40	
TGL	4.28	129	eP	39	37.69	-1.6	MME	4.63	331	Pd	27	06.50	0.2				i	28	57.20	
PDB	4.41	212	eP	39	39.40	-1.5				iS	28	09.00					i	28	58.50	
INK	8.07	47	P	40	29.00	-1.7	TTG	4.67	60	iPnc	27	07.23	0.8	OGA	6.98	344	iPd	27	30.70	-0.9
	0.7s	1.10nm			3.6mb					iSn	28	09.43		SCE	7.02	348	iPd	27	31.60	-0.4
YKA	15.79	78	eP	42	11.80	0.5	NKY	4.69	54	iPnc	27	07.33	0.5	RRL	7.03	315	Pd	27	33.17	1.0
	0.7s	1.10nm			3.2mb					iSn	28	10.05		OSS	7.03	339	ePd	27	31.70	-0.4
	69 obs. associated						ZGN	4.80	219	iPc	27	08.00	0.2	GELF	7.04	300	P	27	36.40	4.3X
----------							RIY	5.17	4	iPd	27	11.60	0.0	VDL	7.05	335	ePd	27	31.30	-1.1
FEB 26, 1991 07h 25m 47.27± 0.13s							BLY	5.19	27	iP	27	12.80	1.0	VILF	7.06	304	P	27	37.30	4.9X
40.186 N ± 2.1km 13.822 E ± 1.5km										S	28	15.80		BNI	7.17	315	P	27	34.80	1.1
DEPTH = 401.2 ± 1.5 km							PVY	5.22	61	iPnc	27	13.71	1.4	TREF	7.17	301	P	27	38.19	4.6X
5.5mb (76 obs.)										iSn	28	18.95		LSD	7.19	319	P	27	32.81	-1.3
TYRRHENIAN SEA						(389)	PLE	5.22	51	iPnc	27	13.33	1.0	WTTA	7.25	348	iPnd	27	34.80	0.2
CENTROID, MOMENT TENSOR						(HRV)				iSn	28	20.95		MMK	7.26	326	ePd	27	31.80	-3.0X
Data Used: GDSN							IVA	5.29	58	iPnc	27	14.50	1.5	SOTA	7.28	346	iPnd	27	35.10	0.2
L.P.B.: 19S, 40C										iSn	28	21.91					i	27	46.20	
Centroid Location:							OHR	5.39	78	iPnd	27	15.10	1.1				i	28	54.10	
Origin Time 07:25:46.9 1.3								1.1s	1593.00nm			5.9mb					i	29	06.00	
Lat 39.50N 0.15 Lon 14.01E 0.09										i	28	12.30		WATA	7.33	348	iPnd	27	35.70	0.2
Dep 396.0 4.0 Half-duration 2.0										i	28	19.50					i	27	51.30	
Moment Tensor; Scale 10**16 Nm										i	28	25.00		TIH	7.33	22	iPn	27	36.00	0.7
Mrr= 2.97 0.44 Mtt=-6.29 0.87							TRI	5.52	360	iPnd	27	15.10	-0.2	PRAF	7.39	302	P	27	40.18	4.1X
Mff= 3.32 0.76 Mrt=-2.03 0.60										iSn	28	22.30		MOTA	7.42	346	iPnd	27	36.20	-0.3
Mrf=-6.07 0.62 Mtf=-6.67 0.63							BOB	5.60	326	Pd	27	16.70	0.4				i	27	47.30	
Principal Axes:							IMI	5.77	312	Pd	27	19.17	1.0	LPG	7.43	318	iPd	27	37.50	0.8
T Val= 10.06 Plg=36 Azm= 73							FIN	5.79	316	Pd	27	19.28	1.0	LPL	7.45	318	iPd	27	37.60	0.7
N 1.24 47 216							ZAG	5.85	15	iPd	27	19.20	0.4	VTS	7.46	68	iPc	27	37.00	0.0
P -11.30 19 328										iS	28	31.00		DIX	7.53	324	ePd	27	37.00	-0.9
Best Double Couple:Mo=1.1*10**17							PCP	5.85	320	Pd	27	19.25	0.3	LLS	7.54	334	ePd	27	36.90	-1.0
NP1:Strike=104 Dip=49 Slip= 166							LJU	5.88	5	iPnd	27	19.50	0.3	BHG	7.56	355	iPd	27	38.20	0.2
NP2: 204 79 42										iSn	28	32.50		RSL	7.62	319	P	27	38.74	-0.1
							VVI	5.88	350	P	27	18.90	-0.4	MMB	7.64	76	iPc	27	39.00	0.1
SGO	1.20	71	Pd	26	40.00	0.8	CKI	5.90	318	Pd	27	20.50	1.1	EMS	7.74	322	ePd	27	39.20	-1.0
			eSn	27	23.50					eS	28	35.00		SAX	7.77	337	ePd	27	39.30	-1.3
MGR	1.33	92	Pc	26	40.10	0.0	PTJ	5.92	15	iPd	27	19.50	-0.2	PGB	8.13	70	iPc	27	45.00	0.4
			eSn	27	22.00		SAL	5.93	337	Pd	27	19.00	-0.7	FUR	8.18	348	iPd	27	44.40	-0.7
DUI	1.55	18	Pd	26	42.50	1.2				eS	28	33.00		BUD	8.20	26	iPnd	27	46.20	0.9
			eSn	27	26.10		REVF	5.98	309	P	27	21.44	1.1	VKA	8.27	12	iPnd	27	47.00	0.9
USI	1.56	199	P	26	41.00	-0.2	SBF	6.01	310	iPd	27	21.90	1.2		1.8s	2821.00nm				6.2mb
RDP	1.78	332	Pd	26	44.00	1.5	SAOF	6.01	311	P	27	22.09	1.4	ZLA	8.28	334	ePd	27	44.40	-1.8
AZI	1.82	351	Pd	26	44.10	1.5	SKO	6.03	70	iPnc	27	14.00	-6.8X	SRO	8.28	21	iPd	27	47.40	1.2
RMP	1.83	333	Pd	26	44.00	1.3		1.6s	3688.00nm			6.2mb					i	27	56.70	
TDS	2.01	104	Pc	26	43.50	-0.3				i	28	32.60					i	28	34.60	
			iS	27	28.00					iSn	28	33.70					i	29	20.70	
ORI	2.02	93	Pd	26	43.60	-0.3				i	28	34.20		ZST	8.35	15	iPd	27	47.50	0.6
AQU	2.19	352	P	26	46.60	1.6				i	28	35.50					i	28	16.40	
GIB	2.20	176	Pc	26	44.20	-0.9	ROB	6.03	315	Pd	27	22.38	1.5				i	28	24.50	
			iS	27	29.50		CTI	6.07	346	Pd	27	21.00	-0.4	RZN	8.38	76	iP	27	48.00	0.4
MNO	2.35	163	Pd	26	45.90	-0.4				iS	28	37.00		ESEL	8.40	271	eP	27	48.10	0.5
			iS	27	33.50		AURF	6.09	310	P	27	22.85	1.3	PLD	8.43	73	iPc	27	48.00	0.0
MNS	2.36	339	Pd	26	47.40	1.3	AUTN	6.09	311	P	27	23.24	1.5	SLE	8.49	335	ePd	27	46.60	-2.1
			iS	27	33.50		TOUF	6.21	310	P	27	24.80	1.8	SSB	8.51	310	P	27	48.99	0.0
MSI	2.39	145	P	26	44.60	-1.7	ENR	6.24	312	Pd	27	24.86	1.6	ETER	8.53	288	eP	27	49.10	0.0
BAI	2.50	67	Pd	26	47.00	0.0	CALN	6.28	307	P	27	25.12	1.4	BBS	8.58	330	P	27	47.45	-2.3
MCT	2.56	183	P	26	47.80	0.1	STV	6.30	312	Pd	27	25.44	1.5	FEL	8.75	333	eP	27	49.38	-2.3
CVT	2.63	198	P	26	48.00	0.0	LMR	6.31	302	iPd	27	25.00	1.1	DEV	8.75	46	iPc	27	55.00	3.4X
BRT	2.67	74	Pc	26	47.30	-1.1	FRF	6.33	305	iPd	27	25.40	1.3	LOMF	8.77	327	P	27	49.35	-2.5
SOI	2.73	140	Pd	26	46.80	-2.0	MDI	6.35	333	Pd	27	22.70	-1.6	PSZ	8.88	27	iPn	27	55.20	2.0
FAI	2.91	182	P	26	50.00	-0.2	FVI	6.45	354	Pc	27	25.40	0.0	KDZ	8.90	77	iPd	27	53.00	-0.4
MAO	3.00	319	P	26	52.20	1.2				iS	28	43.00		DRA	8.92	56	iPd	27	55.00	1.3
ASS	3.01	344	Pd	26	51.90	0.8	LRG	6.46	303	iPd	27	27.20	1.6	KHC	8.95	359	iPd	27	53.70	-0.2

	1.1s	268.00nm			5.5mb
WET	8.98	356	iPd	27 53.70	-0.6
DIM	9.03	74	iP	27 55.00	0.0
MOF	9.05	330	P	27 52.66	-2.5
PVL	9.13	67	iP	27 54.00	-2.0
BSF	9.16	329	P	27 54.01	-2.5
STU	9.20	340	iPd	27 55.00	-1.8
	0.8s	537.31nm			5.9mb
LBL	9.27	306	P	27 58.38	0.7
ECH	9.34	331	P	27 56.41	-2.1
PLDF	9.44	311	P	27 59.19	-0.5
WLS	9.44	333	P	27 57.69	-1.9
CDF	9.46	332	P	27 57.96	-2.0
HAU	9.48	328	iPd	27 57.90	-2.2
	0.5s	546.65nm			6.2mb
EZN	9.60	88	iP	28 01.20	-0.3
PYM	9.68	309	P	28 02.39	-0.1
GRF	9.68	350	iPd	28 01.70	-0.7
			eS	29 48.80	
CMP	9.69	55	iPc	27 48.00	-14.6X
SMF	9.71	315	iPd	28 01.20	-1.6
CEI	9.74	37	eP	28 07.00	3.9X
PRU	9.82	3	iPd	28 04.40	0.4
	1.0s	1278.80nm			6.3mb
			e	29 06.30	
			iS	29 54.00	
GWF	9.84	335	P	28 03.00	-1.2
LBF	9.85	317	iPd	28 02.50	-2.0
JMB	9.87	73	iPc	28 04.00	-0.7
CAF	9.88	302	iPd	28 05.20	0.3
MLS	9.94	290	P	28 05.10	-0.4
BUC1	9.96	61	iPc	27 57.00	-8.7X
BUC	10.03	61	iPc	28 07.00	0.5
AVF	10.07	314	iPd	28 05.60	-1.3
SPC	10.09	25	iPd	28 08.80	1.4
			i	30 02.50	
LOR	10.10	318	iPd	28 05.20	-2.1
	0.6s	295.90nm			5.9mb
SSF	10.15	316	iPd	28 06.10	-1.8
EBR	10.17	278	iP	28 08.50	0.3
MAF	10.19	310	iPd	28 07.80	-0.6
BGF	10.21	312	iPd	28 07.80	-0.8
HOF	10.22	353	iPd	28 08.30	-0.4
BMR	10.23	40	ePc	28 11.00	2.2
MLR	10.36	55	iPc	28 01.90	-8.6X
LPO	10.36	300	iPd	28 10.80	0.4
RJF	10.39	304	iPd	28 11.60	0.8
EPF	10.49	290	iPd	28 10.50	-1.5
	0.6s	126.80nm			5.5mb
IZM	10.57	95	iP	28 12.60	-0.3
MOX	10.57	352	iPd-	28 13.00	0.2
	1.2s	1924.00nm			6.4mb
ISR	10.59	58	iPc	28 04.00	-9.2X
CVO	10.65	54	eP	28 04.00	-9.8X
ABH	10.66	338	eP	28 13.00	-0.8
DMK	10.66	77	iP	28 13.70	-0.2
TNS	10.73	341	iPd	28 14.80	0.2
EDC	10.73	85	iP	28 15.00	0.3
LFF	10.75	300	iPd	28 15.20	0.3
KRA	10.77	22	eP	28 15.60	0.6
	0.6s	123.00nm			5.5mb
			i	28 17.00	
			e	28 25.20	
BNT	10.78	85	iP	28 15.00	-0.2
KSP	10.80	8	iPd	28 15.80	0.5
	0.9s	469.00nm			5.9mb
			i	28 24.50	
			i	29 40.80	
			i	30 10.50	
BTH	10.90	290	P	28 15.50	-1.1
			e	28 17.10	
			e	28 19.00	
			e	28 25.10	
			S	30 17.80	
			e	30 19.00	
			e	30 23.00	
			e	30 24.10	
WLF	10.92	333	P	28 16.00	-0.7
JAU	11.00	290	P	28 17.73	-0.2
OGE	11.10	290	P	28 18.75	-0.2
KCT	11.12	85	iP	28 18.70	-0.5
CLL	11.14	357	iPd	28 19.90	0.6
	1.2s	1050.00nm			6.1mb
			iS	30 22.00	
			iPcS	37 17.10	
			eScS	40 05.00	
ACU	11.15	266	eP	28 19.40	-0.2
ESCF	11.16	290	P	28 19.53	-0.1
LHE	11.16	289	P	28 19.68	-0.1
ATE	11.25	290	P	28 20.87	0.1
PSN	11.25	67	iPc	28 28.00	7.2X
ISSF	11.31	289	P	28 21.33	-0.2
PTT	11.33	49	eP	28 20.00	-1.7
MADF	11.34	290	P	28 21.33	-0.6
ECHE	11.38	272	eP	28 23.30	0.9
DST	11.39	88	iP	28 22.20	-0.3
CIN	11.41	99	eP	28 22.00	-0.7
ELYF	11.47	290	P	28 21.93	-1.5
BOH	11.48	290	P	28 23.28	-0.3
STB	11.50	337	ePd	28 23.50	-0.1
ISK	11.62	81	iP	28 24.30	-0.8
CFR	11.67	60	iPc	28 14.10	-11.6X
CLI	11.67	53	eP	28 15.70	-10.1X
KLL	11.71	336	ePd	28 25.30	-0.8
	1.1s	751.00nm			6.0mb
YER	11.71	100	iP	28 25.30	-1.0
BNS	11.73	339	ePd	28 26.60	0.2
	1.3s	1450.00nm			6.2mb
MEM	11.77	335	iPd	28 26.06	-0.8
			i	28 39.62	
DOU	11.85	330	iPd-	28 26.40	-1.4
			S	30 38.00	
			e	32 07.00	
			iScP	36 32.30	
YLV	11.87	83	iP	28 25.50	-2.8X
ENN	11.94	335	iPd	28 28.50	-0.3
	1.0s	811.00nm			6.1mb
			e	28 38.50	
			e	28 45.50	
MFF	12.01	307	iPd	28 29.00	-0.7
EALH	12.08	264	eP	28 30.80	0.2
HRT	12.08	82	iP	28 29.30	-1.4
IAS	12.15	50	eP	28 31.00	-0.4
BRN	12.24	358	iPd	28 32.70	0.4
BRL	12.29	358	iPd	28 33.00	0.3
SNF	12.30	330	iPd	28 31.20	-1.6
			ic	28 32.00	
UCC	12.50	331	Pd-	28 33.90	-1.1
			ic	28 34.70	
GPA	12.60	84	iP	28 35.30	-1.0
ALT	12.61	90	iP	28 35.40	-1.1
EVIA	12.72	268	eP	28 37.50	-0.1
WTS	12.77	340	iPd	28 38.30	0.6
	0.8s	626.00nm			6.1mb
ENIJ	12.95	261	eP	28 37.80	-2.1
LDF	13.03	315	iPd	28 38.80	-1.8
ELL	13.07	100	iP	28 39.30	-1.9
LPF	13.23	311	iPd	28 41.20	-1.6
FLN	13.32	315	iPd	28 41.60	-2.1
	0.4s	859.30nm			6.5mb X
GRR	13.32	313	iPd	28 42.00	-1.7
DBN	13.33	336	iP-	28 45.00	1.3
			i	28 55.00	
BCK	13.36	96	iP	28 43.00	-1.3
WIT	13.55	341	iPd	28 47.10	1.0
TOL	13.70	274	iP	28 48.00	0.0
			iS	31 16.00	
EBAN	13.81	267	eP	28 48.60	-0.5
AFC	13.87	263	eP	28 49.90	-0.1
ECOG	13.88	263	eP	28 50.20	0.2
BBTK	14.52	85	eP	28 56.50	-0.3
			e	29 04.00	
MAL	14.70	262	iPc	28 58.00	-0.5
			iS	31 35.00	
BSD	14.95	2	iPd	29 02.10	1.0
	0.6s	380.00nm			6.0mb
EHOR	15.01	267	eP	29 01.40	-0.5
KAS	15.16	79	iPc	29 03.30	-0.2
EPRU	15.24	264	eP	29 02.90	-1.5
EJIF	15.59	262	eP	29 06.70	-1.2
PPCY	15.61	104	eP	29 06.30	-1.8
EMON	16.10	289	eP	29 12.60	-0.6
CSS	16.31	102	eP	29 13.80	-1.6
IFR	16.55	252	iPc	29 17.50	-0.5
			i	29 24.00	
			i	32 11.00	
FAM	16.80	102	eP	29 20.40	0.1
KVT	16.89	80	iP	29 21.00	-0.3
PTO	17.04	280	iPd	29 22.80	0.1
HLW	17.64	120	ePd	29 29.00	0.3
			eS	32 32.00	
KOT	17.91	119	eP	29 30.00	-1.4
AVE	18.33	255	iPc	29 35.50	-0.1
			i	32 40.00	
			i	32 41.50	
ECP	18.35	318	iPd	29 35.40	-0.2
BHL	18.50	103	Pc	29 36.50	-0.9
			S	32 46.00	
ETA	18.55	319	iPd	29 38.10	0.5
EKA	18.89	329	Pc	29 41.30	0.4
	0.5s	441.20nm			6.1mb
ESK	18.90	329	iPd	29 41.50	0.5
	0.5s	716.00nm			6.3mb
SHMJ	19.13	106	Pc	29 44.37	1.0
BURJ	19.40	107	Pd	29 46.97	0.9
SALJ	19.43	108	Pc	29 47.44	1.1
TIO	19.45	248	iP	29 46.90	0.3
			i	30 13.50	
JARJ	19.50	107	Pc	29 48.12	1.0
MASJ	19.60	109	Pc	29 49.12	1.1
MKRJ	19.63	109	Pc	29 49.47	1.1
LISJ	19.69	110	Pd	29 49.92	1.2
KMY	19.80	347	iPd	29 49.90	0.2
UPP	19.84	6	iPd	29 50.20	0.2
			iS	33 05.80	
			iScP	36 46.00	
HFS	19.97	360	eP	29 50.60	-0.8
	0.4s	727.50nm			6.5mb
MDSJ	20.04	108	Pc	29 53.54	1.3
OTRJ	20.03	109	Pc	29 53.65	1.4
ODD1	20.26	350	iP	29 54.70	0.5
VAL	20.31	313	iP	29 55.40	0.7
			e	32 34.00	
HOL	20.52	115	iPc	29 59.70	2.9X
GHZJ	20.65	111	Pc	29 59.94	1.6
BER	20.90	348	iP	30 00.20	-0.1
NB2	20.94	356	P	29 59.80	-1.0
BADA	20.95	117	iPc	30 02.90	1.9
ASK	21.02	348	iPc	30 01.39	0.0
AYN	21.42	115	iPc	30 08.30	2.8X
NUR	21.43	15	eP	30 05.00	-0.4
	0.7s	288.30nm			5.8mb
			i	33 33.60	
			i	33 41.20	
HYA	21.53	350	iPc	30 06.94	0.7
SUE	21.63	348	iPc	30 07.06	-0.2
FOO	22.10	349	iP	30 10.90	-0.7
FRO	22.28	349	iP	30 12.57	-0.7
KAF	23.23	15	iP	30 21.60	-0.4
	0.5s	66.70nm			5.3mb
WAJH	23.52	120	iPc	30 27.00	2.0
NSS	24.41	358	iPd	30 32.24	-0.5
TAB	25.23	84	eP	30 40.00	-0.6
KER	27.02	92	iPc	30 55.70	-0.9
LOF	28.00	360	iPd	31 03.98	-0.7
SOD	28.15	10	iP	31 05.60	-0.4
			i	32 20.00	
KTK1	29.32	7	iPd	31 15.67	-0.6
TRO	29.63	4	iPd	31 18.62	-0.3
KEV	30.44	9	iP	31 25.00	-0.9
	0.6s	45.60nm			5.0mb
			i	32 43.00	
AKU	31.32	335	iPd	31 34.90	1.3
	0.9s	97.48nm			5.1mb
REY	31.75	331	iP	31 38.30	1.1
KMSA	32.80	118	iPc	31 53.00	6.3X
JNW	32.94	347	eP	31 48.30	1.0
SRAT	33.57	123	iPc	31 55.30	1.8
DHJN	34.06	123	iPc	31 59.60	2.0
LKO	35.06	215	Pc	32 05.28	-0.4
	0.5s	14.50nm			4.6mb
BCAO	35.85	172	iPd	32 11.10	-1.2
	0.2s	112.00nm			5.9mb
			i	33 24.50	
			i	34 29.10	
TIC	37.43	212	P	32 24.70	-0.7
KIC	37.57	211	Pc	32 26.30	-0.3
	0.3s	11.50nm			4.7mb
LIC	37.81	212	Pc	32 28.30	-0.2
	0.5s	38.00nm			5.0mb
AAE	38.15	138	eP	32 32.10	0.4
KBS	38.86	359	iP	32 37.90	1.5
DAG	39.27	349	iPc	32 40.30	0.5
	0.7s	94.52nm			5.2mb
LWI	44.39	158	iPd	33 16.20	-5.6X
GDH	45.12	332	iPc	33 27.50	0.8
	1.0s	424.00nm			5.7mb
			e	35 13.00	
FRB	51.62	326	ePd	34 15.90	0.0
	0.6s	94.00nm			5.3mb
NDI	52.53	82	eP	34 21.00	-2.2

26d 07h

WMQ	53.31	60	iPc	34	28.20	-0.5			1.0s	200.00nm		5.7mb			0.3s	21.00nm						
	0.6s	300.00nm				5.8mb	IMA	73.64	355	ePd	36	41.50	2.2	NWAO	119.81	109	ePKP	43	50.60	-1.1
			pP	35	51.00	404kmX			0.7s	35.00nm		5.1mb		COOL	121.63	105	iPKPd	43	54.30	-1.0
BOM	54.51	95	iPc	34	34.90	-2.6X	FBA	74.26	352	ePd	36	44.00	1.4		0.3s	8.00nm						
	0.7s	5.50nm				4.0mb X			0.7s	26.20nm		5.0mb		WARB	123.30	98	iPKPd	43	58.00	-0.6
KMZ	54.52	166	iPc	34	48.00	10.3X	RSCP	74.30	303	P	36	42.90	-0.5		0.4s	11.00nm						
			i	36	03.50		CHG	74.47	78	iPc	36	44.50	-0.1	WRA	125.73	87	ePKP	44	02.70	-0.8
POO	55.52	94	iPc	34	40.00	-4.7X			1.0s	20.50nm		4.8mb		WB2	125.74	87	ePKP	44	02.70	-0.8
POO	55.52	94	iPc	34	40.50	-4.2X	BDT	75.47	80	iPc	36	47.90	-2.2	SPA	130.00	180	iPKPd	44	10.00	-0.4
PTZ	56.55	160	iPd	34	48.00	-3.9X			1.0s	103.50nm		5.5mb			1.0s	22.50nm						
			i	34	53.00		GYA	75.48	68	iPc	36	50.00	-0.2				i	47	54.50			
			i	35	02.00				1.0s	200.00nm		5.8mb		QIS	130.10	84	iPKPd	44	11.00	-0.8
			i	36	12.00		ANM	75.59	360	ePd	36	51.90	1.9	TOO	142.65	102	ePKP	44	30.00	-4.6X
LSZ	56.77	163	iPd	34	52.50	-0.9	FVM	75.82	308	iPd	36	51.80	0.0		0.5s	55.00nm						
			i	35	05.00				0.7s	88.44nm		5.6mb					i	47	34.60			
			i	35	44.00		CN2	76.18	44	iPc	36	53.80	0.1	BRS	143.89	82	iPKPc	44	35.40	-1.6
			i	36	14.00				1.0s	150.00nm		5.7mb		COO	144.77	88	iPKPc	44	38.10	-0.3
CBM	57.20	306	iPd	34	55.50	-0.6					epP	38	17.00	367kmX		0.8s	116.00nm					
GKN	58.48	78	P	35	03.20	-2.0					esP	38	55.00		CNB	144.79	97	iPKPc	44	38.10	-0.3
DMN	59.04	79	P	35	07.80	-1.4					eS	46	04.00		TAU	145.43	110	iPKPc	44	40.40	1.3
KKN	59.08	78	P	35	07.80	-1.6	TIA	76.38	54	Pc	36	55.00	0.1	TPT	150.11	322	PKP	44	55.20	8.1X
PKI	59.29	78	P	35	09.20	-1.8	EDM	76.40	330	iPd	36	55.70	1.0		0.8s	20.00nm						
GUN	59.46	78	P	35	10.20	-2.0	OLLA	76.47	272	iP	36	57.00	1.2	RUV	150.18	321	PKP	44	55.30	8.1X
HYB	59.77	92	iPc	35	11.40	-2.6X	KHT	76.67	82	iPc	36	57.00	0.2		0.8s	20.00nm						
	1.0s	100.00nm				5.2mb	TOA	76.78	350	eP	36	58.60	1.8	PMO	150.26	322	PKP	44	55.40	8.0X
MBC	60.09	348	iPd	35	15.60	0.3	TTA	76.91	355	ePd	37	00.00	2.6X		0.8s	15.00nm						
	0.5s	11.00nm				4.6mb		0.6s	14.30nm			4.9mb		VAH	150.34	322	PKP	44	55.70	8.2X		
BUL	61.58	164	iPc	35	25.30	-0.5	BALM	77.27	348	P	37	00.00	0.5		0.8s	15.00nm						
			ipP	35	36.40	37kmX	NST	77.29	80	iPc	37	01.00	0.9	DZM	150.59	60	iPKPc	44	55.00	7.1X		
			iPP	36	03.90		LOE	77.42	78	eP	36	58.00	-2.9X		S.D. = 1.1 on 398 of 444 obs.							
			i	36	49.60		PMR	77.63	352	ePd	37	02.80	1.6	----------								
RSNY	62.28	306	P	35	29.80	-0.4		0.7s	16.40nm			4.9mb			FEB 26, 1991 07h 28m 45.44± 0.31s							
	0.7s	46.37nm				5.1mb	SES	77.67	327	ePd	37	02.80	1.0		39.214 N ± 7.4km 71.500 E ± 4.8km							
LSA	62.42	73	eP	35	30.80	-1.0	MDJ	77.76	41	iPc	37	03.00	0.7		DEPTH = 33.0km (normol)							
WIN	62.50	177	iPc	35	31.00	-0.9		1.0s	70.00nm			5.3mb			4.8mb (15 obs.)							
	1.0s	20.00nm				4.6mb	WHN	78.22	60	eP	37	04.00	-1.0		TAJIK SSR						(715)	
KOD	63.37	99	iPc	35	36.90	-1.0		1.0s	40.00nm			5.1mb			ML 4.8 (BJI).							
	0.8s	137.31nm				5.6mb	SVW	78.69	355	P	37	07.80	0.8									
GTA	63.39	60	iPc	35	37.20	-0.4		0.8s	75.86nm			5.5mb		KSH	3.48	85	P	29	40.00	1.2		
	0.6s	430.00nm				6.3mb	TOV	78.90	273	eP	37	11.70	2.8X	QUE	9.75	204	eP	31	10.00	3.4X		
			PcP	36	10.40		RSSD	79.16	320	ePd	37	10.50	0.4				eS	33	17.00			
			S	43	38.00			0.7s	29.41nm			5.1mb		NDI	11.52	154	eP	31	29.50	-1.2		
			ScS	44	50.80		SIT	79.69	343	eP	37	15.50	3.2X		0.7s	20.55nm				5.4mb		
SLR	66.95	166	iPc	35	59.50	-0.5	BSI	79.97	91	ePd	37	13.50	-1.0	WMQ	12.98	64	P	31	49.00	-1.2		
	0.9s	25.21nm				4.9mb	SDV	80.11	273	iP	37	16.90	1.5	GKN	15.63	132	P	32	19.40	-5.6X		
ELF	67.16	308	P	36	01.55	0.5	NJ2	80.17	56	iPc	37	16.20	1.0	KKN	16.16	131	P	32	26.40	-5.5X		
LDN	67.16	308	P	36	01.40	0.3		0.9s	200.00nm			5.8mb		DMN	16.20	132	P	32	27.00	-5.4X		
BFT	67.25	164	iPd	36	02.50	0.6	BIX	80.40	309	eP	37	28.00	11.6X		0.5s	21.00nm				4.5mb		
	0.7s	23.97nm				5.0mb	JFO	81.38	232	eP	37	23.00	1.4	PKI	16.40	131	P	32	29.00	-6.0X		
CBN	67.46	301	eP	36	04.00	1.0	NEW	81.79	329	iPd	37	24.80	1.3	GUN	16.43	129	P	32	30.00	-5.4X		
DLA	67.50	308	P	36	03.00	-0.2		0.7s	32.00nm			5.2mb			0.6s	25.00nm				4.5mb		
LZH	67.87	61	iPc	36	06.00	0.2					e	38	19.10	POO	20.71	174	eP	33	25.00	-0.5		
	1.2s	340.00nm				5.9mb					e	38	56.20	GTA	21.88	80	Pc	33	37.40	0.1		
			PcP	36	31.00		LRM	81.81	325	iPd	37	25.50	1.6		1.0s	30.00nm				4.7mb		
PRY	67.97	167	iPd	36	11.00	4.8X	SSE	82.29	56	Pd	37	26.20	0.0	HYB	22.57	162	eP	33	46.00	1.8		
	1.0s	25.00nm				4.9mb		1.0s	52.00nm			5.2mb		LZH	25.73	87	eP	34	15.00	0.4		
CLE	68.26	306	iP	36	08.20	0.4	GZH	82.31	66	P	37	27.80	1.4		1.0s	25.00nm				4.8mb		
BRW	68.61	357	ePd	36	11.50	2.1	QIZ	82.40	72	P	37	27.20	0.3				pP	34	19.00	14kmX		
PAG	68.85	273	eP	36	13.00	1.2	BMA	82.61	232	eP	37	29.50	1.6	GBA	26.04	167	P	34	15.00	-2.4X		
BBL	69.00	273	eP	36	13.50	0.8					e	37	30.90				e	35	21.80			
INK	69.09	348	iPd	36	12.30	-0.1	MEO	82.84	310	iPd	37	35.50	6.5X	CD2	27.56	98	P	34	32.00	0.6		
	0.6s	23.00nm				5.0mb	BW06	82.84	322	iPd	37	29.60	0.5	XAN	30.33	88	P	34	55.00	-1.1		
MVM	69.14	272	eP	36	14.96	1.4		0.8s	34.52nm			5.1mb		WHN	35.93	91	eP	35	44.20	-0.4		
FDF	69.23	272	eP	36	15.64	1.5	GLD	82.96	317	ePd	37	30.90	1.2	HFS	41.21	320	ePKP	36	29.20	0.9		
BTO	69.29	54	P	36	14.00	-0.2		1.0s	46.00nm			5.2mb			0.4s	4.00nm				4.5mb		
BIM	69.30	272	eP	36	16.51	2.0					e	39	01.30	BSF	46.46	303	eP	37	10.60	-0.3		
SEK	69.36	167	iPc	36	13.00	-1.7	GOL	83.07	317	iPd	37	31.90	1.5	LPL	47.11	300	eP	37	17.30	1.0		
	0.7s	34.25nm				5.1mb		0.7s	15.78nm			4.9mb			0.6s	6.30nm				4.8mb		
YKA	69.62	337	eP	36	15.60	-0.1	VAO	84.56	234	eP	37	39.90	2.3	SBF	47.11	297	eP	37	17.10	1.0		
	0.5s	26.00nm				5.1mb	OZH	84.71	62	Pc	37	38.20	-0.2		0.6s	10.80nm				5.0mb		
BLA	70.01	302	P	36	18.60	0.0		0.7s	60.00nm			5.5mb		FRF	47.75	297	eP	37	21.60	0.5		
	0.7s	12.78nm				4.7mb	IPM	84.94	88	ePc	37	39.90	0.2		0.7s	5.50nm				4.7mb		
HHC	70.09	53	iPc	36	19.00	-0.1		0.8s	72.90nm			5.6mb		LOR	48.52	303	eP	37	26.20	-0.8		
SOB1	70.45	239	eP	36	21.60	0.3	PPD	86.61	237	eP	37	50.20	2.7X		0.8s	8.05nm				4.8mb		
			e	36	24.00		ALQ	87.18	315	eP	37	51.30	0.8	LBF	48.53	302	eP	37	26.80	-0.3		
			e	36	37.80			1.0s	9.25nm			4.6mb		SMF	48.71	302	eP	37	28.00	-0.5		
FFC	70.72	326	iPd	36	23.70	1.3					e	39	27.50	AVF	48.99	302	eP	37	29.90	-0.7		
	0.7s	52.00nm				5.3mb	MAT	88.13	42	eP	37	49.00	-5.7X		0.7s	7.15nm				4.8mb		
CD2	70.78	66	iPc	36	23.10	-0.1		0.7s	7.53nm			4.6mb		MAF	49.68	302	eP	37	35.80	-0.1		
	0.8s	300.00nm				6.0mb	KGM	88.33	89	ePc	37	56.30	0.4		0.6s	6.30nm				4.8mb		
			S	45	02.00		TNP	90.12	323	eP	38	04.00	-0.2	TCF	49.90	302	eP	37	36.90	-0.7		
XAN	72.45	60	P	36	32.70	-0.2					e	41	44.50		0.7s	5.50nm				4.7mb		
TIY	72.51	55	iPc	36	32.60	-0.6	CCH	93.63	250	eP	38	22.00	1.5	LSF	50.36	302	eP	37	41.20	0.1		
	1.0s	100.00nm				5.4mb	ZOBO	94.35	253	eP	38	24.00	-0.2	CAF	50.43	300	eP	37	41.80	0.1		
BJI	73.38	52	eP	36	38.00	0.0	LPB	94.50	252	(P)	38	25.00	0.3		0.8s	0.40nm				3.5mb X		
			PP	39	28.00		MUN	118.58	109	ePKP	43	48.50	-0.9	LPO	51.10	300	eP	37	47.40	0.7		
KMI	73.47	71	iPc	36	39.00	-0.1	KLB	119.51	108	ePKP	43	50.00	-1.2	GRR	51.22	305	eP	37	46.60	-1.0		

```
LFF      51.31 301 eP     37 48.20  -0.1
DAG      52.27 343 iPd    37 48.20  -7.0X
          0.8s     14.93nm          5.0mb
MBC      64.61   3 eP     39 18.00  -3.3X
          0.9s     13.00nm          5.0mb
INK      71.17  10 eP     40 03.00   0.7
      S.D. = 0.8  on  27 of  36 obs.
-------------------------------------------
*  FEB  26, 1991  08h 54m 42.10± 0.81s
   37.863 N ±10.2km  112.419 E ± 9.3km
   DEPTH =  33.0km  (normol)
 NORTHEASTERN CHINA                 (658)
      ML 3.6 (BJI).

TIY      0.15 175 iPgd    54 46.90  -1.4
                  Sg      54 50.50
HHC      3.06 348 Pn      55 30.00   0.7
                  Pg      55 35.60
                  Sg      56 12.00
BTO      3.31 326 ePg     55 40.20   7.3X
                  Sg      56 21.70
BJI      3.65  52 ePn     55 37.00  -0.6
                  Pg      55 45.00
                  Sg      56 29.50
TIA      4.11 112 Pn      55 45.00   0.8
                  Pg      55 54.30
                  Sg      56 43.30
XAN      4.75 218 Pn      55 54.50   1.2
                  Pg      56 10.50
                  Sn      56 49.70
                  Sg      57 12.00
LZH      7.09 258 ePg     56 52.00  25.7X
                  Sg      58 21.00
GTA      9.98 283 P       57 05.80  -0.7
      S.D. = 1.3  on   6 of   8 obs.
-------------------------------------------
&  FEB  26, 1991  09h 16m 15.64s
   46.717 N          119.883 W
   DEPTH =   1.5km
 WASHINGTON                         ( 29)
      <SEA>. CL 3.0 (SEA).

BVW      0.09   1 Pd     16 17.72   0.2
MDW      0.13 141 Pd     16 18.60   0.3
WAH2     0.22  80 Pd     16 20.57   0.5
                  S      16 25.19
BRVW     0.24 198 Pd     16 20.90   0.4
VTG      0.25 343 P      16 21.07   0.4
LOCW     0.31  90 P      16 22.45   0.6
GBL      0.31 112 P      16 22.47   0.5
MXC      0.32 244 P      16 22.72   0.8
CRF      0.36  72 P      16 23.38   0.6
RC1      0.38  54 P      16 24.16   0.9
RSW      0.38 148 Pc     16 23.98   0.7
MJ2      0.39 114 P      16 24.20   0.7
OT2      0.45  89 P      16 25.65   1.1
YAKW     0.49 246 P      16 27.23   1.9
WIW      0.50 125 P      16 26.57   1.0
EBG      0.51 293 P      16 26.63   0.8
PRW      0.52 165 P      16 27.26   1.2
WRD      0.57  63 P      16 27.57   0.6
NAC      0.65 272 P      16 29.64   1.0
EPH      0.67  17 P      16 28.91   0.0
ET3      0.67 102 P      16 29.36   0.4
TBM      0.67 313 P      16 29.61   0.6
ETW      0.94 341 P      16 34.02  -0.4
WTV      0.98 357 P      16 34.71  -0.4
SAW      1.04  18 P      16 35.74  -0.3
OD2      1.05  50 P      16 35.85  -0.4
CBSW     1.09 354 P      16 36.68  -0.4
WPW      1.15 270 P      16 37.96   0.0
GLK      1.20 263 P      16 39.06   0.2
FMW      1.25 281 P      16 39.29  -0.4
JBO      1.26 179 P      16 39.52  -0.3
DHW2     1.27   3 P      16 39.60  -0.5
ASR      1.31 245 P      16 41.03   0.3
VGB      1.35 208 P      16 41.64   0.2
LNOR     1.39 127 P      16 41.86  -0.3
NLW      1.40 347 P      16 42.05  -0.2
RVC      1.45 280 P      16 42.79  -0.3
VTHM     1.61 197 P      16 45.66   0.4
TDL      1.65 258 P      16 46.46   0.5
      39 obs. associated
-------------------------------------------
?  FEB  26, 1991  10h 34m 24.53± 1.04s
   39.119 N ± 8.7km   27.520 E ±17.1km
   DEPTH =  10.0km  (geophysicist)

 TURKEY                             (366)
      MD 2.8 (ISK).

IZM      0.75 196 iPg     34 39.20   0.0
                  iSg     34 51.20
DST      0.99  60 iPn     34 43.30   0.0
EDC      1.25  12 ePn     34 48.00   0.2
BNT      1.27  14 iPn     34 48.00  -0.2
      S.D. = 0.2  on   4 of   4 obs.
-------------------------------------------
   FEB  26, 1991  11h 03m 08.41± 1.08s
   27.268 N ± 6.5km  140.093 E ± 4.4km
   DEPTH = 499.0 ± 12.2 km
   4.9mb ( 35 obs.)
 BONIN ISLANDS REGION               (212)

MAT      9.38 351 iPd     05 19.50  -1.0
          1.3s     9.62nm           4.0mb
                  eS      07 04.00
SSE     16.94 287 Pd      06 37.80  -0.4
          1.2s    68.00nm           5.2mb
                  S       09 36.00
NJ2     19.06 290 Pd      06 58.00  -0.7
          1.4s   200.00nm           5.6mb
                  S       10 10.00
                  ScP     13 48.60
DL2     19.30 312 P       07 03.00   2.0
          1.0s   180.00nm           5.7mb
SNY     19.85 321 iPc     07 06.60   0.4
          0.8s    70.00nm           5.3mb
CN2     20.30 328 Pc      07 10.60   0.2
TIA     21.43 300 Pd      07 21.00   0.0
          1.4s   460.00nm           5.9mb X
WHN     22.76 284 eP      07 34.00   0.9
          1.0s    50.00nm           5.1mb
                  pP      07 36.50   9kmX
BJI     23.55 309 eP      07 39.50  -0.7
          1.2s    28.00nm           4.7mb
                  e       11 15.00
                  e       17 45.00
TIY     25.46 301 P       07 57.90   0.3
HHC     27.10 307 P       08 11.70  -0.3
          1.0s    60.00nm           5.1mb
XAN     27.58 292 iPd     08 15.80  -0.4
BTO     28.12 306 P       08 20.80  -0.1
GYA     29.79 276 iPd     08 35.40  -0.1
          1.4s   100.00nm           5.2mb
CD2     31.87 285 iPd     08 53.40   0.2
LZH     31.93 295 iPd     08 54.20   0.4
          1.5s    99.00nm           5.1mb
                  PcP     11 30.00
KMI     33.51 275 Pc      09 08.50   1.3
GTA     35.49 300 iPd     09 23.80   0.2
          1.0s    60.00nm           5.1mb
                  PcP     11 40.20
                  ScP     14 38.40
SMY     35.86  36 eP      09 28.60   2.4
LOE     36.69 263 eP      09 33.50   0.0
CHG     38.65 266 iPd     09 50.40   0.8
          1.0s    45.25nm           5.0mb
CHTO    38.65 266 iPd     09 50.40   0.8
                  ipP     11 50.50
BDT     39.16 264 eP      09 52.30  -1.4
ADK     40.57  41 ePd     10 04.70   0.0
          0.6s    46.70nm           5.2mb
LSA     42.84 285 eP      10 25.20   1.6
WMQ     44.96 306 iPd     10 40.00   0.3
          1.2s   200.00nm           5.5mb
                  S       16 39.50
WB2     47.26 187 iPd     10 56.60  -0.7
                  iPcP    12 19.60
                  ePP     12 30.50
                  iScP    16 18.70
                  eS      17 05.50
WRA     47.26 187 iPd     10 56.60  -0.8
                  iPcP    12 19.60
                  ePP     12 30.50
                  iScP    16 18.70
                  eS      17 05.50
GUN     47.71 284 P       11 02.20   0.9
PKI     48.20 284 P       11 05.10   0.2
KKN     48.26 284 P       11 05.70   0.4
DMN     48.45 284 P       11 07.00   0.2
GKN     48.77 284 P       11 09.20   0.2
SDN     50.74  39 ePd     11 21.50  -1.5
          0.6s   131.10nm           5.5mb
SVW     54.13  33 ePc     11 48.10   0.5
          0.9s    48.50nm           4.8mb
TTA     54.24  30 eP      11 48.20  -0.1
NDI     54.96 287 iPd     11 53.00  -0.7
          1.0s    90.00nm           5.1mb
IMA     55.78  27 ePc     11 59.10   0.0
          0.8s    12.50nm           4.3mb
BRW     55.88  20 ePc     12 00.10   0.6
SLKM    56.71  34 P       12 03.60  -1.9
HYB     57.28 274 iPd     12 09.50  -0.5
          1.0s    45.00nm           4.8mb
PMR     57.29  32 ePc     12 08.10  -1.3
          0.8s    45.90nm           4.9mb
FBA     58.08  29 ePd     12 14.70   0.9
          1.0s    18.20nm           4.4mb
TOA     58.71  32 ePd     12 19.40   0.3
FORR    58.92 192 eP      12 19.80  -0.9
          0.3s    36.00nm           5.3mb
GBA     59.73 270 P       12 26.60   0.1
BALM    60.57  33 P       12 30.10  -1.5
KOD     61.10 267 eP      12 35.90  -0.1
QUE     63.16 292 iPd     12 47.50  -1.4
INK     63.65  24 eP      12 49.50  -1.7
MBC     66.20  15 ePc     13 06.50  -0.7
          0.5s     8.00nm           4.6mb
YKA     72.87  28 eP      13 45.70  -1.3
          0.6s    14.40nm           4.7mb
SOD     73.56 338 iP      13 50.50  -0.4
KAF     76.50 334 iP      14 06.70  -0.6
          0.5s    22.90nm           4.9mb
FHC     76.88  51 eP      14 11.10   1.3
WDC     77.97  51 ePc     14 16.00   0.3
NEW     78.03  42 P       14 15.80  -0.1
NUR     78.06 333 eP      14 15.00  -0.7
          0.3s     7.90nm           4.6mb
MIN     78.72  50 ePc     14 19.50  -0.3
ORV     79.14  51 eP      14 22.30   0.5
BRK     79.35  53 eP      14 23.50   0.6
BKS     79.36  53 e(P)    14 23.50   0.5
MHC     80.02  53 eP      14 27.20   0.6
SES     80.45  38 ePc     14 28.80   0.3
CMB     80.60  52 eP      14 30.10   0.6
PRS     80.67  54 eP      14 30.40   0.5
LLA     80.85  54 eP      14 31.70   0.9
PRI     81.26  54 eP      14 34.30   1.2
FRI     81.56  53 eP      14 34.70   0.3
LRM     82.01  42 ePc     14 37.50   0.7
HFS     82.52 336 eP      14 37.20  -1.6
          0.8s    17.50nm           4.6mb
FFC     82.57  31 iPc     14 38.80  -0.3
          1.0s    27.00nm           4.7mb
NB2     82.75 338 P       14 39.10  -0.9
          0.6s    10.50nm           4.5mb
TNP     82.78  51 P       14 41.00   0.2
          0.8s    10.29nm           4.4mb
ISA     83.06  54 eP      14 42.00  -0.1
CLC     83.61  53 eP      14 45.00   0.2
MWC     84.05  55 eP      14 47.00  -0.2
GSC     84.43  53 eP      14 49.00   0.1
RVR     84.66  55 eP      14 50.00   0.1
PEC     84.86  55 P       14 50.70  -0.3
PLM     85.34  55 eP      14 54.00   0.5
BW06    85.39  44 P       14 53.60   0.0
          0.7s     2.92nm           4.1mb
BAR     85.81  55 eP      14 56.00   0.4
GLA     86.97  54 eP      15 02.00   0.8
KSP     87.80 328 iPc     15 04.60  -0.1
RSSD    87.91  40 P       15 05.00  -0.6
          0.7s     6.06nm           4.5mb
ZST     89.18 326 eP      15 11.40   0.3
GOL     89.73  45 P       15 14.00  -0.2
          0.9s     3.22nm           4.2mb
GLD     89.79  44 P       15 15.00   0.7
ALQ     91.79  49 ePc     15 24.00   0.4
          1.0s    10.00nm           4.8mb
KBA     91.80 327 eP      15 23.00  -0.4
          0.7s     2.60nm           4.3mb
ZOBO   151.67  73 iPKP    22 09.00   7.7X
          0.8s     6.02nm
      S.D. = 0.8  on  91 of  92 obs.
-------------------------------------------
%  FEB  26, 1991  11h 53m 08.35± 1.32s
   38.966 N ± 8.3km   30.088 E ±12.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)
      MD 3.0 (ISK).

ALT      0.09  11 iPg     53 10.00  -1.0
```

26d 11h

KHL	0.78	215	iPg	53	23.70	0.1
			iSg	53	35.20	
DST	1.30	300	iPn	53	31.80	-0.7
GPA	1.33	7	ePn	53	33.50	0.6
YLV	1.69	341	iPn	53	38.50	0.4
BNT	2.17	310	ePn	53	45.00	-0.1
EDC	2.20	309	ePn	53	46.00	0.5
S.D. = 0.8			on	7 of	7 obs.	

% FEB 26, 1991 12h 04m 22.24± 0.80s
42.107 N ± 6.0km 19.289 E ± 6.1km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.0 (TTG).

ULC	0.15	191	iPgc	04	25.86	0.2
			iSg	04	28.92	
TTG	0.32	356	iPgd	04	29.64	0.7
			iSg	04	35.87	
BDV	0.38	297	iPgc	04	30.39	0.2
			iSg	04	37.92	
HCY	0.68	300	iPgd	04	35.21	-0.5
			iSg	04	47.07	
PVY	0.70	46	iPnd	04	35.72	-0.5
			iSg	04	47.87	
NKY	0.74	343	iPgc	04	36.51	-0.3
			iSg	04	49.84	
IVA	0.89	30	iPgc	04	39.54	0.2
			iSg	04	53.97	
BRY	0.97	325	iPgc	04	40.52	-0.2
			iSg	04	56.79	
S.D. = 0.5			on	8 of	8 obs.	

FEB 26, 1991 13h 49m 03.97± 0.26s
43.962 N ± 3.0km 8.754 E ± 1.9km
DEPTH = 10.0km (geophysicist)
CORSICA (380)
ML 3.0 (GEN).

FIN	0.46	302	Pd	49	13.13	-0.3
			S	49	19.31	
CKI	0.58	324	P	49	15.10	-0.5
			eSg	49	22.40	
PCP	0.60	346	P	49	15.60	-0.5
			S	49	23.43	
IMI	0.63	266	P	49	16.66	0.0
			S	49	25.36	
ROB	0.72	298	Pd	49	17.62	-0.5
			S	49	26.83	
SAOF	0.87	272	Pg	49	20.81	0.2
			Sg	49	32.44	
BOB	0.95	31	P	49	23.00	0.9
AUTN	0.96	272	Pg	49	22.28	-0.1
SBF	0.96	265	Pg	49	22.19	-0.1
			Sg	49	35.76	
ENR	1.00	286	P	49	22.96	0.0
			S	49	34.99	
REVF	1.03	258	Pg	49	23.17	-0.2
			Sg	49	37.67	
AURF	1.03	266	Pg	49	23.86	0.3
			Sg	49	38.06	
STV	1.07	286	P	49	24.18	0.0
			S	49	36.90	
TOUF	1.09	273	Pg	49	24.73	0.2
DOI	1.21	297	P	49	26.10	-0.5
			eSn	49	43.00	
PZZ	1.31	295	P	49	27.91	-0.3
			S	49	43.66	
BDI	1.33	85	P	49	28.90	0.3
			eSn	49	46.50	
CALN	1.36	262	Pg	49	29.97	0.8
			Sg	49	49.17	
BHB	1.38	310	P	49	29.15	-0.2
			S	49	45.82	
MME	1.42	80	P	49	30.50	0.4
			eSn	49	49.50	
PGF	1.42	173	Pg	49	29.56	-0.4
FOUF	1.53	292	e(Pg)d	49	32.01	0.7
			e(Sg)	49	48.68	
RSP	1.60	319	P	49	31.47	-1.0
			S	49	50.35	
RRL	1.71	305	P	49	34.50	0.4
ORO	1.75	342	P	49	35.30	0.6
ORX	1.76	342	P	49	34.35	-0.4
			S	49	54.72	
BNI	1.84	307	P	49	37.40	1.4X
LSD	1.88	323	P	49	38.18	1.5X

VAI	1.90	0	P	49	37.50	0.8
			eSn	50	02.00	
MDI	1.94	20	P	49	37.70	0.5
CDR	2.18	263	ePc	49	41.70	0.9
			e	49	45.50	
			e	50	04.90	
			e	50	11.60	
			e	50	11.80	
SFI	2.24	90	P	49	41.00	-0.6
MAO	2.34	131	P	49	42.60	-0.4
CRE	2.34	97	P	49	43.20	0.0
			eSn	50	10.70	
CTI	2.93	44	P	49	52.00	0.5
FVI	3.87	46	P	50	03.50	-1.3
S.D. = 0.6			on	34 of	36 obs.	

FEB 26, 1991 13h 54m 50.99± 0.37s
44.009 N ± 3.4km 7.638 E ± 2.7km
DEPTH = 11.8 ± 4.1 km
NORTHERN ITALY (545)
ML 2.2 (GEN).

SAOF	0.06	249	Pg	54	53.48	-0.1
AUTN	0.15	265	Pg	54	55.13	0.2
IMI	0.21	118	P	54	55.84	0.1
			S	54	59.38	
SBF	0.21	225	Pg	54	55.84	0.1
			Sg	55	00.15	
AURF	0.26	242	Pg	54	56.75	0.2
			Sg	55	01.78	
ENR	0.27	324	P	54	56.51	-0.3
			S	55	00.20	
TOUF	0.28	271	Pg	54	56.84	-0.3
STV	0.33	316	P	54	57.79	-0.1
			S	55	01.99	
ROB	0.33	30	P	54	57.89	-0.1
			S	55	02.25	
REVF	0.33	216	Pg	54	58.05	0.1
			Sg	55	03.75	
FIN	0.46	64	P	55	00.04	-0.4
			S	55	06.50	
DOI	0.57	330	P	55	03.00	0.5
			eSg	55	10.50	
CALN	0.60	245	Pg	55	02.34	-0.7
CKI	0.62	48	P	55	03.50	0.2
			eSg	55	11.50	
PZZ	0.63	322	P	55	03.63	0.1
			S	55	12.04	
PCP	0.84	50	P	55	07.28	0.2
			S	55	19.17	
S.D. = 0.3			on	16 of	16 obs.	

? FEB 26, 1991 15h 09m 24.72± 2.90s
41.961 N ±29.5km 24.760 E ±10.6km
DEPTH = 10.0km (geophysicist)
GREECE-BULGARIA BORDER REGION (363)

SRS	1.22	227	ePc	09	46.56	-0.8
			eS	10	06.36	
ALN	1.44	137	ePc	09	50.52	-0.3
			eS	10	11.90	
KNT	1.61	241	ePd	09	52.72	-0.5
			eS	10	16.92	
VAY	1.76	249	ePn	09	55.70	0.3
GRG	2.04	241	eP	10	00.00	0.5
			eS	10	28.10	
PAIG	2.19	202	eP	10	02.50	0.8
SKO	2.48	271	ePn	10	12.40	6.7X
S.D. = 0.8			on	6 of	7 obs.	

FEB 26, 1991 15h 38m 42.47± 0.43s
34.536 N ± 6.9km 91.614 E ± 6.4km
DEPTH = 33.0km (normal)
4.7mb (11 obs.) 4.6Msz (1 obs.)
QINGHAI PROVINCE, CHINA (325)

LSA	4.84	185	Pn	39	57.40	2.1
			Pg	40	08.00	
			Sg	41	11.00	
GTA	8.17	51	P	40	41.00	-0.8
	1.0s		50.00nm			5.6mb
	Z 12s		8.30um			4.8Msz
			pP	40	47.00	
			sP	40	51.00	
			S	42	18.00	
GUN	8.23	218	P	40	42.60	-0.2
KKN	8.64	221	P	40	48.60	0.2

PKI	8.75	219	P	40	49.50	-0.4
GKN	8.83	224	P	40	50.20	-0.8
DMN	8.88	221	P	40	52.00	0.3
WMO	9.76	343	P	41	04.00	0.4
Z	12s		5.70um			
N	10s		7.20um			
E	10s		11.20um			
			pP	41	10.00	
			S	42	59.50	
LZH	10.12	78	eP	41	04.00	-4.7X
	2.0s		71.00nm			5.6mb
Z	12s		14.70um			4.9MszX
N	12s		25.90um			
			pP	41	10.50	
			eS	43	03.00	
			SS	43	16.00	
CD2	10.85	106	eP	41	14.60	-4.0X
			S	43	17.00	
KMI	13.45	131	eP	41	59.00	5.3X
XAN	14.32	87	eP	41	58.80	-6.1X
N	14s		14.90um			
E	16s		4.90um			
GYA	15.26	118	iPd	42	10.60	-6.6X
Z	16s		2.70um			
			S	45	04.00	
BTO	15.79	62	eP	42	20.00	-4.0X
CHG	16.96	156	eP	42	38.00	-0.9
HHC	16.99	62	eP	42	38.40	-0.8
Z	12s		5.60um			
N	11s		3.00um			
E	10s		2.30um			
			S	45	36.00	
TIY	17.12	73	eP	42	40.60	-0.2
Z	13s		4.70um			
N	12s		10.50um			
			SS	46	01.50	
LOE	19.31	150	eP	43	06.00	-1.7
WHN	19.57	95	eP	43	08.50	-2.0
	1.0s		30.00nm			4.5mb
Z	12s		4.20um			4.5MszX
N	10s		6.80um			
E	10s		6.10um			
			pP	43	15.50	27kmX
BJI	20.27	67	eP	43	18.50	0.7
	1.0s		20.00nm			4.4mb
Z	12s		6.02um			5.2MszX
N	11s		4.59um			
			eS	47	04.00	
TIA	20.86	78	Pd	43	23.50	-0.4
	1.0s		100.00nm			5.2mb
Z	12s		4.60um			5.1MszX
N	15s		6.30um			
E	15s		2.30um			
			eS	47	09.00	
QUE	21.26	265	eP	43	27.00	-1.3
QIZ	22.38	129	eP	43	35.70	-3.6X
N	12s		2.60um			
E	12s		2.20um			
			eS	47	36.00	
			sS	47	48.00	
POO	22.45	229	eP	43	32.00	-8.1X
BOM	22.84	232	eP	43	42.80	-1.0
			eS	47	41.30	
NJ2	22.88	89	Pc	43	45.80	1.6
Z	15s		2.10um			4.7MszX
N	13s		5.50um			
E	10s		1.00um			
			pP	43	51.40	20kmX
NNT	23.06	159	eP	43	48.20	2.2X
GBA	24.48	215	P	44	02.00	2.3
SSE	25.05	90	eP	44	05.80	0.7
	1.0s		24.00nm			4.7mb
Z	20s		2.00um			4.6Msz
N	10s		0.80um			
E	11s		4.00um			
KOD	27.43	211	eP	44	27.00	-0.6
CN2	27.66	60	eP	44	30.50	1.4
Z	17s		11.30um			5.5MszX
N	11s		1.00um			
E	11s		2.00um			
			epP	44	40.00	34kmX
CVO	49.96	304	eP	47	31.00	-4.2X
MLR	50.18	303	eP	47	30.50	-6.5X
NB2	55.94	325	P	48	23.40	3.9X
	1.0s		4.60nm			4.5mb
WRA	67.72	136	P	49	40.00	1.1
	1.0s		2.40nm			4.2mb

```
MBC     67.76    8 eP     49 42.00    3.6X
        1.1s      9.00nm           4.8mb
INK     72.10   16 eP     50 05.00    0.0
BCAO    73.57  264 iPc    50 20.20    5.8X
        1.0s     10.00nm           4.8mb
YKA     81.03   12 eP     50 55.10    0.1
        1.3s      1.90nm           3.9mb
      S.D. = 1.2  on  25 of  39 obs.
-------------------------------------
   FEB 26, 1991  16h 11m 33.80± 0.57s
   36.705 N ± 4.4km    5.850 W ± 5.5km
   DEPTH =  10.0km  (geophysicist)
 STRAIT OF GIBRALTAR              (385)
      mbLg 3.0 (MDD).

GIBL    0.15 326 eP     11 37.00   -0.2
CNIL    0.37 206 eP     11 42.00    0.6
MOMI    0.40 165 eP     11 42.00    0.1
EJIF    0.40 129 iPgd   11 40.40   -1.5
                 eSg    11 46.60
EPRU    0.56  62 iPgd   11 45.10   -0.1
                 eSg    11 53.70
PLAT    0.59 173 eP     11 42.00   -3.7X
EVAL    1.13 321 iPgc   11 55.30    0.3
                 eSg    12 12.80
MAL     1.16  88 iPnd   11 57.00    1.6
                 iSg    12 14.80
EHOR    1.21  23 iPnc   11 57.50    1.2
                 eSn    12 15.50
ECOG    1.92  72 ePn    12 07.30    0.4
                 eSn    12 31.70
AFC     1.93  73 ePn    12 07.40    0.3
                 eSn    12 31.60
EBAN    2.20  48 ePn    12 11.90    1.0
                 eSn    12 38.70
EVIA    3.28  53 ePn    12 25.30   -1.1
                 eSn    13 06.70
EPLA    3.36 357 ePn    12 27.00   -0.4
                 eSn    13 08.20
TOL     3.47  24 ePg    12 50.00   21.0X
                 eSn    13 17.00
                 eSg    13 27.50
GUD     4.15  18 ePn    12 37.90   -0.8
                 eSn    13 27.00
ETOR    5.07  35 ePn    12 50.40   -1.3
      S.D. = 1.0  on  15 of  17 obs.
-------------------------------------
*  FEB 26, 1991  16h 14m 42.15± 0.66s
   49.494 S ±11.4km  125.725 E ±14.4km
   DEPTH =  10.0km  (geophysicist)
   5.0mb (  6 obs.)  4.9Msz (  2 obs.)
 SOUTH OF AUSTRALIA               (437)
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 21S, 46C
      Centroid Location:
      Origin Time        16:14:45.9 0.5
      Lat 49.79S 0.06 Lon 125.97E 0.09
      Dep  15.0 FIX Half-duration  2.1
      Moment Tensor;   Scale 10**17 Nm
        Mrr=-0.27 0.06  Mtt= 0.76 0.06
        Mff=-0.49 0.07  Mrt= 0.46 0.21
        Mrf= 0.44 0.20  Mtf= 1.40 0.07
       Principal Axes:
        T  Val=  1.85  Plg=16  Azm=326
        N       -0.43      72      170
        P       -1.41       7       58
       Best Double Couple:Mo=1.6*10**17
        NP1:Strike=103 Dip=74 Slip=   7
        NP2:        11     83      164

TAU     16.31  74 eP     18 29.00   -3.6X
RKG     16.71 334 eP     18 33.50   -4.2X
BFD     17.31  51 e(P)   18 45.00   -0.3
                 e(TT)  34 46.00
ADE     17.37  38 eP     18 49.00    2.9X
        1.6s  266.67nm           5.1mb
NWAO    17.72 336 eP     18 51.00    0.6X
TOO     18.57  58 eP     19 02.00    1.0
DRV     18.71 162 eP     19 04.00    1.6
                 S      22 31.00
CNB     22.36  60 eP     19 49.00    7.3X
CMS     23.48  47 eP     19 54.00    1.4
WRA     30.28  16 iPd    20 54.50   -1.0
        0.4s      2.80nm           4.5mb
WB2     30.28  16 iPd    20 54.50   -1.0
        0.4s      2.80nm           4.5mb

SPA     40.70 180 iPc    22 22.70   -1.5
        1.0s     30.00nm           5.0mb
      Z  20s       1.80um           4.9Msz
                   i    22 42.80
IPM     57.97 331 eP     24 38.00    1.0
CHG     72.04 333 eP     26 18.90   10.8X
CHTO    72.04 333 eP     26 13.00    4.9X
SSE     80.33 356 eP     27 16.50   22.0X
      Z  20s       0.50um           4.9Msz
                   eS   36 35.00
                   sS   37 06.00
PKI     84.70 325 P      27 20.40    2.8X
GUN     84.83 325 P      27 19.20    0.9
        0.8s     33.00nm           5.6mb
KKN     84.95 325 P      27 20.20    1.5
GKN     85.38 324 P      27 20.50   -0.3
        0.7s     26.00nm           5.5mb
LZH     87.39 342 eP     27 41.50   11.1X
        1.8s     32.00nm
      Z  27s       0.79um           5.0MszX
                   sP   27 52.50
BBTK  120.65 297 ePdiff30 01.50    1.1
INK   138.51  33 ePKP   34 06.00   -2.3
MBC   143.31  21 ePKP   34 14.00   -2.7X
        0.7s      3.00nm
SES   144.22  66 ePKP   34 19.00    0.0
YKA   145.22  45 ePKP   34 18.10   -2.1
        0.8s      9.40nm
DAG   149.32 345 iPKPd  34 30.70    4.2X
        1.3s     25.00nm
FFC   150.71  61 ePKP   34 35.00    5.8X
        0.8s     13.00nm
      S.D. = 1.4  on  15 of  28 obs.
-------------------------------------
*  FEB 26, 1991  18h 28m 42.87± 0.80s
   40.377 N ±10.7km   78.543 E ±23.6km
   DEPTH =  33.0km  (normal)
   4.5mb (  6 obs.)
 SOUTHERN XINJIANG, CHINA         (321)

QUE     13.88 227 eP     31 58.00   -1.6
HYB     22.88 180 eP     33 46.00    1.3
GBA     26.69 182 Pd     34 19.20   -1.6
        0.6s      7.50nm           4.5mb
KOD     30.04 182 eP     34 53.30    1.9
HFS     43.85 319 eP     36 48.50    1.3
        0.5s      2.80nm           4.3mb
NB2     45.01 321 P      36 58.00    1.3
        0.7s      3.50nm           4.4mb
MBC     63.09   5 ePc    39 08.40   -0.3
        0.5s     20.00nm           5.5mb
INK     69.00  12 eP     39 45.50   -1.0
YKA     76.93   6 eP     40 32.00   -1.1
        0.6s      3.20nm           4.5mb
FFC     85.27   0 eP     41 17.00   -0.1
        0.6s      5.00nm           4.9mb
      S.D. = 1.5  on  10 of  10 obs.
-------------------------------------
*  FEB 26, 1991  19h 19m 32.74± 0.67s
   32.811 N ± 7.1km   86.277 E ±16.6km
   DEPTH =  33.0km  (normal)
   4.3mb (  4 obs.)
 TIBET                            (306)

GUN     4.90 184 P      20 46.70    0.4
GKN     5.00 197 P      20 47.40   -0.2
KKN     5.08 190 P      20 48.70   -0.1
PKI     5.28 188 P      20 51.00   -0.6
DMN     5.28 191 P      20 51.40   -0.3
BJI    25.04  65 eP     24 56.00    0.8
HFS    53.63 324 eP     28 52.40   -0.4
        0.5s      1.50nm           4.3mb
NB2    54.78 325 P      29 00.60   -0.7
        1.0s      3.80nm           4.4mb
BCAO   68.93 261 ePc    30 39.10    2.1
        0.6s      6.00nm           4.8mb
YKA    83.55  10 eP     31 57.30   -1.1
        0.6s      0.70nm           4.0mb
      S.D. = 1.1  on  10 of  10 obs.
-------------------------------------
%  FEB 26, 1991  19h 26m 56.71± 0.70s
   40.839 N ± 5.1km   28.128 E ± 5.5km
   DEPTH =   0.0km  (geophysicist)
 TURKEY                           (366)
      MD 2.6 (ISK).

BNT     0.51 198 iPg    27 07.10    0.3
                 iSg    27 13.60
EDC     0.53 202 iPg    27 07.50    0.2
                 eSg    27 14.50
ISK     0.74  72 iPg    27 11.70    0.2
                 eSg    27 22.70
YLV     0.98 106 iPg    27 16.10   -0.3
                 eSg    27 29.10
DMK     1.02 344 iPn    27 16.80   -0.2
IZI     1.14 116 ePn    27 19.20    0.2
HRT     1.17  90 iPn    27 19.70    0.2
DST     1.29 163 ePn    27 21.00   -0.6
      S.D. = 0.4  on   8 of   8 obs.
-------------------------------------
   FEB 26, 1991  21h 06m 35.72± 0.94s
   20.992 N ±10.1km  146.059 E ±18.2km
   DEPTH =  33.0km  (normal)
   4.5mb (  7 obs.)  4.1Msz (  1 obs.)
 MARIANA ISLANDS REGION           (215)

MAT    16.94 338 eP     10 32.00    0.2
SSE    24.46 299 eP     11 54.00    1.2
                 pP     12 02.50   30kmX
LZH    39.70 302 eP     14 15.00    8.1X
        1.5s     37.00nm           4.9mb
      Z  20s       0.29um           4.1Msz
WB2    42.27 196 eP     14 27.00   -0.8
        0.4s      2.80nm           4.3mb
WB2    42.27 196 eP     14 27.00   -0.8
        0.4s      2.80nm           4.3mb
WRA    42.27 197 P      14 30.00    2.1
        0.7s      2.90nm           4.1mb
CHG    44.23 276 eP     14 45.00    1.0
LSA    49.99 292 eP     15 30.10    0.5
WMO    53.09 310 P      15 53.00    0.6
                 pP     16 02.00   30kmX
GUN    54.76 290 P      16 04.80   -0.3
PKI    55.21 290 P      16 07.60   -0.8
        0.6s     10.00nm           5.0mb
KKN    55.30 290 P      16 08.20   -0.7
DMN    55.47 290 P      16 09.40   -0.8
GKN    55.84 290 P      16 11.80   -0.9
        0.8s     17.00nm           5.1mb
HYB    63.43 280 eP     17 04.60   -0.4
POO    67.46 282 eP     17 27.50   -3.4X
YKA    75.82  28 eP     18 20.00    0.0
        0.7s      0.60nm           3.7mb
ZOBO  147.31  88 PKP    26 21.10    4.5X
LPB   147.39  88 (PKP)  26 20.00    3.5X
CNCB  147.57  88 PKP    26 22.60    5.7X
      S.D. = 1.0  on  15 of  20 obs.
-------------------------------------
?  FEB 26, 1991  21h 54m 56.00± 1.95s
   16.991 N ±21.4km  145.364 E ±44.7km
   DEPTH = 128.4 ± 17.9 km
   4.3mb (  3 obs.)
 MARIANA ISLANDS                  (216)

PJG     3.42 188 eP     55 48.90    0.1
GUA     3.46 187 eP     55 49.30    0.0
                 eS     56 27.50
WB2    38.26 197 eP     02 05.00   -0.5
        0.4s      2.80nm           4.4mb
                 eS     07 36.80
INK    71.06  23 eP     06 01.00   -0.5
MBC    74.88  14 ePc    06 24.50    0.8
        0.7s      4.00nm           4.3mb
YKA    79.64  28 eP     06 49.40   -0.8
        0.8s      4.30nm           4.3mb
CMB    82.98  53 iPc    07 08.30    0.0
FRI    83.79  53 eP     07 12.10   -0.2
SES    85.46  39 ePd    07 20.50    0.1
LRM    86.19  43 eP     07 24.40   -0.1
FFC    88.70  32 iPd    07 36.20    0.2
ZOBO  147.93  94 PKPc   14 29.30    3.4X
        1.0s      7.50nm
LPB   147.98  94 (PKP)  14 36.00   10.2X
CNCB  148.12  95 (PKP)  14 27.00    0.8
      S.D. = 0.6  on  12 of  14 obs.
-------------------------------------
   FEB 26, 1991  22h 30m 48.61± 0.40s
   38.516 N ± 3.8km   26.713 E ± 3.4km
   DEPTH =  22.8 ±  3.6 km
 AEGEAN SEA                       (365)
      MD 4.1 (THE), 4.1 (ISK). Felt at
      Manisa, Turkey.

IZM     0.45 105 iPg    30 58.10    0.2
```

26d 22h

EZN	1.34	347	iPn	31	12.30	0.3
CIN	1.42	130	ePn	31	13.00	-0.1
DST	1.85	53	iPn	31	19.50	0.1
YER	1.86	137	iPn	31	19.90	0.4
EDC	2.03	26	iPn	31	22.50	0.5
BNT	2.06	27	iPn	31	22.50	0.0
KCT	2.15	36	iPn	31	24.00	0.3
KHL	2.22	94	iPn	31	25.70	1.0
ALT	2.71	77	iPn	31	33.00	1.2
IZI	2.81	49	iPn	31	33.60	0.5
YLV	2.90	44	iPn	31	34.00	-0.4
ELL	3.09	124	iPn	31	38.80	1.6
GBZT	3.10	42	ePn	31	37.00	-0.2
			iSg	32	33.00	
ISK	3.12	35	iPn	31	37.10	-0.4
ITU	3.14	34	ePn	31	45.00	7.3X
			iSg	32	30.00	
BCK	3.24	108	iPn	31	41.00	1.7
HRT	3.24	44	iPn	31	39.60	0.4
GPA	3.30	56	ePn	31	40.10	0.0
DMK	3.40	13	iPn	31	40.90	-0.5
AGG	3.46	280	eP	31	44.10	1.7
			eS	32	23.90	
SOH	3.47	313	eP	31	42.00	-0.5
			eS	32	20.10	
RZN	3.52	335	iP	31	43.00	-0.3
SRS	3.54	318	eP	31	42.80	-0.7
			eS	32	21.00	
THE	3.59	307	eP	31	45.00	0.9
LIT	3.64	297	eP	31	45.90	1.0
			eS	32	25.50	
DIM	3.64	346	iP	31	45.00	0.1
MMB	3.83	324	iPc	31	47.00	-0.6
PLD	3.90	337	eP	31	48.00	-0.5
KNT	3.95	313	eP	31	49.20	0.0
			eS	32	31.50	
VAY	4.24	313	ePn	31	54.00	0.6
	1.2s	274.00nm				
			i	32	08.30	
			iSg	33	05.70	
			i	33	10.50	
PGB	4.47	335	iPd	31	55.00	-1.7
FNA	4.70	300	eP	32	00.00	0.0
PVL	4.81	348	iPd	32	01.00	-0.4
VTS	4.87	328	iPc	32	02.00	-0.4
BBTK	4.88	72	eP	31	59.50	-3.1X
			iS	33	17.00	
PSN	5.28	12	iPd	32	07.00	-1.1
KAS	6.12	60	eP	32	45.00	24.9X
CSS	6.39	122	eP	32	23.00	-0.8
ISR	6.62	359	eP	32	22.00	-5.0X
CFR	6.75	9	eP	32	22.10	-6.7X
CMP	6.86	350	ePc	32	50.00	19.6X
MLR	6.99	356	eP	32	22.00	-10.3X
CVO	7.31	357	eP	32	27.00	-9.7X
VRI	7.35	0	eP	32	26.00	-11.2X
SHMJ	9.36	125	P	33	03.50	-1.7
KFNJ	9.89	129	P	33	10.80	-1.6
MKRJ	10.09	131	P	33	13.60	-1.7
KBA	13.01	315	e(P)	34	01.00	6.2X
	1.3s	6.90nm			4.6mb	
BCAO	34.73	194	ePd	37	38.20	-0.9
	0.3s	5.00nm			4.9mb	
YKA	74.64	342	eP	42	29.30	1.9
	0.8s	0.60nm			3.7mb	
	S.D. = 1.0	on	41 of	51	obs.	

FEB 26, 1991 22h 34m 15.31± 0.69s
40.490 N ± 6.8km 20.375 E ± 5.0km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)

KBN	0.36	68	eP	34	23.00	0.3
			eS	34	27.00	
LSK	0.38	153	eP	34	23.00	-0.1
BERA	0.39	303	eP	34	22.90	-0.3
VLO	0.67	268	eP	34	29.00	0.4
OHR	0.70	27	ePg	34	29.20	0.0
			eSg	34	39.40	
FNA	0.82	69	eP	34	31.00	-0.2
LIT	1.66	103	eP	34	47.10	2.4X
	S.D. = 0.4	on	6 of	7	obs.	

FEB 26, 1991 23h 30m 36.21± 0.47s
38.571 N ± 3.6km 26.796 E ± 5.4km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

MD 3.6 (ATH), 3.6 (ISK).

IZM	0.41	115	iPg	30	44.60	0.1
			eSg	30	51.00	
PRK	0.79	329	ePg	30	52.00	0.5
SMG	0.86	178	ePg	30	52.00	-0.8
EZN	1.31	344	iPn	31	00.10	-0.2
CIN	1.41	133	ePg	31	01.00	-0.8
			iSg	31	06.00	
DST	1.76	53	iPn	31	07.00	0.0
APE	1.80	214	ePb	31	08.00	0.4
YER	1.85	140	ePn	31	09.40	1.0
EDC	1.96	25	ePn	31	10.00	0.2
BNT	1.98	26	ePn	31	10.00	-0.2
KCT	2.07	35	ePn	31	12.00	0.6
KHL	2.16	96	ePn	31	13.00	0.2
YLV	2.82	44	ePn	31	22.00	-0.2
KDZ	3.25	341	iP	31	39.00	10.7X
DMK	3.33	12	ePn	31	28.40	-1.0
	S.D. = 0.6	on	14 of	15	obs.	

? FEB 26, 1991 23h 40m 07.31± 4.67s
18.913 N ±62.4km 64.479 W ±16.5km
DEPTH = 33.0km (normal)
VIRGIN ISLANDS (91)

LPR	1.45	246	P	40	31.40	-0.1
			S	40	48.70	
SJG	1.77	244	iP	40	36.10	-0.1
PORP	2.22	248	P	40	42.80	0.3
MCP	2.54	259	P	40	47.00	-0.2
MGP	2.64	250	P	40	48.60	0.2
PAG	3.92	137	eP	41	07.20	0.5
BBL	4.43	139	eP	41	13.50	-0.5
	S.D. = 0.4	on	7 of	7	obs.	

FEB 26, 1991 23h 50m 41.52± 0.74s
44.550 N ± 5.5km 7.274 E ± 7.5km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.7 (GEN).

DOI	0.05	204	P	50	44.00	0.2
			eSg	50	50.50	
PZZ	0.13	250	P	50	44.70	-0.1
			S	50	46.86	
BHB	0.29	359	P	50	47.64	0.0
			S	50	51.24	
STV	0.31	173	P	50	48.09	0.1
			S	50	51.93	
ENR	0.34	162	P	50	48.33	-0.3
			S	50	52.76	
ROB	0.50	121	P	50	51.68	0.0
			S	50	58.34	
	S.D. = 0.2	on	6 of	6	obs.	

FEB 27, 1991 00h 16m 20.38± 0.66s
35.759 N ± 5.0km 119.948 W ±11.2km
DEPTH = 10.0km (geophysicist)
CENTRAL CALIFORNIA (39)
MD 3.1 (GM).

PKEM	0.33	337	iP	16	27.50	0.3
BCH	0.58	191	iP	16	32.80	0.5
ABL	1.08	147	eP	16	40.70	-0.2
BLP	1.25	197	eP	16	43.50	-0.2
ARN	2.04	322	eP	16	54.00	-1.1
CMB	2.30	351	eP	17	00.00	1.0
BONR	2.56	31	eP	17	02.50	-0.4
PEC	2.95	128	eP	17	14.50	6.3X
KVN	3.60	24	eP	17	15.50	-2.1X
	S.D. = 0.9	on	7 of	9	obs.	

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* FEB 27, 1991 00h 36m 00.55± 0.66s
24.428 N ± 8.1km 123.797 E ±10.1km
DEPTH = 33.0km (normal)
4.3mb (5 obs.)
SOUTHWESTERN RYUKYU ISLANDS (246)

ANP	2.20	291	eP	36	25.80	-9.8X
TWG	2.97	238	iPc	36	45.60	-0.8
OZH	4.76	277	eP	37	11.50	-0.4
			S	38	03.50	
SSE	7.03	341	eP	37	42.50	-1.3
	Z 10s	0.48um				
TIY	16.42	326	eP	39	55.40	5.3X
HHC	19.31	331	eP	40	30.00	4.1X
CN2	19.37	4	eP	40	27.00	0.6
	Z 10s	0.60um				
			epP	40	34.00	26kmX
			eS	44	03.00	
LZH	20.74	309	eP	40	41.50	0.4
	2.0s	29.00nm			4.3mb	
	Z 15s	0.29um			3.8MszX	
			pP	40	46.50	19kmX
CHG	23.75	261	eP	41	12.80	1.9
WRA	45.28	166	P	44	17.00	0.0
	0.7s	6.10nm			4.6mb	
WB2	45.29	166	iPd	44	16.50	-0.6
SLL	78.50	332	eP	47	59.60	-0.1
	0.4s	1.30nm			4.3mb	
NB2	79.11	333	P	48	03.20	0.1
	0.9s	1.70nm			4.0mb	
YKA	81.81	24	eP	48	17.60	0.3
	0.9s	2.60nm			4.3mb	
	S.D. = 0.9	on	11 of	14	obs.	

% FEB 27, 1991 01h 30m 00.24± 1.26s
18.116 N ± 8.9km 100.416 W ±11.5km
DEPTH = 33.0km (normal)
GUERRERO, MEXICO (59)

III	0.94	74	iP	30	17.00	-0.3
			iS	30	29.00	
ACX	1.35	157	iP	30	22.00	-0.9
			iS	30	40.00	
CRX	1.46	28	iP	30	25.00	0.2
UNM	1.68	44	iP	30	28.00	0.0
MRX	1.74	335	eP	30	29.00	0.4
			iS	30	51.00	
PPM	1.94	61	iP	30	31.50	-0.5
			(S)	31	01.00	
IIT	2.19	65	eP	30	34.50	-0.8
IISM	3.01	73	iP	30	46.50	-0.2
OXX	3.67	106	(P)	30	58.50	2.2
	S.D. = 1.1	on	9 of	9	obs.	

? FEB 27, 1991 05h 07m 54.07± 8.79s
17.627 N ±64.6km 61.856 W ±40.5km
DEPTH = 10.0km (geophysicist)
LEEWARD ISLANDS (92)
ML 3.2 (FDF).

SEG	1.26	165	eP	08	17.52	0.0
DEG	1.51	150	ePd	08	21.26	0.0
			S	08	38.00	
PAG	1.60	174	ePd	08	22.50	0.0
			S	08	41.30	
DOG	1.60	172	eP	08	22.60	0.1
			S	08	41.40	
BBL	2.12	170	eP	08	30.01	-0.1
	S.D. = 0.1	on	5 of	5	obs.	

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* FEB 27, 1991 06h 54m 32.21± 0.97s
51.963 N ±25.0km 31.534 W ± 9.7km
DEPTH = 10.0km (geophysicist)
4.3mb (9 obs.)
NORTH ATLANTIC RIDGE (403)

EKA	17.10	67	Pc	58	32.60	0.0
	0.8s	15.10nm			4.2mb	
MFF	21.06	92	eP	59	19.10	0.6
	0.7s	4.40nm			3.9mb	
FRB	22.58	316	eP	59	35.00	1.5
TCF	22.66	91	eP	59	34.80	0.2
BTH	22.77	100	P	59	40.00	4.4X
			(PPPP)	00	37.00	
MAF	22.91	91	eP	59	37.20	0.2
	1.2s	10.40nm			4.2mb	
BGF	22.93	90	eP	59	37.10	-0.1
	0.9s	13.10nm			4.5mb	
SSF	23.12	88	eP	59	38.80	-0.3
	0.9s	8.20nm			4.3mb	
AVF	23.15	89	eP	59	39.10	-0.2
	1.2s	17.85nm			4.5mb	
LOR	23.25	88	eP	59	39.90	-0.4
	1.0s	8.00nm			4.2mb	
LBF	23.45	88	eP	59	42.40	0.1
YKA	43.08	318	eP	02	32.90	-0.5
	1.0s	1.10nm			3.5mb	
INK	47.04	330	eP	03	04.00	-1.0
TNP	58.72	293	eP	04	32.20	-0.3
	1.0s	3.75nm			4.4mb	
WRA	146.19	24	PKP	14	23.00	9.8X

1.5s 1.60nm
S.D. = 0.6 on 13 of 15 obs.

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* FEB 27, 1991 07h 08m 21.60± 1.12s
38.344 N ± 7.6km 30.262 E ±12.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.1 (ISK).

KHL	0.58	268	iPg	08	32.70	-0.7
			iSg	08	41.70	
ALT	0.72	351	iPg	08	35.40	-0.4
			eSg	08	45.40	
BCK	0.92	164	iPn	08	39.10	-0.1
DST	1.79	315	iPn	08	53.70	0.9
YER	1.98	233	ePn	08	56.00	0.4
BBTK	2.45	52	eP	09	07.50	5.1X

S.D. = 0.9 on 5 of 6 obs.

& FEB 27, 1991 08h 32m 46.40s
40.537 N 125.015 W
DEPTH = 6.0km
3.8mb (5 obs.)
OFF COAST OF NORTHERN CALIFORNIA(34)
<BRK>. ML 3.8 (BRK). Felt (III) at Honeydew.

FHC	0.83	71	iPc	33	02.50	-0.3
			iS	33	13.50	
WDC	1.89	88	ePc	33	17.20	-2.2
			eS	33	40.70	
LTCM	2.23	98	eP	33	21.80	-2.7
LBFM	2.50	70	eP	33	26.80	-1.7
MIN	2.61	93	iPd	33	27.10	-2.9
NWRM	2.65	141	eP	33	25.00	-5.4
ORV	2.87	109	eP	33	30.50	-3.1
BRK	3.41	140	eP	33	36.00	-5.2
BKS	3.42	140	iPc	33	35.50	-5.9
			e(S)	34	16.60	
PCC	3.66	145	eP	33	38.20	-6.6
MHC	4.13	139	eP	33	46.20	-5.4
ARN	4.18	138	eP	33	46.00	-6.2
GCC	4.22	145	eP	33	46.50	-6.2
CMB	4.38	123	iPd	33	51.70	-3.3
SAO	4.69	142	eP	33	51.70	-7.7
LLA	5.05	140	eP	33	58.00	-6.5
FRI	5.45	129	iPc	34	06.80	-3.4
KVN	5.53	103	eP	34	07.60	-3.9
BONR	5.81	114	eP	34	11.70	-3.8
BMW	6.08	12	eP	34	16.50	-2.5
TNP	6.52	110	e(P)	34	21.50	-4.0
BCH	6.61	142	eP	34	19.60	-7.1
LON	6.63	19	eP	34	25.00	-1.8
PEC	9.12	134	eP	34	57.70	-3.9
NEW	9.57	34	eP	35	05.00	-2.6
PNT	9.57	22	eP	35	06.00	-1.7
PLM	9.69	135	e(P)	35	06.50	-3.1
MSU	10.13	97	eP	35	13.00	-2.6
LRM	10.58	56	eP	35	20.70	-1.2
BW06	11.78	74	eP	35	37.00	-1.2
PV09	12.43	94	e(P)	35	47.40	0.3
SES	13.88	40	eP	36	13.00	7.1
GOL	15.06	87	eP	36	20.00	-1.6
	0.9s		5.11nm			4.0mb
GLD	15.16	87	e(P)	36	21.00	-1.9
ALQ	15.70	105	eP	36	28.00	-1.9
	1.0s		4.25nm			3.6mb
RSSD	15.92	70	eP	36	29.00	-3.7
	1.0s		7.59nm			3.8mb
FFC	20.90	40	ePc	37	28.00	-3.7
	1.2s		34.00nm			4.6mb
MEO	21.66	97	eP	37	35.00	-4.6
YKA	22.86	12	eP	37	50.20	-1.1
	1.2s		2.50nm			3.6mb
	39 abs. assaciated					

FEB 27, 1991 08h 34m 35.10± 0.44s
30.218 S ± 3.5km 68.760 W ± 4.7km
DEPTH = 34.5 ± 4.2 km
5.4mb (24 obs.) 4.7Msz (1 obs.)
SAN JUAN PROVINCE, ARGENTINA (137)
Felt (II) at San Juan.

RTRS	0.61	274	iPc	34	46.20	-1.0
RTLL	1.14	167	iPc	34	54.60	-0.2
RTCB	1.27	182	iPc	34	56.50	-0.3
RTCV	1.65	173	iPc	35	03.30	1.0
JACH	2.91	212	iPc	35	21.80	1.5
			iS	36	00.00	
PEL	3.35	209	iPc	35	27.00	0.6
			i	35	32.10	
			i	35	49.50	
SAN	3.61	206	iPc	35	30.50	0.5
			iS	36	14.50	
IHA	3.73	221	eP	35	31.00	-0.6
			iS	36	20.50	
LCCH	4.03	216	iPc	35	36.00	0.0
			i	36	38.70	
LNV	4.35	210	iP	35	39.10	-1.5
			i	36	38.00	
ANT	6.65	347	iP	36	13.00	0.0
CCH	13.00	11	Pd	37	52.70	12.3X
CNCB	13.37	3	P	37	45.00	-0.4
LPB	13.64	3	P	37	46.80	-2.1
			LR	42	57.00	
ZOBO	13.90	3	Pc	37	52.50	0.1
	0.6s		63.88nm			5.6mb
Z	22s		1.50um			4.0Msz
			i	37	56.30	
			LR	42	32.00	
ARE	13.92	349	eP	37	55.00	2.5
SIV	15.82	28	P	38	15.60	-1.4
PPD	17.65	67	eP	38	42.30	2.3
VAO	20.75	75	ePc	39	16.20	0.7
			i	39	18.10	
			e	39	25.10	
BMA	23.24	77	eP	39	42.20	1.9
			e	39	53.00	
			e	39	57.60	
YANA	31.36	341	P	40	52.00	-3.4X
PDCR	32.58	64	iPd	41	05.10	-0.5
			e	41	25.30	
SOB1	33.37	57	eP	41	12.60	0.1
			e	42	07.90	
			e	43	13.90	
			i	43	53.40	
			e	44	03.90	
SDV	38.92	357	eP	41	59.20	-0.5
TOV	39.78	358	eP	42	06.20	-0.5
UPA	40.33	343	(P)	42	12.50	1.4
BIM	45.09	11	eP	42	49.14	-0.7
MVM	45.15	11	eP	42	49.89	-0.5
FDF	45.29	10	eP	42	50.30	-1.1
CRM	45.34	11	eP	42	51.06	-0.8
PORP	48.03	3	P	43	11.80	-1.2
SPA	59.95	180	iPd	44	39.40	-0.8
	1.0s		24.50nm			5.3mb
RSCP	67.35	345	P	45	27.50	-1.4
BLA	67.96	350	P	45	32.00	-0.6
UYO	68.48	337	iPd	45	35.30	-0.6
MEO	70.50	334	eP	45	47.50	-0.8
FVM	70.81	342	P	45	49.10	-1.0
	0.7s		57.82nm			5.7mb
LIC	70.92	71	Pc	45	51.36	0.1
	0.8s		37.00nm			5.5mb
Z	20s		0.40um			4.7Msz
TIC	71.16	70	P	45	52.90	0.2
	0.8s		30.00nm			5.4mb
KIC	71.23	71	Pc	45	53.48	0.4
	0.7s		50.00nm			5.7mb
CLE	72.32	350	iP	45	59.10	0.1
LKO	72.37	67	Pc	46	00.32	0.4
	0.7s		63.00nm			5.7mb
CER	72.62	119	iPc	45	56.60	-4.6X
	1.0s		60.00nm			5.5mb
ALQ	73.91	328	iPc	46	09.20	0.5
	1.9s		118.42nm			5.6mb
WIN	75.59	108	iPd	46	19.00	0.2
	1.0s		15.00nm			4.9mb
GAC	75.81	355	eP	46	19.00	-0.1
	0.7s		4.00nm			4.5mb
GLA	76.55	322	eP	46	24.00	0.3
BAR	77.28	320	eP	46	29.00	1.3
GLD	77.42	332	P	46	29.00	0.5
	1.0s		60.00nm			5.6mb
PLM	77.89	320	eP	46	32.00	0.8
TPC	78.01	321	eP	46	32.00	0.3
PEC	78.46	321	P	46	34.70	0.5
RVR	78.65	321	eP	46	36.00	0.8
MWC	79.20	320	eP	46	39.00	0.6
PAS	79.21	320	eP	46	39.00	0.8
GSC	79.32	322	eP	46	40.00	1.1
SBB	79.42	321	eP	46	40.00	0.6
CLC	80.14	322	eP	46	43.00	-0.2
ISA	80.50	321	eP	46	46.00	0.8
SYP	80.50	319	eP	46	47.00	1.7
RSSD	80.70	335	P	46	46.00	-0.3
	0.7s		31.14nm			5.4mb
SEK	81.29	118	iPc	46	47.00	-2.8X
	0.7s		13.70nm			5.1mb
TNP	81.64	323	P	46	51.80	0.5
	0.8s		17.65nm			5.1mb
BW06	81.74	331	P	46	51.50	-0.2
	0.9s		26.13nm			5.3mb
PRY	81.86	116	iPd	46	51.00	-1.7
PRI	82.05	320	eP	46	54.50	1.1
FRI	82.15	321	eP	46	53.30	-0.3
LLA	82.55	320	ePc	46	56.80	1.0
PRS	82.58	320	ePc	46	57.20	1.2
CMB	83.28	321	eP	47	00.10	0.5
BKS	84.17	320	eP	47	05.00	1.0
BRK	84.18	320	eP	47	05.00	1.0
BFT	84.47	116	eP	47	06.50	0.3
	1.0s		15.00nm			5.1mb
SCH	84.70	1	eP	47	06.00	-0.3
LRM	85.43	331	iPc	47	11.10	0.7
BUL	86.16	111	iPd	47	15.30	0.7
	1.0s		22.50nm			5.4mb
			i	47	25.90	
WDC	86.27	322	iPc	47	13.70	-0.7
FHC	87.20	321	eP	47	20.20	1.2
KMZ	87.23	104	iP	47	21.00	1.1
LSZ	88.28	107	iP	47	24.00	-0.9
			i	47	31.00	
			i	48	03.10	
SES	88.56	334	ePc	47	24.70	-0.6
	0.9s		41.00nm			5.7mb
FFC	89.30	341	iPc	47	28.30	-0.4
	1.0s		26.00nm			5.5mb
NEW	89.33	330	P	47	27.80	-1.2
	0.7s		12.00nm			5.3mb
BCAO	89.87	85	iPc	47	33.00	0.7
	0.2s		44.00nm			6.4mb
			i	47	44.00	
PNT	91.21	329	eP	47	39.00	1.4
	0.8s		16.00nm			5.5mb
PTZ	91.42	107	iP	47	37.20	-2.3
			i	47	49.50	
			i	48	03.00	
EDM	91.69	335	ePc	47	38.50	-1.3
YKA	99.41	340	eP	48	12.70	-2.0
	0.8s		4.40nm			5.0mb
INK	109.12	339	ePKP	53	06.00	4.0X
MBC	110.77	349	ePKP	53	04.50	-0.5
NUR	117.43	34	ePKP	53	13.00	-5.1X
KAF	118.55	32	iPKP	53	19.20	-1.0
	0.5s		2.80nm			
SOD	119.55	26	ePKP	53	30.00	8.1X
WRA	125.40	207	PKP	53	33.00	-1.6
	0.5s		27.40nm			
QUE	141.91	79	ePKP	54	06.80	1.2
KOD	142.81	115	ePKP	54	05.00	-2.7X
POO	144.17	100	ePKP	54	07.50	-2.1
GBA	144.72	111	PKPc	54	07.10	-3.4X
	0.6s		27.50nm			
GUA	144.79	249	ePKP	54	08.70	-2.0
	0.7s		131.51nm			
PJG	144.86	249	ePKP	54	08.50	-2.3
HYB	147.62	106	ePKP	54	15.60	0.3
	1.0s		100.00nm			
			i	54	18.00	
KGM	150.96	164	ePKPd	54	26.10	5.6X
IPM	152.74	157	ePKPc	54	29.20	6.1X
	0.9s		66.20nm			
GKN	156.67	89	PKP	54	27.90	-0.4
	0.9s		39.00nm			
WMQ	156.91	48	PKP	54	28.80	0.8
DMN	156.99	90	PKP	54	28.70	-0.1
	1.0s		20.00nm			
KKN	157.18	90	PKP	54	28.78	-0.2
PKI	157.24	90	PKP	54	28.92	-0.3
GUN	157.72	90	PKP	54	29.74	-0.1
	0.8s		17.00nm			
CHG	164.07	133	ePKP	54	36.40	0.2
CHTO	164.07	133	iPKP	54	29.00	-7.2X
	1.0s		12.75nm			
			i	54	39.20	
GTA	166.89	43	iPKPc	54	39.00	0.9
			pPKP	54	49.80	
TIA	172.25	322	ePKP	54	41.90	0.9
	S.D. = 1.0		an 101 of 113 abs.			

FEB 27, 1991 08h 43m 53.79± 0.74s
25.649 N ± 6.3km 103.911 E ± 4.7km
DEPTH = 23.1 ± 6.3 km
4.7mb (10 obs.) 4.5Msz (1 obs.)
YUNNAN PROVINCE, CHINA (318)

KMI		1.18	244	iPgc	44	15.00	-0.2
				Sg	44	29.00	
GYA		2.60	71	Pn	44	36.60	1.1
				Pg	44	43.00	
				Sn	45	05.00	
				Sg	45	12.00	
CD2		5.24	359	Pn	45	13.70	0.9
CHG		8.21	215	eP	46	00.60	6.1X
				eS	48	24.00	
QIZ		8.57	139	P	45	57.60	-1.9
				eS	47	38.60	
GZH		8.97	105	eP	46	04.20	-0.7
				S	47	40.00	
XAN		9.42	26	P	46	09.30	-1.9
	N	10s		2.80um			
	E	10s		3.20um			
				S	47	57.00	
BDT		9.53	210	eP	46	14.00	1.3
LZH		10.40	360	eP	46	28.00	3.2X
		1.5s		34.00nm		5.4mb	
	Z	13s		2.11um		4.9MszX	
	E	10s		4.54um			
				pP	46	32.00	
				eS	48	22.00	
WHN		10.42	60	eP	46	24.50	-0.5
		0.5s		50.00nm		6.1mb X	
				S	48	16.00	
LSA		12.01	293	eP	46	51.40	4.4X
GTA		14.15	347	P	47	16.20	1.2
		1.0s		10.00nm		4.4mb	
	Z	11s		1.50um		4.9Msz	
	E	11s		2.50um			
				pP	47	23.00	
				sP	47	26.00	
NJ2		14.56	61	Pd	47	20.50	0.2
TIA		15.46	44	eP	47	31.40	-0.6
BTO		15.75	17	eP	47	34.00	-1.9
	N	10s		1.20um			
	E	10s		1.10um			
				sP	47	43.00	
				eS	50	30.50	
GUN		16.26	282	P	47	44.14	1.4
HHC		16.44	21	eP	47	44.00	-0.7
	Z	10s		1.40um			
PKI		16.66	281	P	47	46.26	-1.5
KKN		16.78	281	P	47	48.50	-0.7
DMN		16.93	281	P	47	49.62	-1.5
GKN		17.36	282	P	47	55.64	-0.8
BJI		17.64	33	eP	48	00.00	0.4
	Z	16s		0.76um			
	N	10s		0.80um			
				eS	51	08.00	
WMQ		22.43	328	eP	48	55.50	3.2X
				eS	53	02.50	
CN2		25.20	39	eP	49	21.00	1.9
	Z	15s		0.90um		4.4MszX	
	N	10s		0.20um			
	E	10s		0.30um			
				epP	49	30.00	32kmX
WRA		54.11	144	P	53	20.00	0.7
		0.4s		3.60nm		4.8mb	
WB2		54.12	144	ePKP	53	04.10	-15.2X
				i	53	20.30	
				i	53	33.30	
				i	53	43.60	
MLR		64.00	310	eP	54	28.00	0.1
HFS		68.22	327	eP	54	54.50	0.1
		0.4s		1.20nm		4.4mb	
NB2		69.18	329	P	54	59.50	-0.9
		0.8s		4.00nm		4.6mb	
MBC	-	74.89	10	eP	55	37.50	3.5X
BSF		75.95	316	eP	55	42.90	2.2
		1.0s		14.00nm		5.0mb	
LPG		76.89	314	eP	55	46.40	0.2
LPL		76.89	314	eP	55	46.30	0.2
		0.7s		8.80nm		4.9mb	
INK		77.35	19	eP	55	49.00	1.1
LOR		78.00	317	eP	55	51.10	-0.8
		1.0s		7.00nm		4.7mb	
	Z	20s		0.22um		4.5Msz	

LBF		78.04	316	eP	55	51.90	-0.3
SMF		78.27	316	eP	55	53.20	-0.2
		0.9s		7.35nm		4.7mb	
AVF		78.51	316	eP	55	54.40	-0.3
TCF		79.44	316	eP	56	00.60	0.8
YKA		86.94	17	eP	56	39.00	1.1
		0.7s		0.50nm		3.9mb	
		S.D. = 1.1		on 34 of 40 obs.			

% FEB 27, 1991 08h 47m 02.71± 0.66s
42.084 N ± 7.2km 20.010 E ± 5.5km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.0 (TTG).

PVY		0.51	357	ePg	47	12.40	-0.7
				eSg	47	22.00	
ULC		0.58	258	ePg	47	14.10	-0.4
				eSg	47	25.00	
TTG		0.65	302	ePg	47	16.10	0.4
				eSg	47	27.60	
BDV		0.90	283	ePg	47	20.20	0.2
				eSg	47	37.00	
SKO		1.07	96	ePg	47	23.60	0.7
				iSg	47	34.00	
OHR		1.14	148	ePg	47	23.50	-0.6
				eSg	47	36.70	
HCY		1.18	288	ePg	47	25.00	0.3
				eS	47	45.20	
		S.D. = 0.7		on 7 of 7 obs.			

FEB 27, 1991 08h 51m 15.63± 1.34s
36.444 N ± 8.3km 28.069 E ± 8.0km
DEPTH = 89.8 ± 25.9 km
DODECANESE ISLANDS (369)
MD 3.8 (ATH), 3.5 (ISK).

YER		0.71	14	iPg	51	31.90	-0.6
KAP		1.15	219	ePb	51	37.00	-0.4
CIN		1.15	1	eP	51	39.00	1.6
KSL		1.27	104	ePb	51	38.00	-0.8
ELL		1.51	78	iPn	51	42.80	0.8
IZM		2.05	342	ePn	51	48.30	-0.8
KHL		2.20	31	ePn	51	50.80	-0.4
BCK		2.26	63	iPn	51	52.60	0.7
NPS		2.32	240	ePn	51	53.20	0.5
ALT		3.07	31	ePn	52	02.40	-0.6
		S.D. = 1.0		on 10 of 10 obs.			

FEB 27, 1991 09h 25m 07.24± 0.23s
22.936 S ± 4.4km 172.523 E ± 5.0km
DEPTH = 33.0km (normal)
5.3mb (14 obs.) 5.0Msz (4 obs.)
LOYALTY ISLANDS REGION (189)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 35C
Centroid Location:
Origin Time 09:25:11.7 0.7
Lat 23.04S 0.07 Lon 172.48E 0.04
Dep 15.0 FIX Half-duration 2.1
Moment Tensor; Scale 10**17 Nm
Mrr= 1.85 0.06 Mtt=-1.25 0.09
Mff=-0.60 0.09 Mrt= 2.05 0.24
Mrf= 0.07 0.20 Mtf=-0.58 0.05
Principal Axes:
T Val= 2.88 Plg=63 Azm= 7
N -0.44 10 256
P -2.44 25 162
Best Double Couple:Mo=2.7*10**17
NP1:Strike=230 Dip=22 Slip= 62
NP2: 80 70 101

DZM		5.69	278	iP	26	30.20	-1.5
				iS	27	33.00	
PVC		6.51	322	iPd	26	47.50	4.3X
SVA		7.34	50	eP	26	54.50	-0.4
VUN		7.42	50	ePd	26	55.20	-0.8
WHH		16.26	169	eP	28	56.90	2.1
NOZ		16.33	164	P	28	57.20	1.7
TTH		16.95	169	P	29	06.50	3.1X
PGZ		17.91	171	P	29	13.00	-2.4
		1.2s		217.00nm		5.2mb	
KIW		17.99	174	eP	29	17.60	1.2
HNR		18.04	316	eP	29	17.00	-0.1
				eS	32	51.00	
CAW		18.25	174	P	29	18.80	-0.7

TCW		18.28	176	eP	29	20.20	0.2
MRW		18.34	175	eP	29	20.70	0.1
MTW		18.34	173	eP	29	20.30	-0.4
WEL		18.39	175	P	29	21.20	-0.1
				S	33	00.00	
WDW		18.40	174	eP	29	20.40	-1.0
BRS		18.41	252	iPc+	29	24.50	2.8X
				i	29	36.00	
				eS	32	57.00	
BLW		18.55	173	P	29	22.10	-1.1
LTZ		19.79	181	P	29	33.10	-4.6X
COO		19.92	243	eP	29	40.00	0.9
RMQ		21.87	256	iPc	30	03.20	4.1X
		0.9s		71.00nm		5.1mb	
CNB		23.63	233	eP	30	20.00	3.6X
		1.4s		380.00nm		5.7mb	
				i	30	28.90	
CTA		24.59	272	iPc	30	29.80	4.1X
		2.0s		529.41nm		5.8mb	
				iS	34	50.00	
CMS		25.17	244	eP	30	33.00	1.8
QLP		25.92	256	iPc	30	39.00	0.8
RAB		27.10	310	e(P)	30	46.00	-3.2X
TBI		34.89	98	iP	32	05.50	7.6X
		1.6s		380.00nm		6.1mb	
WB2		35.59	267	iPd	32	02.10	-1.8
				i	32	35.30	
WRA		35.60	267	P	32	02.00	-2.0
		2.1s		22.80nm		4.7mb	
TVO		36.13	89	eP	32	08.00	-0.5
		1.0s		45.00nm		5.3mb	
PMO		38.16	85	iP	32	14.70	-10.8X
		1.0s		30.00nm			
VAH		38.33	86	iP	32	15.90	-11.0X
		1.0s		30.00nm			
TPT		38.42	85	iP	32	16.90	-10.8X
		1.0s		40.00nm			
RUV		38.57	86	iP	32	18.10	-10.9X
		1.0s		45.00nm			
WARB		41.69	256	eP	32	55.00	0.3
GUA		45.22	321	eP	33	09.50	-13.8X
MBL		48.65	261	eP	33	50.00	-0.3
MEKA		48.86	254	eP	33	51.00	-0.9
KLB		49.01	247	eP	33	52.00	-1.0
NWAO		49.37	246	eP	33	55.50	-0.2
	Z	20s		2.00um		5.1Msz	
	N	20s		1.20um			
	E	20s		1.50um			
MUN		50.30	247	eP	34	02.00	-0.9
NANU		52.27	259	eP	34	18.00	0.2
DAV		54.75	297	eP	34	36.00	-0.3
BAG		64.11	303	eP	35	33.00	-8.0X
SPA		67.20	180	iPc	36	00.00	-0.2
		1.2s		21.83nm		5.1mb	
MAT		67.45	331	eP	35	55.00	-6.9X
				eS	44	46.00	
KGM		71.73	280	eP	36	30.00	1.5
SSE		72.85	315	eP	36	22.00	-12.8X
	Z	20s		0.60um		4.9Msz	
	E	10s		0.30um			
				epP	36	32.00	32kmX
				eS	46	00.00	
				sS	46	20.00	
				eScS	46	30.00	
				i	48	40.00	
QIZ		74.06	299	eP	36	41.00	-1.1
IPM		74.88	282	ePd	36	47.50	0.5
SNG		76.35	284	eP	36	58.20	2.9X
SNY		78.75	325	Pc	37	06.00	-2.0
	Z	22s		0.80um		5.0Msz	
CN2		79.20	327	Pc	37	08.00	-2.4
	Z	26s		1.60um		5.2MszX	
	N	10s		0.20um			
	E	10s		0.30um			
				pP	37	21.00	44kmX
				eS	47	10.00	
GYA		80.43	304	P	37	20.00	2.4
BSI		80.44	280	eP	37	19.00	1.3
BJI		81.73	320	eP	37	24.00	0.2
	Z	24s		1.59um		5.3MszX	
				eS	47	36.00	
				eSS	53	04.00	
BDT		82.20	292	eP	37	28.50	1.8
TIY		82.61	316	eP	37	29.00	0.3
	Z	24s		1.10um		5.1MszX	
	N	13s		0.40um			
				S	47	40.00	

XAN	82.85	311	eP	37	31.50	1.6
CHG	82.95	294	eP	37	33.90	3.2X
CD2	84.90	306	P	37	40.00	-0.4
HHC	85.01	318	eP	37	40.50	-0.3
Z	26s		0.90um			5.0MszX
BRK	86.05	46	eP	37	48.90	3.1X
BKS	86.07	46	e(P)	37	54.00	8.0X
PRI	86.20	48	eP	37	50.40	3.6X
ABL	86.53	50	P	37	49.00	0.4
FRI	87.30	48	eP	37	52.60	0.7
WDC	87.34	44	eP	37	53.10	1.0
CMB	87.38	47	eP	37	53.20	0.8
SBB	87.44	51	eP	37	53.00	0.2
LZH	87.46	311	eP	37	55.00	2.0
	1.5s		17.00nm			5.1mb
Z	25s		0.52um			4.8MszX
E	12s		0.26um			
			PP	41	25.00	
			eSKS	48	10.00	
			eS	48	25.00	
ISA	87.47	50	eP	37	54.00	1.1
PLM	87.47	52	eP	37	53.00	-0.2
CLC	88.17	50	eP	37	56.00	-0.3
TPC	88.43	52	eP	37	55.00	-2.6X
GSC	88.47	51	eP	37	58.00	0.2
BONR	88.75	48	P	37	59.80	0.5
GLA	88.82	53	eP	38	01.00	1.6
KVN	89.44	47	P	38	02.00	-0.4
TNP	89.56	48	P	38	02.00	-1.0
	1.4s		16.67nm			5.1mb
PMR	89.69	17	P	38	02.80	0.0
	2.0s		79.62nm			5.7mb
GTA	91.88	312	eP	38	15.60	2.0
	1.2s		10.00nm			5.1mb
Z	22s		0.60um			5.0Msz
FBA	92.74	16	P	38	12.70	-4.1X
	1.6s		49.18nm			5.7mb
MSU	93.26	49	P	38	20.00	-0.1
ALQ	95.89	55	eP	38	30.50	-1.8
	1.4s		7.56nm			5.0mb
YKA	102.54	27	ePdiff	38	59.90	-1.4
	0.8s		0.40nm			4.2mb X
FRB	123.05	28	ePKP	43	59.00	-2.2
BUL	124.56	222	iPKPd	44	06.20	0.5
	1.0s		11.00nm			
PTZ	126.99	230	iPKP	44	08.00	-2.5
			i	44	18.30	
SOB1	134.27	131	ePKP	44	23.50	-0.8
MLR	144.75	318	ePKP	44	31.00	-11.4X
SPC	145.88	327	ePKP	44	41.60	-2.7X
KSP	146.57	332	ePKP	44	45.50	0.4
			e	44	53.50	
			e	45	25.00	
EKA	147.49	355	PKP	44	47.00	0.6
	1.8s		80.80nm			
CLL	147.53	336	ePKP	44	48.00	1.4
			e	44	55.00	
SRO	147.75	327	ePKP	44	42.80	-4.3X
PRU	147.95	333	ePKP	44	50.00	2.6X
			e	44	57.50	
MOX	148.59	336	ePKP	44	58.00	9.6X
BCAO	148.85	238	iPKPd	44	50.00	0.1
	1.0s		125.00nm			
			i	44	54.30	
VAY	148.86	313	ePKP	44	55.00	5.9X
KHC	149.01	333	ePKP	44	52.60	3.5X
			e	44	55.50	
SKO	149.31	315	ePKP	44	49.50	-0.3
			e	44	53.50	
			i	44	55.00	
			i	45	00.00	
GRF	149.51	336	e(PKP)	44	57.00	7.2X
Z	24s		0.40um			5.1MszX
OHR	150.14	314	ePKP	44	55.20	4.1X
PTJ	150.23	326	ePKP	44	57.20	6.1X
KBA	150.66	330	e(PKP)	44	56.00	4.1X
	0.8s		6.40nm			
			i	45	08.20	
LIC	163.22	188	PKP	45	08.38	0.4
KIC	163.31	190	PKP	45	08.50	0.4
TIC	163.63	189	PKP	45	08.68	0.2
LKO	166.56	188	PKP	45	11.82	0.9
S.D. = 1.2			on	75	of 110	obs.

% FEB 27, 1991 09h 52m 56.94± 1.97s
41.427 N ±12.7km 29.383 E ±12.7km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 2.8 (ISK).

ISK	0.44	214	iPg	53	05.70	-0.1
			eSg	53	12.20	
HRT	0.64	160	iPg	53	10.20	0.4
			eSg	53	19.20	
YLV	0.86	181	iPn	53	13.80	0.3
IZI	1.09	176	ePn	53	16.80	-0.7
DMK	1.28	288	iPn	53	20.50	-0.2
KCT	1.41	214	ePn	53	22.00	-0.7
BNT	1.54	227	iPn	53	25.10	0.6
EDC	1.58	227	iPn	53	25.50	0.5
S.D. = 0.6			on	8	of 8	obs.

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* FEB 27, 1991 09h 54m 55.83± 1.94s
41.429 N ±12.8km 29.366 E ±12.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.9 (ISK).

ISK	0.43	213	ePg	55	04.20	-0.4
GBZT	0.64	175	ePg	55	08.30	-0.4
HRT	0.65	159	iPg	55	09.20	0.4
IZI	1.09	176	iPn	55	16.20	-0.2
DMK	1.27	289	iPn	55	19.00	-0.4
KCT	1.41	213	ePn	55	21.00	-0.5
BNT	1.53	226	iPn	55	24.10	0.8
EDC	1.57	227	iPn	55	24.50	0.7
S.D. = 0.6			on	8	of 8	obs.

% FEB 27, 1991 10h 55m 20.40± 0.73s
44.384 N ± 5.5km 8.327 E ± 5.7km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.0 (GEN).

FIN	0.19	206	P	55	24.91	0.2
			S	55	27.98	
PCP	0.22	45	P	55	25.14	-0.1
			S	55	28.85	
ROB	0.34	255	P	55	27.34	-0.1
			S	55	32.47	
IMI	0.57	214	P	55	32.01	0.0
			S	55	39.51	
ENR	0.67	257	P	55	33.63	-0.2
			S	55	42.87	
STV	0.73	259	P	55	34.50	-0.4
			S	55	44.26	
PZZ	0.89	278	P	55	37.78	0.3
			S	55	49.26	
BHB	0.89	301	P	55	37.63	0.2
			S	55	49.66	
RRL	1.22	296	P	55	43.33	0.0
S.D. = 0.2			on	9	of 9	obs.

FEB 27, 1991 11h 13m 38.72± 0.63s
39.095 N ± 5.2km 20.597 E ± 5.6km
DEPTH = 5.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
MD 2.9 (ATH), 2.9 (THE).

IGT	0.48	335	eP	13	48.20	-0.2
KEK	0.87	315	eP	13	55.50	-0.5
SRN	0.91	330	eP	13	56.10	-0.5
VLS	0.92	180	ePg	13	57.00	0.3
EVR	0.96	100	ePg	13	57.00	-0.5
LSK	1.05	0	eP	13	55.20	-3.9X
			eS	14	12.80	
AGG	1.35	93	eP	14	04.40	0.2
KZN	1.51	36	eP	14	06.00	-0.5
KBN	1.54	6	eP	14	08.00	1.2
LIT	1.77	55	eP	14	09.70	-0.6
FNA	1.79	19	eP	14	09.80	-0.7
OHR	2.02	4	ePn	14	14.80	0.9
ITM	2.18	151	ePg	14	20.50	4.3X
VAY	2.69	34	ePn	14	20.50	-2.9X
SOH	2.73	50	eP	14	24.40	0.3
SKO	2.94	12	ePn	14	27.50	0.5
S.D. = 0.7			on	13	of 16	obs.

% FEB 27, 1991 11h 21m 40.21± 0.89s
44.385 N ±10.8km 8.084 E ± 5.8km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.8 (GEN).

ROB	0.18	239	P	21	44.50	0.2
			S	21	47.29	
FIN	0.20	153	P	21	44.52	-0.1
			S	21	47.39	
PCP	0.37	64	P	21	47.80	0.1
ENR	0.50	252	P	21	50.52	0.1
			S	21	57.13	
STV	0.56	256	P	21	51.39	-0.3
S.D. = 0.3			on	5	of 5	obs.

? FEB 27, 1991 11h 38m 19.91±17.80s
40.819 N ±70.8km 29.255 E ±111.km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.4 (ISK).

GBZT	0.15	102	ePg	38	22.20	-1.1
			iSg	38	24.20	
YLV	0.27	160	iP	38	25.60	0.0
HRT	0.31	89	iPg	38	26.60	0.1
			eSg	38	30.60	
IZI	0.51	161	iPg	38	30.10	-0.2
			eSg	38	38.60	
S.D. = 1.0			on	4	of 4	obs.

FEB 27, 1991 12h 02m 33.23± 1.58s
43.274 N ±11.6km 5.471 E ± 9.1km
DEPTH = 16.7 ± 5.8 km
NEAR SOUTH COAST OF FRANCE (379)
MD 2.0 (STR).

GELF	0.11	344	Pg	02	37.57	0.6
PUYF	0.31	33	Pg	02	39.97	0.0
TREF	0.36	350	Pg	02	40.26	-0.5
TAVF	0.55	51	Pg	02	44.86	0.8
PRAF	0.57	338	Pg	02	44.34	-0.1
VILF	0.61	17	Pg	02	44.48	-0.5
CALN	1.14	65	Pg	02	54.13	0.0
REVF	1.46	71	Pn	02	59.40	0.6
AURF	1.48	65	Pn	02	59.29	0.0
			Sg	03	20.05	
TOUF	1.49	60	Pn	02	58.38	-1.0
SBF	1.54	67	Pn	03	00.13	0.0
AUTN	1.59	62	Pn	03	00.72	-0.3
			Sg	03	23.28	
SAOF	1.67	64	Pn	03	01.76	-0.2
BNI	1.98	26	P	03	08.00	1.5
			eSn	03	35.00	
PGF	2.69	104	Pn	03	16.71	0.0
S.D. = 0.7			on	15	of 15	obs.

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* FEB 27, 1991 12h 18m 23.49± 1.09s
24.048 S ±11.3km 66.751 W ± 6.7km
DEPTH = 189.1 ± 7.9 km
4.4mb (9 obs.)
SALTA PROVINCE, ARGENTINA (129)

ANT	3.37	275	iPc	19	16.70	-0.9
			iS	19	53.50	
CNCB	7.29	351	iPd	20	11.00	2.0
LPB	7.58	350	eP	20	13.00	0.3
ZOBO	7.85	350	iP	20	16.80	0.4
	0.5s		10.39nm			4.4mb
			S	21	43.00	
ARE	8.76	329	eP	20	26.00	-1.9
			eS	21	59.00	
SIV	9.63	35	P	20	39.20	0.2
PPD	14.36	85	eP	21	40.80	1.4
			e	21	44.40	
VAO	18.17	91	eP	22	24.50	-0.1
PDCR	28.56	71	(P)	24	03.00	-0.9
SOB1	28.76	64	eP	24	04.80	-0.9
			e	24	43.50	
TKL	61.53	344	P	28	20.90	-1.6
RSCP	61.94	343	P	28	23.50	-1.8
OLY	63.68	338	P	28	35.00	-1.7
ELC	64.57	340	P	28	40.60	-1.8
FVM	65.59	340	P	28	47.00	-1.9
KIC	67.55	72	P	29	01.00	-0.8
	0.4s		3.00nm			4.4mb
ALQ	69.71	326	ePc	29	15.00	0.1
	0.8s		10.07nm			4.6mb
GOL	72.95	330	P	29	33.60	-0.5
	0.7s		2.73nm			4.1mb
GLA	72.96	319	P	29	34.80	0.8
PLM	74.40	318	P	29	43.40	0.9
PEC	74.95	318	P	29	46.10	0.6

27d 12h

```
MSU     75.40 325 P      29 48.90   0.7
RSSD    75.95 333 P      29 51.00  -0.1
         0.9s      6.39nm          4.4mb
DAU     76.34 327 P      29 54.50   1.0
BW06    77.31 329 P      29 58.50  -0.2
8CH     77.60 318 P      30 01.50   1.2
TNP     77.86 321 P      30 02.50   0.7
         0.6s      2.62nm          4.1mb
BONR    78.39 321 P      30 06.00   1.2
KVN     79.03 322 P      30 08.80   0.7
LRM     80.98 330 eP     30 19.60   1.3
LBFM    82.72 321 P      30 27.80   0.4
SES     83.83 333 eP     30 33.00   0.4
FFC     84.08 340 eP     30 34.00   0.3
         0.8s      8.00nm          4.5mb
DPW     85.18 328 P      30 40.00   0.6
LON     86.23 326 P      30 44.30  -0.3
RMW     86.69 326 P      30 46.60  -0.2
BMW     86.79 325 P      30 48.00   0.7
PNT     86.86 329 eP     30 48.00   0.5
         0.7s      5.00nm          4.5mb
YKA     94.25 340 eP     31 21.50  -0.1
         0.6s      3.70nm          4.7mb
VAY    104.97  51 ePdiff32 27.00  16.7X
WRA    131.69 207 PKP    37 16.00   0.0
         0.7s      3.40nm
GBA    144.64 101 PKP    37 39.00  -0.7
      S.D. = 1.0  on  41 of  42 obs.
-------------------------------------
*  FEB  27, 1991  13h 24m 41.84± 1.38s
   36.493 N ± 8.3km   70.819 E ± 9.9km
   DEPTH = 198.8 ± 13.8 km
   4.3mb (  7 obs.)
 HINDU KUSH REGION                (718)

KSH      5.04   52 Pc     25 58.50   1.1
         0.9s  2200.00nm          6.3mb X
                S          26 56.80
NDI      9.47  143 iPd     26 55.50   0.4
                eS         28 33.00
GKN     14.42  122 P      27 57.92  -0.4
WMO     14.82   55 iPd     28 01.00  -2.1
                eS         30 45.60
DMN     14.99  122 P      28 04.96  -0.5
KKN     15.00  121 P      28 04.32  -1.1
PKI     15.22  122 P      28 07.20  -1.2
GUN     15.34  120 P      28 09.06  -0.7
POO     18.09  171 eP     28 57.00  15.7X
LSA     18.32  106 eP     28 45.30   1.3
HYB     20.20  158 eP     29 06.50   3.7X
                eS         32 49.50
GTA     23.01   74 eP     29 31.60   1.3
                sP         30 39.00
GBA     23.55  164 Pc     29 37.10   1.6
         0.4s      3.10nm          4.3mb
CHG     30.35  118 eP     30 39.90   2.9
CHTO    30.35  118 eP     30 51.00  14.1X
XAN     31.08   83 P      30 43.50   0.3
GYA     32.01   98 P      30 51.80   0.3
TIY     33.02   75 eP     31 01.10   1.0
KAF     37.55  327 eP     31 38.90   0.9
NUR     37.75  324 eP     31 40.00   0.4
KEV     40.75  338 eP     31 52.00 -12.3X
HFS     42.98  322 eP     32 22.40  -0.1
         0.4s      4.50nm          4.4mb
NB2     44.30  323 P      32 33.10  -0.1
         0.7s      7.50nm          4.3mb
DAG     54.72  344 eP     33 51.40  -0.7
BCAO    57.52  249 iPd    34 12.40  -0.3
         1.0s     15.00nm          4.7mb
                i          35 23.90
MBC     67.35    3 ePc     35 16.60  -0.2
         0.6s      3.00nm          4.2mb
INK     73.94    9 ePc     35 56.10  -0.1
KIC     74.64  267 P      36 06.00   4.8X
YKA     81.26    3 eP      36 36.00  -0.3
         0.5s      2.30nm          4.2mb
WRA     82.11  122 P      36 40.00  -1.5
         0.4s      2.30nm          4.3mb
WB2     82.12  122 iPc     36 40.30  -1.2
                e          37 46.30
WB2     82.12  122 iPc     36 40.30  -1.2
                e          37 46.30
      S.D. = 1.2  on  27 of  32 obs.
-------------------------------------
*  FEB  27, 1991  13h 29m 22.89± 1.13s
   34.963 N ± 7.9km   36.873 E ±17.0km
   DEPTH =  10.0km  (geophysicist)
 JORDAN - SYRIA REGION            (374)
      ML 3.6 (BHL).

BHL      1.46 224 Pgd    29 48.00  -1.4
                Sg       30 09.00
HRI      1.93 209 eP     29 56.70   0.5
GAZ      2.22   7 ePn    30 00.20  -0.1
ADI      2.32 217 eP      30 01.70  -0.1
GLH      2.46 205 eP      30 03.80   0.1
ATZ      2.52 212 eP      30 05.20   0.7
                eS       30 38.00
MML      2.80 206 iPc     30 08.50  -0.1
CSS      2.91 271 eP      30 10.50   0.4
      S.D. = 0.7  on   8 of   8 obs.
-------------------------------------
*  FEB  27, 1991  14h 00m 42.65± 1.40s
   35.654 S ± 9.4km  178.722 E ±19.9km
   DEPTH =  33.0km  (normal)
   4.7mb (  1 obs.)
 OFF E. COAST OF N. ISLAND, N.Z. (160)

H8Z      1.97 190 eP     01 12.40  -1.9
PUZ      2.44 189 P      01 17.50  -3.6X
                eS       01 57.40
NOZ      3.01 190 P      01 25.50  -3.6X
TAZ      3.13 214 eP     01 32.20   1.5
WLZ      3.33 228 P      01 37.70   4.0X
WHH      3.68 208 P      01 38.60  -0.1
NGZ      4.31 214 eP     01 46.90  -0.7
CNZ      4.35 215 P      01 48.20   0.0
KIW      6.00 209 eP     02 05.90  -5.6X
MTW      6.05 204 eP     02 05.50  -6.6X
WEL      6.42 208 eP     02 22.00   4.7X
                S        04 22.00
DZM     17.26 318 iPc    04 41.70  -1.2
BRS     23.55 283 iP     05 53.10   2.2
RMQ     27.16 281 eP     06 24.00  -0.9
CMS     27.65 269 eP     06 29.00  -0.3
SPA     54.53 180 eP     10 11.00   1.5
         1.1s      8.93nm          4.7mb
GKN    108.80 291 PKP    19 00.00 -10.5X
YKA    111.36  27 ePKP   19 14.00   0.0
         0.8s      0.40nm
BCAO   143.95 215 iPKPc  20 04.00 -12.9X
         0.7s     21.00nm
                i        20 20.00
LIC    150.51 172 PKP    20 20.98  -6.4X
KIC    150.67 173 PKP    20 21.40  -6.3X
TIC    150.93 172 PKP    20 21.90  -6.2X
      S.D. = 1.4  on  11 of  22 obs.
-------------------------------------
*  FEB  27, 1991  14h 00m 58.58± 2.17s
   39.895 N ±24.4km   23.981 E ± 8.6km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                       (365)

SOH      1.04 333 eP     01 18.20  -0.1
SRS      1.26 346 eP     01 16.20  -5.7X
                eS       01 39.80
KNT      1.51 327 eP     01 17.30  -8.4X
                eS       01 47.90
GRG      1.61 312 eP     01 27.30   0.2
VAY      1.78 323 ePn    01 21.40  -8.2X
ALN      1.87  57 ePd    01 30.84   0.0
FNA      2.18 295 eP     01 35.40  -0.1
OHR      2.71 298 ePn    01 43.00  -0.1
      S.D. = 0.2  on   5 of   8 obs.
-------------------------------------
*  FEB  27, 1991  14h 11m 02.52± 0.90s
   71.402 N ±14.9km   8.999 W ±30.1km
   DEPTH =  10.0km  (geophysicist)
 JAN MAYEN ISLAND REGION          (639)
      MD 2.6 (BER).

JNW      0.42 153 iPgc    11 11.40   0.4
JNE      0.47 151 iPgd    11 12.03  -0.1
JMI      0.48 170 iPgc    11 12.00  -0.3
                eSg      11 17.49
DAG      6.02 338 iP      12 33.20  -0.4
         0.4s     50.85nm          5.6mb X
                ipP      13 38.50
YKA     36.99 312 eP      18 13.60   0.5
         0.9s      0.50nm          3.3mb
      S.D. = 0.5  on   5 of   5 obs.
-------------------------------------
*  FEB  27, 1991  16h 07m 00.85± 1.45s
   39.946 N ±12.7km   23.816 E ± 8.7km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                       (365)
      MD 2.6 (THE).

PAIG     0.11 260 eP     07 03.30  -0.3
                eS       07 05.60
THE      0.95 317 eP     07 18.40  -0.4
                eS       07 32.40
LIT      1.03 279 eP     07 20.30   0.0
                eS       07 35.76
SRS      1.18 352 eP     07 22.00  -0.9
                eS       07 38.70
KNT      1.40 330 iPc    07 26.00  -0.4
                eS       07 45.28
GRG      1.48 314 iPc    07 27.56   0.0
                eS       07 48.30
VAY      1.67 326 ePn    07 32.20   2.0
ALN      1.95  60 ePd    07 34.36   0.1
      S.D. = 1.0  on   8 of   8 obs.
-------------------------------------
&  FEB  27, 1991  17h 12m 35.31s
   61.613 N          149.702 W
   DEPTH =  31.9km
 SOUTHERN ALASKA                  (  2)
      <AEIC>. Felt (I) at Palmer.

PWA      0.09 294 iP     12 41.13   0.2
PLRM     0.27  94 iP     12 41.97  -0.6
                eS       12 47.73
PMR      0.27  94 iPc    12 42.40  -0.2
PMS      0.38 170 iP     12 43.60  -0.5
                eS       12 50.12
GHO      0.40  66 iP     12 43.61  -0.9
SUA      0.52 254 eP     12 45.53  -0.8
                eS       12 54.70
KNK      0.63 108 iP     12 46.61  -1.3
                eS       12 56.57
CUT      0.84 342 eP     12 49.93  -0.8
SLKM     1.14 193 eP     12 54.30  -0.8
NKA      1.15 221 eP     12 56.59   1.4
NCG      1.20 261 eP     12 55.53  -0.5
CRP      1.23 255 eP     12 56.64   0.1
CKL      1.34 253 eP     12 57.70  -0.3
BGL      1.34 256 eP     12 58.07   0.0
HUR      1.37   1 eP     12 58.49   0.1
GLI      1.46 119 eP     12 58.72  -1.0
                eS       13 17.01
SEW      1.52 175 eP     13 00.00  -0.5
KNIM     1.59 142 eP     12 59.57  -2.0
VZW      1.62 109 eP     13 01.07  -0.9
RDT      1.68 233 eP     13 02.57  -0.3
VLZ      1.69 105 eP     13 01.79  -1.2
TOA      1.74  72 iPc    13 04.10   0.2
NNL      1.76 207 eP     13 03.36  -0.7
KLU      1.81  92 eP     13 04.00  -0.9
RND      1.84  12 eP     13 04.61  -0.7
REF      1.84 234 eP     13 05.06  -0.4
RDN      1.85 235 eP     13 04.98  -0.5
TRF      1.86 352 eP     13 05.52  -0.2
RSO      1.88 233 eP     13 05.63  -0.4
RS2      1.88 234 eP     13 05.73  -0.3
NCT      1.89 237 eP     13 05.53  -0.5
MTU      1.92 147 eP     13 04.38  -1.9
RED      1.92 233 eP     13 06.05  -0.3
SDG      2.16  63 eP     13 09.58  -0.2
GLB      2.83  91 eP     13 18.87  -0.4
SVW      2.90 263 eP     13 19.80  -0.4
TTA      3.23 297 eP     13 24.30  -0.7
FBA      3.41  14 ePd    13 27.30  -0.3
TGL      3.44 101 eP     13 28.13   0.1
BALM     3.59  96 eP     13 29.52  -0.7
      40 obs. associated
-------------------------------------
   FEB  27, 1991  17h 37m 28.51± 0.49s
   38.341 N ± 3.7km   30.263 E ± 5.5km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      MD 3.6 (ISK).

KHL      0.58 269 iPg    37 39.00  -1.4
                iSg      38 48.00
ALT      0.72 351 iPg    37 42.00  -0.8
BCK      0.92 164 iPn    37 45.70  -0.4
ELL      1.61 190 ePn    37 58.00   0.8
DST      1.79 315 iPn    38 00.30   0.5
GPA      1.95   1 iPn    38 02.30   0.3
```

YER	1.98	233	ePn	38 03.00	0.5
IZI	2.09	343	iPn	38 03.80	-0.2
YLV	2.33	343	ePn	38 07.40	-0.1
IZM	2.36	272	ePn	38 07.60	-0.3
BBTK	2.45	52	eP	38 08.50	-0.8
			iS	38 39.00	
HRT	2.52	350	ePn	38 11.00	0.8
GBZT	2.53	346	eP	38 14.00	3.8X
BNT	2.71	319	iPn	38 12.40	-0.5
EDC	2.73	318	ePn	38 13.50	0.3
ISK	2.88	342	ePn	38 16.00	0.8
ITU	2.92	341	ePn	38 25.00	9.1X
			iSg	39 05.00	
EZN	3.40	297	ePn	38 22.80	0.1
DMK	3.97	332	ePn	38 31.00	0.3

S.D. = 0.7 on 17 of 19 obs.

FEB 27, 1991 18h 02m 53.16± 0.56s
38.326 N ± 3.6km 30.235 E ± 6.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.7 (ISK).

KHL	0.56	270	iPg	03 03.00	-1.6
			eSg	03 13.00	
ALT	0.73	352	iPg	03 06.90	-0.7
BCK	0.91	162	iPn	03 09.70	-0.9
ELL	1.60	189	ePn	03 22.10	0.5
DST	1.79	316	iPn	03 24.90	0.5
CIN	1.85	248	eP	03 26.00	0.9
YER	1.95	233	iPn	03 27.50	0.8
GPA	1.96	2	ePn	03 27.20	0.4
IZI	2.09	344	iPn	03 29.00	0.2
YLV	2.34	344	iPn	03 32.40	0.1
IZM	2.34	273	ePn	03 32.10	-0.2
KCT	2.41	323	ePn	03 34.00	0.7
BBTK	2.48	52	iPc	03 03.00	-31.4X
			i	03 34.50	
HRT	2.53	350	ePn	03 35.00	0.0
GBZT	2.53	346	eP	03 38.00	3.0X
BNT	2.71	319	iPn	03 36.90	-0.6
EDC	2.73	318	ePn	03 38.00	0.2
ISK	2.88	342	ePn	03 40.00	0.1
EZN	3.39	297	ePn	03 47.00	-0.2
DMK	3.98	332	ePn	03 55.20	-0.2
CSS	4.18	143	eP	04 03.00	4.6X

S.D. = 0.7 on 18 of 21 obs.

FEB 27, 1991 18h 05m 41.56± 0.58s
38.240 N ± 4.3km 30.100 E ± 6.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.7 (ISK).

KHL	0.46	281	iPg	05 49.50	-1.5
			eSg	05 57.00	
BCK	0.87	153	iPn	05 57.70	-0.6
ELL	1.50	186	ePn	06 09.00	0.4
DST	1.78	320	ePn	06 12.90	0.3
YER	1.82	233	ePn	06 13.50	0.4
GPA	2.05	4	ePn	06 17.00	0.5
IZI	2.15	347	ePn	06 18.00	0.0
IZM	2.24	275	ePn	06 20.00	0.7
YLV	2.39	347	ePn	06 22.00	0.6
KCT	2.42	327	ePn	06 22.00	0.2
GBZT	2.60	349	eP	06 22.00	-2.3
HRT	2.60	353	ePn	06 25.00	0.6
BNT	2.71	322	iPn	06 25.90	0.0
EDC	2.73	321	ePn	06 27.00	0.8
ISK	2.93	344	ePn	06 29.00	0.0
EZN	3.34	299	ePn	06 35.00	0.2
DMK	4.00	334	ePn	06 44.00	-0.2

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

FEB 27, 1991 18h 43m 42.73± 0.80s
36.644 N ± 7.2km 25.597 E ± 9.8km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)
ML 3.4 (ATH).

APE	0.43	353	ePg	43 51.00	-0.5
NPS	1.38	179	ePn	44 08.50	0.5
VAM	1.67	223	ePb	44 13.00	0.8
KAP	1.68	130	ePb	44 11.00	-1.3
ATH	2.00	312	ePg	44 20.00	3.1X
VLI	2.14	273	ePn	44 18.20	-0.7
IZM	2.20	37	ePn	44 21.00	1.2

S.D. = 1.3 on 6 of 7 obs.

FEB 27, 1991 19h 02m 20.68± 1.36s
8.912 N ± 4.8km 126.385 E ± 7.4km
DEPTH = 64.4 ± 12.6 km
5.1mb (29 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

DAV	1.98	204	eP	02 54.00	1.4
MNI	7.58	192	eP	04 11.00	0.1
AAI	12.65	172	eP	05 20.60	1.0
QIZ	18.92	304	eP	06 37.80	-1.5
	E 16s		1.30um		
			eS	10 13.00	
KUPT	19.14	188	eP	06 38.70	-3.0X
MTN	22.12	168	eP	07 11.00	-1.3
	0.4s		60.00nm	5.4mb	
SSE	22.60	348	Pc	07 16.30	-0.5
	1.2s		51.00nm	4.8mb	
	Z 20s		0.50um	3.9Msz	
NJ2	24.06	344	Pd	07 31.00	0.0
KNA	24.62	174	eP	07 36.00	-0.5
LOE	25.42	292	eP	07 45.00	0.8
IPM	25.54	262	ePd	07 47.50	2.2
	0.9s		75.90nm	5.2mb	
NNT	26.43	280	eP	07 50.40	-3.1X
NST	26.50	287	eP	07 57.00	3.0X
KMI	27.69	309	eP	08 08.20	3.1X
BDT	27.90	290	eP	08 06.50	-0.3
CHG	28.36	293	eP	08 10.90	-0.1
	1.0s		13.25nm	4.5mb	
MAT	29.53	20	iPd	08 18.20	-3.1X
	1.0s		6.00nm	4.2mb	
			(S)	13 36.00	
XAN	29.72	330	eP	08 20.50	-2.6X
WB2	29.73	165	iPd	08 20.00	-3.2X
CD2	30.40	319	P	08 30.40	1.3
MBL	30.57	192	eP	08 30.00	-0.6
TIY	31.32	338	eP	08 36.60	-0.6
	Z 14s		0.60um	4.4MszX	
OIS	32.04	156	iPc	08 41.20	-2.3
	0.7s		55.00nm	5.5mb	
			i	08 54.00	
BJI	32.31	345	eP	08 44.50	-1.1
	1.0s		10.00nm	4.6mb	
SNY	32.88	356	iPc	08 49.60	-0.9
	1.2s		50.00nm	5.2mb	
NANU	33.04	199	eP	08 52.00	-0.1
	0.6s		17.00nm	5.1mb	
LZH	33.96	326	eP	09 03.50	3.3X
	2.0s		29.00nm	4.9mb	
	Z 20s		0.44um	4.2Msz	
HHC	34.42	340	P	09 03.00	-1.1
CN2	34.76	359	eP	09 05.40	-1.4
WARB	34.89	180	iPc	09 08.50	0.4
	0.4s		10.00nm	5.1mb	
MDJ	35.68	4	iPd	09 14.80	0.2
	1.0s		80.00nm	5.6mb	
MEKA	36.13	192	eP	09 18.50	-0.1
GTA	38.56	326	eP	09 37.60	-1.5
	Z 16s		0.60um	4.5MszX	
FORR	39.57	178	iPc	09 46.40	-0.9
KLB	41.11	191	eP	10 00.00	0.0
MUN	41.81	193	eP	10 06.00	0.3
NWAO	42.51	191	eP	10 12.00	0.6
GUN	42.56	302	P	10 12.16	-0.3
	0.8s		155.00nm	5.9mb	
PKI	42.85	301	P	10 13.88	-0.9
KKN	43.03	301	P	10 15.44	-0.7
DMN	43.12	301	P	10 16.34	-0.6
GKN	43.64	301	P	10 20.16	-0.8
RKG	43.66	191	iPd	10 25.50	4.7X
ADE	45.17	166	iPc	10 32.50	-0.5
	1.1s		50.63nm	5.3mb	
HYB	47.23	285	eP	10 49.50	0.0
	1.0s		30.00nm	5.2mb	
GBA	48.17	280	Pc	10 57.20	0.4
	0.9s		13.30nm	4.9mb	
KOD	48.22	276	eP	10 58.50	0.9
BFD	48.28	163	iPc	10 56.50	-0.8
	0.6s		24.00nm	5.4mb	
WMQ	48.36	323	Pd	10 57.50	-0.5
			sP	11 22.00	
TOO	49.58	160	iPd	11 07.40	0.0
DZM	49.91	129	iPc	11 09.00	-1.2
POO	51.77	287	eP	11 24.00	-0.3
QUE	59.20	300	eP	12 17.00	-1.0
SVW	76.45	29	ePc	14 06.70	1.7
	0.8s		18.30nm	5.1mb	
BRW	77.40	19	ePc	14 11.80	1.8
IMA	77.82	24	ePc	14 13.90	1.3
	0.8s		17.50nm	5.1mb	
PMR	79.60	29	ePc	14 22.20	0.1
	0.7s		24.90nm	5.3mb	
FBA	80.22	26	ePc	14 25.50	0.1
	0.8s		10.40nm	4.8mb	
TOA	80.99	28	ePc	14 31.50	1.8
	0.7s		48.70nm	5.5mb	
KEV	84.94	340	eP	14 52.00	2.4
INK	85.50	22	ePc	14 52.70	0.2
SOD	85.58	338	iP	14 54.20	1.3
KAF	86.87	332	iP	14 59.30	0.0
MBC	87.00	13	ePc	15 00.40	0.7
	0.7s		18.00nm	5.4mb	
NUR	88.03	331	eP	15 03.00	-1.9
	0.7s		13.30nm	5.2mb	
			i	15 08.80	
DAG	92.12	352	iPd	15 22.50	-1.2
	0.7s		4.79nm	5.0mb	
HFS	93.30	332	eP	15 31.40	2.0
	0.4s		2.60nm	5.0mb	
NB2	94.02	334	P	15 34.80	2.0
	0.7s		2.40nm	4.7mb	
YKA	94.94	24	eP	15 37.00	0.0
	0.7s		6.80nm	5.2mb	
NEW	100.37	37	ePdiff	16 02.10	0.2
	1.0s		3.25nm	4.9mb	
QUIL	153.53	74	ePKP	22 04.10	-2.9X
YANA	153.65	72	PKPd	21 57.80	-9.5X
VC1	153.98	73	PKP	22 06.00	-1.8
CAYA	154.14	71	iPKP+	22 00.50	-7.5X
ZOBO	164.07	119	PKP	22 20.20	1.0
SIV	169.88	135	PKP	22 23.60	0.9

S.D. = 1.1 on 64 of 76 obs.

% FEB 27, 1991 19h 12m 50.75± 0.98s
38.348 N ± 7.4km 30.199 E ±10.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.8 (ISK).

KHL	0.53	268	iPg	13 01.20	-0.3
			iSg	13 09.60	
ALT	0.71	354	ePg	13 04.00	-0.8
			eSg	13 13.00	
BCK	0.94	161	iPn	13 08.70	0.0
DST	1.75	316	ePn	13 22.00	0.6
YLV	2.31	344	ePn	13 30.00	0.6

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

FEB 27, 1991 19h 31m 53.80± 0.52s
44.403 N ± 4.1km 7.367 E ± 4.2km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.0 (LDG), 1.7 (GEN).

STV	0.16	191	P	31 56.93	-0.6
			S	31 58.83	
ENR	0.18	168	P	31 57.42	-0.5
			S	31 59.71	
PZZ	0.22	298	P	31 57.82	-0.7
			S	32 00.59	
ROB	0.38	106	P	32 01.92	0.4
			S	32 08.18	
BHB	0.45	350	P	32 02.89	0.0
			S	32 09.20	
SBF	0.54	175	Pg	32 05.00	0.2
			Sg	32 11.60	
IMI	0.62	142	P	32 05.30	-1.0
			S	32 13.57	
FIN	0.63	107	P	32 06.23	-0.3
			S	32 15.44	
PCP	0.85	80	P	32 11.15	0.8
FRF	0.99	212	Pg	32 13.20	0.6
			Sg	32 25.80	
LRG	1.19	218	Pg	32 16.80	0.7
			Sg	32 32.50	
LMR	1.24	210	Pg	32 17.20	0.4
			Sg	32 32.80	

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

? FEB 27, 1991 19h 33m 30.12± 1.96s
15.885 S ±52.4km 72.821 W ±29.4km
DEPTH = 121.3 ± 12.5 km

27d 19h

4.1mb (1 obs.)
SOUTHERN PERU (117)
Felt (II) at Arequipa.

ARE	1.40	114	iPd	33 55.50	-1.7
			i(S)	34 13.50	
ZOBO	4.53	95	iP	34 39.20	0.8
	0.4s		56.57nm		
	Z 15s		0.21um		
			LR	36 20.00	
LPB	4.58	99	P	34 45.00	6.1X
	1.1s		126.58nm		
			S	35 20.00	
			LR	36 04.00	
CNCB	4.74	102	iP	34 42.70	1.5
			S	35 24.00	
NNA	5.50	314	iPc	34 51.50	0.5
	0.7s		67.12nm	5.0mb X	
			i	34 59.00	
			eS	35 55.50	
PT10	5.53	313	e(P)	34 51.00	-0.4
			eS	35 57.00	
CCH	6.57	104	P	35 06.40	0.4
SIV	11.30	92	Pd	36 05.00	-4.2X
PPD	21.23	110	(P)	38 09.00	1.1
SOB1	31.83	82	eP	39 43.70	-2.0
			e	39 47.20	
PDCR	32.82	89	(P)	39 53.00	-1.2
YKA	84.71	342	eP	45 52.10	0.9
	0.6s		1.60nm	4.1mb	
	S.D. = 1.5		on 10 of 12 obs.		

? FEB 27, 1991 19h 57m 20.51± 3.19s
12.534 N ±19.4km 87.640 W ±32.9km
DEPTH = 60.9 ± 28.3 km
4.6mb (3 obs.)
NEAR COAST OF NICARAGUA (74)

DVD	6.53	128	eP	58 56.40	0.3
UYO	22.41	345	iPc	02 16.70	1.6
MEO	24.28	338	eP	02 33.20	-0.1
SIV	38.65	136	P	04 38.80	-1.3
SES	42.33	338	eP	05 10.00	0.0
FFC	43.58	348	iPd	05 20.50	0.5
	0.7s		13.00nm	4.8mb	
SCH	45.25	17	eP	05 34.00	0.5
EDM	45.47	339	eP	05 34.50	-0.8
FRB	52.88	11	eP	06 32.00	0.0
YKA	53.48	345	eP	06 34.60	-1.9
	0.8s		4.50nm	4.6mb	
INK	63.07	343	eP	07 42.50	-0.9
MBC	65.91	352	eP	08 01.00	-0.7
	0.6s		3.00nm	4.5mb	
WB2	139.10	254	ePKP	16 44.00	1.0
WRA	139.11	254	PKP	16 48.00	5.0X
	0.6s		1.70nm		
HYB	147.26	25	ePKP	16 59.00	1.9
CHG	148.18	348	ePKP	17 02.00	3.4X
BDT	149.69	347	ePKP	17 04.00	3.1X
GBA	150.11	30	PKP	17 07.10	5.6X
KHT	152.16	347	ePKP	17 13.00	8.4X
KOD	152.97	34	ePKP	17 15.00	8.8X
	S.D. = 1.2		on 14 of 20 obs.		

% FEB 27, 1991 20h 49m 18.83± 0.93s
38.292 N ± 7.4km 30.239 E ±11.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.0 (ISK).

KHL	0.56	273	iPg	49 30.00	-0.3
			iSg	49 39.60	
ALT	0.77	353	iPg	49 33.00	-0.9
BCK	0.87	161	iPn	49 35.70	0.0
DST	1.82	317	iPn	49 50.40	0.0
YLV	2.37	344	ePn	49 59.00	0.6
KCT	2.44	324	ePn	50 00.00	0.7
	S.D. = 0.8		on 6 of 6 obs.		

% FEB 27, 1991 20h 52m 41.96± 0.95s
38.302 N ± 7.5km 30.198 E ±10.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.1 (ISK).

KHL	0.53	273	iPg	52 52.10	-0.6
			iSg	53 01.10	
ALT	0.76	355	ePg	52 56.00	-0.8
BCK	0.89	160	iPn	52 59.20	0.0
DST	1.79	317	ePn	53 13.90	0.8
YLV	2.35	344	ePn	53 21.00	-0.3
KCT	2.41	324	ePn	53 23.00	0.9
	S.D. = 0.9		on 6 of 6 obs.		

? FEB 27, 1991 20h 54m 33.85± 0.98s
44.386 N ± 7.8km 7.338 E ±16.1km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.4 (GEN).

STV	0.14	184	P	54 37.12	-0.2
			S	54 39.26	
ENR	0.17	160	P	54 37.91	0.1
			S	54 39.68	
PZZ	0.21	305	P	54 38.53	0.1
			S	54 40.99	
BHB	0.46	353	P	54 43.14	0.0
	S.D. = 0.2		on 4 of 4 obs.		

FEB 27, 1991 22h 21m 15.83± 2.14s
9.876 N ±16.2km 60.022 W ±17.5km
DEPTH = 33.0km (normal)
4.2mb (1 obs.)
NEAR COAST OF VENEZUELA (97)
MD 3.8 (TRN).

TPP	1.47	287	eP	21 41.10	0.8
			eS	21 54.59	
TRN	1.56	300	eP	21 42.00	0.4
			eS	21 56.72	
SVV	3.62	341	eP	22 11.26	0.4
			eS	22 46.07	
SOA	3.65	342	eP	22 11.70	0.4
			eS	22 47.32	
SLB	4.05	346	eP	22 16.41	-0.7
			eS	22 56.97	
SLW	4.21	348	eP	22 18.66	-0.8
			eS	23 00.27	
SDV	10.52	266	eP	23 46.50	-1.1
YKA	65.41	335	eP	31 56.70	-0.5
	0.6s		1.20nm	4.2mb	
MBC	73.40	348	eP	32 49.50	3.5X
INK	74.80	338	eP	32 55.50	1.3
	S.D. = 0.9		on 9 of 10 obs.		

FEB 27, 1991 22h 32m 32.48± 1.05s
36.372 N ± 7.2km 141.049 E ± 8.1km
DEPTH = 61.3 ± 7.3 km
4.7mb (7 obs.)
NEAR EAST COAST OF HONSHU, JAPAN(228)

KAKJ	0.73	257	iPd	32 45.90	-1.3
			S	32 55.50	
CHJJ	1.69	260	iPd	32 59.60	-0.6
			S	33 19.80	
NIIJ	1.86	298	iPd	33 02.20	-0.3
YAMJ	1.97	336	P	33 02.90	-1.2
MAT	2.30	275	iPc	33 09.00	0.4
			eS	33 37.00	
MTMJ	2.62	276	iPd	33 14.10	0.8
IIDJ	2.70	252	P	33 15.80	1.5
OFUJ	2.75	10	P	33 12.20	-2.8X
			eS	33 42.80	
TSRJ	4.19	260	P	33 36.70	1.4
AOMJ	4.21	353	eP	33 35.10	-0.5
WKYJ	4.95	246	eP	33 45.90	-0.2
TKSJ	6.21	249	P	34 03.60	0.0
YONJ	6.28	261	eP	34 04.80	0.2
MDJ	11.98	317	eP	35 24.50	1.9
CN2	14.05	307	eP	35 55.00	5.2X
	Z 14s		0.60um		
			epP	36 00.00	
BJI	19.87	288	eP	36 59.00	-2.1
TIY	22.85	282	eP	37 32.00	0.8
	Z 16s		0.70um	4.2MszX	
	E 15s		0.50um		
			eS	41 37.00	
WHN	22.98	263	Pc	37 33.50	1.0
			pP	37 48.00	62kmX
XAN	26.29	274	P	38 03.00	-1.0
LZH	29.90	281	eP	38 34.50	-2.2
	2.0s		29.00nm	4.7mb	
	Z 16s		0.49um	4.2MszX	
			pP	38 46.50	46kmX
GYA	30.83	261	P	38 43.20	-1.7
CD2	31.39	271	P	38 48.20	-1.5
GTA	32.48	288	eP	38 57.60	-1.7
	0.6s		10.00nm	4.8mb	
CHG	40.85	256	eP	40 10.20	0.3
WMQ	40.88	297	iPd	40 11.00	1.0
			pP	40 27.50	66kmX
LSA	41.98	276	eP	40 20.50	0.9
NNT	43.97	248	eP	40 37.20	1.8
			e	07 38.00	
GUN	46.93	276	P	40 59.80	0.5
PKI	47.45	276	P	41 03.40	0.0
KKN	47.46	276	P	41 03.60	0.3
RSO	47.60	38	iP	41 04.60	0.6
DMN	47.68	276	P	41 06.00	0.9
GKN	47.89	277	P	41 06.60	0.0
FBA	49.82	32	eP	41 21.80	1.1
	0.9s		7.92nm	4.7mb	
INK	55.11	27	ePc	42 00.40	0.3
WB2	56.37	188	eP	42 08.10	-1.5
WRA	56.37	188	P	42 09.00	-0.6
	0.7s		4.50nm	4.6mb	
MBC	57.24	16	eP	42 15.00	-0.3
HYB	57.89	269	eP	42 20.50	-0.2
MBL	60.63	203	eP	42 39.40	0.1
GBA	60.87	266	P	42 41.30	0.2
POO	61.10	272	eP	42 42.50	-0.2
KOD	62.76	262	eP	42 54.50	0.3
YKA	64.53	30	eP	43 04.00	-0.7
	0.7s		1.70nm	4.1mb	
SOD	65.46	337	eP	43 10.00	-0.7
KAF	68.76	333	eP	43 27.00	-4.5X
NUR	70.39	332	eP	43 39.00	-2.5
HFS	74.57	336	eP	44 05.20	-0.9
	1.4s		32.30nm	5.1mb	
NB2	74.68	337	P	44 06.60	-0.3
	0.7s		4.30nm	4.5mb	
LRM	74.83	44	eP	44 09.30	1.1
FRB	77.48	13	eP	44 22.30	-0.1
KSP	80.51	328	eP	44 39.80	0.7
			e	44 52.00	
CLL	81.52	330	e(P)	44 57.00	12.7X
PRU	81.89	328	P	44 47.30	1.0
KHC	82.95	328	eP	44 53.00	1.1
VAY	84.35	318	eP	45 01.00	1.9
ZOBO	147.27	60	iPKP	52 12.00	2.8X
			LR	05 00.00	
CNCB	147.74	61	ePKP	52 13.00	3.1X
SIV	151.73	50	PKP	52 22.60	7.2X
	S.D. = 1.1		on 52 of 59 obs.		

FEB 27, 1991 22h 35m 46.16± 1.35s
45.089 N ±11.0km 3.079 E ± 9.5km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.1 (LDG). MD 2.1 (STR).

LBL	0.19	40	Pg	35 50.24	0.0
			Sg	35 53.19	
PYM	0.66	356	Pg	35 58.45	-1.0
			Sg	36 07.11	
CAF	0.74	258	Pg	36 00.00	-0.7
			Sg	36 07.60	
PLDF	0.96	23	Pg	36 04.05	-0.4
			Sg	36 17.57	
RJF	1.13	282	Pg	36 07.20	-0.1
			Sg	36 19.60	
MAF	1.19	343	Pg	36 08.20	-0.1
			Sg	36 23.20	
TCF	1.34	333	Pg	36 11.50	0.6
			Sg	36 28.50	
LPO	1.40	254	Pg	36 11.00	-0.8
			Sg	36 28.80	
SMF	1.64	19	Pg	36 16.20	1.0
			Sg	36 37.80	
LFF	1.67	266	Pg	36 17.00	1.5
			Sg	36 36.80	
	S.D. = 0.9		on 10 of 10 obs.		

% FEB 27, 1991 23h 21m 26.79± 0.54s
40.110 N ± 4.2km 29.331 E ± 5.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.8 (ISK).

IZI	0.25	26	iPg	21 32.10	-0.1
YLV	0.46	4	iPg	21 35.90	-0.2

DST	0.74	227	iPg	21 40.50	-0.8
			iSg	21 50.50	
HRT	0.76	20	ePg	21 41.10	-0.5
KCT	0.76	281	iPg	21 41.10	-0.5
			iSg	21 52.70	
BNT	1.11	283	iPn	21 47.70	0.1
EDC	1.15	282	iPn	21 49.00	0.7
ALT	1.21	150	iPn	21 50.00	0.5
KHL	1.79	175	ePn	21 58.00	0.0
DMK	2.08	326	ePn	22 03.00	0.8

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

FEB 28, 1991 02h 41m 35.81± 0.63s
44.314 N ± 4.2km 6.683 E ±10.1km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.7 (LDG).

SBF	0.70	129	Pg	41 49.80	0.0
			Sg	42 00.80	
FRF	0.75	182	Pg	41 50.60	0.0
			Sg	42 02.40	
LRG	0.89	195	Pg	41 52.80	-0.1
			Sg	42 06.20	
LMR	0.99	187	Pg	41 54.60	0.1
			Sg	42 09.80	
LPG	1.18	2	Pg	41 58.10	0.0
			Sg	42 13.40	
LPL	1.20	2	Pg	41 58.40	0.0
PGF	2.44	135	Pn	42 16.40	0.0
			Sn	42 44.20	

S.D. = 0.1 on 7 of 7 obs.

% FEB 28, 1991 03h 41m 08.94± 0.93s
36.951 N ±11.5km 29.448 E ± 6.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.0 (ISK).

ELL	0.42	119	iPg	41 17.30	-0.3
			iSg	41 23.80	
YER	0.95	281	ePn	41 27.60	0.5
BCK	1.04	60	ePn	41 29.20	0.5
CIN	1.26	301	eP	41 32.00	-0.4
KHL	1.37	2	ePn	41 33.80	-0.4

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

FEB 28, 1991 04h 53m 14.14± 0.70s
38.575 N ± 6.0km 21.824 E ± 8.4km
DEPTH = 8.7 ± 4.6 km
GREECE (364)
ML 3.2 (ATH).

EVR	0.34	358	eP	53 21.00	-0.2
AGG	0.60	41	eP	53 26.50	0.4
VLS	1.05	248	eP	53 32.00	-2.1
NEO	1.31	56	eP	53 36.80	-1.8
ITM	1.40	177	eP	53 41.00	1.2
ATH	1.61	111	ePg	53 46.50	3.7X
LIT	1.61	19	eP	53 42.70	-0.1
			eS	54 04.10	
KZN	1.73	359	eP	53 45.00	0.4
KEK	1.94	306	ePg	53 51.20	3.5X
VLI	2.05	154	eP	53 50.00	0.7
PLG	2.19	34	eP	53 50.00	-1.3
FNA	2.23	351	eP	53 52.50	0.6
			eS	54 19.20	
SOH	2.53	27	eP	53 56.00	-0.2
			eS	54 27.10	
OHR	2.65	343	ePn	53 58.00	0.1
KNT	2.71	17	eP	53 58.40	-0.3
VAY	2.80	12	ePn	54 02.00	2.0
SRS	2.88	28	eP	54 00.10	-1.0
SKO	3.41	355	iPn	54 10.00	1.5

S.D. = 1.3 on 16 of 18 obs.

FEB 28, 1991 05h 20m 09.67± 0.21s
19.110 S ± 5.6km 175.195 W ± 4.2km
DEPTH = 248.1km (2 depth phases)
5.4mb (35 obs.)
TONGA ISLANDS (173)

SVA	6.10	278	ePd	21 42.60	3.0
			eS	22 46.60	
VUN	6.11	279	iPd	21 42.20	2.4
AFI	6.12	33	P	21 34.00	-6.0X
			eS	22 42.00	
PVC	15.71	272	iPc	23 40.00	0.1
DZM	17.44	257	iPc	23 59.00	0.0
HBZ	19.28	196	eP	24 20.30	2.7X
PUZ	19.74	195	eP	24 23.00	0.7
WDW	23.62	199	eP	25 02.10	2.2
MRW	23.68	199	eP	25 00.50	0.1
WEL	23.71	199	eP	25 05.00	4.3X
			S	29 13.00	
TCW	23.80	200	eP	25 01.80	0.3
AFR	24.17	90	iP	25 04.80	-0.4
	1.0s		180.00nm	5.6mb	
TBI	24.34	105	iP	25 08.00	1.3
	1.2s		325.00nm	5.7mb	
PPN	24.50	90	iP	25 07.80	-0.4
	1.0s		150.00nm	5.5mb	
TVO	24.64	91	iP	25 09.30	-0.3
	1.0s		210.00nm	5.6mb	
LTZ	25.87	201	eP	25 18.90	-1.7
PMO	26.40	85	iP	25 14.90	-10.6X
	1.0s		80.00nm		
VAH	26.60	86	iP	25 16.50	-10.8X
	1.0s		70.00nm		
RUV	26.85	86	iP	25 18.60	-10.9X
	1.0s		115.00nm		
BRS	30.49	248	iPd	26 02.00	0.1
			i	26 08.70	23kmX
COO	31.86	243	iPd	26 13.80	0.0
	0.4s		21.00nm	5.1mb	
RMO	33.95	251	iPc	26 30.70	-1.0
	0.4s		36.00nm	5.4mb	
CTA	36.28	262	iPd	26 50.80	-0.5
	0.8s		322.39nm	5.9mb	
RKT	37.65	103	iP	27 03.60	0.8
	1.0s		180.00nm	5.6mb	
PMG	37.67	279	eP	27 02.00	-1.0
OLP	38.00	251	iPc	27 05.00	-0.6
TOO	38.84	233	eP	27 12.70	0.2
OIS	42.44	260	iPc	27 40.80	-1.3
	0.2s		13.00nm	5.0mb	
WRA	47.42	260	P	28 19.00	-2.5
	0.5s		210.20nm	5.7mb	
GUA	50.96	307	eP	28 47.80	-0.6
	0.7s		224.66nm	5.7mb	
PJG	51.02	307	eP	28 48.30	-0.6
MTN	51.82	268	eP	28 53.30	-1.6
	0.3s		120.00nm	5.8mb	
FORR	52.23	245	iPc	28 56.00	-1.7
KNA	53.38	264	iPc	29 05.10	-1.3
	0.5s		76.00nm	5.4mb	
WARB	53.77	251	iPc	29 07.80	-1.3
	0.5s		31.00nm	5.1mb	
MBL	60.65	256	iPc	29 55.40	-1.8
MUN	62.31	243	iPd	30 07.40	-0.7
NANU	64.31	254	eP	30 20.20	-1.0
	0.3s		21.00nm	5.3mb	
KAKJ	69.34	323	P	30 51.70	-0.6
CHJJ	69.91	322	P	30 55.20	-0.6
IIDJ	70.16	321	eP	30 56.80	-0.6
OFUJ	70.56	326	eP	31 00.60	0.9
ADK	70.70	359	P	30 58.30	-1.8
	0.7s		76.74nm	5.5mb	
NIIJ	70.73	323	eP	31 00.00	-0.7
WKYJ	70.75	318	eP	31 00.80	-0.2
MTMJ	70.98	321	P	31 01.70	-0.6
SPA	71.01	180	iPd	31 03.90	1.7
	0.8s		20.83nm	4.9mb	
			i	32 02.20	250km
TSRJ	71.37	320	eP	31 04.40	-0.1
TKSJ	71.58	317	eP	31 03.90	-1.9
KUSJ	72.04	330	eP	31 07.50	-0.8
HOOJ	72.18	329	eP	31 09.80	0.7
YONJ	72.71	318	eP	31 11.50	-0.9
MRRJ	73.31	328	eP	31 15.60	-0.1
ASAJ	73.80	330	eP	31 19.30	0.8
OZH	77.89	302	Pc	31 42.40	0.6
	0.7s		70.00nm	5.5mb	
TNP	78.71	43	P	31 46.50	0.2
	0.7s		5.56nm	4.4mb	
SSE	78.86	308	Pc	31 47.50	0.6
	1.0s		21.00nm	4.8mb	
MDJ	80.94	324	Pc	31 58.50	0.9
	1.0s		90.00nm	5.5mb	
NJ2	81.06	308	Pd	32 00.00	1.5
	0.9s		60.00nm	5.3mb	
RSO	81.35	11	P	31 58.10	-1.6
SVW	81.48	9	eP	31 58.60	-1.5
SLKM	81.87	12	P	32 01.50	-0.7
CN2	82.85	321	iPc	32 08.00	0.5
	1.0s		40.00nm	5.1mb	
			epP	33 05.00	237kmX
			eS	42 08.00	
SNY	82.88	319	Pc	32 08.20	0.6
PMR	83.08	12	ePc	32 08.00	-0.2
ANM	83.75	4	ePc	32 12.30	0.8
WHN	83.78	305	P	32 13.50	1.1
	1.5s		100.00nm	5.4mb	
PNT	84.05	33	eP	32 14.00	0.6
	0.7s		12.00nm	4.8mb	
BALM	84.12	15	P	32 12.80	-0.9
TOA	84.16	13	ePc	32 14.30	0.5
	0.8s		54.30nm	5.4mb	
PV09	84.30	46	P	32 16.00	0.7
TIA	84.32	311	eP	32 15.50	0.5
ALQ	84.48	50	eP	32 17.00	0.9
	0.9s		17.65nm	4.9mb	
ANMO	84.48	50	P	32 11.70	-4.4X
BW06	86.16	42	P	32 23.00	-1.3
FBA	86.34	11	iPc	32 24.40	0.0
	1.0s		57.50nm	5.4mb	
			e	33 24.00	247km
BJI	86.79	314	eP	32 28.00	1.0
	1.5s		110.00nm	5.5mb	
GOL	87.44	46	P	32 30.80	0.2
	0.8s		3.27nm	4.2mb	X
GLD	87.57	46	P	32 30.60	-0.5
GYA	88.28	299	P	32 36.60	1.9
TIY	88.34	311	Pc	32 35.60	0.9
SES	89.21	35	eP	32 40.00	1.6
XAN	89.42	306	P	32 41.00	1.3
NNT	89.49	283	eP	32 43.00	2.7X
NST	90.16	286	eP	32 46.80	3.5X
HHC	90.30	313	Pc	32 45.00	1.3
RSSD	90.33	43	P	32 42.70	-1.2
	0.8s		6.41nm	4.6mb	
KHT	91.27	285	eP	32 50.50	2.0
BDT	91.70	288	eP	32 49.80	-0.6
	1.0s		117.30nm	5.8mb	
INK	92.26	14	ePc	32 51.40	-0.6
CHTO	92.27	289	iP	32 54.20	1.1
	1.0s		45.00nm	5.5mb	
CD2	92.28	302	P	32 54.40	1.4
LZH	94.04	307	eP	33 02.00	0.9
	1.2s		31.00nm	5.3mb	
YKA	94.16	24	eP	33 00.20	-0.6
	0.8s		1.40nm	4.2mb	X
GTA	98.15	309	P	33 20.20	0.6
GUN	106.34	294	PKP	38 00.00	-7.1X
PDCR	126.50	123	(PKP)	38 45.00	-0.5
SOB1	126.89	118	ePKP	38 46.00	-0.3
HFS	138.53	353	ePKP	38 56.30	-10.7X
	0.4s		0.90nm		
VAL	145.17	16	ePKP	39 19.50	0.7
KRA	146.84	342	iPKPc	39 23.80	2.2X
			e	39 34.80	
KSP	147.05	347	iPKPc	39 25.10	3.2X
	1.1s		65.00nm		
			i	39 40.70	
			e	40 26.50	
WTS	147.14	358	ePKP	39 24.50	2.5X
	0.8s		21.00nm		
CLL	147.22	350	iPKP	39 25.20	3.0X
	1.4s		61.00nm		
			pPKP	40 27.00	
VRI	147.75	331	ePKPd	39 27.50	4.3X
MOX	148.07	352	ePKP	39 27.50	3.9X
PRU	148.22	348	iPKPc	39 28.00	4.2X
	1.2s		23.10nm		
			e	39 31.30	
			e	40 32.50	
BBTK	148.29	317	ePKP	39 23.00	-1.4
HOF	148.36	351	iPKPd	39 28.70	4.6X
MLR	148.39	331	ePKP	39 15.00	-9.4X
ENN	148.40	359	ePKP	39 28.00	3.9X
	0.7s		10.00nm		
GRF	149.06	352	iPKPc	39 30.50	5.3X
			e	39 34.70	
DOU	149.08	0	PKP	39 30.70	5.5X
ABH	149.22	357	ePKP	39 30.45	5.0X
KHC	149.23	349	ePKP	39 26.40	0.9
			i	39 30.60	

28d 05h

		e	39	36.10		
ZST	149.32	344 ePKP	39	30.20	4.6X	
SRO	149.33	342 iPKP	39	30.70	5.1X	
BUD	149.41	341 e(PKP)	39	31.00	5.3X	
YLV	149.99	321 ePKP	39	30.00	3.0X	
FLN	150.11	7 ePKP	39	32.40	5.7X	
	0.7s	14.35nm				
LDF	150.32	7 ePKP	39	32.80	5.7X	
	1.2s	26.80nm				
GRR	150.43	8 ePKP	39	33.40	6.2X	
	0.8s	16.10nm				
CDF	150.70	357 ePKP	39	34.10	6.3X	
	1.0s	22.00nm				
LPF	150.76	8 ePKP	39	34.20	6.5X	
	0.9s	31.10nm				
KCT	150.79	321 ePKP	39	33.00	4.9X	
HAU	151.15	358 ePKP	39	34.90	6.5X	
	0.7s	13.25nm				
KHL	151.23	317 iPKP	39	34.80	5.9X	
BEO	151.23	336 e(PKP)	39	35.00	6.5X	
KBA	151.24	348 iPKPc	39	35.00	6.2X	
	0.7s	12.40nm				
		i	39	39.20		
		i	39	44.60		
BSF	151.31	357 ePKP	39	35.30	6.6X	
	0.6s	7.20nm				
WTTA	151.37	350 iPKPc	39	35.50	6.5X	
	0.6s	33.10nm				
		i	39	44.70		
SOTA	151.48	351 iPKPc	39	35.40	6.4X	
	0.7s	13.60nm				
		i	39	44.60		
		i	39	56.80		
PTJ	151.74	343 ePKP	39	35.60	6.2X	
FVI	151.82	348 PKP	39	35.00	5.7X	
OGA	151.85	351 ePKPc	39	37.00	7.3X	
LOR	151.90	1 ePKP	39	36.90	7.4X	
	1.2s	26.80nm				
SSF	152.10	2 ePKP	39	37.50	7.7X	
	0.9s	13.90nm				
LBF	152.19	1 ePKP	39	37.50	7.5X	
	0.8s	8.05nm				
MFF	152.28	7 ePKP	39	37.90	7.9X	
AVF	152.37	2 ePKP	39	37.70	7.6X	
	0.8s	13.45nm				
TRI	152.46	346 iPKPc	39	37.10	6.8X	
		i	39	47.30		
SMF	152.53	1 ePKP	39	38.30	7.9X	
	1.1s	30.50nm				
CTI	152.55	350 PKP	39	29.50	-1.1	
BGF	152.58	3 ePKP	39	38.10	7.6X	
	1.0s	20.00nm				
TCF	152.81	4 ePKP	39	38.80	8.0X	
	0.8s	4.70nm				
MAF	152.90	3 ePKP	39	39.10	8.2X	
	1.1s	14.65nm				
VAY	153.16	329 ePKP	39	39.30	7.9X	
ORO	153.43	355 PKP	39	39.50	7.7X	
LPL	153.62	357 ePKP	39	44.20	11.9X	
	1.0s	7.00nm				
LPG	153.64	357 ePKP	39	44.40	12.0X	
	1.0s	7.00nm				
BNI	154.08	357 PKP	39	41.00	8.2X	
BOB	154.12	352 PKP	39	42.00	9.2X	
OHR	154.16	331 ePKP	39	43.00	10.1X	
MME	154.51	350 PKP	39	36.00	2.5X	
SFI	154.56	348 PKP	39	42.50	9.3X	
ARV	154.74	346 PKP	39	38.00	4.5X	
ASS	155.21	346 PKP	39	44.00	9.8X	
LIC	164.01	142 PKP	39	45.12	0.4	
KIC	164.29	143 PKP	39	45.30	0.3	
TIC	164.35	141 PKP	39	45.44	0.4	

S.D. = 1.1 on 97 of 162 obs.

? FEB 28, 1991 05h 45m 52.01± 1.16s
4.369 S ±11.7km 126.673 E ±11.7km
DEPTH = 73.5 ± 18.1 km
4.9mb (2 obs.)
BANDA SEA (280)

AAI	1.66	66 iPd	46	19.50	-0.2	
		iS	46	32.20		
MKS	7.23	263 eP	47	37.00	-0.2	
		eS	48	53.50		
MTN	9.50	153 eP	48	00.50	-8.0X	
	0.3s	239.00nm			6.7mb X	
		eS	49	34.00		
KNA	11.50	170 eP	48	36.00	0.7	
		eS	50	40.00		
QIS	20.43	143 iPd	50	10.00	-15.8X	
		i	53	35.00		
WARB	21.69	180 iPd	50	42.00	3.5X	
	0.5s	27.00nm			4.9mb	
FORR	26.38	177 iPd	51	22.50	-0.7	
LZH	45.57	334 eP	54	07.00	0.4	
	1.0s	20.00nm			5.0mb	
		pP	54	11.80	16kmX	
		sP	54	16.00		
GBA	52.02	291 P	55	10.00	13.4X	
		e	55	36.00		

S.D. = 1.1 on 5 of 9 obs.

FEB 28, 1991 05h 50m 23.08± 0.56s
37.762 N ± 8.6km 72.619 E ±10.1km
DEPTH = 33.0km (normol)
4.5mb (6 obs.)
TAJIK SSR (715)

QUE	8.90	214 eP	52	33.40	0.9	
		eS	54	00.50		
NDI	9.84	156 e(P)	52	44.00	-1.3	
GKN	14.01	130 P	53	41.80	0.2	
KKN	14.56	129 P	53	48.00	-0.8	
	0.6s	28.00nm			4.9mb	
DMN	14.58	130 P	53	50.10	1.0	
	0.4s	23.00nm			5.0mb	
PKI	14.79	130 P	53	52.20	0.2	
	0.4s	12.00nm			4.6mb	
GUN	14.84	128 P	53	52.60	0.0	
POO	19.19	176 eP	54	35.50	-11.4X	
KOD	27.75	170 eP	56	06.40	-4.7X	
HFS	42.89	321 eP	58	19.10	-0.6	
	0.4s	3.50nm			4.4mb	
NB2	44.17	322 P	58	29.30	-0.8	
	0.6s	1.30nm			3.9mb	
MBC	66.01	3 eP	01	09.50	1.6	
INK	72.45	10 eP	01	48.00	0.4	
YKA	79.92	3 eP	02	28.80	-0.8	
	0.4s	0.40nm			3.8mb	

S.D. = 1.0 on 12 of 14 obs.

? FEB 28, 1991 06h 35m 11.38± 4.67s
40.970 N ±10.2km 22.274 E ±33.6km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 1.7 (SKO).

GRG	0.10	98 iPd	35	14.50	0.4	
VAY	0.42	32 iPg	35	19.80	-0.1	
		iSg	35	25.30		
KNT	0.51	68 iPc	35	21.48	-0.2	
		eS	35	27.80		
THE	0.62	122 ePc	35	23.48	-0.4	
SRS	1.01	81 eP	35	30.80	0.3	

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

• FEB 28, 1991 06h 49m 02.87± 0.91s
45.847 N ± 8.9km 26.768 E ±12.8km
DEPTH = 105.6 ± 15.1 km
3.9mb (2 obs.)
ROMANIA (358)

VRI	0.04	307 iPc	49	18.00	1.0	
MLR	0.68	239 iPd	49	17.70	-3.3X	
ISR	0.73	193 iPc	49	18.50	-2.9X	
PTT	1.12	346 eP	49	35.00	9.7X	
CFR	1.18	124 iPc	49	24.00	-1.9	
CMP	1.35	245 iPc	49	32.00	4.0X	
PSN	2.39	155 iPc	49	46.00	4.7X	
PVL	2.82	202 iPc	49	48.00	0.9	
GZR	2.84	262 eP	49	47.00	-0.4	
JMB	3.38	182 eP	50	05.00	10.3X	
BZS	3.62	268 ePc	50	03.00	5.2X	
PGB	3.79	210 eP	50	00.00	-0.3	
DIM	3.90	194 eP	50	28.00	26.3X	
VTS	4.14	219 eP	50	05.00	-0.2	
KDZ	4.31	194 iP	50	20.00	12.6X	
RZN	4.42	200 eP	50	08.00	-1.0	
MMB	4.79	208 eP	50	38.00	24.0X	
HRT	5.45	156 ePn	50	24.90	1.8	
VAY	5.46	215 ePn	50	47.00	23.9X	
HFS	16.28	336 eP	52	47.60	1.3	
	0.4s	2.40nm			3.8mb	
NB2	17.74	335 P	53	03.00	-1.2	
	0.7s	6.00nm			3.9mb	

S.D. = 1.5 on 10 of 21 obs.

FEB 28, 1991 07h 49m 33.96± 0.80s
37.980 N ± 8.6km 24.864 E ± 7.3km
DEPTH = 10.0km (geophysicist)
SOUTHERN GREECE (368)
ML 3.3 (ATH).

ATH	0.91	270 iPgd	49	51.50	0.2	
APE	1.05	150 iPbc	49	53.50	-0.3	
IZM	1.94	77 iPn	50	00.50	-6.8X	
VLI	1.99	231 ePg	50	14.00	6.0X	
EZN	2.17	31 ePn	49	59.00	-11.6X	
AGG	2.24	298 eP	50	12.30	0.6	
ITM	2.47	252 ePb	50	20.00	5.1X	
NPS	2.78	167 ePb	50	25.00	5.7X	
LIT	2.81	320 eP	50	07.20	-12.6X	
SOH	3.07	338 eP	50	15.80	-7.6X	
KGT	3.11	37 eP	50	14.40	-9.6X	
RDO	3.20	9 ePn	50	29.00	3.7X	
SRS	3.28	343 eP	50	25.20	-1.3	
BNT	3.36	44 eP	50	28.40	0.9	
KNT	3.52	335 eP	50	24.60	-5.2X	
KCT	3.54	49 eP	50	30.00	-0.1	
FNA	3.89	317 eP	50	39.80	4.7X	
YLV	4.35	52 eP	50	47.00	5.3X	
DMK	4.44	29 eP	50	31.00	-11.8X	

S.D. = 1.0 on 6 of 19 obs.

FEB 28, 1991 07h 54m 42.09± 0.59s
40.807 N ± 4.3km 23.062 E ± 5.7km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 2.1 (SKO).

THE	0.19	203 ePc	54	46.40	0.1	
		iS	54	49.80		
KNT	0.38	341 ePd	54	49.84	0.0	
		eS	54	55.04		
SRS	0.51	52 ePc	54	52.28	-0.1	
GRG	0.52	287 ePc	54	52.52	-0.2	
		eS	54	59.80		
VAY	0.63	324 iPg	54	55.00	0.2	
		iSg	55	03.80		
LIT	0.83	212 ePc	54	58.04	-0.1	
		eS	55	09.90		
PAIG	1.00	152 eP	55	01.00	0.0	
		eS	55	14.68		

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

FEB 28, 1991 08h 44m 24.10± 0.67s
45.773 N ± 7.3km 13.987 E ± 6.2km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
MD 2.3 (TRI). ML 2.2 (KBA).

TRI	0.17	248 iPgc	44	28.30	0.4	
		iSg	44	31.70		
RIY	0.51	147 e(Pg)	44	34.30	-0.2	
		iSg	44	42.90		
FVI	1.17	315 P	44	46.00	0.0	
		eSg	45	02.00		
KBA	1.38	341 ePg	44	49.50	0.0	
		i	44	50.70		
		iSg	45	07.20		
PTJ	1.38	84 ePg	44	49.70	0.2	
		iSg	45	06.50		
CTI	1.65	280 P	44	53.00	-0.4	
		eSg	45	16.00		

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

% FEB 28, 1991 09h 20m 45.14± 0.98s
39.180 N ± 7.9km 27.601 E ±13.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.5 (ISK).

IZM	0.82	199 ePg	21	01.00	-0.1	
		eSg	21	13.00		
DST	0.90	62 ePn	21	03.10	0.6	
BNT	1.20	12 ePn	21	07.00	-0.5	
KCT	1.22	28 ePn	21	07.00	-0.8	
KGT	1.29	350 ePn	21	09.80	0.8	

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

? FEB 28, 1991 10h 21m 49.44± 3.60s

40.875 N ±26.4km 29.618 E ±10.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

HRT	0.07	144	iPg	21	51.80	0.0
GBZT	0.16	237	ePg	21	53.00	-0.1
			iSg	21	55.20	
YLV	0.36	211	iPg	21	57.00	0.1
			iSg	22	01.80	
IZI	0.55	192	ePg	22	00.50	-0.1

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

? FEB 28, 1991 10h 23m 06.12± 3.11s
15.890 N ±14.0km 60.949 W ±27.6km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)
ML 2.2 (FDF).

DEG	0.43	346	eP	23	15.96	0.2
			S	23	24.70	
BBL	0.63	234	eP	23	18.45	-0.1
			S	23	28.00	
DOG	0.66	282	eP	23	19.20	0.2
			S	23	28.90	
PAG	0.72	281	eP	23	20.00	0.2
			S	23	30.20	
SEG	0.74	314	eP	23	19.62	-0.4
			S	23	29.40	

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

& FEB 28, 1991 10h 34m 27.39s
56.753 N 155.901 W
DEPTH = 51.8km
2.7mb (1 obs.)
ALASKA PENINSULA (12)
<AEIC>.

CDD	2.49	28	eP	35	04.95	-1.4
			eS	35	34.95	
MCNL	2.58	18	iP	35	06.02	-1.5
			eS	35	35.52	
SYI	2.65	44	iP	35	06.98	-1.5
AUI	2.90	26	eP	35	10.77	-1.4
AUH	2.93	25	eP	35	11.54	-1.0
AUE	2.94	26	eP	35	11.37	-1.3
			eS	35	46.71	
SDN	2.94	243	eP	35	11.50	-1.2
PDB	3.17	16	iP	35	14.14	-1.9
			eS	35	49.80	
XLV	3.50	38	eP	35	19.06	-1.6
HOM	3.68	36	eP	35	21.38	-1.8
CNPM	3.72	40	eP	35	21.42	-2.3
RS2	4.07	23	eP	35	27.23	-1.6
RSO	4.07	23	eP	35	27.09	-1.7
NNL	4.09	34	iP	35	27.29	-1.7
REF	4.10	23	eP	35	27.35	-1.9
RDN	4.11	22	eP	35	27.62	-1.7
NCT	4.12	21	eP	35	27.48	-2.0
RDT	4.24	24	eP	35	29.03	-2.1
SEW	4.77	43	iP	35	34.59	-3.9
SLKM	4.79	36	eP	35	35.29	-3.6
CKL	4.82	21	eP	35	37.32	-2.1
BGL	4.87	20	eP	35	38.26	-1.8
CRP	4.92	22	eP	35	38.67	-2.2
NCG	5.05	21	eP	35	40.81	-1.7
MTU	5.42	50	eP	35	42.90	-4.7
SUA	5.42	27	eP	35	44.79	-3.0
PMS	5.57	33	eP	35	46.26	-3.5
KNIM	5.59	46	eP	35	45.70	-4.3
SKT	5.70	21	eP	35	48.42	-3.2
PWA	5.80	30	eP	35	49.39	-3.6
PLRM	5.97	33	eP	35	51.11	-4.2
PMR	5.97	33	eP	35	51.00	-4.3
KNK	6.04	36	eP	35	51.87	-4.5
GLI	6.17	44	eP	35	53.11	-5.0
GHO	6.17	32	eP	35	53.96	-4.3
TTA	6.20	360	eP	35	55.50	-3.1
CUT	6.35	24	eP	35	56.51	-4.1
VZW	6.48	44	eP	35	57.80	-4.8
CVA	6.52	50	eP	35	58.40	-4.6
SGAM	6.73	52	eP	36	01.62	-4.3
RAGM	6.91	54	eP	36	03.92	-4.6
HMT	7.07	55	eP	36	06.49	-4.3
WAX	7.75	56	eP	36	15.62	-4.7
WRG	7.99	60	eP	36	20.24	-3.3
FBA	9.07	22	eP	36	32.00	-6.4
INK	15.39	32	P	37	59.00	-3.3
YKA	21.35	57	eP	39	09.80	-2.0
	0.3s		0.10nm			2.7mb

47 obs. associated

FEB 28, 1991 11h 25m 28.33± 0.42s
40.422 N ± 3.6km 23.308 E ± 3.6km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 3.3 (THE).

THE	0.34	309	ePd	25	34.88	-0.4
			eS	25	40.00	
SOH	0.40	5	eP	25	37.00	0.4
PAIG	0.57	150	ePc	25	39.56	-0.3
			eS	25	47.40	
LIT	0.70	243	ePc	25	41.44	-0.8
			eS	25	50.80	
SRS	0.73	17	ePd	25	42.28	-0.4
KNT	0.80	337	ePd	25	43.72	-0.2
GRG	0.87	308	iPd	25	44.80	-0.3
			eS	25	57.30	
VAY	1.06	328	ePn	25	48.40	0.1
			iSg	26	02.00	
			Lg	26	05.70	
MMB	1.21	15	iPgc	25	50.00	-0.9
KKB	1.45	353	iPc	25	55.00	0.4
FNA	1.51	284	eP	25	55.60	0.0
AGG	1.59	209	eP	25	56.60	0.0
RZN	1.65	40	iPc	25	58.00	0.3
PLD	1.98	32	iPc	26	07.00	4.7X
KDZ	2.01	52	iPd	26	03.00	0.3
OHR	2.03	291	ePn	26	04.70	1.7
SKO	2.09	318	ePn	26	04.00	0.1
			iSn	26	28.80	
ALN	2.14	76	ePd	26	05.36	0.9
VTS	2.17	358	iP	26	05.00	-0.1
PGB	2.22	17	eP	26	06.00	0.2
DIM	2.34	45	eP	26	13.00	5.6X
PVL	3.18	28	iPc	26	18.00	-1.2
DMK	3.64	66	ePn	26	36.40	10.5X
MLR	5.42	20	ePd	26	56.00	4.7X

S.D. = 0.7 on 20 of 24 obs.

% FEB 28, 1991 11h 27m 57.63± 0.73s
40.423 N ± 5.7km 23.076 E ± 7.5km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 1.7 (THE).

THE	0.23	338	eP	28	02.30	-0.2
			eS	28	05.30	
LIT	0.55	235	ePc	28	09.00	0.1
PAIG	0.68	137	ePd	28	10.84	-0.2
			eS	28	21.88	
GRG	0.74	316	ePc	28	12.20	0.0
			eS	28	23.10	
KNT	0.75	350	eP	28	12.00	-0.3
			eS	28	23.20	
SRS	0.80	29	ePc	28	13.60	0.5
			eS	28	24.10	

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

% FEB 28, 1991 12h 06m 34.40± 1.14s
40.634 N ± 5.7km 23.631 E ±10.1km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 1.6 (THE).

SRS	0.48	357	eP	06	44.10	-0.1
			eS	06	51.80	
THE	0.51	270	eP	06	44.40	-0.3
			eS	06	51.00	
PAIG	0.71	177	ePd	06	48.36	0.0
			eS	06	57.50	
KNT	0.77	314	eP	06	49.50	0.1
			eS	07	00.80	
GRG	0.99	289	eP	06	53.40	0.2
			eS	07	07.90	

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

• FEB 28, 1991 12h 17m 30.05± 1.38s
43.364 N ±11.5km 5.422 E ± 9.6km
DEPTH = 32.6 ± 5.4 km
NEAR SOUTH COAST OF FRANCE (379)
MD 2.5 (STR).

GELF	0.02	12	Pg	17	35.05	-0.5
BERF	0.20	104	Pg	17	37.91	1.1
TREF	0.26	354	Pg	17	36.62	-0.7
PUYF	0.26	50	Pg	17	37.08	-0.3
PRAF	0.48	337	Pg	17	40.92	0.5
TAVF	0.53	61	Pg	17	41.71	0.6
VILF	0.53	23	Pg	17	41.52	0.3
TOUF	1.48	63	Pn	17	54.33	-0.4
			Sg	18	15.31	
AURF	1.48	69	Pn	17	54.48	-0.3
SBF	1.55	70	Pn	17	55.59	-0.1
AUTN	1.59	66	Pn	17	56.95	0.5
			Sg	18	19.05	
PGF	2.75	106	Pn	18	12.19	-0.7

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

% FEB 28, 1991 12h 20m 16.26± 0.84s
39.277 N ± 6.6km 29.194 E ± 9.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.9 (ISK).

DST	0.55	307	eP	20	27.00	-0.3
			eSg	20	34.70	
KHL	0.99	165	ePg	20	35.00	0.0
			eSg	20	48.50	
IZI	1.08	11	ePn	20	36.20	-0.4
KCT	1.17	327	ePn	20	38.00	0.0
YLV	1.30	6	ePn	20	40.70	0.4
KGT	1.87	309	ePn	20	49.00	0.5

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

% FEB 28, 1991 12h 54m 38.27± 0.90s
39.197 N ± 7.0km 27.547 E ±12.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

IZM	0.83	196	ePg	54	54.30	0.0
			eSg	55	06.60	
DST	0.93	64	iPn	54	56.20	0.1
BNT	1.19	14	ePn	55	00.20	-0.3
KCT	1.22	30	ePn	55	01.00	0.0
KGT	1.27	352	ePn	55	02.00	0.2

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

• FEB 28, 1991 13h 00m 44.98± 0.48s
28.075 N ± 7.4km 142.020 E ±16.1km
DEPTH = 33.0km (normal)
4.6mb (8 obs.)
BONIN ISLANDS REGION (212)

KAKJ	8.26	350	eP	02	44.50	-0.8
			S	04	13.20	
CHJJ	8.35	343	eP	02	46.90	0.2
			eS	04	16.90	
WB2	48.31	190	eP	09	24.60	-0.6
			eS	20	31.60	
			iScP	26	23.40	
WRA	48.31	190	P	09	25.00	-0.2
	0.6s		23.90nm			5.4mb
ASPA	52.03	189	eP	09	53.30	-0.4
	1.4s		5.90nm			4.4mb
GBA	61.43	271	Pd	11	02.50	1.7
	0.2s		0.70nm			4.4mb
INK	62.20	25	eP	11	05.00	-0.2
MBC	64.99	15	eP	11	24.00	0.6
YKA	71.35	28	eP	12	02.20	-1.0
	0.7s		1.30nm			4.1mb
KEV	72.01	341	eP	12	04.00	-3.0X
SOD	73.44	339	eP	12	15.00	-0.4
KAF	76.53	334	iP	12	33.70	0.5
	0.5s		2.50nm			4.5mb
NUR	78.12	333	eP	12	40.00	-2.0
LRM	80.26	43	eP	12	55.40	1.2
FFC	80.99	32	iPd	12	58.40	0.9
	0.7s		8.00nm			4.8mb
HFS	82.47	337	eP	13	05.20	0.0
	0.7s		5.50nm			4.7mb
NB2	82.65	338	P	13	06.50	0.3
	0.7s		3.80nm			4.6mb
FRB	85.36	13	eP	13	20.00	0.3
ZOBO	149.80	74	iPKP	20	36.00	6.5X
	0.9s		6.49nm			
LPB	149.94	74	PKP	20	36.00	6.4X
CNCB	150.17	74	PKP	20	33.00	2.9X

S.D. = 0.9 on 17 of 21 obs.

28d 13h

FEB 28, 1991 13h 30m 13.59± 0.11s
20.118 S ± 3.8km 175.830 W ± 2.9km
DEPTH = 219.7km (18 depth phases)
5.6mb (57 obs.)
TONGA ISLANDS (173)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 19S, 40C
Centroid Location:
Origin Time 13:30:21.8 0.3
Lat 19.84S 0.03 Lon 175.75W 0.02
Dep 224.6 1.2 Half-duration 2.7
Moment Tensor; Scale 10**17 Nm
Mrr= 1.54 0.08 Mtt=-0.08 0.15
Mff=-1.45 0.14 Mrt= 1.07 0.10
Mrf=-4.24 0.10 Mtf=-1.23 0.11
Principal Axes:
T Val= 5.03 Plg=51 Azm= 62
N -0.54 17 174
P -4.49 34 276
Best Double Couple:Mo=4.8*10**17
NP1:Strike= 56 Dip=19 Slip= 153
NP2: 172 81 73

SVA	5.76	289	ePd	31	42.40
			eS	32	54.00
VUN	5.79	290	iPd	31	12.60
MBU	6.04	300	eP	31	45.20
NDF	6.78	289	iPc	31	52.10
AFI	7.29	33	P	31	51.00
RAR	15.07	97	P	33	38.00
			S	36	11.00
PVC	15.19	276	iPd	33	42.00
DZM	16.66	260	iPd	33	58.00
			iS	37	05.00
			ScP	41	49.10
WLZ	19.17	201	eP	34	24.60
RATZ	20.05	199	eP	34	30.80
MTW	22.24	198	eP	34	52.50
CAW	22.31	198	eP	34	52.90
WDW	22.48	198	eP	34	54.50
MOW	22.55	198	eP	34	55.70
WEL	22.57	199	P	34	56.00
			S	38	51.00
TCW	22.65	200	eP	34	55.50
KHZ	23.98	200	eP	35	10.20
TBI	24.69	102	eP	35	17.00
	1.1s	100.00nm			5.3mb
LTZ	24.72	201	eP	35	13.50
AFR	24.78	88	iP	35	15.80
	1.3s	345.00nm			5.8mb
PAE	24.95	89	iP	35	17.30
	1.3s	425.00nm			5.9mb
PPT	24.97	89	iP	35	17.70
	1.3s	660.00nm			6.1mb
PPN	25.11	89	iP	35	18.80
	1.3s	220.00nm			5.6mb
TVO	25.24	89	iP	35	20.10
	1.3s	370.00nm			5.8mb
HNR	25.68	291	eP	35	22.00
SVO	25.92	291	eP	35	31.00
VSG	25.97	291	eP	35	27.00
PMO	27.09	84	iP	35	36.40
	1.3s	550.00nm			6.1mb
			ipP	36	25.10
VAH	27.28	84	iP	35	37.80
	1.3s	225.00nm			5.7mb
			ipP	36	26.60
TPT	27.36	84	iP	35	38.80
	1.3s	660.00nm			6.2mb
			ipP	36	27.60
RUV	27.53	84	iP	35	40.20
	1.3s	440.00nm			6.0mb
			ipP	36	29.10
MHZ	27.77	203	eP	35	42.60
MMCZ	27.77	203	eP	35	42.70
TLC	27.95	203	eP	35	44.70
BRS	29.58	250	iPc	36	01.00
			i	36	08.00
			i	36	52.00
			i	42	25.00
COO	30.88	244	iPc	36	12.10
			i	42	28.40
RMQ	33.06	252	iPc	36	31.00
			i	37	21.00
CMS	36.16	244	iPc	36	57.00
			iPP	37	45.20

			iLR	42	46.80
QLP	37.11	252	iPc	37	05.00
PMG	37.26	281	iPd	37	06.00
	0.8s	298.51nm			5.9mb
TOO	37.77	234	eP	37	10.00
	0.5s	113.00nm			5.7mb
RKT	38.02	102	iP	37	12.20
	1.2s	250.00nm			5.7mb
TAU	38.33	225	eP	37	16.00
BFD	39.93	236	eP	37	29.00
MNDI	41.69	284	e(P)	37	43.00
QIS	41.69	261	iPd	37	42.00
			e	39	33.80
			e	43	08.00
ADE	42.57	240	eP	37	49.00
	1.0s	74.00nm			5.1mb
HON	44.72	24	P	38	06.00
ASPA	46.59	256	iPd	38	20.90
	0.7s	454.50nm			6.0mb
			iPP	39	10.50
			iPcP	39	52.10
			iScP	43	26.50
			iS	44	50.80
			iScS	47	53.80
WB2	46.66	261	eP	38	20.20
			ePcP	39	52.90
			iPP	40	17.40
			S	43	22.80
			eS	44	51.00
WRA	46.67	261	P	38	27.00
	0.7s	44.80nm			5.0mb
GUA	51.09	308	eP	38	55.60
	0.8s	662.69nm			6.2mb
			e	39	44.50
PJG	51.15	308	eP	38	55.60
MTN	51.20	269	eP	38	55.50
	0.3s	117.00nm			5.9mb
KNA	52.70	265	iPd	39	07.00
WARB	52.88	252	iPc	39	08.00
	0.5s	44.00nm			5.3mb
AAI	56.87	279	eP	39	36.00
MBL	59.83	257	iPd	39	57.20
MEKA	60.04	250	eP	39	58.00
KLB	60.05	244	eP	39	58.50
			e	40	50.00
NWAO	60.36	243	eP	40	01.20
			eS	48	03.00
RKG	60.43	242	eP	40	01.00
BAL	61.07	245	eP	40	05.60
MUN	61.32	244	eP	40	07.90
NANU	63.46	254	iPd	40	21.90
	0.4s	43.00nm			5.6mb
DAV	63.64	289	eP	40	23.00
MKS	64.48	274	e(P)	40	24.00
TSM	69.22	283	ePd	41	01.00
KAKJ	69.78	323	eP	41	00.40
SPA	70.01	180	iPd	41	04.60
	0.8s	16.67nm			4.8mb
			i	42	00.00
CHJJ	70.33	322	eP	41	03.50
OFUJ	71.06	326	P	41	08.40
NIIJ	71.17	323	eP	41	09.60
YAMJ	71.27	325	P	41	09.90
MTMJ	71.39	322	eP	41	11.10
ADK	71.69	359	ePc	41	12.30
BAG	72.23	295	eP	41	16.00
KUSJ	72.62	331	eP	41	17.80
ASAJ	74.37	330	eP	41	29.80
SYP	75.96	45	eP	41	39.00
PRS	76.15	43	ePc	41	39.30
GCC	76.19	42	ePc	41	39.40
PCC	76.24	41	ePc	41	39.50
BCH	76.28	44	P	41	39.50
SAO	76.37	42	eP	41	40.00
PRI	76.48	43	ePc	41	41.50
BRK	76.55	41	ePc	41	41.20
BKS	76.57	41	ePc	41	41.50
	1.2s	388.00nm			6.0mb
LLA	76.59	43	ePc	41	41.70
ZSP	76.60	41	ePc	41	41.70
MHC	76.60	42	iPc	41	42.00
ABL	76.65	45	P	41	41.80
ARN	76.67	42	P	41	41.60
PAS	76.95	46	eP	41	44.00
MWC	77.07	46	eP	41	44.00
			e	42	35.00
BAR	77.14	48	eP	41	44.00

PLM	77.39	47	eP	41	45.00
RVR	77.40	47	eP	41	46.00
			e	42	37.00
FHC	77.40	38	ePc	41	46.30
PEC	77.49	47	P	41	46.20
SBB	77.49	46	eP	41	46.00
			e	42	39.00
FRI	77.61	43	iPc	41	47.10
ISA	77.62	45	eP	41	47.00
			e	42	40.00
CMB	77.81	42	iPc	41	48.10
QZH	77.92	302	Pc	41	49.00
Z	20s	0.37um			4.7Msz
			eS	51	24.00
ORV	78.07	40	ePc	41	49.30
WDC	78.09	39	iPc	41	49.60
CLC	78.29	45	eP	41	51.00
			e	42	45.00
TPC	78.37	47	eP	41	51.00
			e	42	44.00
MIN	78.50	39	ePc	41	51.20
GSC	78.53	46	eP	41	52.00
GLA	78.64	49	eP	41	53.00
			e	42	45.00
LBFM	78.96	38	P	41	53.50
SSE	79.02	309	Pd	41	54.70
	1.2s	34.00nm			5.0mb
Z	20s	0.50um			4.8Msz
BONR	79.08	43	P	41	55.60
			pP	42	48.00
TNP	79.85	43	P	41	59.30
KVN	79.86	42	P	41	59.30
MZX	80.20	61	(P)	42	02.00
HKC	80.29	298	eP	42	02.80
NJ2	81.22	309	Pd	42	07.00
	1.0s	70.00nm			5.3mb
GZH	81.32	298	P	42	07.50
MDJ	81.39	324	iPd	42	07.90
	1.0s	200.00nm			5.8mb
BMW	81.53	34	P	42	07.00
PDB	81.56	11	P	42	05.80
KGM	82.10	275	ePd	42	12.70
VGB	82.22	36	P	42	11.00
LON	82.45	34	P	42	12.20
GMW	82.46	33	P	42	12.00
SVW	82.56	10	ePc	42	12.00
	1.1s	37.00nm			5.0mb
QIZ	82.57	293	P	42	14.40
			eS	52	13.00
MAW	82.60	199	eP	42	15.20
DL2	82.86	316	eP	42	15.00
			epP	43	08.00
			S	52	14.00
			esS	53	44.00
MRX	83.11	66	(P)	42	14.50
SNY	83.24	319	Pd	42	16.40
	1.8s	100.00nm			5.3mb
			S	52	16.00
			sS	53	48.00
CN2	83.25	321	iPd	42	17.00
	1.0s	100.00nm			5.5mb
			pP	43	10.00
			S	52	14.00
			sS	53	49.00
			SS	57	44.00
MSU	83.39	45	P	42	18.20
DUG	83.87	43	P	42	19.80
WHN	83.87	305	Pd	42	21.00
	1.5s	100.00nm			5.4mb
			S	52	24.00
SIT	84.03	21	eP	42	20.60
	1.2s	134.30nm			5.6mb
III	84.07	68	(P)	42	23.00
PMR	84.19	12	ePc	42	20.40
	1.1s	125.20nm			5.6mb
TTA	84.24	9	ePc	42	21.80
	1.1s	142.40nm			5.7mb
CRX	84.30	67	(P)	42	24.50
TIA	84.53	312	eP	42	23.40
			S	52	28.00
KLU	84.79	14	P	42	23.00
ANM	84.80	5	ePc	42	24.70
PPM	85.08	68	(P)	42	28.25
IPM	85.14	277	ePd	42	27.10
	0.9s	177.40nm			5.8mb
PNT	85.21	33	iPc	42	26.60
	1.3s	306.00nm			5.9mb

TOA	85.28	14	ePc	42 27.20	0.8
	1.3s	680.10nm			6.3mb
IIT	85.34	68	(P)	42 29.00	1.2
ALQ	85.58	50	iPc	42 29.10	0.4
	1.0s	122.50nm			5.7mb
			epP	43 23.00	221km
ANMO	85.58	50	P	42 29.40	0.8
			pP	43 24.00	224km
NEW	85.89	35	P	42 29.00	-0.6
	1.0s	50.00nm			5.3mb
OXX	85.98	70	(P)	42 33.00	2.1
IISM	86.13	68	(P)	42 33.00	1.7
SNG	86.43	279	eP	42 34.50	1.6
	1.2s	212.50nm			5.8mb
			eS	52 39.00	
BJI	87.06	315	eP	42 36.00	0.6
	1.5s	140.00nm			5.6mb
			pP	43 28.00	212km
			SKS	52 40.00	
			eS	52 58.00	
			sS	54 24.00	
LRM	87.13	39	eP	42 36.00	0.0
LVVM	87.23	68	(P)	42 37.50	0.9
BW06	87.31	42	P	42 36.00	-0.9
	1.0s	46.67nm			5.3mb
FBA	87.45	12	ePc	42 36.30	-0.4
	0.8s	108.70nm			5.7mb
IMA	87.54	9	ePc	42 37.60	0.3
	1.2s	88.00nm			5.5mb
GYA	88.24	299	P	42 42.00	0.5
TIY	88.55	311	Pd	42 43.00	0.3
	1.4s	100.00nm			5.5mb
Z	20s	0.50um			4.9Msz
GOL	88.57	47	P	42 42.80	-0.2
	1.0s	51.88nm			5.4mb
			pP	43 38.00	225km
GLD	88.69	47	P	42 43.00	-0.5
	1.0s	140.00nm			5.8mb
LOE	89.06	289	eP	42 46.00	0.6
NNT	89.15	284	iPc	42 48.00	2.2
TPX	89.18	74	(P)	42 48.00	2.1
XAN	89.53	307	Pd	42 48.30	1.0
	1.0s	100.00nm			5.7mb
NST	89.87	287	eP	42 53.00	3.9X
SES	90.37	35	ePc	42 50.70	-0.1
	1.3s	347.00nm			6.1mb
HHC	90.55	314	P	42 53.00	1.0
KHT	90.95	285	P	42 52.00	-2.1
KMI	91.00	296	Pd	42 56.00	1.5
	1.5s	130.00nm			5.7mb
			pP	43 50.00	219km
			SKS	53 07.00	
MEO	91.34	53	iPc	42 52.20	-3.4X
BDT	91.44	288	eP	42 55.50	-0.8
RSSD	91.48	43	P	42 56.00	-0.3
	1.0s	216.92nm			6.1mb
BTO	91.50	313	eP	42 57.00	0.7
			eSKS	53 08.00	
CHG	92.04	289	iPd	43 00.20	1.1
	1.0s	58.50nm			5.6mb
BRW	92.13	6	P	42 58.00	-0.4
CD2	92.31	302	P	43 00.70	0.5
			SKS	53 12.00	
INK	93.38	15	ePc	43 03.50	-0.7
	1.1s	115.00nm			5.9mb
			pP	44 01.00	235kmX
LZH	94.16	307	eP	43 09.00	0.3
	1.5s	82.00nm			5.7mb
Z	25s	0.36um			4.7MszX
			pP	44 03.50	221km
			PP	47 00.00	
			SKS	53 22.00	
UYO	94.26	55	iPc	43 08.50	-0.5
YKA	95.32	24	eP	43 12.00	-1.2
	1.0s	17.80nm			5.3mb
OLY	97.03	55	P	43 21.00	-0.5
FFC	97.29	34	ePd	43 22.20	0.0
	1.4s	43.00nm			5.6mb
GTA	98.31	309	eP	43 27.40	0.0
	1.2s	10.00nm			5.1mb
			SKS	53 43.00	
ELC	99.31	54	P	43 28.00	-3.9X
CNCB	100.23	112	Pdiff	43 40.00	2.8
LPB	100.24	112	ePdiff	43 38.00	0.9
ZOBO	100.33	112	iPdiff	43 39.90	2.2
	1.4s	11.51nm			5.1mb
Z	21s	0.17um			4.5Msz
			LR	17 20.00	
MBC	101.99	12	ePdiff	43 43.00	0.0X
	1.5s	16.00nm			5.4mb
PKI	106.53	294	Pdiff	44 00.00	-4.7X
HYB	110.07	282	ePKP	48 21.50	0.2
NDI	113.83	293	ePKP	48 27.00	-1.2
FRB	115.49	28	ePKP	48 29.00	-1.2
DAG	122.14	6	iPKPd	48 41.30	-1.2
	0.8s	8.96nm			
OUE	122.90	293	ePKP	48 46.30	0.6
PDCR	126.46	124	ePKP	48 52.00	-0.7
			e	48 56.40	
			e	50 50.70	
SOB1	126.94	119	ePKP	48 52.90	-0.8
			e	49 04.60	
			e	49 46.50	
KEV	128.46	350	iPKP	48 56.80	1.9
	1.0s	32.00nm			
KAF	135.32	345	ePKP	48 56.00	-12.1X
NUR	137.11	345	ePKP	49 07.00	-4.6X
	1.0s	34.00nm			
			i	49 13.00	
NB2	138.82	355	PKP	49 05.00	-9.8X
	0.9s	14.30nm			
HFS	139.45	353	ePKP	49 05.50	-10.4X
	0.5s	8.10nm			
EDU	143.23	7	ePKPd	49 20.60	-2.0
EAB	143.42	8	ePKPd	49 21.10	-1.9
EBH	143.47	7	ePKPd	49 21.60	-1.5
	0.8s	134.00nm			
MUD	143.52	355	iPKPc	49 20.10	-3.0X
	1.0s	44.00nm			
EDI	143.83	7	ePKPd	49 22.40	-1.2
EAU	143.87	7	iPKPd	49 23.00	-0.8
	1.0s	208.00nm			
COP	143.95	352	iPKPc	49 22.10	-1.7
	0.8s	56.72nm			
EBL	143.99	7	ePKPd	49 22.80	-1.2
	0.9s	222.00nm			
BSD	144.13	349	iPKP	49 24.00	-0.2
	0.7s	35.00nm			
EKA	144.41	7	PKPd	49 22.40	-2.3
	1.2s	226.20nm			
ESK	144.42	7	ePKP	49 23.20	-1.5
	1.0s	120.00nm			
AAE	144.83	257	ePKP	49 26.10	-0.9
VAL	146.30	16	iPKP	49 30.10	2.2
ETA	146.50	11	ePKP	49 30.20	2.0
	0.9s	154.00nm			
ECP	146.96	12	ePKP	49 31.20	2.2
	1.0s	197.00nm			
KAS	147.15	317	iPKPd	49 33.10	3.3X
LWI	147.17	230	iPKPd	49 29.50	-1.3
WIT	147.31	357	ePKP	49 33.50	4.0X
			e	50 30.00	
KRA	147.60	341	ePKP	49 30.10	0.0
	0.7s	59.00nm			
			i	49 33.40	
			i	49 36.40	
KSP	147.88	345	iPKPd	49 31.70	1.2
	1.0s	111.00nm			
			ic	49 34.40	
			i	49 44.00	
			ic	50 30.60	
			e	52 53.00	
CLL	148.11	349	iPKP	49 31.80	0.9
	1.7s	45.00nm			
			i	49 34.20	
			pPKP	50 30.40	
WTS	148.12	357	ePKP	49 31.00	0.2
VRI	148.32	329	ePKP	49 44.00	12.6X
BRG	148.35	348	iPKP	49 31.60	0.3
			i	49 35.20	
			i	49 39.10	
			i	50 32.10	
			i	51 09.60	
			eSKP	52 54.00	
BBTK	148.59	315	iPKPc	49 22.50	-9.7X
			i	49 36.00	
BHL	148.91	303	PKPc	49 36.50	3.7X
ISR	148.94	329	ePKP	49 46.00	13.5X
MLR	148.97	330	ePKP	49 37.00	4.4X
MOX	148.97	351	ePKP	49 33.00	0.7
	1.4s	158.00nm			
MDSJ	149.05	298	PKPd	49 38.34	5.2X
PRU	149.07	347	ePKP	49 32.70	0.3
	1.5s	122.80nm			
			e	49 37.00	
			i	49 37.60	
BNS	149.13	356	ePKP	49 37.10	4.6X
	1.3s	299.00nm			
JARJ	149.15	300	PKPd	49 38.28	5.0X
SHMJ	149.17	301	PKP	49 38.11	4.9X
GHZJ	149.23	296	PKPd	49 38.67	5.2X
BURJ	149.27	300	PKPc	49 39.03	5.6X
OTRJ	149.33	298	PKPd	49 38.78	5.2X
ENN	149.38	358	ePKP	49 33.50	0.6
UCC	149.38	360	PKP	49 38.30	5.4X
SALJ	149.42	299	PKPd	49 39.00	5.3X
MASJ	149.47	299	PKPd	49 39.09	5.4X
PSZ	149.48	339	iPKP	49 38.30	5.1X
CMP	149.56	330	ePKPc	49 40.00	6.6X
MKRJ	149.58	298	PKPd	49 39.33	5.4X
TNR	149.62	332	ePKPc	49 39.00	5.6X
SNF	149.67	360	PKP	49 38.70	5.4X
LISJ	149.79	298	PKPd	49 39.90	5.9X
AYN	149.83	293	ePKPc	49 43.00	8.8X
GRF	149.96	351	ePKP	49 34.40	0.6
Z	21s	0.10um			4.6Msz
			ic	49 39.90	
			ec	49 45.80	
HRT	150.04	319	ePKP	49 40.00	5.7X
DOU	150.09	359	PKP	49 39.80	5.9X
KHC	150.09	348	iPKPd	49 34.90	0.8
	1.0s	67.50nm			
			i	49 40.50	
			e	50 35.00	
SRO	150.09	341	ePKP	49 33.80	-0.2
			i	49 39.90	
			e	50 34.00	
ZST	150.10	343	ePKP	49 34.80	0.8
			i	49 40.50	
			e	50 35.60	
BUD	150.15	340	iPKP	49 40.10	6.0X
ABH	150.18	356	ePKP	49 39.77	5.6X
YLV	150.37	319	ePKP	49 39.00	4.2X
DRA	150.37	330	ePKPc	49 40.00	5.5X
GZR	150.48	333	ePKPd	49 35.00	0.2
BADA	150.75	293	ePKP	49 40.70	5.1X
BZS	150.78	334	ePKP	49 40.00	4.9X
JMB	150.79	325	iPKPc	49 41.00	5.8X
PVL	150.92	327	iPKPd	49 36.00	0.6
TIH	151.03	340	ePKP	49 41.40	5.9X
GWF	151.07	355	PKP	49 42.13	6.6X
UZD	151.08	339	e(PKP)	49 40.00	4.5X
FLN	151.18	6	ePKP	49 35.80	0.2
Z	20s	0.13um			4.7Msz
BCK	151.25	313	iPKP	49 41.90	5.7X
LDF	151.38	6	ePKP	49 36.10	0.2
BNT	151.38	320	iPKP	49 42.20	6.0X
DST	151.40	318	ePKP	49 42.00	5.7X
FUR	151.44	350	iPKPc	49 43.10	7.0X
	0.9s	170.00nm			
GRR	151.51	7	ePKP	49 36.50	0.4
KHL	151.53	315	iPKP	49 42.60	6.0X
WLS	151.66	356	PKP	49 43.40	7.0X
CDF	151.66	356	ePKP	49 36.20	-0.3
KGT	151.69	321	ePKP	49 42.70	6.0X
LPF	151.84	7	ePKP	49 36.70	0.1
ECH	151.87	356	PKP	49 43.23	6.5X
VITF	151.93	357	PKP	49 43.93	7.2X
KDZ	151.98	325	ePKP	49 38.00	0.9
ELL	152.08	312	iPKP	49 44.80	7.3X
KBA	152.09	347	ePKP	49 38.00	0.7
	0.9s	47.70nm			
			i	49 44.80	
			i	49 47.30	
			e	53 14.00	
HAU	152.12	357	ePKP	49 37.10	0.0
FEL	152.14	354	PKP	49 44.06	6.8X
WATA	152.19	349	iPKPc	49 38.20	0.8
	0.8s	72.90nm			
			i	49 44.10	
MOF	152.23	356	PKP	49 44.26	6.9X
WTTA	152.25	349	iPKPc	49 38.50	1.0
	0.8s	124.00nm			
			i	49 44.10	
MOTA	152.26	350	iPKPc	49 38.30	0.8
	0.9s	86.90nm			
			i	49 44.50	
BSF	152.27	356	ePKP	49 37.20	-0.2
BSF	152.27	356	PKP	49 44.43	7.0X
RZN	152.33	326	iPKPc	49 38.00	0.2
SOTA	152.36	350	iPKPc	49 38.50	0.9

28d 13h

	0.8s	71.50nm				
		i	49	44.50		
		i	49	48.60		
		i	49	52.70		
VTS	152.44	329	iPKPd	49	38.00	0.1
PTJ	152.52	342	ePKPd	49	38.60	0.8
BBS	152.59	355	PKP	49	45.28	7.5X
LOMF	152.75	356	PKP	49	45.15	7.1X
LOR	152.92	0	ePKP	49	38.50	0.3
	1.4s	52.30nm				
	Z 22s	0.15um				4.8Msz
MMB	152.92	327	ePKP	49	46.00	7.6X
YER	153.00	314	ePKP	49	46.00	7.3X
KKB	153.04	328	iPKPc	49	46.00	7.4X
SSF	153.12	1	ePKP	49	38.90	0.4
	1.2s	34.20nm				
LBF	153.20	0	ePKP	49	38.90	0.2
	1.4s	39.20nm				
TRI	153.28	345	iPKPd	49	39.40	0.7
		i		49	46.00	
		i		50	47.30	
MFF	153.35	7	ePKP	49	39.20	0.4
AVF	153.39	1	ePKP	49	38.80	0.0
SMF	153.54	1	ePKP	49	39.30	0.2
BGF	153.61	2	ePKP	49	39.30	0.1
VAY	153.71	328	ePKP	49	37.00	-2.5
		i		49	47.00	
		i		50	02.40	
SKO	153.76	330	ePKP	49	39.00	-0.5
		i		49	47.00	
TCF	153.85	3	ePKP	49	39.90	0.3
	1.2s	19.35nm				
MAF	153.93	3	ePKP	49	39.90	0.3
DHLJ	154.09	300	PKPd	49	39.13	-1.1
PLDF	154.21	1	PKP	49	49.05	8.9X
PYM	154.42	2	PKP	49	48.51	8.1X
OHR	154.73	330	ePKP	49	41.30	0.4
LBL	154.94	2	PKP	49	50.81	9.9X
FIR	155.68	347	e(PKP)	49	53.00	11.0X
PGF	157.27	351	ePKP	49	44.40	0.1
GUD	158.34	17	ePKP	49	47.70	2.1
ETOR	158.69	13	e(PKP)	50	04.30	18.3X
BCAO	159.05	224	iPKPd	49	48.00	1.0
	0.9s	38.00nm				
		i		50	25.00	
		i		50	44.80	
		i		51	15.30	
		i		54	06.10	
TOL	159.08	18	iPKPc	49	47.50	1.2
	1.3s	57.69nm				
ECOG	161.62	20	ePKP	49	50.00	0.9
AVE	163.30	36	iPKP	49	55.00	4.2X
		i		50	49.00	
LIC	163.55	146	PKP	49	52.16	0.6
KIC	163.82	146	PKPd	49	52.44	0.6
	1.4s	53.00nm				
TIC	163.91	145	PKP	49	52.48	0.5
IFR	164.30	30	iPKPd	49	53.00	1.0
		i		50	43.50	
LKO	165.88	137	PKP	49	52.94	-0.7
	S.D. = 1.0	on 258 of 338 obs.				

% FEB 28, 1991 13h 39m 25.12± 0.90s
39.137 N ± 7.1km 27.526 E ±12.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.5 (ISK).

IZM	0.77	196	iPg	39	40.10	0.0
			iSg	39	51.10	
DST	0.97	61	iPn	39	43.70	0.0
BNT	1.26	14	ePn	39	48.20	-0.2
KCT	1.28	30	ePn	39	49.00	0.1
KGT	1.32	353	ePn	39	49.70	0.1
	S.D. = 0.2	on 5 of 5 obs.				

% FEB 28, 1991 13h 58m 54.33± 0.56s
40.608 N ± 5.9km 28.928 E ± 4.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

YLV	0.34	97	iP	59	01.40	0.0
ISK	0.47	12	iPg	59	03.70	-0.1
IZI	0.50	123	iPg	59	04.20	-0.2
KCT	0.56	231	ePg	59	05.00	-0.8
HRT	0.60	69	ePg	59	06.70	0.2
BNT	0.81	252	ePg	59	09.70	-0.3
DST	1.03	193	iPn	59	14.40	0.6
KGT	1.25	263	ePn	59	18.20	0.7
	S.D. = 0.6	on 8 of 8 obs.				

FEB 28, 1991 14h 23m 13.95± 0.33s
45.593 N ± 4.6km 6.041 E ± 3.0km
DEPTH = 5.9 ± 3.0 km
FRANCE (538)
ML 3.0 (LDG).

RSL	0.42	77	Pg	23	22.23	-0.2
			Sg	23	27.07	
LPL	0.49	99	Pg	23	23.30	-0.6
			Sg	23	29.20	
LPG	0.51	101	Pg	23	23.60	-0.6
			Sg	23	29.80	
EMS	0.78	52	ePd	23	29.30	-0.4
LSD	0.80	99	P	23	28.49	-1.5
			S	23	37.54	
RRL	0.85	142	P	23	30.02	-0.9
			S	23	40.16	
RSP	0.96	117	P	23	31.95	-0.8
			S	23	43.08	
DIX	1.07	63	ePc	23	36.00	1.3
BHB	1.15	131	P	23	35.23	-0.5
			S	23	48.62	
PZZ	1.32	145	P	23	38.36	-0.5
			S	23	52.62	
ORX	1.36	88	P	23	40.66	1.1
MMK	1.42	70	ePc	23	40.70	0.1
STV	1.63	145	P	23	43.61	0.3
ENR	1.68	144	P	23	44.16	0.0
PLDF	1.73	283	Pn	23	43.73	-1.2
			Sg	24	11.40	
ROB	1.84	134	P	23	47.46	1.1
SMF	1.86	305	Pn	23	46.80	0.2
			Sg	24	15.60	
SBF	1.99	150	Pg	23	51.80	3.2X
			Sg	24	17.00	
LBF	2.00	315	Pn	23	49.20	0.6
			Sg	24	19.80	
LBL	2.00	261	Pn	23	47.03	-1.6
			Pg	23	53.32	
PCP	2.06	120	P	23	50.79	1.2
FIN	2.07	131	P	23	50.54	0.8
FRF	2.08	168	Pg	23	52.80	3.0X
PYM	2.13	275	Pn	23	48.98	-1.7
			Pg	23	55.12	
			Sg	24	22.96	
IMI	2.14	141	P	23	51.82	1.1
LRG	2.15	174	Pg	23	54.90	4.1X
AVF	2.22	304	Pn	23	52.40	0.6
			Pg	23	58.00	
			Sg	24	25.90	
LOR	2.26	319	Pn	23	53.00	0.6
			Pg	23	58.40	
			Sg	24	26.60	
SSF	2.29	311	Pn	23	53.00	0.1
			Pg	23	59.50	
			Sg	24	28.30	
BSF	2.30	13	Pg	23	58.00	4.9X
			Sg	24	26.90	
HAU	2.42	5	Pg	24	01.30	6.5X
			Sg	24	32.00	
BGF	2.42	295	Pn	23	55.50	0.7
			Pg	24	01.60	
			Sg	24	33.20	
MAF	2.51	286	Pn	23	56.20	0.3
			Pg	24	03.60	
			Sg	24	36.00	
SLE	2.75	37	ePd	24	05.90	6.4X
TCF	2.76	286	Pn	24	00.20	0.6
			Pg	24	08.30	
			Sg	24	43.60	
CAF	2.89	258	Pn	24	01.40	0.0
CDF	2.94	16	Pn	24	00.40	-1.8
			Sg	24	47.00	
	S.D. = 1.0	on 31 of 37 obs.				

& FEB 28, 1991 14h 34m 10.55s
60.122 N 152.712 W
DEPTH = 93.5km
3.2mb (1 obs.)
SOUTHERN ALASKA (2)
<AEIC>.

RED	0.30	354	iP	34	24.10	-0.6
			eS	34	34.76	
RSO	0.34	357	iP	34	24.52	-0.6
			eS	34	35.80	
RS2	0.34	356	iP	34	24.56	-0.5
REF	0.37	1	iP	34	24.66	-0.6
			eS	34	35.69	
RDN	0.39	356	iP	34	24.75	-0.5
			S	34	35.96	
NCT	0.45	346	iP	34	24.96	-0.7
			iS	34	36.55	
RDT	0.48	18	iP	34	25.15	-0.7
			eS	34	36.69	
HOM	0.71	130	iP	34	27.43	-0.3
			eS	34	41.17	
NNL	0.71	96	iP	34	27.33	-0.4
PDB	0.82	246	iP	34	27.83	-0.9
			eS	34	41.39	
AUE	0.84	204	iP	34	28.05	-0.9
			eS	34	40.50	
XLV	0.84	143	eP	34	27.96	-1.0
			eS	34	42.47	
AUI	0.87	205	eP	34	28.37	-0.9
			eS	34	41.68	
CNPM	0.96	128	eP	34	29.46	-0.9
			eS	34	44.60	
NKA	0.96	49	iP	34	31.45	1.2
BRLK	0.99	111	eP	34	29.62	-1.1
			eS	34	45.03	
CKL	1.09	10	iP	34	31.35	-0.6
			eS	34	48.25	
BGL	1.16	8	iP	34	32.19	-0.5
CRP	1.18	13	iP	34	32.53	-0.6
			eS	34	50.24	
MCNL	1.25	222	iP	34	32.38	-1.4
			eS	34	49.28	
CDD	1.29	202	eP	34	32.78	-1.4
SLKM	1.30	72	eP	34	33.43	-0.9
			eS	34	50.96	
NCG	1.31	12	eP	34	34.02	-0.6
			eS	34	53.23	
SYI	1.53	174	eP	34	36.19	-1.0
			eS	34	56.32	
SEW	1.63	89	eP	34	36.86	-1.7
SUA	1.66	35	iP	34	38.49	-0.5
			eS	34	59.94	
SVW	1.74	306	iP	34	38.33	-1.7
PMS	1.92	53	eP	34	41.29	-1.0
			eS	35	04.68	
SKT	1.95	17	eP	34	41.64	-1.1
PWA	2.07	41	eP	34	43.51	-0.8
			eS	35	09.89	
PLRM	2.29	48	eP	34	45.49	-1.8
			S	35	13.00	
LTI	2.44	90	eP	34	47.02	-2.2
KNK	2.46	56	eP	34	47.49	-2.1
			eS	35	15.81	
GHO	2.48	47	eP	34	48.20	-1.8
KNIM	2.49	83	iP	34	47.05	-3.0
			eS	35	15.50	
MTU	2.54	91	iP	34	48.85	-1.9
CUT	2.58	26	eP	34	50.26	-0.9
GLI	2.88	72	eP	34	51.80	-3.5
VZW	3.18	70	eP	34	56.30	-3.2
VLZ	3.30	69	eP	34	58.21	-2.9
TRF	3.53	18	eP	35	04.16	-0.3
KLU	3.60	65	eP	35	02.40	-2.9
TOA	3.74	55	eP	35	05.39	-1.9
RND	3.77	27	eP	35	06.36	-1.3
MCK	4.04	25	eP	35	10.17	-1.1
SDG	4.21	52	eP	35	11.27	-2.4
BWN	4.34	19	eP	35	13.42	-2.0
PAX	4.49	47	eP	35	15.50	-2.1
GLB	4.56	69	eP	35	15.26	-3.3
YKA	18.27	66	eP	38	15.20	-3.8
	0.5s	0.70nm				3.2mb
	50 obs. associated					

% FEB 28, 1991 15h 02m 09.73± 0.82s
41.139 N ± 8.1km 28.477 E ± 7.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

ISK	0.45	99	ePg	02	18.40	-0.4
DMK	0.87	322	iPg	02	26.50	0.0
YLV	0.89	130	ePg	02	27.00	0.2

		eSg	02 40.00		
KCT	0.89	186 ePg	02 26.70	-0.2	
HRT	0.96	109 ePg	02 28.20	0.2	
IZI	1.10	136 ePn	02 30.60	0.1	
S.D. = 0.3		on 6 of 6 obs.			

? FEB 28, 1991 15h 29m 41.65± 8.52s
51.686 N ±49.1km 16.358 E ±51.9km
DEPTH = 10.0km (geophysicist)
POLAND (548)
ML 3.8 (GRF), 3.7 (VKA), 3.6 (KBA).

KSP	0.84	183 iPc	29 57.90	-0.1	
	0.6s	183.00nm			
		iS	30 07.20		
		i	30 10.50		
		iLR	30 14.50		
BRG	1.72	243 iPn	30 11.80	0.0	
		iPg	30 13.40		
		iSg	30 32.50		
PRU	2.05	215 Pn	30 16.50	-0.1	
		Pg	30 18.00		
		e	30 21.50		
		Sn	30 35.00		
		Sg	30 42.00		
CLL	2.13	261 iPn	30 17.50	-0.2	
		iPg	30 21.60		
		iSg	30 46.90		
KRA	2.79	124 eP	30 39.10	11.9X	
		iS	31 17.10		
KHC	3.12	216 Pn	30 31.50	-0.2	
		Pg	30 38.10		
		Sg	31 16.60		
HOF	3.15	246 ePn	30 31.80	-0.4	
MOX	3.16	253 iPg	30 41.00	8.6X	
		iSg	31 20.00		
WET	3.38	223 ePn	30 34.90	-0.6	
VKA	3.42	180 iPgd	30 45.50	9.3X	
		iSg	31 29.20		
ZST	3.53	172 eP	31 14.80	37.2X	
		e	31 32.00		
GRF	3.83	241 e(Pn)	30 43.00	1.1	
		e(Pg)	30 53.60		
		e(Sn)	31 26.70		
		eSg	31 39.60		
KBA	5.01	204 iPnd	30 59.30	0.5	
		iSg	32 15.80		
S.D. = 0.6		on 9 of 13 obs.			

FEB 28, 1991 17h 27m 57.94± 0.66s
23.666 N ± 8.5km 108.690 W ± 7.9km
DEPTH = 10.0km (geophysicist)
4.6mb (12 obs.) 4.1Msz (1 obs.)
GULF OF CALIFORNIA (49)

MZX	2.13	102 (P)	28 32.50	-1.5	
PPM	10.43	114 (P)	30 36.50	5.3X	
GLA	10.80	331 eP	30 35.00	-0.6	
ALQ	11.40	9 eP	30 43.00	-1.1	
	1.3s	28.37nm		5.4mb X	
ANMO	11.41	9 P	30 43.50	-0.6	
TPC	12.23	330 eP	30 56.00	0.9	
MWC	13.33	324 eP	30 51.00	-18.9X	
GSC	13.57	331 eP	31 14.00	1.0	
MEO	14.15	36 e(P)	31 22.80	2.2	
CLC	14.36	330 eP	31 25.00	1.7	
ISA	14.66	327 eP	31 29.00	1.7	
MSU	15.10	349 P	31 33.60	0.5	
TNP	16.11	335 P	31 47.00	0.7	
	1.2s	47.04nm		4.5mb	
GOL	16.23	9 P	31 48.40	0.5	
	1.0s	27.50nm		4.3mb	
UYO	16.25	47 iPc	31 50.50	2.6	
FRI	16.32	327 eP	31 48.80	0.1	
BONR	16.45	332 P	31 51.80	1.2	
LLA	16.68	323 e(P)	31 53.30	0.0	
DAU	16.84	353 P	31 55.70	0.1	
DUG	16.84	349 P	31 56.00	0.5	
SAO	17.06	323 e(P)	31 58.80	0.7	
KVN	17.30	335 P	32 03.40	2.1	
CMB	17.47	328 eP	32 03.60	0.4	
BW06	19.07	358 P	32 21.00	-2.3	
	1.1s	39.68nm		4.6mb	
WDC	20.50	329 eP	32 36.60	-2.1	
RSSD	20.76	9 P	32 40.00	-1.7	
LRM	22.31	353 eP	32 57.00	-0.4	
RSCP	23.29	54 P	33 06.00	-0.8	
GBTN	24.33	55 P	33 17.00	0.1	
TKL	24.66	55 P	33 20.00	0.0	
PRM	25.22	60 P	33 25.80	0.4	
LON	25.33	339 P	33 26.00	-0.5	
NEW	25.44	347 P	33 25.70	-1.8	
	0.9s	12.06nm		4.6mb	
JSC	26.15	60 P	33 33.50	-0.6	
SGS	26.47	63 P	33 40.00	3.0X	
FFC	31.42	7 eP	34 19.00	-2.3	
	1.2s	21.00nm		4.9mb	
YKA	39.02	356 eP	35 23.20	-2.9X	
	0.9s	4.70nm		4.2mb	
SDV	39.23	106 eP	35 30.80	2.2	
TOV	39.58	104 eP	35 33.80	2.4	
TOA	46.02	337 P	36 23.90	0.7	
	0.9s	27.08nm		5.2mb	
PMR	46.82	335 P	36 29.30	-0.1	
	0.9s	8.33nm		4.8mb	
INK	47.16	348 ePd	36 31.00	-1.0	
PDB	47.98	331 P	36 37.50	-1.1	
FRB	47.99	23 eP	36 45.00	6.4X	
IMA	51.03	338 P	37 01.20	-0.9	
	0.8s	2.16nm		4.1mb	
MBC	52.90	357 ePd	37 14.50	-1.4	
	0.7s	9.00nm		4.8mb	
ZOBO	56.09	131 P	37 41.00	0.4	
Z	20s	0.18um		4.1Msz	
		LR	58 46.00		
LPB	56.29	131 eP	37 40.00	-1.8	
CNCB	56.56	132 eP	37 44.30	0.3	
SIV	60.98	126 P	38 13.70	-0.3	
DAG	67.13	14 iPd	38 51.50	-2.0	
	1.0s	6.00nm		4.7mb	
PDCR	76.91	110 (P)	39 54.00	1.4	
APO	84.11	25 eP	40 26.00	-4.1X	
	0.4s	0.50nm		4.1mb	
WB2	121.76	260 ePKP	47 00.90	6.5X	
S.D. = 1.3		on 47 of 54 obs.			

* FEB 28, 1991 17h 58m 53.17± 0.53s
20.387 S ±14.2km 174.211 W ±10.4km
DEPTH = 33.0km (normal)
4.6mb (8 obs.)
TONGA ISLANDS (173)

AFI	6.85	20 eP	00 31.00	-3.0X	
		eS	01 46.00		
SVA	7.28	287 ePc	00 40.60	0.6	
DZM	18.11	261 iPc	03 09.50	5.4X	
PAE	23.44	88 eP	03 52.00	-8.4X	
	0.7s	15.00nm		4.6mb	
LTZ	25.06	204 eP	04 16.20	0.2	
RMO	34.43	253 eP	05 40.00	0.1	
CMS	37.41	245 iPd	06 05.40	0.3	
		e	06 35.50		
ASPA	48.00	256 iPc	07 31.10	-0.2	
	0.7s	22.60nm		5.3mb	
WB2	48.12	261 eP	07 29.50	-2.7	
		i	07 32.00		
		i	08 59.90		
WRA	48.13	261 P	07 42.00	9.7X	
	0.7s	4.50nm		4.6mb	
MBL	61.25	256 iPd	09 07.60	-0.2	
KLB	61.31	244 eP	09 08.00	-0.1	
NWAO	61.59	243 eP	09 10.50	0.5	
MUN	62.57	244 eP	09 17.40	0.9	
NANU	64.85	254 iPd	09 32.40	0.8	
	0.4s	14.00nm		5.4mb	
TNP	79.01	42 iP	10 55.50	-0.3	
	1.0s	6.50nm		4.6mb	
ALQ	84.59	50 eP	11 24.00	-0.9	
ANMO	84.59	50 eP	11 24.80	-0.1	
	1.1s	5.06nm		4.6mb	
FBA	87.41	11 eP	11 39.20	1.3	
	1.3s	6.60nm		4.7mb	
BDT	92.97	287 eP	12 03.80	-1.0	
INK	93.27	14 eP	12 09.00	3.9X	
CHG	93.56	289 eP	12 12.90	5.3X	
YKA	94.95	24 eP	12 13.20	0.2	
	0.7s	0.50nm		4.1mb	
SIV	105.06	114 (PKP)	17 01.00	-13.4X	
GUN	107.71	294 PKP	17 13.20	-6.4X	
PKI	108.03	293 PKP	17 13.40	-6.8X	
	0.8s	20.00nm			
KKN	108.19	294 PKP	17 16.00	-4.3X	
	0.8s	26.00nm			
DMN	108.30	293 PKP	17 16.30	-4.3X	
	0.9s	29.00nm			
GKN	108.79	294 PKP	17 19.50	-1.9X	
HYB	111.62	281 iPKPc	17 20.30	-6.5X	
PRU	149.65	349 ePKP	18 43.00	7.0X	
KHC	150.65	350 ePKP	18 38.20	0.6	
S.D. = 1.0		on 18 of 32 obs.			

FEB 28, 1991 18h 05m 28.80± 0.39s
31.976 N ± 7.7km 142.355 E ± 6.0km
DEPTH = 42.9km (4 depth phases)
5.1mb (27 obs.)
SOUTH OF HONSHU, JAPAN (211)

CN2	17.78	316 eP	09 33.50	-1.1	
Z	14s	0.80um			
		epP	09 38.00		
		eS	12 42.00		
SNY	17.92	309 Pc	09 35.30	-1.0	
	1.0s	50.00nm		4.6mb	
Z	16s	0.60um		4.8Msz	
N	11s	0.50um			
		sP	09 49.80		
		S	12 51.00		
BJI	22.60	298 eP	10 26.00	-0.7	
	1.0s	20.00nm		4.5mb	
WHN	23.96	274 eP	10 40.50	0.5	
TIY	25.15	291 Pc	10 51.40	-0.2	
Z	17s	1.00um		4.4MszX	
E	16s	0.50um			
BTO	27.33	297 P	11 11.20	-0.5	
XAN	28.05	283 P	11 17.00	-1.1	
DAV	29.29	216 eP	11 31.00	1.6	
LZH	32.04	288 eP	11 52.00	-1.7	
	1.5s	20.00nm		4.8mb	
CD2	32.83	279 P	11 59.60	-0.9	
GTA	35.08	294 iPd	12 19.20	-0.8	
	1.0s	10.00nm		4.7mb	
LOE	39.42	258 eP	12 55.60	-0.8	
CHTO	41.09	262 eP	13 10.20	0.0	
	0.9s	6.39nm		4.4mb	
KHT	43.33	257 eP	13 30.00	1.4	
NNT	43.56	254 eP	13 30.00	-0.4	
		e	14 33.20	309kmX	
WMQ	43.99	302 Pd	13 34.50	0.8	
		pP	13 45.70	39km	
IPM	47.31	244 eP	13 59.20	-1.2	
GUN	48.64	281 P	14 11.40	0.4	
PKI	49.15	280 P	14 15.30	0.4	
	0.4s	12.00nm		5.3mb	
KKN	49.18	281 P	14 15.40	0.4	
	0.6s	19.00nm		5.3mb	
DMN	49.39	281 P	14 16.80	0.2	
	0.4s	12.00nm		5.3mb	
GKN	49.65	281 P	14 18.40	-0.1	
	0.6s	16.00nm		5.2mb	
NDI	55.56	285 iPd	15 02.00	-0.3	
	0.6s	106.67nm		6.0mb	
DZM	58.48	154 iPc	15 20.10	-2.9	
INK	58.56	26 eP	15 22.00	-1.0	
		pP	15 34.00	42km	
HYB	59.00	272 iPd	15 27.20	0.3	
	1.0s	45.00nm		5.6mb	
MBC	61.16	16 eP	15 40.50	-0.3	
	0.9s	5.00nm		4.6mb	
		pP	15 53.00	44km	
GBA	61.74	269 Pd	15 45.70	0.2	
	0.7s	22.90nm		5.4mb	
POO	62.49	276 iPd	15 50.80	0.3	
	0.8s	44.78nm		5.6mb	
QUE	63.31	290 eP	15 56.00	0.0	
KOD	63.38	266 eP	15 57.70	0.9	
YKA	67.81	29 eP	16 22.40	-1.7	
	1.1s	1.90nm		4.1mb X	
DAG	70.88	355 iPc	16 42.20	-0.5	
	1.0s	14.00nm		4.9mb	
KAF	73.17	334 iP	16 56.00	-0.5	
	0.7s	9.20nm		4.8mb	
SES	75.55	39 eP	17 10.00	-0.6	
LRM	77.24	44 eP	17 21.00	0.6	
FFC	77.54	32 eP	17 22.00	0.5	
	1.4s	30.00nm		5.1mb	
HFS	79.02	337 eP	17 29.00	-0.5	
	0.4s	2.90nm		4.6mb	
NB2	79.15	338 P	17 30.10	-0.2	
	0.7s	6.20nm		4.7mb	
FRB	81.51	13 eP	17 43.00	0.4	

28d 18h

VRI 83.10 321 eP 18 01.50 10.2X
KRA 83.73 327 eP 17 54.60 0.2
e 18 08.30 47km
MLR 83.76 321 eP 17 56.00 1.1
KSP 84.82 329 iPd 18 00.50 0.6
0.8s 20.00nm 5.3mb
e 18 39.50 155kmX
BRG 85.80 330 eP 18 05.40 0.6
e 18 40.30 137kmX
CLL 85.87 331 iP 18 05.80 0.7
1.1s 21.00nm 5.3mb
e 18 38.00 125kmX
ZST 86.36 327 eP 18 09.30 1.7
MOX 86.95 331 eP 18 11.00 0.6
BSF 91.12 332 eP 18 32.40 2.1
LOR 92.73 333 eP 18 38.40 0.8
LBF 92.92 333 eP 18 38.40 -0.1
LPL 93.00 331 eP 18 39.40 0.2
0.7s 7.15nm 5.2mb
LPG 93.01 330 eP 18 39.60 0.3
0.7s 8.80nm 5.3mb
SSF 93.03 333 eP 18 39.40 0.4
AVF 93.32 333 eP 18 40.60 0.3
0.7s 5.50nm 5.1mb
GRR 93.49 336 eP 18 41.20 0.1
BGF 93.70 333 eP 18 42.20 0.1
SBF 94.02 329 eP 18 43.20 -0.5
TCF 94.17 334 eP 18 45.40 1.1
FRF 94.61 329 eP 18 46.00 -0.3
0.8s 6.70nm 5.1mb
LRG 94.82 329 eP 18 47.40 0.1
0.8s 10.75nm 5.3mb
LMR 94.85 329 eP 18 47.30 -0.1
0.8s 5.35nm 5.0mb
BTH 97.77 333 P 19 10.00 9.3X
SIV 153.42 59 PKP 25 01.40 -15.2X
S.D. = 0.9 on 61 of 64 obs.

FEB 28, 1991 18h 08m 03.76± 0.48s
7.439 S ± 3.6km 128.282 E ± 6.0km
DEPTH = 161.3 ± 4.8 km
5.0mb (12 obs.)
BANDA SEA (280)

AAI 3.73 359 ePc 09 03.60 2.2
eS 09 29.50
KUPT 5.35 239 ePd 09 21.00 -1.8
eS 09 42.50
MTN 6.06 153 eP 09 31.00 -1.3
KNA 8.27 177 iPc 10 01.70 -0.1
1.0s 3214.00nm 6.8mb X
eS 11 28.00
MKS 9.03 284 iPc 10 17.50 5.6X
BKB2 12.90 298 ePc 11 15.20 12.8X
WB2 13.75 155 eP 11 07.50 -5.8X
i 11 17.40
iS 13 32.00
iScP 18 59.60
MBL 15.90 210 iPd 11 40.10 0.1
ASPA 17.01 162 eP 11 50.90 -2.8X
0.4s 559.00nm 6.3mb X
eS 14 52.60
QIS 17.04 141 iPc 11 52.20 -1.7
0.3s 38.00nm 5.2mb
iS 14 50.70
WARB 18.71 185 iPc 12 13.00 0.5
0.6s 198.00nm 5.7mb
PMG 18.77 97 iPd 12 15.00 1.8
NANU 19.41 218 iPc 12 20.70 0.9
0.3s 28.00nm 5.1mb
eS 15 52.00
MEKA 21.20 205 eP 12 38.50 0.7
CTA 21.48 128 iPc 12 41.00 0.4
1.0s 32.00nm 4.7mb
iS 16 40.00
FORR 23.29 180 iPd 12 58.40 0.3
COOL 24.26 195 eP 13 07.90 0.5
QLP 24.34 143 iPc 13 08.00 -0.2
iS 17 39.70
BAG 24.89 342 eP 13 14.00 0.5
BAL 25.47 204 eP 13 19.00 0.4
eS 18 15.00
KLB 25.96 201 iP 13 23.60 0.5
eS 18 25.00
MUN 26.88 203 eP 13 31.40 0.0
eS 18 47.00
NWAO 27.36 201 eP 13 35.90 0.2
i 14 15.60
RKG 28.47 200 eP 13 50.00 4.2X
CMS 29.00 148 iPc 13 49.70 -0.7
iS 20 12.80
ADE 29.03 162 iPc 13 51.30 0.6
1.0s 88.00nm 5.4mb
BRS 30.54 133 iPd 14 03.60 -0.6
i 14 38.00
COO 31.92 139 iPd 14 16.00 -0.2
0.6s 14.00nm 4.9mb
BFD 32.32 158 iPc 14 19.30 -0.2
eS 20 45.00
TOO 33.82 155 iPc 14 34.00 1.5
0.6s 34.00nm 5.2mb
CHTO 38.95 312 eP 15 16.90 1.1
1.0s 10.25nm 4.5mb
epP 15 54.00 171kmX
GYA 39.69 329 P 15 22.00 0.1
WHN 40.06 341 eP 15 25.50 0.8
1.0s 30.00nm 4.9mb
pP 16 00.00 157kmX
NJ2 40.29 348 Pc 15 27.00 0.5
pP 16 01.00 154kmX
KMI 40.82 323 Pc 15 33.00 1.7
TIA 44.67 347 eP 16 00.00 -2.1
CD2 44.79 330 P 16 02.00 -1.2
XAN 45.15 337 P 16 05.00 -1.0
TIY 47.29 343 iPd 16 22.20 -0.7
LZH 49.01 334 P 16 35.50 -0.7
1.5s 76.00nm 5.1mb
Z 20s 0.34um 4.3Msz
pP 17 02.00 112kmX
HHC 50.45 344 eP 16 46.00 -1.1
LSA 51.35 318 eP 16 54.60 0.1
GTA 53.55 333 iPc 17 09.80 -0.4
1.0s 20.00nm 4.9mb
Z 12s 0.40um 4.7MszX
WMQ 62.85 328 iPd 18 14.50 -0.1
pP 18 50.60 152kmX
eS 26 30.00
SPA 82.61 180 iPc 20 10.40 0.4
1.0s 15.00nm 4.7mb
YKA 108.89 26 ePKP 26 13.50 -1.5
0.5s 1.30nm
BSF 116.36 320 ePKP 26 29.00 -0.9
0.7s 6.60nm
HAU 116.59 320 ePKP 26 29.70 -0.5
LPG 117.14 318 ePKP 26 31.30 -0.4
0.5s 2.20nm
LPL 117.15 318 ePKP 26 31.20 -0.5
0.5s 2.90nm
LOR 118.42 320 ePKP 26 33.30 -0.4
LBF 118.45 320 ePKP 26 33.40 -0.4
0.6s 3.15nm
SSF 118.72 320 ePKP 26 34.20 -0.1
0.6s 3.60nm
BGF 119.33 320 ePKP 26 35.40 -0.1
0.6s 8.10nm
MAF 119.64 320 ePKP 26 35.70 -0.4
LPF 121.14 323 ePKP 26 33.50 -5.3X
RSSD 121.72 42 iPKP 26 39.20 -1.2
GOL 122.36 47 ePKP 26 41.60 -0.2
ALQ 122.93 53 ePKP 26 43.00 0.0
KIC 133.37 272 PKP 27 04.00 0.7
LIC 133.64 272 PKPd 27 04.60 0.8
0.5s 4.00nm
TIC 133.66 272 PKP 27 04.70 0.8
LKO 134.35 276 PKP 27 05.92 0.7
0.5s 7.50nm
NNA 148.43 127 iPKP 27 34.00 4.1X
1.0s 27.00nm
VAO 149.39 189 ePKP 27 36.60 5.3X
PPD 150.71 181 ePKP 27 39.10 5.9X
ZOBO 151.39 145 PKP 27 35.50 0.5
0.8s 15.99nm
i 27 42.00
LR 44 55.00
SIV 154.95 158 PKP 27 48.00 8.7X
S.D. = 0.9 on 58 of 68 obs.

% FEB 28, 1991 19h 12m 23.66± 1.39s
47.162 N ±10.4km 0.685 W ±17.5km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.9 (LDG).

MFF 0.67 146 Pg 12 38.70 1.7
Sg 12 56.40
LPF 0.90 345 Pg 12 40.00 -0.9
Sg 12 57.60
GRR 1.23 355 Pg 12 46.20 -0.4
Sg 13 08.50
LDF 1.48 15 Pg 12 54.20 3.9X
Sg 13 22.00
FLN 1.61 5 Pg 12 53.80 1.7
Sg 13 21.80
TCF 2.17 113 Pn 12 59.40 -1.0
Sg 13 47.20
RJF 2.41 140 Pg 13 07.40 3.7X
Sg 13 45.00
MAF 2.43 112 Pn 13 02.20 -1.8
Sg 13 56.40
LFF 2.43 155 Pg 13 03.60 -0.5
Sg 13 39.20
BGF 2.50 103 Pn 13 04.80 -0.2
Sg 13 59.60
LPO 2.80 152 Pg 13 12.00 2.7X
Sg 13 51.80
SSF 2.86 90 Pn 13 11.60 1.4
Pg 13 24.40
Sg 14 13.60
CAF 2.94 138 Pn 13 05.20 -6.2X
Pg 13 18.00
Sg 14 02.80
S.D. = 1.5 on 9 of 13 obs.

% FEB 28, 1991 19h 43m 19.70± 0.93s
47.216 N ± 8.3km 0.534 W ±14.6km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.9 (LDG).

MFF 0.67 156 Pg 43 34.20 1.2
Sg 43 51.80
LPF 0.89 337 Pg 43 35.50 -1.2
Sg 43 53.40
GRR 1.19 350 Pg 43 41.60 -0.3
Sg 44 04.00
LDF 1.41 11 Pg 43 49.70 4.4X
Sg 44 17.80
FLN 1.55 1 Pg 43 49.30 2.0
Sg 44 17.60
LSF 1.72 123 Pn 43 49.40 -0.4
Sg 44 28.40
TCF 2.10 115 Pn 43 55.00 -0.4
Sg 44 42.70
MAF 2.35 114 Pn 43 58.00 -1.0
Pg 44 09.00
Sg 44 51.90
RJF 2.38 143 Pg 44 02.90 3.5X
Sg 44 40.50
BGF 2.41 105 Pn 44 00.30 0.5
Sg 44 55.10
LFF 2.44 158 Pg 43 59.10 -1.1
Sg 44 34.70
SSF 2.76 92 Pg 44 20.00 15.2X
Sg 45 09.10
LPO 2.80 154 Pg 44 06.20 0.8
Sg 44 46.40
CAF 2.92 141 Pn 44 00.90 -6.1X
Pg 44 13.60
Sg 44 58.30
S.D. = 1.2 on 10 of 14 obs.

FEB 28, 1991 19h 53m 58.69± 0.93s
39.905 N ± 7.2km 22.005 E ± 9.0km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 2.1 (THE).

LIT 0.42 62 eP 54 06.60 -0.7
eS 54 12.20
AGG 0.92 164 eP 54 16.50 0.3
eS 54 30.10
FNA 1.00 332 eP 54 18.00 0.3
eS 54 33.00
GRG 1.09 16 ePc 54 20.0B 0.8
eS 54 34.90
KNT 1.43 28 ePd 54 24.8B 0.2
iS 54 45.16
OHR 1.52 323 ePn 54 25.00 -0.9
S.D. = 0.9 on 6 of 6 obs.

• FEB 28, 1991 20h 20m 49.41± 2.47s

62.093 N ±11.7km 2.334 E ±19.7km
DEPTH = 10.0km (geophysicist)
NORWEGIAN SEA (642)
MD 2.8 (BER).

FRO	1.25	104	iP	21	13.48	0.8
			eS	21	29.03	
FOO	1.38	110	eP	21	15.78	1.2
			eS	21	32.20	
SUE	1.56	131	iP	21	17.13	0.0
			eS	21	36.11	
OSG	1.62	170	eP	21	19.10	1.0
			eS	21	40.60	
HYA	2.06	115	iPc	21	24.93	0.5
			eS	21	49.39	
ASK	2.13	138	iP	21	25.53	0.2
			eS	21	50.85	
MOL	2.48	77	eP	21	31.06	0.6
			eS	21	59.29	
ODD1	3.03	134	iP	21	37.80	-0.4
			eS	22	11.87	
KMY	3.23	152	iP	21	39.82	-1.2
			eS	22	16.12	
NRA0	4.63	103	Pn	21	59.70	-1.3
			Sn	22	51.50	
			Lg	23	14.10	
NSS	4.98	56	eP	22	05.73	-0.2
			eS	22	57.47	
HFS	5.85	105	eP	22	17.00	-1.1
	0.4s		1.00nm			3.9mb X

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

? FEB 28, 1991 20h 46m 10.09± 4.49s
39.481 N ±23.5km 19.978 E ±30.7km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
MD 2.7 (THE).

IGT	0.28	79	eP	46	14.70	-1.3
FNA	1.69	39	eP	46	40.90	1.1
			eS	47	03.40	
OHR	1.75	21	ePn	46	38.80	-1.8
AGG	1.88	103	eP	46	42.50	-0.1
LIT	2.03	71	eP	46	45.20	0.4
			eS	47	11.10	
GRG	2.37	51	iPc	46	50.72	1.1
KNT	2.79	52	eP	46	56.20	0.5
SRS	3.21	58	ePd	47	01.68	0.1

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

& FEB 28, 1991 21h 01m 47.87s
60.173 N 153.169 W
DEPTH = 140.0km
4.5mb (12 obs.)
SOUTHERN ALASKA (2)
<AEIC>. Felt at Homer and in the lower Cook Inlet orea.

RED	0.32	39	iP	02	06.78	0.8
RS2	0.36	35	iP	02	07.18	0.9
RSO	0.36	35	iP	02	07.17	0.9
REF	0.39	36	iP	02	07.25	0.8
NCT	0.41	17	iP	02	07.28	-0.7
RDT	0.55	43	iP	02	07.89	-0.8
			eS	02	23.74	
PDB	0.64	234	iP	02	08.20	-1.0
AUE	0.82	187	iP	02	09.48	-1.0
AUH	0.82	190	iP	02	09.77	-0.8
AUI	0.85	189	iP	02	09.73	-1.0
HOM	0.93	123	iP	02	10.89	-0.4
NNL	0.95	97	iP	02	11.45	-0.1
XLV	1.03	134	iP	02	11.18	-1.0
CKL	1.11	21	iP	02	12.42	-0.7
NKA	1.11	58	iP	02	13.67	0.7
MCNL	1.15	211	iP	02	12.21	-1.2
BGL	1.16	19	iP	02	13.11	-0.5
CNPM	1.17	123	iP	02	12.87	-0.8
			eS	02	31.87	
CRP	1.21	24	iP	02	13.42	-0.7
BRLK	1.22	109	iP	02	13.18	-0.9
CDD	1.27	191	iP	02	13.24	-1.4
CGLM	1.27	26	eP	02	13.95	-0.8
NCG	1.33	21	iP	02	14.62	-0.7
SLKM	1.50	76	iP	02	15.51	-1.6
SVW	1.53	309	iPc	02	16.30	-1.1
SYI	1.62	165	iP	02	16.81	-1.5
SUA	1.76	41	iP	02	18.91	-1.2
			eS	02	44.38	
SEW	1.86	91	eP	02	19.49	-1.6
			eS	02	44.27	
SKT	1.98	23	iP	02	21.31	-1.3
PMS	2.07	57	iP	02	21.88	-1.9
PWA	2.19	46	iP	02	23.19	-1.9
PLRM	2.43	52	iP	02	25.32	-2.8
PMR	2.43	52	iPc	02	25.40	-2.7
GHO	2.62	50	iP	02	27.97	-2.6
			eS	03	00.38	
KNK	2.62	60	iP	02	27.85	-2.8
			eS	03	00.47	
CUT	2.64	31	iP	02	29.06	-1.7
LTI	2.66	91	eP	02	29.58	-1.5
KNIM	2.71	84	iP	02	28.78	-2.9
MTU	2.77	91	eP	02	30.81	-1.7
TTA	3.08	335	iP	02	34.70	-1.9
GLI	3.09	74	eP	02	33.08	-3.5
HUR	3.28	29	eP	02	37.28	-1.8
HIN	3.33	83	eP	02	36.71	-3.0
VZW	3.38	72	eP	02	37.18	-3.3
VLZ	3.50	71	eP	02	39.03	-2.9
MID	3.53	99	eP	02	41.50	-0.8
TRF	3.56	21	eP	02	40.60	-2.4
CVA	3.71	81	eP	02	41.55	-3.1
KLU	3.79	66	eP	02	43.06	-2.8
RND	3.84	30	eP	02	43.73	-2.8
TOA	3.91	57	iP	02	45.50	-1.9
SGAM	3.97	82	eP	02	45.00	-3.2
MCK	4.09	27	eP	02	47.98	-1.9
TZL	4.20	60	eP	02	48.79	-2.5
RAGM	4.23	83	eP	02	48.75	-3.0
SDG	4.36	54	eP	02	51.30	-2.2
BWN	4.37	22	eP	02	51.10	-2.5
HMT	4.44	84	eP	02	51.82	-2.7
PAX	4.63	49	eP	02	54.90	-2.2
GLB	4.76	70	iP	02	56.01	-2.8
			eS	03	50.23	
THY	4.79	44	eP	02	57.84	-1.4
			eS	03	52.25	
NEA	4.81	22	eP	02	57.09	-2.4
WRH	4.92	27	eP	02	58.34	-2.6
DDM	5.00	40	iP	03	01.22	-0.8
			eS	03	56.98	
CCB	5.13	27	eP	03	01.10	-2.7
WAX	5.14	82	eP	03	00.71	-3.2
HDA	5.14	32	iP	03	01.43	-2.5
TGL	5.15	79	eP	03	02.30	-1.8
RDS	5.22	24	eP	03	02.38	-2.5
MDM	5.32	23	eP	03	03.70	-2.6
FBA	5.36	25	eP	03	04.30	-2.4
BALM	5.40	76	eP	03	04.82	-2.7
GLM	5.52	26	eP	03	06.09	-2.9
DOT	5.54	47	eP	03	06.89	-2.3
WRG	5.57	87	eP	03	08.69	-1.0
TMW	5.77	52	eP	03	09.68	-2.7
CTGM	5.89	77	eP	03	12.18	-2.0
IMA	5.92	358	eP	03	12.40	-2.2
SDN	6.23	222	eP	03	14.60	-3.9
YKU	6.80	89	eP	03	25.87	-0.4
ANM	7.18	313	eP	03	28.98	-2.5
SIT	9.81	101	eP	04	04.30	-2.2
BRW	11.27	354	eP	04	21.80	-3.9
INK	11.75	38	P	04	29.10	-2.9
ADK	15.47	248	eP	05	18.60	-0.8
YKA	18.46	66	eP	05	52.00	-3.0
	0.5s		6.50nm			4.2mb
MBC	19.89	23	eP	06	06.50	-3.3
	0.6s		113.00nm			5.4mb
BMW	22.28	115	eP	06	34.30	0.5
VGB	24.13	113	eP	06	52.50	0.9
SES	25.48	94	eP	07	03.00	-1.2
FFC	27.48	78	eP	07	20.00	-2.2
	0.6s		4.00nm			4.3mb
KVN	30.46	118	eP	07	49.00	-0.1
BONR	31.28	119	eP	07	56.20	-0.2
TNP	31.65	118	eP	07	59.00	-0.6
	1.0s		12.50nm			4.6mb
DAU	32.51	108	eP	08	06.50	-0.7
MSU	33.58	112	eP	08	16.00	-0.4
GLA	36.93	120	eP	08	44.50	0.1
FRB	37.20	47	eP	08	44.00	-2.3
ANMO	39.16	109	eP	09	02.00	-1.2
	1.0s		5.00nm			4.2mb
ALQ	39.16	109	eP	09	02.50	-0.8
	0.8s		2.24nm			4.0mb
DAG	40.34	15	eP	09	08.50	-3.7
	0.5s		21.13nm			5.1mb
SCH	43.57	57	eP	09	37.00	-1.9
CN2	49.34	289	eP	10	21.40	-2.8
			pP	10	53.50	140kmX
			sP	11	10.00	
KEV	50.36	360	eP	10	36.00	4.4
SOD	52.76	0	iP	10	46.30	-3.3
			i	11	20.10	
KAF	58.04	0	iP	11	24.80	-2.8
	0.4s		2.70nm			4.6mb
NB2	58.52	9	P	11	26.40	-4.6
	0.8s		2.80nm			4.3mb
HFS	59.59	8	eP	11	35.00	-3.3
	0.4s		1.60nm			4.3mb
NUR	59.64	1	iP	11	36.20	-2.4
			e	12	09.00	
TIY	60.19	294	eP	11	38.70	-4.1
GTA	64.26	305	eP	12	06.40	-3.4
	1.0s		10.00nm			4.7mb
			pP	12	41.60	147kmX
WMQ	65.08	316	P	12	12.60	-2.3
			pP	12	47.00	143kmX
LZH	65.36	300	eP	12	13.50	-3.5
	2.0s		25.00nm			4.8mb
			pP	12	48.00	143kmX
KHC	70.52	9	eP	12	46.90	-1.8
			i	13	21.50	
GUN	79.88	310	P	13	40.20	-2.2
KKN	80.22	310	P	13	41.90	-2.1
GKN	80.27	311	P	13	41.60	-2.6
PKI	80.36	310	P	13	43.40	-1.5
DMN	80.45	310	P	13	43.20	-2.1
SPA	150.01	180	iPKPc	21	19.60	3.4
	1.0s		30.00nm			

120 obs. associoted

FEB 28, 1991 21h 55m 00.43± 0.51s
39.386 N ± 4.4km 28.224 E ± 4.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.1 (ISK).

DST	0.38	55	iPg	55	07.90	-0.4
KCT	0.87	7	iPg	55	17.40	0.3
			iSg	55	30.40	
BNT	1.00	347	iPg	55	19.40	0.1
			iSg	55	32.90	
EDC	1.00	344	iPg	55	19.50	0.2
			eSg	55	33.00	
IZM	1.24	218	ePn	55	22.90	-0.6
IZI	1.35	45	iPn	55	25.00	-0.3
KHL	1.47	136	ePn	55	27.80	0.8
YLV	1.47	36	iPn	55	26.60	-0.5
EZN	1.53	287	ePn	55	28.00	0.2
ISK	1.80	21	ePn	55	32.00	0.4
HRT	1.81	37	ePn	55	32.00	0.1
DMK	2.46	352	ePn	55	41.00	-0.2

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

FEB 28, 1991 23h 30m 57.97± 0.74s
33.695 N ± 8.4km 34.511 E ± 8.3km
DEPTH = 10.0km (geophysicist)
EASTERN MEDITERRANEAN SEA (371)
ML 3.3 (BHL), 3.2 (CSS).

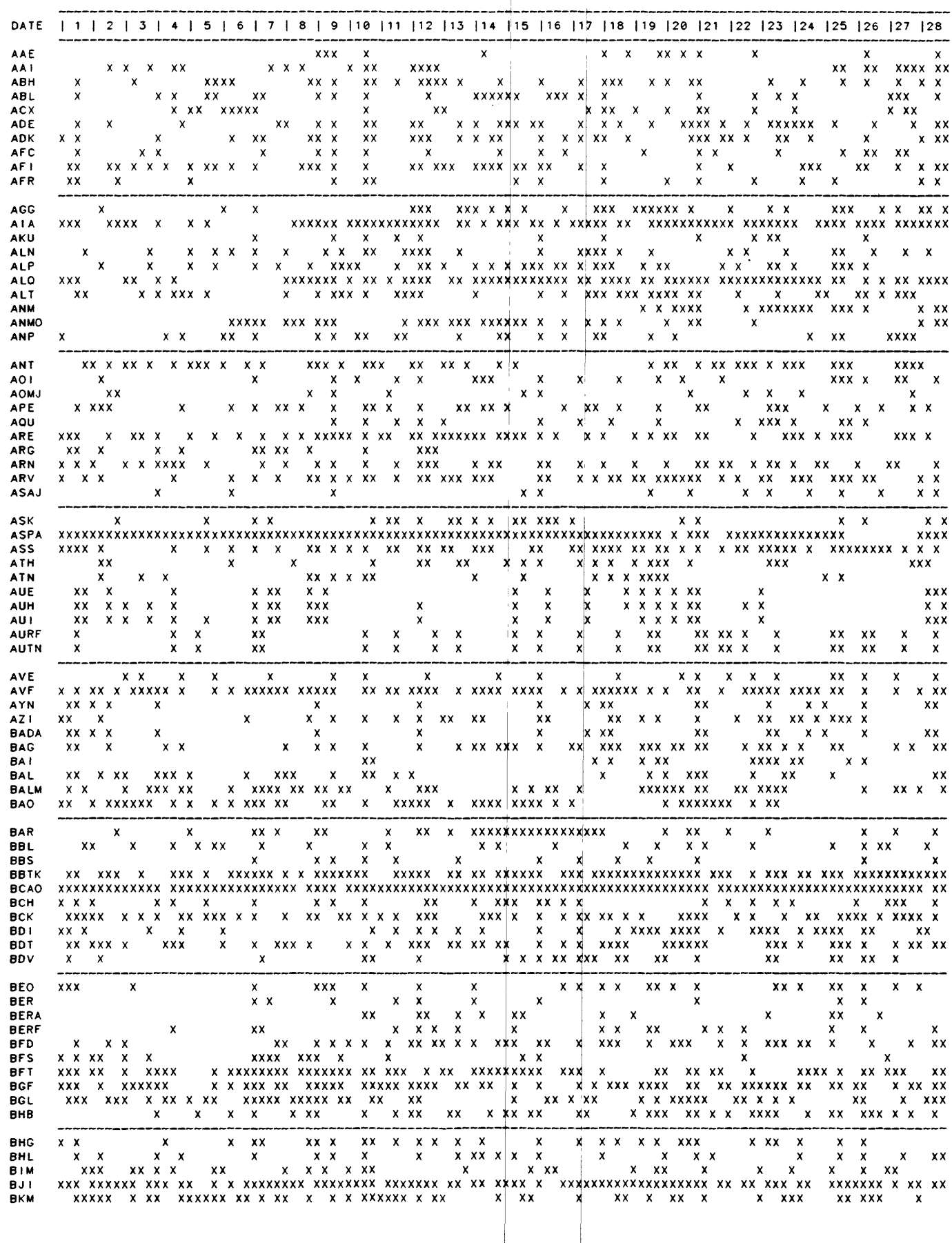
BHL	0.97	77	Pg	31	15.50	-1.0
			Sg	31	26.00	
SHMJ	1.43	132	Pc	31	24.20	0.3
CSS	1.60	323	eP	31	26.00	-0.3
			eSb	31	44.50	
KFNJ	2.08	151	Pc	31	33.70	0.5
PPCY	2.15	304	eP	31	35.50	1.2
MKRJ	2.34	156	Pc	31	37.30	0.1
MDSJ	2.53	144	Pc	31	40.80	1.0
KOT	4.39	212	ePn	32	04.50	-1.7
			eSn	32	51.50	
DHLJ	4.51	232	Pd	31	45.80	-22.0X

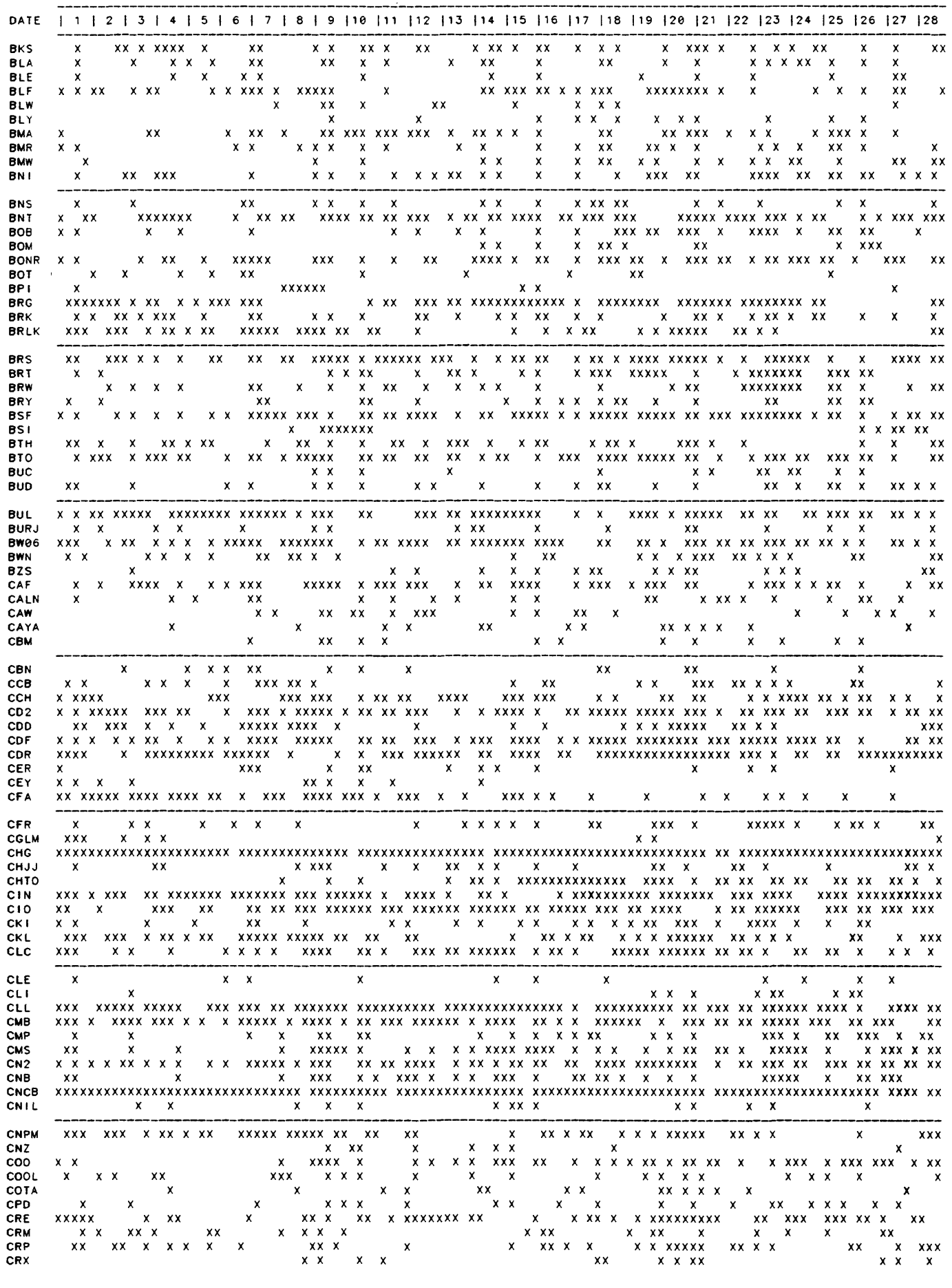
S.D. = 1.2 on 8 of 9 obs.

STATION DATA REPORT FOR FEBRUARY, 1991

1316 stations reported 54420 reading arrival groups

X = data received for this 6-hour time period

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CAF
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CBN
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CCH
CD2
CDD
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CDR
CER
CEY
CFA
CFR
CGLM
CHG
CHJJ
CHTO
CIN
CIO
CKI
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CLI
CLL
CMB
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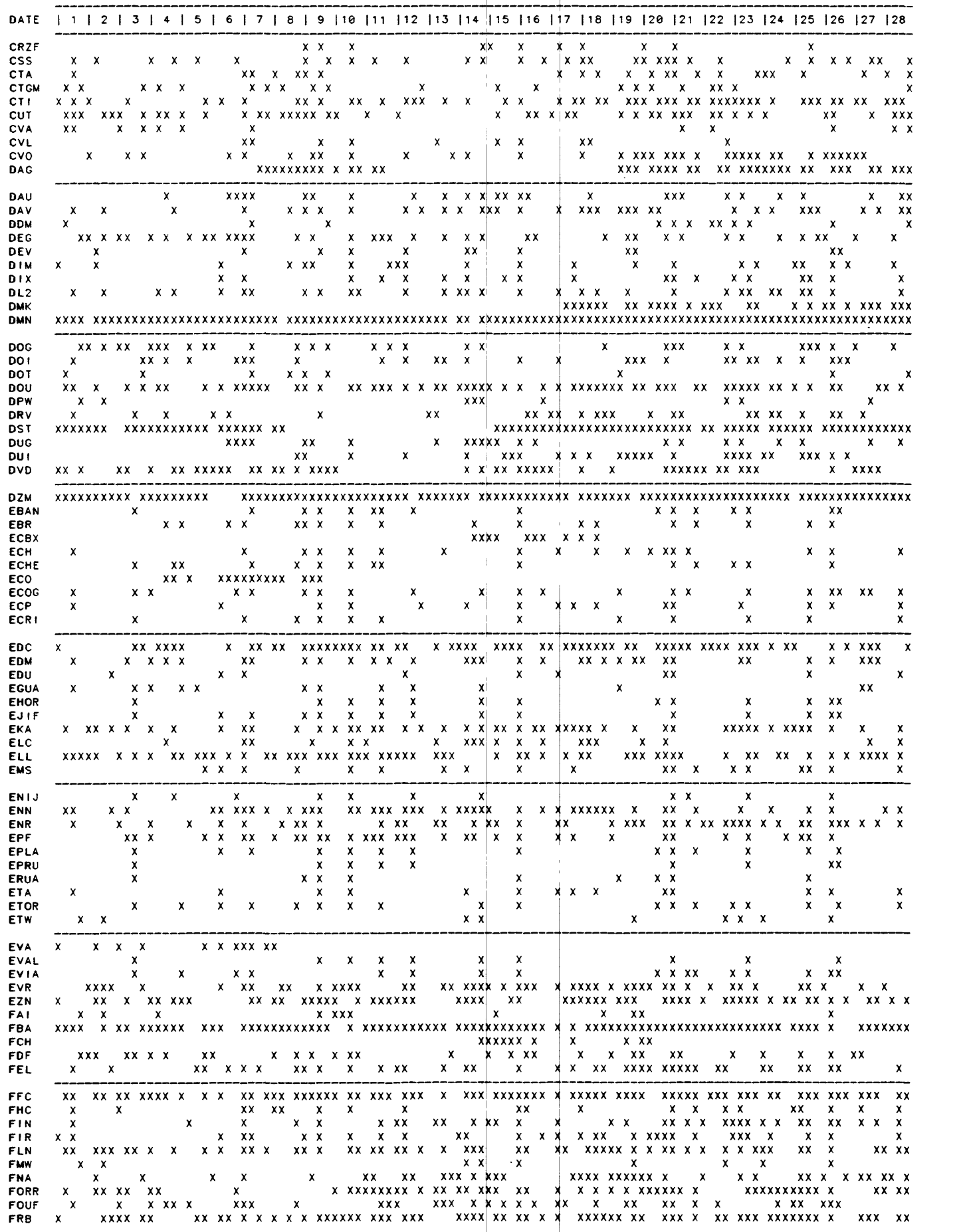
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CRZF
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DOG
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DUI
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EBAN
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ECOG
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EHOR
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EKA
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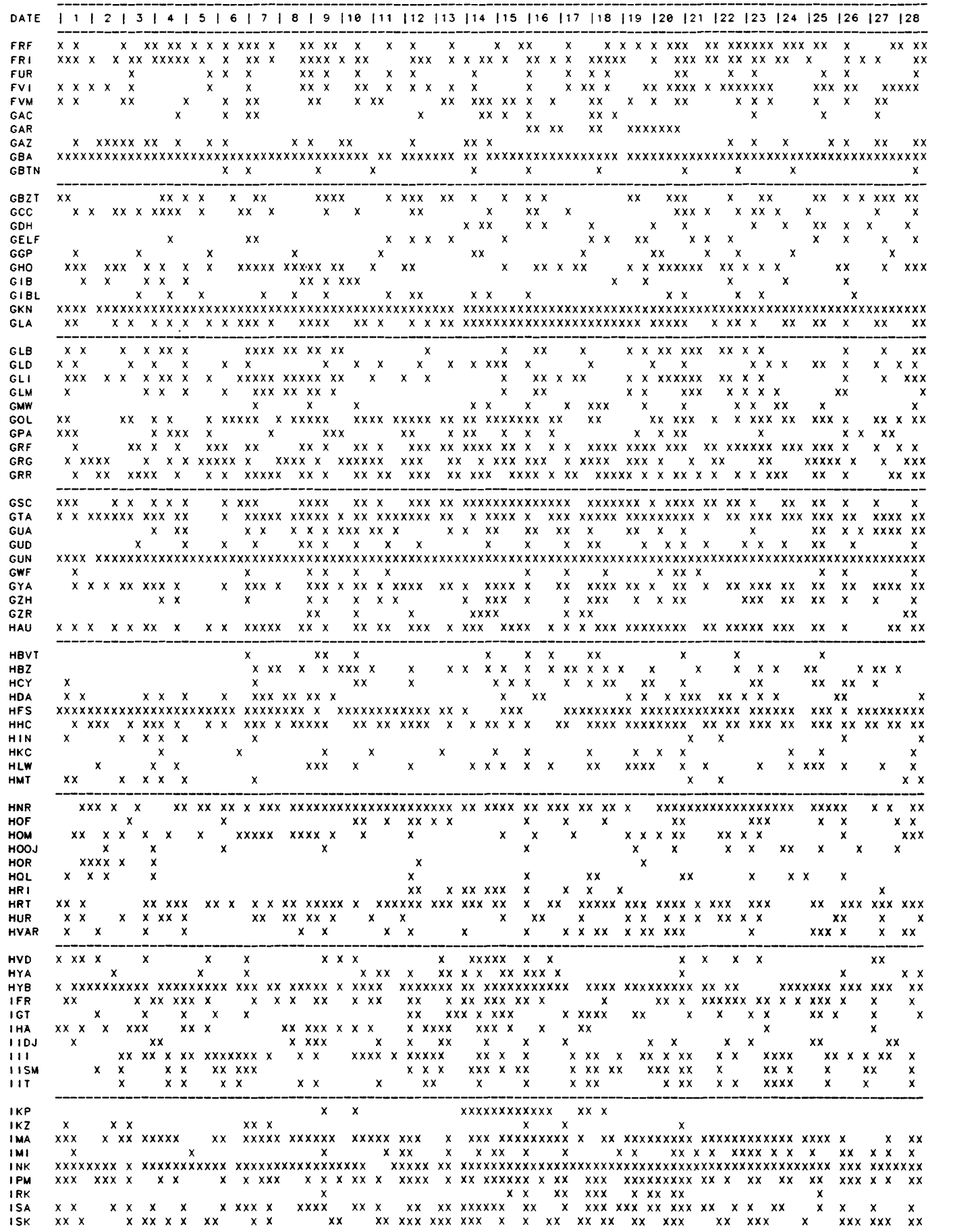
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GBZT
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GELF
GGP
GHO
GIB
GIBL
GKN
GLA
GLB
GLD
GLI
GLM
GMW
GOL
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GRG
GRR
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GUA
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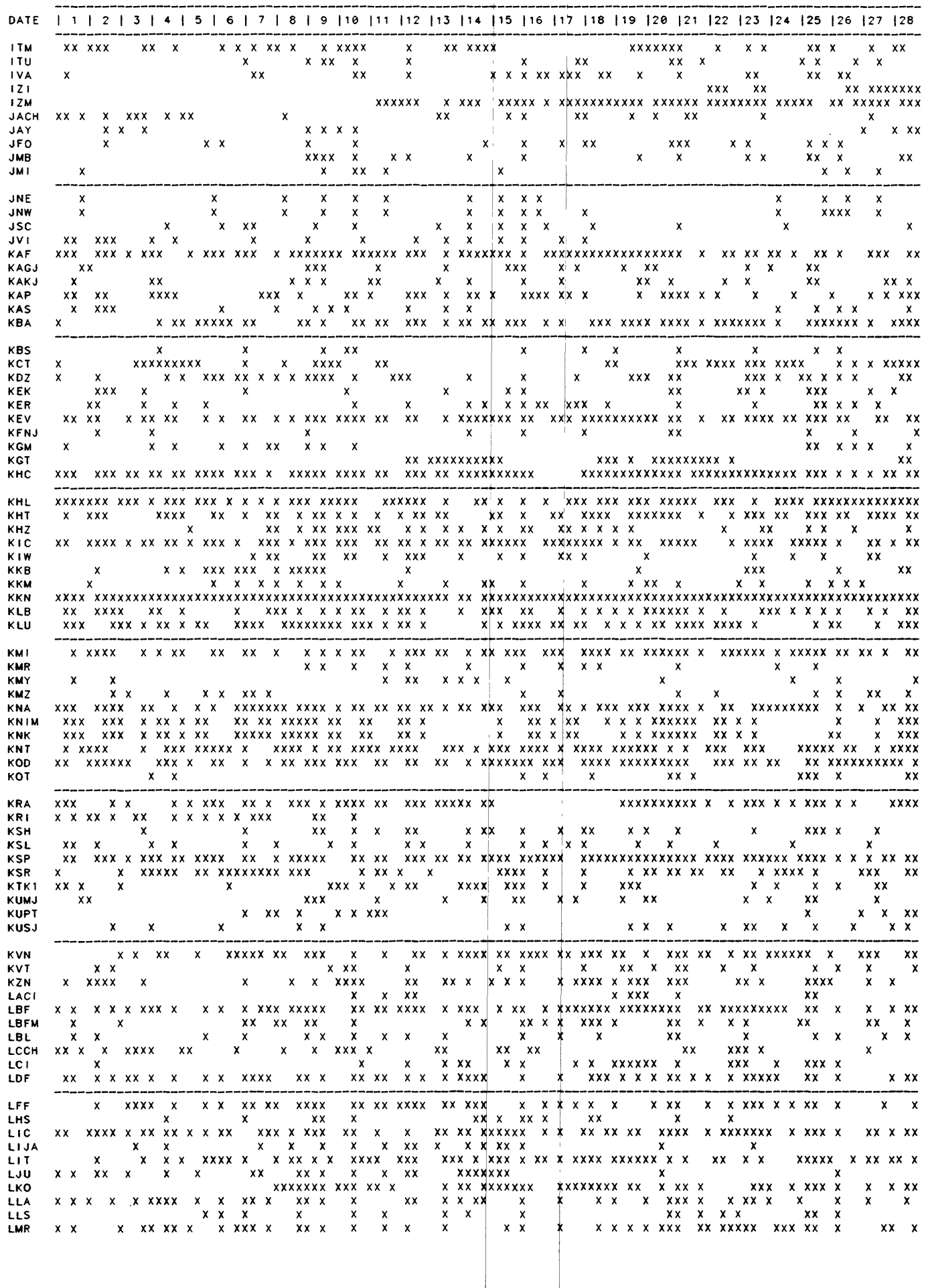
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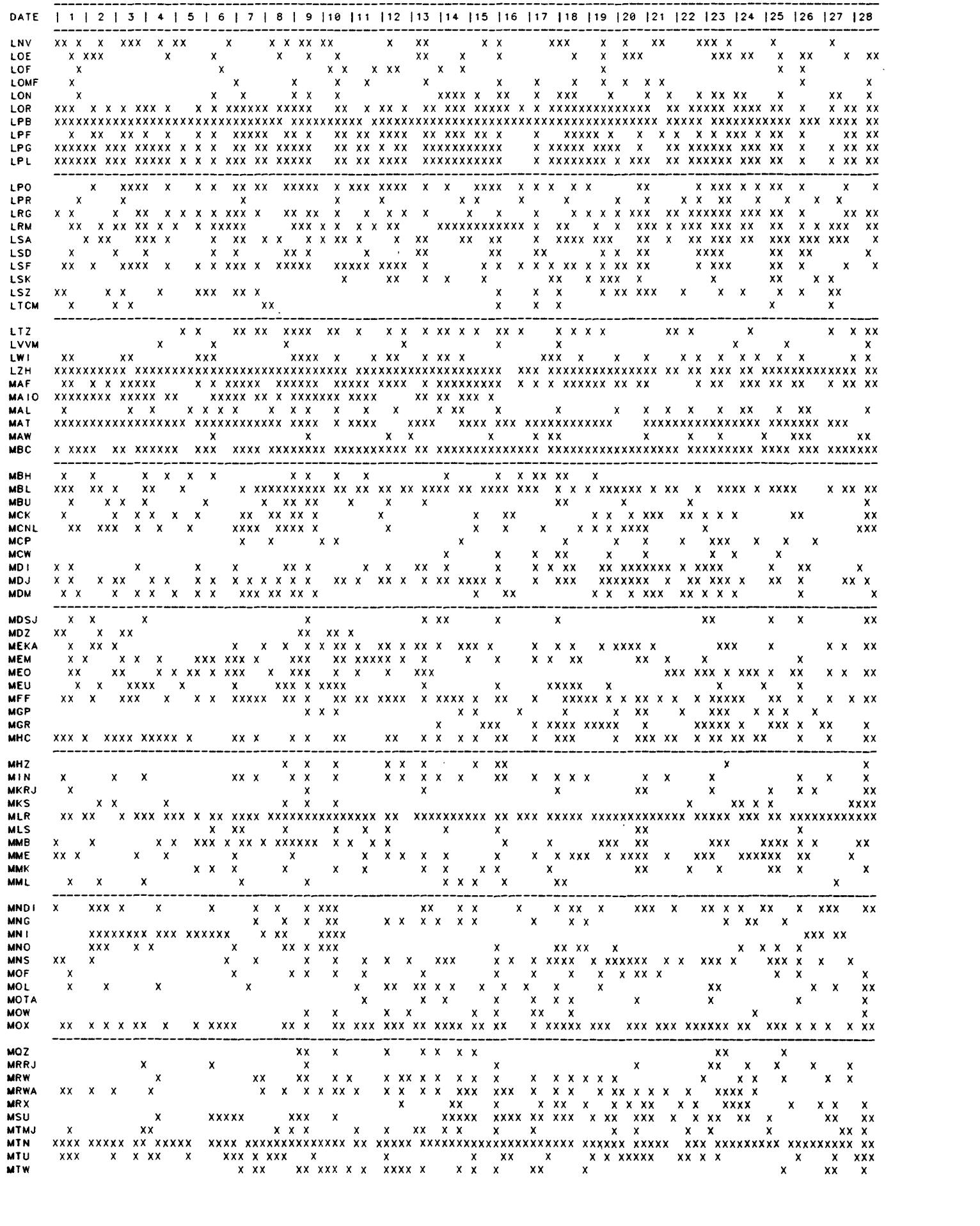

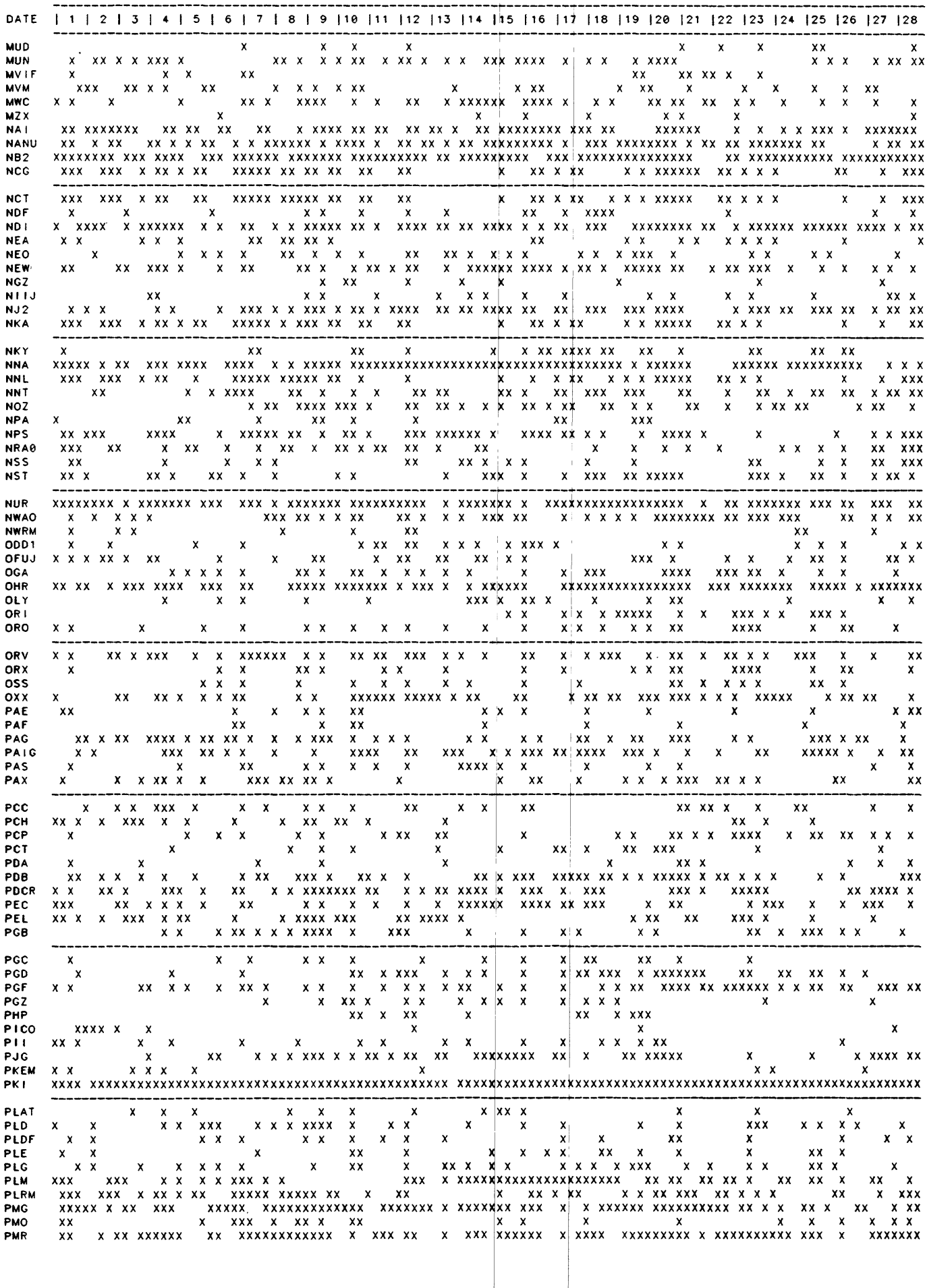
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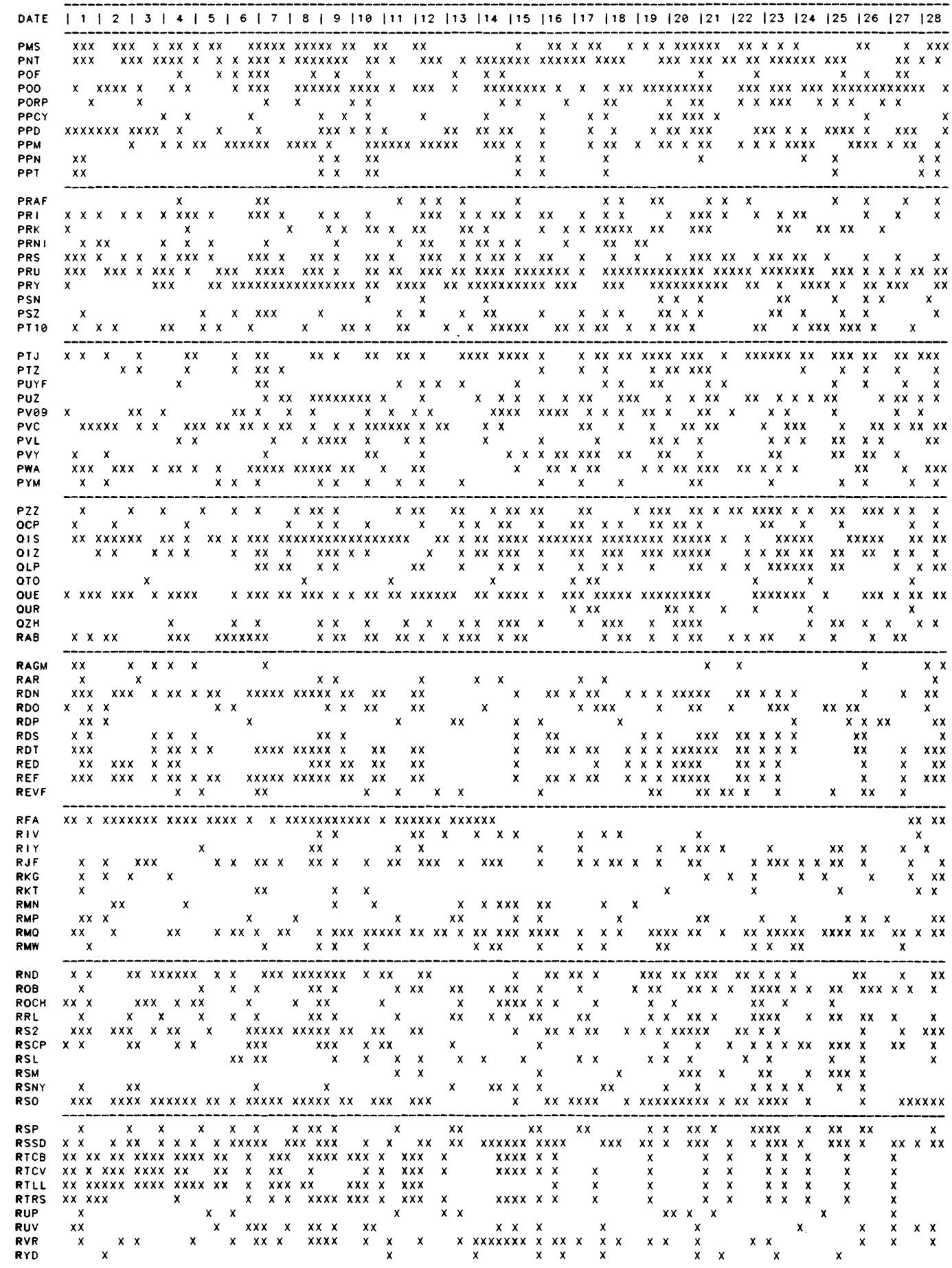
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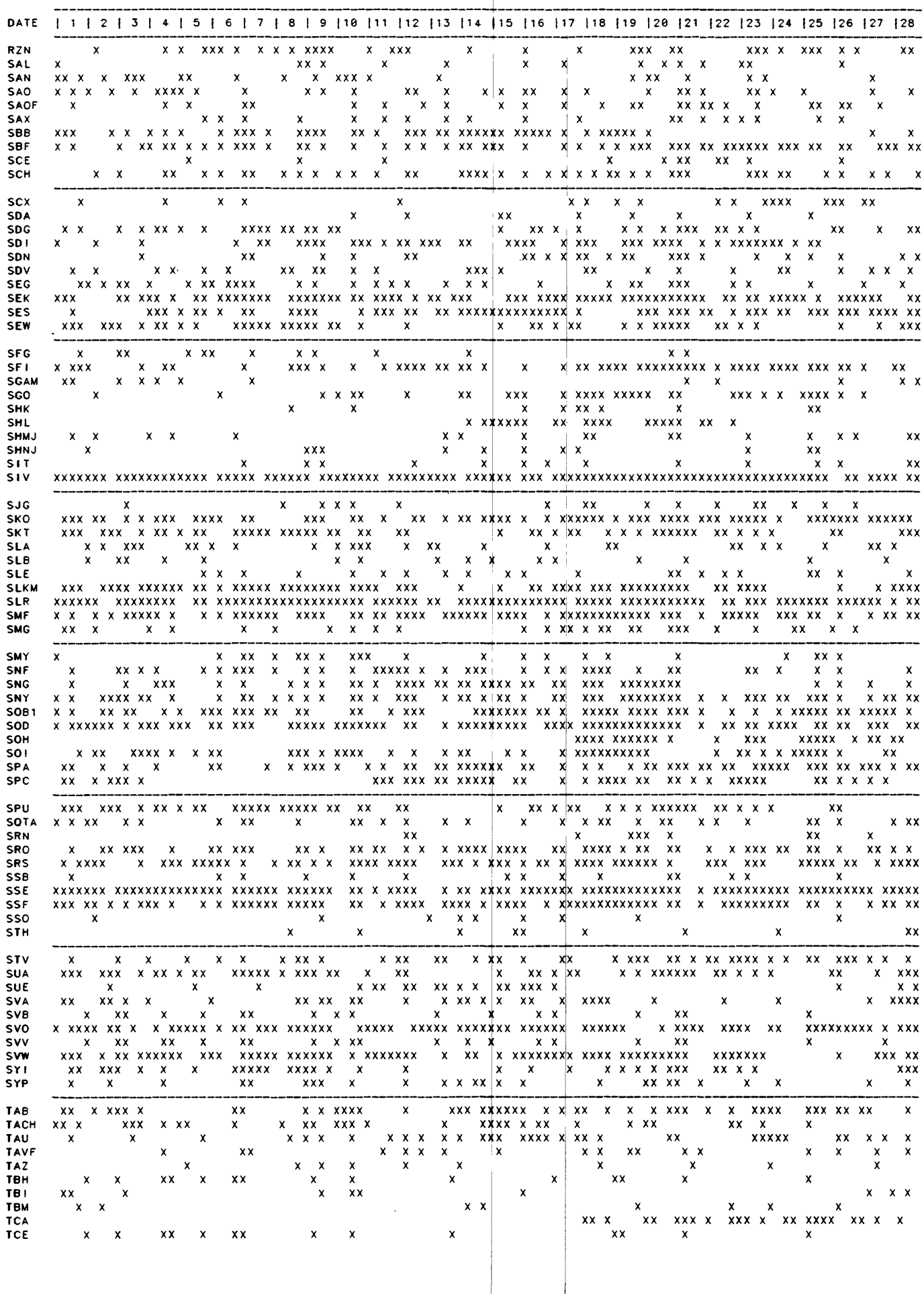
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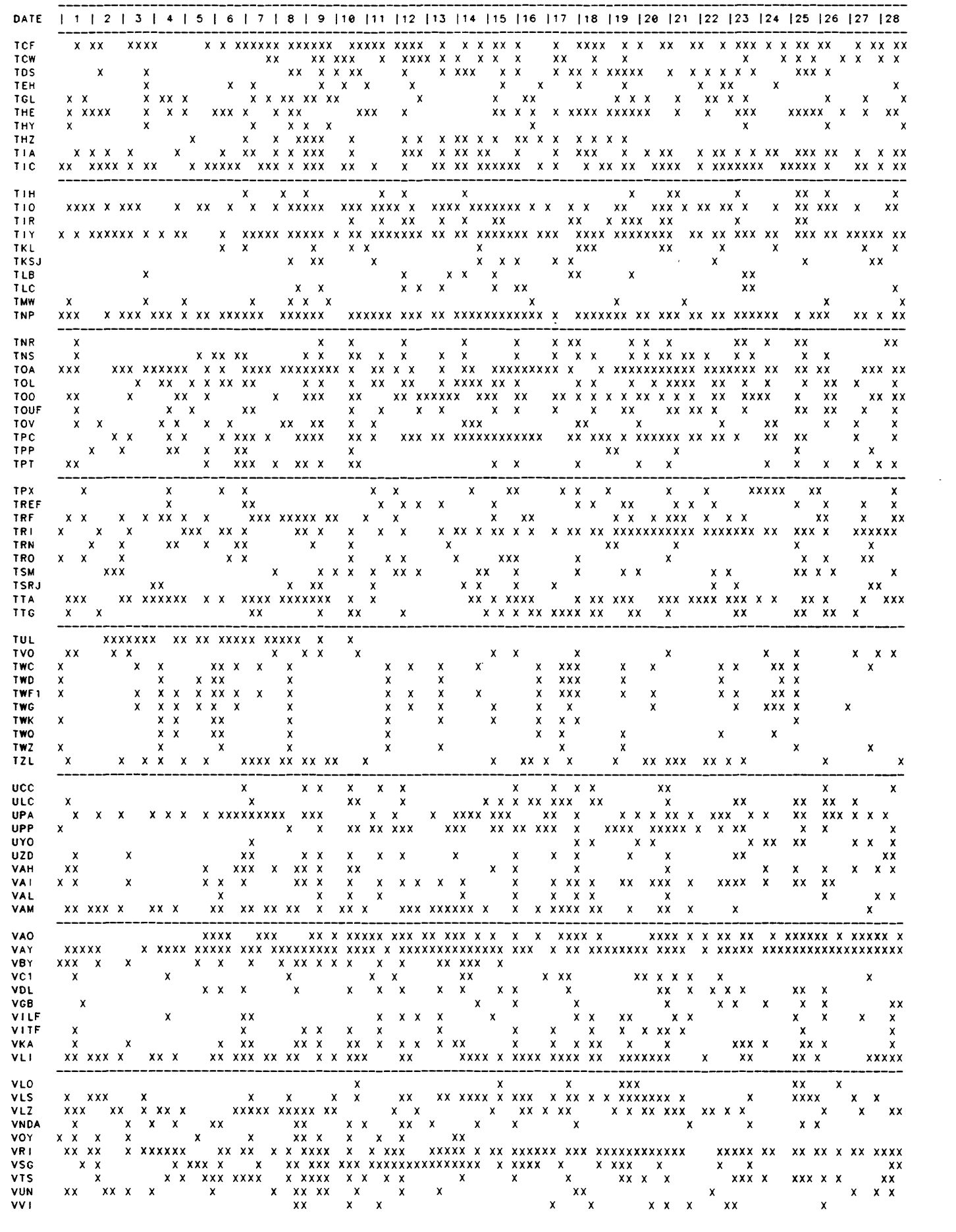
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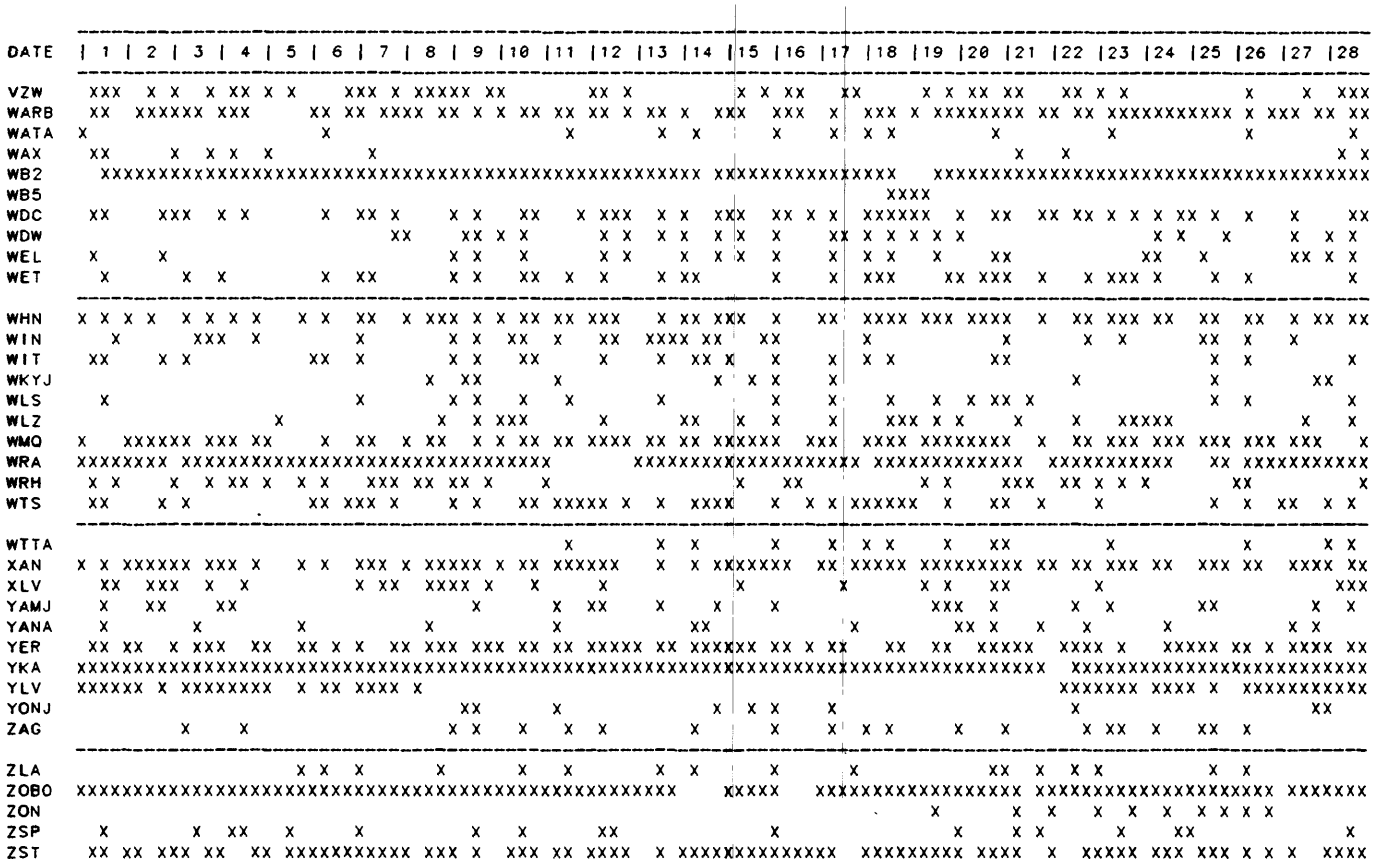

The following stations each reported less than 10 reodings:

AAHD	ABHA	ACTN	ACU	ADH	ADI	AFIF	AGAL	AGMR	AGO	AKRL	AKSR	ALB	ALJ	AMO	ANCC	ANGL	APA
APM	APO	APW	ARO	ASR	ASW	ATA	ATE	ATZ	AUP	BBB	BBJ	BBU	BCI	BCPM	BDF	BEE	BEI
BGM	BGMT	BIB	BIX	BKB2	BKR	BLH	BLN	BLP	BMG	BNH	BOG	BOH	BPA	BRD	BRL	BRN	BRVW
BSD	BST	BTB	BTG	BUC1	BUT	BVA	BVW	CALA	CAR	CBB	CBD	CBSW	CBX	CCM	CCU	CCW	CDFW
CEI	CEOS	CFTV	CGP	CGX	CHH	CHIE	CHO	CIS	CLMC	CLN4	CLNB	CLO	COI	COL	COLM	COP	COR
COZ	CPBX	CPE	CPW	CRF	CRNM	CROR	CTFE	CUMC	CUSS	CVP	CVT	CZM	DBCT	DBN	DBO	DHJN	DHLJ
DHW2	DLA	DLM	DON	DPMT	DRA	DRZ	DSH	DSI	DSVT	DWM	EAB	EALH	EAU	EBG	EBH	EBI	EBL
ECD	EDB	EDI	EDR	EGRA	EHUE	EKR	ELF	ELO	ELYF	EMEL	EMM	EMON	EMX	ENX	EPH	EPT	ERC
ERK	ESCF	ESD	ESEL	ESK	ESY	ET3	ETB	ETER	EZAM	FAM	FCV	FL2	FOO	FOX	FRO	FRU	FUG
FUO	GBL	GCG	GDR	GGC	GHW	GHZJ	GL2	GLH	GLK	GMO	GMTN	GRA4	GRB1	GRC	GRC1	GRI	GRN
GRO	GRW	GSH	GSM	GT2	GULW	GUMO	HATI	HATZ	HAY	HBF	HBMT	HDW	HIA	HITZ	HNB	HOBC	HOJ
HON	HOQC	HPI	HQN	HRV	HRY	HSO	HSR	HTW	HUG	HUTZ	HYF	IAS	IIA	ILT	IMW	ISSF	ITB
ITB1	ITB7	JARJ	JAU	JBO	JCW	JHP	JLK	JRDJ	KAN	KBB	KBN	KBR	KCHT	KETZ	KIP	KIR	KKS
KLL	KLM	KMOR	KMSA	KMTA	KOE	KONO	KOSW	KRO	KSU	LDMO	LDN	LFU	LHE	LISJ	LLAV	LMW	LNOR
LOCW	LOM	LPA	LTI	LTMT	LTX	LVNJ	LVP	MADF	MAJO	MAO	MAP	MASJ	MBO	MBW	MCMT	MCO	MCT
MDN	MDW	MEMT	MEW	MEX	MFTN	MGB	MGG	MHA	MID	MIM	MJ2	MKT	MMCZ	MNZ	MOH	MOMI	MORO
MOS	MOT	MSG	MSI	MSJ	MSZ	MTMW	MTUR	MTX	MXC	NA2	NAB	NAC	NAH	NAV	NDE	NEV	NEZ
NLO	NLW	NMMO	NRI	NRMS	OBC	OBN	OBO	OD2	OFK	OGE	OGTN	OHTN	OHW	OJEN	OLLA	ONR	OOW
OPA	OPT	OSD	OSG	OSP	OT2	OTR	OVA	OZB	PATW	PBX	PCJ	PET	PFB	PGA	PGO	PGP	PGW
PHAM	PHC	PIP	PNJ	PNL	PPE	PPR	PRM	PRW	PSO	PTI	PTO	PTS	PTT	PUK	PUL	PURC	PWLA
PZI	QASM	QTRJ	QUIL	RAO	RATZ	RC1	RDX	REC	REMR	REY	RFI	RGS	RPW	RS1	RSW	RTY	RUWJ
RVC	RVW	SALJ	SAP	SAW	SBA	SBC	SBG	SCI	SCM	SCP	SEL	SFTX	SGH	SGS	SHB	SHBJ	SHW
SILC	SIM	SJAS	SLKI	SLL	SLM	SLP	SLW	SML	SMNM	SMW	SNB	SNZO	SOA	SOG2	SONG	SOSW	SPJ
SPW	SPX	SRAT	SRE	SRG	STB	STD	STK	STR	STS	STU	STW	SURF	SXM	SZP	TAG	TATO	TBR
TBT	TDD	TDL	TER	TIK	TIM	TLE	TME	TMP	TOD	TPE	TTH	TUH	TUNG	TWM1	TWW	TXNY	UAV
UNM	USI	UTU	UZH	VBEM	VDB	VFP	VGZ	VIPM	VLL	VLMM	VSS	VTG	VTHM	WAH2	WAJH	WG3	WGAR
WHB	WHH	WIW	WLF	WPB	WPW	WRD	WRG	WTV	WVLY	YAH	YAKW	YHJ	YKU	YSS	YYYY	ZGN	ZNT