UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

EARTHQUAKE DATA REPORT

SEPTEMBER 1991

by

U.S. Geological Survey

NATIONAL EARTHQUAKE INFORMATION CENTER[1]

Open File Report 91-609-A

1991

---

[1]USGS, Denver, Colorado

EDR No. 9-91
Part 1 of 2
P. 1-136

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.

EDR No. 9-91
Part 2 of 2
P. 137-273

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.

? SEP 01, 1991 00h 07m 27 62± 3.79s
3.802 N ±15.9km 76.964 W ±36 2km
DEPTH = 33.0km (normal)
COLOMBIA (103)
MD 2.6 (UVC).

ANCC	0.30	161	iPd	07 35.54	0.1
			eS	07 41.40	
HOQC	0.47	135	ePc	07 37.82	-0.2
BUGC	0.71	83	eP	07 41.58	0.3
			eS	07 52.00	
HOBC	0.99	56	eP	07 45.21	-0.2
			eS	07 58 30	

S.D. = 0.4 on 4 of 4 obs

% SEP 01, 1991 00h 36m 20 12± 0.84s
42.997 N ± 6.7km 12.983 E ±10 4km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

ASS	0.25	287	Pc	36 25 60	0.2
			eSg	36 30 10	
ARV	0.50	357	P	36 29 60	-0.7
			eSg	36 37 90	
MNS	0.65	200	P	36 32.20	-0.9
			eSg	36 42 70	
AQU	0.71	154	P	36 34 00	-0.2
PGD	1.27	314	P	36 44 50	0.7
SDI	1.43	154	P	36 47 20	1.0

S.D. = 1.0 on 6 of 6 obs

SEP 01, 1991 01h 00m 46 41± 1 33s
37.059 N ± 5 8km 8.791 W ±12.9km
DEPTH = 33.0km (normal)
PORTUGAL (376)
mbLg 3.3 (MDD). MD 3.1 (RBA).

EVAL	1.71	72	iPnc	01 15.80	1.4
			eSn	01 31.60	
EJIF	2 74	102	ePn	01 30.06	1.1
			eSn	01 58.20	
EPRU	2.85	91	iPnc	01 30.98	0.4
			eSn	01 59.60	
EHOR	2.92	74	ePn	01 31.70	0.1
			eSn	02 02 10	
EPLA	3.68	34	ePn	01 43 21	0.9
			eSn	02 22.40	
AVE	3.92	163	iPn	01 46.50	0.7
			iSn	02 29.00	
EBAN	4.12	73	ePn	01 48.25	-0.5
			eSn	02 30.30	
ECOG	4.18	85	ePn	01 48.97	-0.6
			eSn	02 32 90	
AFC	4.20	86	ePn	01 49 81	0.0
			eSn	02 34 20	
IFR	4 63	139	iPn	01 56 00	-0.1
			iSn	02 43 00	
TOL	4.67	51	ePn	01 57.00	0.6
			eSn	02 47 00	
			eSb	03 00 00	
			eSg	03 20 00	
EHUE	4.99	79	ePn	02 00 06	-1.0
			eSn	02 52.40	
GUD	5.09	44	ePn	02 02.10	-0.4
			eSn	02 56.20	
EVIA	5.22	71	ePn	02 02.82	-1.5
			eSn	02 57.30	
ENIJ	5.27	89	ePn	02 05.11	0.2
			eSn	02 59.40	
TIO	6.25	168	iPn	02 18.00	-0.8
			iSn	03 24.50	
ETOR	6.45	52	ePn	02 21.71	0.0
			eSn	03 28.10	
ECRI	7.35	39	ePn	02 33.76	-0.4
			eSn	03 50.90	

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

SEP 01, 1991 01h 16m 03.25± 0 36s
45.474 N ± 2.4km 26.916 E ± 2 2km
DEPTH = 34 6 ± 4.3 km
4.8mb (45 obs.) 4.8Msz (4 obs.)
ROMANIA (358)
Felt (V) at Rimnicu Sorot and (IV) at Bucharest Felt (IV) in northeastern Bulgaria.

VRI	0 42	341	iPd	16 12.00	-0.7
MLR	0.68	272	iPd	16 17.00	0.4
BAC	1.09	359	iPc	16 20.50	-1.8
BUC	1.21	209	iPc	16 24.50	0.5
PTT	1.51	346	iPd	16 27 50	-0 8
IAS	1.78	14	ePc	16 32 00	-0.1
MDB	1.89	292	iPd	16 35.00	1.2
PSN	2.01	153	iPc	16 51.00	15.6X
DRA	2.05	248	iPc	16 40.00	4.0X
DEV	2.84	280	iPd	16 49.00	1.7
BMR	3.22	314	ePd	16 53.00	0.3
DIM	3.57	197	iP	16 54.00	-3.5X
DMK	3.70	170	iPn	16 58.80	-0.7
SSR	3.71	262	iPd	17 03.00	3.4X
VTS	3.93	224	iP	17 02.00	-0.9
KDZ	3.97	196	iPc	17 13.00	9.6X
TIM	4.01	276	iPd	17 05 00	1.2
RZN	4.11	204	iPc	17 05.00	-0.4
RDO	4.44	194	iPc	17 10.00	0.0
CTT	4.46	165	iPn	17 09.90	-0.4
MMB	4.52	212	iPc	17 11.00	-0.2
KKB	4.55	219	iPc	17 11.00	-0.6
BEO	4.62	264	ePn	17 12.00	-0.4
			iPg	17 29.00	
			iSg	18 31.40	
ALN	4.62	188	iP	17 12.94	0.5
ITU	4.63	160	iPnd	17 13.00	0.4
			iSg	18 36.00	
ISK	4.68	160	iPn	17 12.90	-0.4
MFT	4.69	177	iPn	17 12.90	-0.7
SRS	4.98	210	eP	17 17.62	-0.1
GBZT	5.03	158	ePn	17 18.60	0.2
			iSg	18 14.30	
EDC	5.17	172	iPn	17 20.00	-0.3
KNT	5.21	216	eP	17 20.62	-0.3
VAY	5.22	219	Pn	17 20.60	-0.4
			i	18 35.00	
			i	18 48.70	
YLV	5.22	159	ePn	17 20.40	-0.8
SKO	5.29	231	iPn	17 21.00	-1.0
			i	17 24.00	
			i	17 30.00	
			i	17 38.00	
SOH	5.33	211	eP	17 22.46	-0.1
PSZ	5.41	299	iPnc	17 22.10	-1.7
IZI	5.47	159	ePn	17 23.90	-0.6
OUR	5.57	204	eP	17 25.06	-0.8
GRG	5.59	218	eP	17 25.46	-0.8
THE	5.64	212	eP	17 26.34	-0.5
EZN	5.66	185	iPn	17 26.70	-0.5
BUD	5.81	293	eP	17 28.00	-1.3
SPC	5.86	312	i(Pn)	17 29.20	-1 0
			i	17 33.90	
			i	18 32.00	
UZD	5.91	284	ePn	17 30.00	-0.7
DST	6.00	167	iPn	17 31.00	-1.1
PAIG	6.03	204	eP	17 30.70	-1.8
FNA	6.20	223	iP	17 34.94	0.1
OHR	6.24	228	iPn	17 33.20	-2.2
PRK	6.24	185	eP	17 36.00	0.6
LIT	6.28	213	eP	17 35.10	-0.8
SRO	6.37	295	iPn	17 35.80	-1.3
			i	18 16.60	
			i	18 53.90	
			i	19 20.20	
KZN	6.40	218	iPd	17 37.00	-0.7
KAS	6.46	127	iPd	17 37.80	-0.7
KRA	6.57	317	eP	17 38.40	-1.5
	0.9s		96.00nm		5.6mb X
Z	14s		11.90um		
E	14s		9.30um		
			i	17 44.60	
IZM	7.08	178	ePn	17 45.80	-1.3
BBTK	7.09	141	iPd	17 46.00	-1.3
			iS	19 03.00	
ZST	7.26	296	iP	17 47.00	-2.7
			i	17 58.50	
			i	18 05.60	
			i	18 42.40	
			i	19 24.20	
AGG	7 29	209	iP	17 47.06	-3.0X
KHL	7 40	164	iPn	17 51.50	-0.3
ZAG	7 67	276	eP	17 56.00	0.6
IGT	7 67	222	eP	17 56.50	1.1
VKA	7 78	295	eP	17 54.50	-2.5
	2 2s	296	00nm		5 9mb X
			ic	17 55 40	
			i	18 51.20	
			e	19 52.00	
			i	20 16.40	
			i	22 30 20	
HVAR	7 85	257	iPn	18 00.80	2.9X
			iSn	19 24 70	
VBY	8.19	274	ePn	18 04 00	1.3
YER	8.39	172	ePn	18 01 00	-4.6X
LJU	8.68	278	ePn	18 10.00	0.6
			eSn	19 48 00	
CEY	8.76	276	ePn	18 11 50	0.9
			eSn	18 44 50	
RIY	8.82	274	e(Pn)	18 12.90	1.6
KSP	8.90	311	iPd	18 10 00	-2.4
	1.2s		91.00nm		5.8mb X
ELL	9.00	164	iP	18 15.00	1.0
VOY	9.12	278	ePn	18 16.10	0.5
			e(Sn)	19 56 00	
KMR	9.15	291	iP+	18 16 70	0.8
TRI	9.23	276	iPd	18 18.00	1.1
			i	20 52.00	
			i	21 40.00	
PRU	9.48	303	P	18 18 40	-2.0
Z	12s		4.00um		
E	14s		5.70um		
			e	18 30.90	
			S	20 02.90	
KBA	9.54	285	iPc	18 22.40	1.0
	2.1s		214.00nm		6.0mb X
			i	18 30.90	
ROI	9.65	236	P	18 22.40	-0.4
TDS	9.73	237	P	18 23.60	-0.2
KHC	9.77	297	iPc	18 23.20	-1.3
	1.2s		45.00nm		5.6mb X
Z	11s		11.30um		
N	11s		2.00um		
E	11s		9.00um		
			i	18 25.00	
			i	18 38.70	
MMN	9.79	239	P	18 25.50	0.9
DUI	9.81	252	P	18 24.40	-0.7
SGO	9.82	244	P	18 23.50	-1.5
FVI	9.90	282	P	18 28.10	2.0
MGR	9.90	241	P	18 27.10	0.8
BHG	9.92	288	eP	18 27.40	0.9
CZI	10.13	236	P	18 29.00	-0.4
VVI	10.15	278	P	18 30.13	0.5
BRG	10.20	307	iP	18 28.60	-1.8
	1.9s		130.00nm		5.8mb X
			e	18 37.00	
WET	10.21	296	iPc	18 31.00	0.4
SDI	10.22	253	P	18 29.90	-0.8
AQU	10.24	257	P	18 30.80	-0.1
GRI	10.24	233	P	18 33.38	2.5
AZI	10.36	255	P	18 33.10	0.6
CTI	10.69	279	P	18 37.50	0.4
WTTA	10.71	285	iPc	18 38.60	1.1
	1.4s		218.00nm		6.2mb X
			i	18 47.10	
			i	20 33.70	
			i	22 03.70	
			i	22 23.90	
MNS	10.72	258	P	18 38.30	0 8
SFI	10.84	267	P	18 40.80	1.8
CRE	10.84	266	P	18 38 60	-0.6
RMP	10.93	255	P	18 42.04	1.7
CLL	10.93	307	iPd	18 38.00	-2.3
	2.1s		140.00nm		5.8mb X
			eS	21 17 00	
PGD	10.94	267	P	18 40.77	0.2
RDP	10.94	255	P	18 42 20	1.7
SOI	10.97	231	P	18 39 40	-1.4
GMB	11.01	232	P	18 44 04	2.6
OGA	11.11	283	eP	18 44 10	1.1
HOF	11.19	301	eP	18 42 80	-1.1
ATN	11.24	233	P	18 44 40	-0.1
LFK	11.36	151	eP	18 48 00	1.8
PPCY	11 36	157	eP	18 46.00	-0.1
BRN	11 37	313	ePc	18 44 50	-1.7
OBN	11 44	29	eP	18 42.00	-5.2X
	1.0s	*******	nm		8.5mb X
Z	16s		5 30um		
N	16s		4.00um		
E	13s		3.20um		
			iPP	18 52 00	
			eS	20 41.00	
			eSS	20 58 00	

01d 01h

			eSSS	21	11.00				1.3s	50.55nm		4.5mb		LIJA	25.66	262	eP	21	30.50	-1.0
MOX	11.47	302	iPn	18	46.20	-1.4	SNF	15.94	297	iPc	19	47.12	0.7	ALJ	25.90	262	eP	21	31.50	-2.3
	1.7s	100.00nm				5.7mb X	UCC	15.95	298	P	19	47.90	1.5	GIBL	26.07	262	eP	21	30.00	-5.2X
Z	16s	4.60um								S	23	01.00		PTO	26.07	273	eP	21	35.50	0.4
N	16s	5.10um					HLW	15.97	166	eP	19	43.00	-3 9X	MAIO	26.13	99	eP	21	38.00	2.1
E	16s	3.20um					LOR	16.01	285	eP	19	47.80	0.5	EVAL	26.26	264	eP	21	34.48	-2.4
CSS	11.58	153	eP	18	48.00	-1 2		1.1s	48.85nm			4.5mb		PLAT	26 29	261	eP	21	29.50	-7.7X
MME	11.59	269	P	18	48.70	-0.8	Z	15s	7.25um					CNIL	26.37	261	eP	21	30.00	-7.9X
BDI	11.69	269	P	18	51.70	1.0	SMF	16.05	282	eP	19	48.40	0.5	IFR	27.28	255	iP	21	51.00	4.5X
OSS	11.72	282	ePd	18	52.50	1.4		1.2s	59.50nm			4.6mb		AVE	28.97	257	eP	22	20.00	18.5X
PII	11.82	267	P	18	52.10	-0.2	TAB	16.24	110	eP	19	53.00	2.6	TIO	30.27	253	iPc	22	12.50	-0.9
GIB	12.18	237	P	18	58.40	1.1	SSF	16.26	284	eP	19	50.60	0.1	GAR	32.47	86	eP	22	33.60	1.1
VDL	12.18	281	ePd	18	59.60	2.2		1.4s	106.75nm			4.8mb					e	28	08.00	
BSD	12.31	326	iPc	18	53.90	-4.9X	AVF	16.38	283	eP	19	51.90	-0.1				e	32	31.20	
	1.0s	2.20nm				4.2mb X		1.1s	35.40nm			4.4mb					e	37	20.00	
TMA	12.61	279	ePd	19	05.30	2.2	HFS	16.67	336	eP	19	50.50	-5.0X				e	39	26.00	
SLE	12.87	287	ePd	19	06.40	0.0		0.6s	24.90nm			4.5mb					e	40	53.00	
ZLA	12.93	286	ePd	19	07.30	0.1	Z	16s	3.56um					QUE	34.72	102	e(P)	22	52.00	-0.2
PCP	13.04	272	P	19	13.77	5.1X				LR	26	05.00		KSH	36.23	82	eP	23	07.00	2.2
PGF	13.22	264	eP	19	16.60	5.4X	KAF	16.68	359	iP	19	48.00	-7.6X	E	14s	2.50um				
	1 0s	40.00nm				5.4mb X	BGF	16.74	282	eP	19	56.50	-0.1	WMO	42.36	70	P	23	57.10	1.5
CKI	13.25	272	P	19	13.20	1.9		1.3s	95.65nm			4.8mb			0.6s	10.00nm				4.7mb
FIN	13.34	271	P	19	15.01	2.4	MBH	16.88	155	eP	20	01.50	3.0X	Z	20s	1.20um				4.8Msz
ROB	13.56	272	P	19	18.80	3.3X	MAF	16.97	281	eP	19	59.90	0.4			PP		25	39.50	
IMI	13.63	270	P	19	18.39	1.9		1.4s	65.35nm			4.6mb				ScP		29	37.00	
DIX	13.63	280	ePd	19	19.60	2.9X	SLY	17.19	119	eP	20	03.00	0.8	LKO	45.38	228	P	24	18.62	-1.6
COP	13.72	323	iPc	19	13.00	-4.5X				e	20	28.00			0.7s	18.50nm				5.1mb
	1.1s	354.43nm				6.1mb X	TCF	17.21	282	eP	20	02.60	0.1	LWI	47.53	177	iPd	24	37.70	0.3
CDF	13.73	289	eP	19	14.60	-3.2X		1.6s	99.50nm			4.7mb		TIC	47.56	225	Pd	24	35.60	-1.8
	1.3s	28.90nm				4.9mb X	CAF	17.51	277	eP	20	05.90	-0.3		0.8s	11.50nm				5.0mb
RSP	13.84	276	P	19	22.18	2.9X		1.0s	16.00nm			4.1mb		KIC	47.66	225	Pd	24	36.80	-1.4
LSD	13.87	277	P	19	21.98	2.2	LSF	17.68	282	eP	20	07.90	-0.4		0.7s	17.50nm				5.2mb
BHB	13.88	274	P	19	20.75	1.0		1.4s	113.25nm			4.8mb		LIC	47.92	225	Pd	24	38.74	-1.5
ENR	13.89	272	P	19	22.70	2.8	RJF	17.82	279	eP	20	10.50	0.4		0.7s	17.50nm				5.2mb
STV	13.95	272	P	19	23.31	2.6		1.3s	72.20nm			4.6mb		GKN	48.38	91	P	24	44.64	0.7
HRI	13.96	148	eP	19	20.90	0.1	Z	14s	5.25um					DMN	48.95	91	P	24	49.00	0.6
DOI	13.96	273	P	19	23.50	2.7	NAO	18.07	334	P	20	09.20	-3.7X	KKN	48.97	90	P	24	49.10	0.6
BSF	14.02	287	eP	19	19.80	-1.8		1.3s	37.70nm			4.4mb			0.7s	109 00nm				6.0mb X
	1.4s	82.75nm				5.3mb X	BHD	18.14	126	eP	20	14.50	0.5	PKI	49.19	90	P	24	51.04	0.7
PZZ	14.06	273	P	19	22.59	0.4				ePP	20	37.50		GUN	49.31	90	P	24	52.06	0.7
LPG	14.15	277	eP	19	24.30	0.8				eS	23	45.00		GTA	52.44	69	iPd	25	15.20	0.5
	1.4s	119.80nm				5.4mb X				eSS	24	03.00			1.0s	10.00nm				4.7mb
LPL	14.16	277	eP	19	24.30	0.7	LPO	18.17	277	eP	20	14.30	0.0	Z	22s	1.20um				4.9Msz
	1.0s	53.00nm				5.2mb X		1.6s	136.80nm			4.8mb		E	12s	0.40um				
RRL	14.21	275	P	19	24.85	0.6	LFF	18.43	278	eP	20	16.10	-1.4	GBA	53.05	110	Pd	25	18.30	-1.0
RSL	14.21	278	P	19	24.12	-0.1		1.4s	104.55nm			4.8mb			0.8s	11.20nm				4.9mb
BNS	14.24	300	ePc	19	24.00	-0.4	LDF	18.66	289	eP	20	16.80	-3.5X	KOD	55.56	113	eP	25	37.40	-0.6
	1 5s	60.00nm				5.0mb X		1.0s	74.00nm			4.8mb		MBC	56.64	351	ePc	25	44.70	0.0
Z	12s	7 20um					MFF	18.79	283	eP	20	18.70	-3.3X		1.0s	6.00nm				4.6mb
BNI	14.26	276	P	19	27.60	2.8		1.0s	88.00nm			4.9mb		LZH	56.94	70	eP	25	47.40	-0.1
HAU	14.33	288	eP	19	23.00	-2.5	FLN	18.89	290	eP	20	19.10	-4.1X		1.5s	60.00nm				5.4mb
	1.5s	83.55nm				5.1mb X		1.0s	82.00nm			4.9mb			Z 20s	0.69um				4.8Msz
FRF	14.59	270	eP	19	32.90	4.0X	Z	20s	2.05um					BTO	58.34	63	eP	25	58.00	0.8
	0.9s	54.05nm				5.0mb X	GRR	19.15	289	eP	20	21.70	-4.5X	HHC	59.15	62	P	26	03.40	0.5
WLF	14.62	294	iPc	19	21.26	-8.0X		1.0s	24.00nm			4.4mb			Z 26s	0.70um				4.7MszX
		i		19	28.56		EPF	19.17	272	eP	20	24.30	-2.2		N 16s	0.80um				
LMR	14.74	269	eP	19	35.20	4.3X		1.2s	38.70nm			4.5mb			E 14s	0.40um				
	1.0s	74.00nm				5.0mb X	LPF	19.28	288	eP	20	23.20	-4.6X	CD2	59.94	75	iPd	26	09.20	0.8
WTS	14.76	303	eP	19	34.50	3.4X		1.1s	39.05nm			4.6mb			0.9s	30.00nm				5.4mb
	1.2s	69.00nm				4.9mb X	BTH	19.52	273	eP	20	31.30	0.8	XAN	61.50	69	P	26	19.00	0.1
		e		19	38.50					sP	20	41.10		TIY	61.55	64	Pd	26	19.50	0.2
LRG	14.82	269	eP	19	36.20	4.3X				PP	20	50.30			Z 24s	1.00um				4.9MszX
	1.0s	76.00nm				5.0mb X	BER	19.66	327	eP	20	30.50	-1.3		N 16s	0.50um				
	Z 15s	4.25um					IR7	20.40	110	iPc	20	40.50	0.5			S		34	41.00	
MEM	14.88	298	Pc	19	32.60	-0.1	IR1	20.63	111	iPc	20	43.00	0.7	KRI	62.05	177	iPd	26	24.40	1.6
		i		19	41.11		IR5	20.68	111	eP	20	43.20	0.4	BJI	62.46	60	eP	26	25.50	0.3
ENN	14.97	298	eP	19	34.00	0.2	IR4	20.87	111	iPc	20	45.60	0.8		1.2s	20.00nm				5.1mb
	1 1s	85.00nm				5.0mb	ECRI	21.29	273	eP	20	47.83	-1.1		Z 20s	0.72um				4.8Msz
		e		19	41.00		EKA	21.40	308	Pc	20	49.70	-0.1	KMI	62.86	81	Pd	26	28.50	0.2
JVI	15.03	151	eP	19	35.10	0.3		1.1s	15 80nm			4.3mb			2.0s	90.00nm				5.6mb
WIT	15.12	306	eP	19	40.00	4.3X	ETOR	21.58	268	eP	20	52.06	0.1			pP		26	37.50	29kmX
NUR	15.12	356	iP	19	29.70	-6.1X	SOD	21.95	360	iP	20	54.20	-1.0			sP		26	44.50	
	0.7s	26.70nm				4.6mb	ETA	22.71	301	eP	21	02.70	-0.2	CHG	64.32	89	eP	26	37.30	-0.4
CDR	15.18	271	ePc	19	42.20	5.6X	ECP	22.77	299	eP	21	05.20	1.8		1.0s	23.00nm				5.2mb
MSL	15.24	121	eP	19	39 00	1.5	EVIA	22 80	263	eP	21	04 02	0.0	CHTO	64.32	89	eP	26	37.00	-0.7
		ePP		19	40.00		GUD	23.13	269	eP	21	05.82	-1.4		1.0s	20.50nm				5.2mb
		eS		22	43.00		DMU	23.26	303	eP	21	09 00	0.8	GYA	64.71	77	iPd	26	40.80	0.5
		eLQ		25	20.00		TOL	23 35	267	iPd	21	08.50	-0.8		1.2s	20.00nm				5.1mb
UPP	15.45	342	iP	19	35.20	-4.7X		1.1s	75 95nm			5 1mb				pP		26	50.40	31kmX
		iS		22	06.10		ENIJ	23 40	259	eP	21	10.28	0.6			S		35	16.00	
DOU	15.68	295	P	19	42.40	-0.7	DCN	23 42	302	eP	21	12.60	2.9X	BUL	65.32	178	iPc	26	41.30	-2.8
Z	11s	2.70um					EBAN	23 92	263	eP	21	13.91	-0.8	CN2	65.51	52	Pd	26	45.80	0.7
		S		22	51.00		AFC	24 18	261	eP	21	16.17	-1 3		0 8s	20.00nm				5.3mb
DBN	15.75	303	eP	19	44.00	0 0	ECOG	24 19	261	eP	21	16.25	-1.2			pP		26	54.00	26kmX
Z	16s	4.00um					ERUA	24 61	275	eP	21	20 39	-1.1	INK	65 60	352	eP	26	44.00	-1.2
		e		22	48.00		EPLA	24 71	269	eP	21	20.30	-2.1	SNY	65 73	55	eP	26	45.60	-0.8
LBF	15.94	284	eP	19	47.00	0.5	VAL	25 15	298	eP	21	29 00	2 6	WHN	67 26	69	eP	26	55.50	-0.9

YKA 68.06 342 eP 27 08.00 7.1X
0.6s 1.60nm 4.3mb
WIN 68.30 190 iPd 27 02.50 -0.5
0.7s 10.27nm 5.0mb
NJ2 69.20 65 Pc 27 06.50 -1.9
BFT 70.87 177 iPd 27 19.50 0.7
FSR 70.99 180 eP 27 18.50 -0.9
1.0s 12.00nm 4.9mb
OIZ 71.81 81 eP 27 25.00 0.6
PRY 72.05 179 e(P) 27 24.00 -1.7
FRS 74.88 181 e(P) 27 41.60 -0.3
PSI 75.51 101 ePd 27 46.90 1.0
e 29 40.00
MAT 77.56 50 eP 27 57.00 -0.2
TUL 83.90 317 e(P) 28 31.30 0.6
1.0s 6.00nm 4.7mb
ALO 89.53 323 e(P) 28 57.80 -0.8
BAO 90.79 248 e(P) 28 56.00 -8.3X
S.D. = 1.2 on 230 of 274 obs.

SEP 01, 1991 02h 05m 45.65± 0.57s
40.406 N ± 5.1km 29.233 E ± 4.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YLV 0.19 34 iPg 05 50.00 0.0
eSg 05 55.00
IZI 0.20 111 iPg 05 49.90 -0.1
GBZT 0.42 23 iPgc 05 53.90 -0.2
iSg 05 58.50
ISK 0.67 349 iPg 05 58.90 -0.1
iSg 06 09.90
CTT 0.96 321 iPg 06 03.90 0.0
iSg 06 19.00
EDC 1.05 267 iPg 06 04.50 -0.9
MFT 1.53 285 iPn 06 13.90 0.7
DMK 1.80 322 ePn 06 17.30 0.3
KHL 2.09 174 ePn 06 21.50 0.2
S.D. = 0.5 on 9 of 9 obs.

SEP 01, 1991 02h 17m 58.05± 0.58s
45.664 N ± 4.0km 27 077 E ± 7.5km
DEPTH = 33.0km (normal)
3.4mb (2 obs.)
ROMANIA (358)

MLR 0.81 258 iPd 18 13.00 -0.2
BAC 0.91 352 iPc 18 18.50 4.0X
BUC 1.43 209 iPd 18 29.00 7.1X
MDB 1.94 285 ePc 18 33.00 3.6X
DRA 2.23 245 ePd 18 43.00 9.7X
PVL 2.75 208 iP 18 43.00 2.3
DEV 2.93 276 iPc 18 47.50 4.2X
CEI 3.77 304 eP 19 32.00 36.8X
DMK 3.87 172 ePn 19 09.30 12.6X
PLD 3.95 207 eP 18 58.00 0.2
VTS 4.15 224 eP 19 01.00 0.2
KDZ 4.19 197 iP 19 02.00 0.8
RZN 4.33 204 iPc 19 09.00 5.6X
CTT 4.62 167 ePn 19 07.40 0.0
BEO 4.75 262 ePn 19 07.50 -1.7
KKB 4.77 219 iPc 19 09.00 -0.5
ISK 4.82 162 ePn 19 10.00 -0.1
ALN 4.82 189 ePd 19 19.86 9.7X
MFT 4.88 178 ePn 19 11.90 0.8
SRS 5.21 210 ePc 19 14.90 -0.8
YLV 5.36 161 ePn 19 18.40 0.5
PSZ 5.42 297 ePn 19 20.10 1.3
KNT 5.43 216 iPd 19 18.17 -0.6
VAY 5.44 219 ePn 19 18.00 -0.9
SKO 5.50 230 ePn 19 35.00 15.2X
i 19 52.50
i 20 14.00
SOH 5.55 211 ePc 19 19.90 -0.6
OUR 5.79 204 iPc 20 09.25 45.4X
THE 5.86 212 ePd 19 24.86 0.0
EZN 5.86 186 eP 19 23.90 -1.0
KRA 6.51 315 eP 19 36.60 2.7X
e 19 38.60
KSP 8.86 310 eP 20 07.90 1.1
KHC 9.79 296 eP 20 22.50 2.9X
OBN 11.22 29 eP 20 47.00 8.0X
i 22 41.00
NUR 14.94 355 eP 21 27.60 -0.7
KAF 16.49 359 eP 21 46.50 -1.6
HFS 16.54 336 eP 21 49.50 0.7
0.7s 3.60nm 3.6mb
Z 16s 0.08um
LR 28 06.00
NAO 17.95 334 P 22 07.00 0.7
0.9s 1.40nm 3.1mb
SOD 21.76 360 iP 22 56.80 8.5X
S.D. = 1.0 on 23 of 38 obs.

% SEP 01, 1991 03h 14m 07.01± 0.69s
40.807 N ± 6.8km 27.497 E ± 5.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

MFT 0.16 263 iPg 14 10.40 -0.4
EDC 0.54 149 iPg 14 18.00 0.1
iSg 14 26.00
DMK 1.03 11 iPg 14 26.80 0.3
iSg 14 40.80
EZN 1.33 223 iPn 14 31.90 0.4
YLV 1.45 99 ePn 14 32.90 -0.4
IZI 1.58 107 ePn 14 35.20 0.1
S.D. = 0.5 on 6 of 6 obs.

• SEP 01, 1991 03h 26m 12.96± 1.07s
26.437 N ±18.2km 96.408 E ±12.4km
DEPTH = 33.0km (normal)
MYANMAR (296)

CHG 7.94 162 ePn 28 09.00 0.0
eSg 29 39.00
CHTO 7.94 162 eP 28 09.10 0.1
GUN 9.49 281 P 28 32.00 1.2
PKI 9.87 279 P 28 35.36 -0.7
KKN 10.01 280 P 28 38.04 0.3
DMN 10.15 279 P 28 39.12 -0.6
GKN 10.59 281 P 28 45.50 -0.2
WRA 58.99 138 P 36 12.00 0.1
0.4s 6.50nm 5.1mb
WR2 59.01 138 eP 36 12.40 0.3
0.4s 10.30nm 5.3mb
ASPA 61.61 141 iPc 36 29.30 -0.5
0.6s 5.70nm 4.9mb
HFS 63.88 326 eP 36 59.60 15.2X
0.4s 1.30nm
NAO 65.17 327 P 37 08.60 15.8X
0.6s 0.80nm
S.D. = 0.6 on 10 of 12 obs.

SEP 01, 1991 03h 39m 51.32± 0.43s
45.504 N ± 3.0km 26.951 E ± 4.0km
DEPTH = 51.9 ± 7.1 km
3.9mb (10 obs.)
ROMANIA (358)
Felt (IV) at Rimnicu Sarat and
(III) at Bucharest.

MLR 0.71 269 iPd 40 05.00 -0.5
BAC 1.06 358 iP 40 14.00 3.9X
BUC 1.25 209 iPc 40 14.00 1.3
IAS 1.74 14 eP 40 22.00 2.4
MDB 1.91 290 ePd 40 23.50 1.5
PSN 2.02 154 iP 40 26.00 2.4
DRA 2.08 248 ePd 40 28.00 3.6X
DEV 2.86 279 iPc 40 38.00 2.5
JMB 3.05 185 iPc 40 39.00 0.8
BMR 3.22 314 ePd 40 41.00 0.4
DIM 3.60 197 iP 40 46.00 0.0
DMK 3.73 171 iPn 40 46.80 -1.0
SSR 3.74 262 eP 40 48.00 0.1
PLD 3.77 206 iPc 40 48.00 -0.3
CEI 3.79 307 eP 40 53.00 4.4X
VTS 3.97 224 iPc 40 51.00 -0.3
KDZ 4.01 197 iPc 40 52.00 0.2
TIM 4.03 275 eP 41 36.00 44.1X
RZN 4.15 204 iP 40 54.00 0.2
RDO 4.48 194 iPd 40 58.50 0.3
MMB 4.56 212 iPc 40 59.00 -0.5
KKB 4.59 219 iPc 41 00.00 0.1
BEO 4 64 264 ePn 41 00.50 -0.1
iPg 41 17.50
iSg 42 21 00
ITU 4.65 160 ePn 41 00.00 -0.6
ISK 4.70 160 iPn 41 01.30 -0.1
SRS 5 02 210 ePc 41 05.82 -0.2
GBZT 5.05 158 ePn 41 41.70 35.3X
EDC 5 20 172 iPn 41 08.00 -0.5
YLV 5.24 159 ePn 41 06.40 -2.8
KNT 5.25 216 ePc 41 09.34 0.1
VAY 5.26 219 iPn 41 09.20 -0.1
iSn 42 35.70
SKO 5.33 230 iPn 41 09.80 -0.5
Z 12s 0.54um
SOH 5.37 211 ePc 41 10.70 -0.2
PSZ 5.42 299 iPnc 41 10.90 -0.8
IZI 5.49 159 ePn 41 12.70 0.1
OUR 5.61 204 ePc 41 13.58 -0.6
GRG 5.63 218 ePd 41 14.06 -0.5
THE 5.68 212 ePc 41 14.74 -0.4
EZN 5.69 185 iPn 41 15.40 0.0
BUD 5.82 293 e(P) 41 16.00 -1.2
SPC 5.86 311 i(Pn) 41 17.50 -0.4
i 42 23.70
UZD 5.93 284 ePn 41 20.50 1.8
DST 6.02 168 iPn 41 19.30 -0.8
PAIG 6.07 205 ePc 41 19.94 -0.7
FNA 6.23 223 ePc 41 22.82 -0.2
OHR 6.28 228 ePn 41 22.50 -1.1
LIT 6.32 213 ePd 41 24.46 0.3
SRO 6.38 294 iP 41 24.30 -0.7
i 41 31.70
i 43 36.20
KZN 6.44 218 iPd 41 25.50 -0.4
KAS 6.45 127 eP 41 26.50 0.4
KRA 6.56 316 eP 41 26.20 -1.3
eTT 41 36.00
BBTK 7.09 141 eP 41 35.00 -0.1
iS 42 52.00
IZM 7.10 178 ePn 41 38.00 2.8
ZST 7.27 295 eP 41 35.80 -1.7
e 41 42.60
AGG 7.33 209 ePd 41 37.58 -0.7
KHL 7.43 164 iP 41 40.10 0.4
IGT 7.71 222 ePc 41 45.10 1.5
VKA 7.79 295 e(P) 41 44.00 -0.7
KSP 8.90 311 eP 41 59.00 -1.0
i 42 06.80
i 43 39.40
PRU 9.49 303 eP 42 09.00 1.0
e 42 15.00
eS 43 51.00
KHC 9.78 297 eP 42 12.00 -0.1
e 42 19.00
CZI 10.17 236 P 42 16.80 -0.5
BRG 10.21 306 e(P) 42 17.00 -0.9
e 44 22.00
e 45 25.00
WTTA 10.73 285 e(P) 42 25.00 -0.2
1.4s 27.10nm 5.2mb X
i 42 29.60
CLL 10.93 307 eP 42 30.00 2.3
OBN 11.40 29 eP 42 32.00 -2.0
1.0s ********nm 8.4mb X
Z 14s 0.60um
N 14s 0.50um
iPP 42 39.00
e 42 48.00
iS 44 31.00
e 44 46.00
MOX 11.47 302 eP 42 36.00 1.0
LPG 14.17 277 eP 43 16.10 5.1X
0.6s 3.15nm 4.1mb
LPL 14.18 277 eP 43 16.00 5.0X
NUR 15.09 356 iP 43 18.30 -4.2X
e 43 29.00
LBF 15.96 284 eP 43 38.60 4.9X
1.1s 7.35nm 3.7mb
LOR 16.02 285 eP 43 39.40 4.8X
1.0s 8.00nm 3.8mb
Z 19s 0.15um
SSF 16.27 284 eP 43 42.30 4.6X
1.1s 7.35nm 3.7mb
KAF 16.65 359 eP 43 37.50 -4.8X
HFS 16.65 336 eP 43 38.60 -3.7X
0.5s 3.80nm 3.8mb
Z 16s 0.27um
LR 49 50.00
NAO 18.05 334 P 43 57.50 -2.2
1.0s 7.60nm 3.8mb
LDF 18.67 289 eP 44 07.60 0.3
0.9s 8.20nm 3.9mb
MFF 18.81 283 eP 44 09.40 0.3
1.0s 12.00nm 4.1mb
FLN 18.91 290 eP 44 10.00 -0.2
Z 19s 0.13um
GRR 19.16 289 eP 44 13.30 0.1

01d 03h

```
LPF     19.30 288 eP     44 13.80  -0.8
SOD     21.92 360 iP     44 42.40   1.0
                  i      44 51.80
TOL     23.38 267 eP     44 57.00   1.0
LKO     45.42 228 P      48 07.12   0.4
TIC     47.60 225 P      48 24.70   0.8
KIC     47.70 225 P      48 25.00   0.3
        0.7s      4.00nm          4.5mb
LIC     47.96 225 P      48 27.10   0.4
        0.7s      6.00nm          4.7mb
     S.D. = 1.1  on  74 of  87 obs.
-------------------------------------
*  SEP  01, 1991  04h 52m 30.48± 0.94s
   42.563 N ± 7.5km   21.880 E ±10.4km
   DEPTH =  10.0km  (geophysicist)
 NORTHWESTERN BALKAN REGION       (383)

SKO     0.67 209 iPg     52 44.00   0.1
                 iSg     52 59.90
VTS     0.98  88 iP      52 44.00  -5.2X
KKB     1.13 127 iP      52 51.00  -0.7
VAY     1.34 157 ePn     52 55.60   0.4
KNT     1.59 151 ePc     53 00.96   2.2X
GRG     1.65 166 iPd     52 59.04  -0.6
MMB     1.68 125 iP      53 01.00   0.9
SRS     1.93 138 ePd     53 07.80   4.1X
SOH     2.06 147 ePc     53 09.88   4.3X
SSR     2.30 358 iPc     53 09.00  -0.1
     S.D. = 0.8  on   6 of  10 obs.
-------------------------------------
%  SEP  01, 1991  05h 35m 07.14± 0.73s
   45.539 N ± 6.2km   26.799 E ± 6.8km
   DEPTH =  10.0km  (geophysicist)
 ROMANIA                          (358)

BRD     0.18  97 iPc     35 10.50  -0.7
VRI     0.33 351 ePd     35 14.00  -0.1
ISR     0.44 204 iPd     35 16.60   0.5
MLR     0 60 266 iPd     35 19.00  -0.4
                 e      43 58.00
                 e      49 55.00
PPE     0.89  40 eP      35 25.00   0 9
CLI     1.07  18 iPc     35 27.00  -0.2
     S.D. = 0.7  on   6 of   6 obs.
-------------------------------------
   SEP  01, 1991  05h 44m 40.25± 0.48s
   38.407 N ± 4.6km   22.198 E ± 3.8km
   DEPTH =  10.0km  (geophysicist)
 GREECE                           (364)
      ML 3.3 (ATH). MD 3.4 (THE).

AGG     0.62   9 ePc     44 52.04  -0.8
                 eS      45 02.08
ATH     1.27 109 ePn     45 05.00   1.1
                 eSb     45 22.50
VLS     1.29 260 ePb     45 02.00  -2.1
LIT     1.71   8 ePd     45 10.60   0.4
                 eS      45 34 00
VLI     1.78 161 ePn     45 11.50   0.2
IGT     1.84 308 ePd     45 15.56   3.5X
PAIG    1.91  37 ePc     45 12.72  -0.3
KZN     1.93 350 ePn     45 14.50   1.1
THE     2.30  15 ePd     45 18.68  -0.1
OUR     2.37  35 ePc     45 19.76   0.0
FNA     2.46 345 ePc     45 21.72   0.7
GRG     2.55   3 ePc     45 22.60   0.2
SOH     2.57  20 ePc     45 23.00   0.3
KNT     2.80  11 ePc     45 26.48   0.5
                 eS      46 01.32
OHR     2.91 339 ePn     45 21.70  -5.8X
                 eSn     46 04.80
SRS     2.91  21 ePc     45 27.28  -0.2
VAY     2.92   5 ePn     45 28.00   0.4
MMB     3.39  20 iP      45 34.00  -0.3
KKB     3.52  11 iP      45 36.00  -0.1
SKO     3.61 351 iPn     45 41.00   3.7X
                 i      45 50.00
RZN     3.80  30 eP      45 39.00  -1.3
LCI     3.81 302 P       45 41.00   0.8
KDZ     4.07  36 eP      45 42.00  -1.9
VTS     4.25  10 eP      45 47.00   0.4
CSI     4.80 288 P       45 54.40   0.1
CZI     4.81 282 P       45 54.60   0.2
                 eSn     46 51.00
PVL     5.36  25 eP      45 59.00  -3.2X
MGR     5.44 291 P       46 03.50   0.2
SGO     5.75 294 P       46 08.00   0.4

SDI     7.22 300 P       46 28.50   0.0
                 eSn     47 30.00
     S.D. = 0.8  on  26 of  30 obs.
-------------------------------------
   SEP  01, 1991  06h 51m 04.51± 0.13s
   78.967 N ± 2.0km    3.604 E ± 2.8km
   DEPTH =  10.0km  (geophysicist)
   5.2mb ( 79 obs.)  5.2Msz ( 24 obs.)
 GREENLAND SEA                    (640)
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 23S, 47C
      Centroid Location:
      Origin Time        06:51: 7.9 0.3
      Lat 78.77N 0.05 Lon   2.74E 0.10
      Dep  34.9 3.4 Half-duration  2.4
      Moment Tensor:   Scale 10**17 Nm
        Mrr=-0.47 0.08  Mtt=-2.77 0.14
        Mff= 3.24 0.10  Mrt= 0.00 0.00
        Mrf= 0.00 0.00  Mtf=-0.58 0.08
      Principal Axes:
        T  Val=  3.29  Plg= 0  Azm=264
        N       -0.47       90       180
        P       -2.83        0       174
      Best Double Couple:Mo=3.1*10**17
       NP1:Strike=309 Dip=90 Slip=-180
       NP2:        39     90         0

KBS     1.61  88 iPc     51 30.50  -2.4
DAG     5.18 256 iPd     52 19.70  -4.1X
        1.0s   650.00nm          6.2mb
JNW     8.54 207 iPd     52 57.10 -13.8X
                 eS      54 28.80
TRO    10.20 148 eP      53 30.79  -2.9X
KEV    11.06 134 iP      53 42.80  -2.7
        1.1s   146.40nm          6.2mb
     Z  18s    10.00um
                 iS      55 41.20
                 LR      57 30.00
LOF    11.22 161 iP      53 45.08  -2.6
KTK1   11.26 142 eP      53 45.36  -3.0X
MOR7   13.13 160 eP      54 12.78  -0.5
SOD    13.24 139 iP      54 10.50  -4.3X
                 iS      56 32.00
AKU    14.69 217 iP      54 38.10   4.3X
        1.3s   161.54nm          5.4mb
RGS    16.16 169 eP      54 54.00   1.2
FRO    17.30 178 iPc     55 07.51   0.3
GDH    17.43 268 iPd     55 01.90  -6.8X
        0.3s   675.32nm          6.3mb X
                 i      58 00.00
                 i      00 30.00
FOO    17.46 178 iP      55 09.30   0.1
HYA    17.91 176 eP      55 16.66   1.9
SUE    18.00 178 eP      55 19.22   3.3X
KAF    18.27 145 iP      55 16.80  -2.4
NAO    18.37 169 P       55 18.60  -1.9
        1.1s   148.80nm          5.1mb
ASK    18.58 178 eP      55 23.92   0.9
HFS    19.19 165 eP      55 29.00  -1.4
        0.7s   186.00nm          5.4mb
     Z  17s     5.37um
                 LR      00 32.00
NUR    19.66 148 iP      55 33.30  -2.7
        1.0s   132.00nm          5.2mb
     Z  20s     6.10um
                 e       59 08.00
                 LR      02 12.00
UPP    19.70 159 iP      55 33.90  -2.5
MBC    21.93 327 ePd     55 59.50   0.4
        1.0s    98.00nm          5.2mb
EDR    22.24 189 ePc     56 02.50   0.1
        1.2s   185.00nm          5.4mb
EDU    22.63 190 ePc     56 06.50   0.3
        1.1s   165.00nm          5.4mb
EBH    22.95 190 eP      56 09.30  -0.1
EAB    23.04 191 eP      56 10.30   0.1
EAU    23.35 190 eP      56 13.30   0 0
COP    23.58 167 iPd     56 14.70  -0.7
     Z  19s     2 78um          4.7Msz
                 i       56 34.50
                 iS      00 32.00
EKA    23.85 190 P       56 19.00   0.9
        0.7s    12.00nm          4.6mb
FRB    25.16 275 eP      56 31 00   0.4
        1.0s   189 00nm          5.7mb
DMU    25 44 195 eP      56 33 30  -0 1

        1.0s   139.00nm          5.6mb
DCN    26.01 195 eP      56 39.10   0.4
        1.1s    87 00nm          5.4mb
WIT    26.29 176 eP      56 47.00   5.8X
OBN    26.38 135 iPc     56 41.50  -0.6
        1.1s   *******nm          8.4mb X
     Z  20s     5.50um          5.1Msz
     N  18s     4.80um
     E  12s     3.30um
                 i       56 48.00
                 ePP     57 25.00
                 ePPP    57 36.00
                 iS      01 14.00
                 eSS     02 31.00
                 eSSS    02 48.00
ETA    26.60 193 eP      56 44.10  -0.1
BRN    26.87 167 ePc     56 48.50   1.9
DBN    26.99 178 eP      56 43.00  -4.6X
     Z  20s     1.00um          4.4Msz
                 eS      01 28.00
WTS    27.11 176 eP      56 49.50   0.7
        0.9s    29.00nm          5.0mb
ECP    27.13 194 eP      56 47.70  -1.2
VAL    27.57 199 eP      56 53.00   0.0
CLL    27.97 167 iPd     56 55.90  -0.7
        1.6s    68.00nm          5.2mb
     Z  18s     2.50um          4.8Msz
                 i       57 03.80
                 eS      01 40.00
BNS    28.15 175 ePd     57 04.00   5.8X
        1.0s    20.00nm          4 9mb
     Z  17s     2.40um          4.8MszX
UCC    28.29 179 P       57 00.70   1.2
ENN    28.33 177 eP      57 00.00   0.2
        0.9s    42.00nm          5.2mb
BRG    28.45 166 iP      57 00.70  -0.2
        1.5s    60.00nm          5.2mb
     Z  17s     2.00um          4.8MszX
     N  17s     2.00um
     E  17s     0.50um
                 i       57 08.80
                 eS      01 49.00
MEM    28.49 177 iPc     57 01.34   0.1
SNF    28.57 179 iPc     57 02.20   0.2
MOX    28.58 169 iPd     57 02.30   0.1
        1.5s   100.00nm          5.4mb
     Z  17s     1.70um          4.7MszX
     N  17s     1.70um
                 S       01 50.00
KSP    28.60 163 eP      57 01.60  -0.7
        1.0s    25.00nm          5.0mb
                 ic      57 02.60
HOF    28.92 169 iPc     57 05.50   0.3
        1.7s    20.00nm          4.6mb
DOU    28.99 179 P       57 09.10   3.3X
                 S       01 57.00
PRU    29.36 166 iPd     57 09.60   0.4
        1.5s    38.20nm          5.0mb
                 e       57 17.40
WLF    29.43 177 P       57 10.00   0.2
KRA    29.61 158 iPc     57 11.80   0.4
        1.3s   164.00nm          5.7mb
     Z  20s     3.00um          4.9Msz
     E  14s     2.80um
                 e       57 22.00
                 i       57 25.00
                 eS      02 09.00
WET    30.13 168 eP      57 16.80   0.7
        1.3s    46.00nm          5.2mb
GWF    30.14 175 P       57 16.11  -0.1
KHC    30.17 167 iP      57 17.50   1.0
                 e       57 25.00
FLN    30.36 185 eP      57 16.90  -1.1
        0.9s    13.10nm          4.8mb
     Z  16s     3.50um          5 1MszX
SPC    30.50 158 iPd     57 20.00   0.5
                 i       57 28 60
                 e       58 04.60
LDF    30.52 185 eP      57 17.80  -1.7
        0.8s    10.75nm          4.8mb
CDF    30.70 175 P       57 21.43   0.2
GRR    30.74 186 eP      57 19 80  -1.6
        1.0s    16.00nm          4.8mb
INK    30.86 330 ePc     57 22.00  -0.3
        1.0s   120.00nm          5.7mb
VITF   30.88 177 P       57 23.11   0.4
ECH    30.90 175 P       57 23.11   0.3
```

HAU	31.10	176	eP	57	24.40	-0.2		1.3s	57.75nm		5.3mb				PP	01	22.00						
	1.0s	20.00nm			5.0mb			Z 17s	4.25um		5.3MszX				S	06	22.00						
	Z 18s	3.75um			5.1Msz		TLB	35.73	150	eP	58	04.50	-0.1	SLY	46.72	132	eP	59	44.50	9.6X		
LPF	31.10	186	eP	57	23.30	-1.3	LMR	35.77	176	eP	58	05	10	0.1				e	01	32.50			
	1.1s	19.55nm			4.9mb			1.3s	43.30nm		5.2mb			GAR	47.60	104	eP	59	43.00	1.0		
VKA	31.17	163	eP	57	25.00	-0.2	ARV	35.77	168	P	58	05.70	0.6				ePP	01	34.00				
	2.5s	131.00nm			5.4mb		BTH	35.99	185	iPc	58	06.50	-0.4				iS	06	41.00				
	Z 19s	1.80um			4.8Msz					isP	58	12.60					eSS	10	13.00				
		i	57	33.70						i	58	14.30					eSSS	11	51.00				
		LR	09	14.00						i	58	24.00		TBR	47.64	268	P	59	40.00	-2.1		
FEL	31.25	174	P	57	26.39	0.3				e(S)	03	46.00		PNT	47.71	312	eP	59	43.00	0.4		
KMR	31.27	166	iP-	57	26.60	0.5				eScS	08	17.00			0.6s	7.00nm				4.9mb			
BSF	31.28	176	eP	57	25.80	-0.5	EPF	36.08	184	eP	58	07.10	-0.6	HRI	47.75	143	eP	59	43.60	0.4		
ZST	31.28	162	eP	57	26.90	0.7		1.0s	40.00nm		5.2mb			LVNJ	48.06	268	P	59	45.00	-0.4		
		I	57	35.30			ASS	36.19	169	P	58	09.80	1.2	MAIO	48.27	116	eP	59	49.00	1.8		
BBS	31.66	175	P	57	29.92	0.4	STS	36.51	195	eP	58	12.00	0.8				i	01	45.00				
PSZ	31.74	159	iPc	57	30.70	0.4	ECRI	36.56	188	eP	58	12.90	1.2				eS	06	48.00				
SRO	31.74	161	eP	57	30.60	0.4	PVL	36.84	153	iPc	58	15.00	1.0	TIO	48.37	193	iPc	59	48.50	0.5		
LOMF	31.76	176	P	57	30.64	0.2	MNS	36.87	169	P	58	14.50	0.1				i	59	56.50				
LOR	31.82	180	eP	57	30.00	-0.9	EGRA	36.92	185	eP	58	16.00	1.3	NEW	48.37	310	P	59	48.00	0.2		
	0.9s	19.65nm			5.0mb		ERUA	36.93	193	eP	58	15.40	0.6		1.0s	55.00nm				5.6mb		
	Z 19s	2.25um			4.9Msz		VTS	37.28	156	iPc	58	17.00	-1.0	DSI	49.38	144	eP	59	55.80	0.1		
WTTA	31.96	170	iPc	57	33.20	0.8	SKO	37.76	158	eP	58	21.70	-0.1	LRM	50.04	305	eP	00	00.60	-0.3		
	1.4s	55 60nm			5.3mb			Z 19s	9.00um		5.6Msz			RSSD	50.30	297	P	00	02.40	-0.5		
		i	57	41.00				N 19s	9.00um						1.0s	62.36nm				5.5mb		
SSF	32.03	180	eP	57	32.00	-0.7				e	59	50.30		LON	50.53	313	P	00	04.00	-0.4		
	1.5s	83.55nm			5.4mb		TTA	37.82	345	eP	58	24.90	2.7	PRNI	50.55	144	eP	00	04.70	0.1		
LBF	32.10	180	eP	57	32.50	-0.9		1.0s	16.25nm		4.8mb			HLW	50.64	148	eP	00	05.50	0.2		
	1.5s	78.35nm			5.4mb		PLD	37.89	154	eP	58	22.00	-0.8	NA2	51.23	270	P	00	09.00	-0.7		
BUD	32.11	160	eP	57	34.00	0.5	KKB	37.99	156	iPc	58	24.00	0.3	CVL	51.51	271	P	00	11.70	-0.1		
BMR	32.26	154	ePd	57	35.00	0.3	TOA	38.03	337	eP	58	26.80	2.9	BW06	52.54	301	P	00	18.30	-1.6		
AVF	32.30	180	eP	57	34.40	-0.6	PTO	38.25	195	eP	58	26.70	0.8		1.2s	37.67nm				5.2mb		
	1.5s	120.15nm			5.6mb		RZN	38.30	154	iPc	58	26.00	-0.6	MDJ	52.70	47	eP	00	20.50	-0.2		
SMF	32.44	180	eP	57	35.50	-0.9	MMB	38.32	155	iP	58	26.00	-0.5		E 15s	2.10um							
	1.4s	37.05nm			5.1mb		ETOR	38.33	187	eP	58	28.00	1.3				pP	00	24.00	12kmX		
MFF	32.51	185	eP	57	36.10	-0.9	KDZ	38.40	153	eP	58	18.00	-9.2X				sP	00	28.40				
BGF	32.53	181	eP	57	36.60	-0.5	VAY	38.50	157	iP	58	28.40	0.5				S	07	50.00				
FVI	32.67	168	Pc	57	39.40	1.1				i	59	57.70		GTA	52.82	75	eP	00	21.40	-0.5		
TCF	32.80	182	eP	57	38.80	-0.7	GUD	38.57	189	eP	58	29.40	0.7		1.2s	30.00nm				5.1mb		
	1.5s	114.90nm			5.6mb		OHR	38.58	159	eP	58	29.00	0.3		Z 23s	4.00um				5.4MszX		
LSF	32.85	183	eP	57	38.90	-1.0	KLU	38.62	337	P	58	30.00	1.1		N 17s	5.10um							
	1.1s	48.85nm			5.3mb		KNT	38.68	156	P	58	29.60	0.1				pP	00	26.00	15kmX		
MAF	32.87	181	eP	57	39.40	-0.7	PMR	38.75	340	eP	58	32.60	2.8				sP	00	30.00				
	1.4s	71.90nm			5.4mb			1.0s	36.25nm		5.0mb						PP	02	21.00				
UZD	32.97	161	eP	57	42.00	1.1	SRS	38.78	156	P	58	29.80	-0.5				S	07	50.00				
SCH	33.11	266	ePd	57	40.30	-1.8	TOL	39.32	189	iPc	58	36.00	1.1				sS	08	02.00				
	0.6s	28.00nm			5.4mb			1.8s	136.36nm		5.3mb						SS	11	26.00				
CTI	33.18	170	Pc	57	43.60	0.7				iS	04	44.00		CN2	52.90	50	eP	00	22.00	-0.2		
VVI	33.27	169	P	57	43.80	0.2	ECHE	39.54	186	eP	58	37.00	0.3		3.0s	300.00nm				5.7mb		
VOY	33.28	167	iPc	57	44.30	0.5	SVW	39.62	344	eP	58	38.00	0.8		Z 16s	5.80um				5.7MszX		
LJU	33.30	166	eP	57	44.00	0.2	FFC	39.71	299	ePc	58	37.70	-0.3		N 13s	0.50um							
COLF	33.57	180	P	57	46.23	0.0		0.8s	18.00nm		4.8mb				E 13s	3.00um							
LPL	33.59	176	eP	57	46.90	0.3	TDS	39.75	165	P	58	39.70	1.3				pP	00	29.00	23kmX		
	1.2s	37.20nm			5.2mb		EVIA	40.52	187	eP	58	46.00	1.1				eS	07	47.00			
CEY	33.60	166	ePd	57	46.00	-0.4	BBTK	40.91	145	eP	58	52.00	3.9X	BTO	53.51	65	eP	00	26.00	-0.9		
TRI	33.60	167	eP	57	46.20	-0.2	IRK	41.22	66	eP	58	49.80	-0.6		N 17s	4.40um							
LPG	33.61	176	eP	57	47.30	0.4				e	58	59.00			E 13s	1.80um							
	1.4s	74.05nm			5.4mb					e	00	22.70					ePP	02	33.50				
RJF	33.79	183	eP	57	47.40	-0.7				e	03	29.00					eS	08	04.50				
	1.5s	125.35nm			5.6mb					e	05	07.00		HHC	53.54	64	eP	00	26.50	-0.6		
	Z 21s	1.52um			4.7Msz					e	08	02.00			Z 21s	7.00um				5.7Msz		
VBY	33.87	165	eP	57	48.30	-0.5				e	10	53.00			N 14s	3.10um							
RIY	33.99	166	eP	57	50.40	0.6	EHUE	41.34	187	eP	58	53.00	1.4		E 13s	1.40um							
BNI	34.05	176	P	57	51.70	1.2	EVAL	41.71	192	eP	58	56.00	1.5				sP	00	38.00				
LFF	34.16	184	eP	57	50.80	-0.5	ECOG	41.91	189	eP	58	57.50	1.2				PcP	01	30.00				
	1.1s	24.40nm			5.0mb		AFC	41.93	189	eP	58	58.00	1.5				PP	02	32.00				
CAF	34 17	182	eP	57	51.00	-0.4	SIT	42.06	328	P	58	58	00	0.9	FVM	53.79	282	P	00	28.00	-0.9		
	1.4s	26.15nm			5.0mb			1.0s	20.00nm		4.8mb			SNY	54.55	53	Pd	00	34.50	0.2		
YKA	34.23	313	eP	57	51.30	-0.4	LIJA	42.34	191	eP	59	09.00	9.2X		5.5s	700.00nm				5.9mb X		
	1.1s	20.90nm			5.0mb		ALJ	42.57	191	eP	59	09.00	7.3X		Z 14s	2.20um				5.4MszX		
VRI	34.33	151	ePc	57	34.00	-18.8X	MIM	42.69	264	P	59	02.00	-0.5		N 12s	0.70um							
LPO	34.42	183	eP	57	53.40	-0.1	EJIF	42.79	191	eP	59	05.00	1.6		E 12s	1.30um							
IMA	34 57	344	eP	57	56.30	1.5	KDC	42.79	341	P	59	03.50	0.4				sP	00	42.60				
CKI	34.71	174	P	57	56.80	0.8	EMM	42.88	262	P	59	02.00	-2.0				S	08	11.00				
MME	35.00	171	P	58	00.00	1.2	CNIL	42 89	191	eP	59	06.50	2.3	TKL	54.78	275	P	00	35.60	-0.6		
ISR	35.04	151	eP	58	10.50	11.6X	PLAT	43.13	191	eP	59	08.00	1.8	GOL	54.83	297	P	00	35.20	-1.7		
BDI	35.13	171	P	58	02.70	3.0X	BNH	43 74	266	P	59	10.00	-1.1		1.0s	28.75nm				5.3mb		
SBF	35.25	175	eP	58	01.00	0.3	SES	45.37	305	ePc	59	24.80	0.6		Z 18s	1.73um				5.2Msz		
	1.4s	213.45nm			5.8mb			1.0s	188.00nm		6.0mb			GBTN	54.86	276	P	00	36.40	-0.4		
SFI	35.31	170	P	58	02.70	1.6	IFR	45.70	190	iP	59	36.00	8.9X	LST	55.08	281	P	00	38.00	-0.3		
PGD	35.35	170	P	58	03.20	1.5	AVE	46.01	193	eP	59	23.00	-6.3X	BJI	55.11	60	eP	00	38.00	-0.5		
FBA	35.37	339	eP	58	03.90	2.4				i	59	30	50		Z 16s	7.59um				5.9MszX		
	1 1s	59.38nm			5.4mb		WMO	46.26	85	P	59	32.50	1.2		E 18s	8.39um							
FRF	35.55	176	eP	58	03.10	0.0		2.0s	300 00nm		6.0mb						eS	08	20.00				
	1.4s	108.90nm			5.5mb			Z 22s	7 20um		5.6Msz			GRT	55.27	281	P	00	38.00	-1.7		
CRE	35.60	170	P	58	05.00	1.2		N 10s	4 80um					OUE	55.54	110	eP	00	43.20	1.2		
LRG	35.65	177	eP	58	04.10	0.1				sP	59	42.50					e(S)	08	26.00				

01d 07h

JSC		55.64	272	P	00	41.00	-1.4
SGS		56.55	271	P	00	48.00	-0.9
ACO		56.65	290	iPc	00	49.50	-0.2
TIY		56.74	64	ePc	00	50.40	0.0
	Z	20s	4.30um			5.5Msz	
	E	15s	4.60um				
LZH		56.79	72	Pc	00	50.50	-0.4
		2.0s	42.00nm			5.1mb	
	Z	18s	3.97um			5.6Msz	
	E	16s	5.74um				
			pP		00	59.50	29kmX
			sP		01	02.50	
			PP		03	02.00	
			S		08	46.00	
			SS		12	30.00	
TUL		56.81	287	eP	00	48.50	-2.3
		1.1s	37.40nm			5.3mb	
			e		00	52.60	
			e		00	56.30	
DL2		57.10	55	eP	00	55.00	2.2
	Z	20s	1.50um			5.1Msz	
	E	14s	2.70um				
			eS		08	48.00	
MSU		57.13	303	P	00	52.50	-0.9
UYO		58.26	285	iPc	00	58.80	-2.2
TIA		59.00	60	eP	01	05.70	-0.5
	Z	14s	3.70um			5.7MszX	
	N	17s	1.80um				
	E	17s	7.30um				
			eS		09	10.00	
ANMO		59.65	297	P	01	09.90	-1.1
		1.0s	38.75nm			5.5mb	
	Z	18s	2.06um			5.3Msz	
ALQ		59.66	297	ePc	01	09.80	-1.2
		1.0s	14.00nm			5.0mb	
	Z	20s	1.42um			5.1Msz	
XAN		59.70	68	eP	01	10.00	-1.1
		7.0s	1100.00nm			6.1mb X	
	E	17s	8.00um				
LSA		60.60	86	P	01	18.40	0.6
	Z	22s	11.30um			6.0Msz	
CLC		60.62	307	eP	01	19.00	1.6
ISA		60.91	308	eP	01	20.00	0.7
GKN		61.00	93	P	01	19.40	-0.7
GSC		61.00	306	eP	01	20.00	0.0
NIIJ		61.20	40	P	01	20.50	-0.7
GUN		61.33	92	P	01	22.62	0.0
KKN		61.33	92	P	01	22.18	-0.3
DMN		61.47	93	P	01	22.94	-0.6
PKI		61.57	92	P	01	24.14	-0.1
MTMJ		61.69	41	P	01	24.80	0.1
SBB		61.76	307	eP	01	25.00	-0.2
MAT		61.79	41	eP	01	25.00	-0.2
		1.2s	34.38nm			5.4mb	
	Z	20s	1.06um			5.0Msz	
			eS		09	49.00	
CD2		61.81	74	P	01	25.40	-0.1
	Z	20s	5.00um			5.7Msz	
	E	19s	12.70um				
			S		09	46.00	
TPC		62.06	305	eP	01	28.00	0.9
MWC		62.25	307	eP	01	28.00	-0.6
PAS		62.34	307	eP	01	29.00	0.0
CHJJ		62.37	40	P	01	30.30	1.2
TSRJ		62.49	43	P	01	30.70	0.8
IIDJ		62.79	41	P	01	31.70	-0.3
GLA		62.89	304	eP	01	34.00	1.3
PLM		62.92	306	eP	01	33.00	0.0
NJ2		63.36	59	Pd	01	34.50	-1.1
	Z	14s	1.90um			5.4MszX	
	N	12s	1.90um				
	E	12s	0.50um				
			S		10	05.00	
WHN		64.07	64	eP	01	40.50	0.2
	Z	20s	1.90um			5.3Msz	
	E	16s	5.00um				
			pP		01	47.00	21kmX
			S		10	19.00	
SSE		64.67	57	P	01	44.00	-0.2
		1.2s	34.00nm			5.4mb	
	Z	20s	2.30um			5.4Msz	
	N	16s	0.70um				
	E	16s	4.60um				
			S		10	24.00	
			SS		14	37.00	
GYA		66.68	72	iPd	01	57.40	0.0
		1.0s	20.00nm			5.3mb	
	Z	20s	1.90um			5.3Msz	
	N	18s	2.30um				
	E	18s	4.20um				
			pP		02	05.40	26kmX
			sP		02	10.00	
			S		10	50.00	
KMI		67.26	76	eP	02	00.00	-1.1
POO		68.17	106	eP	02	11.50	4.8X
LKO		69.56	190	P	02	13.94	-1.3
HYB		70.14	101	eP	02	17.30	-1.5
CHG		72.69	81	eP	02	34.00	0.0
		1.2s	15.63nm			5.0mb	
CHTO		72.69	81	eP	02	32.70	-1.3
		1.3s	16.34nm			5.0mb	
KIC		72.70	189	P	02	33.24	-0.8
		0.9s	10.50nm			4.9mb	
LIC		72.84	189	P	02	34.02	-0.8
		0.8s	5.50nm			4.7mb	
GBA		73.65	103	Pc	02	38.40	-1.2
		0.8s	9.20nm			4.9mb	
QIZ		74.51	70	eP	02	43.60	-1.0
BAG		78.95	61	eP	03	11.00	1.3
UPA		79.93	265	(P)	03	08.60	-6.1X
			e		13	14.00	
LWI		82.18	155	iPc	03	30.90	4.1X
HOBC		83.79	261	eP	03	34.33	-0.7
CLMC		84.33	261	eP	03	37.46	-0.3
ANCC		84.74	261	eP	03	39.19	-0.5
HOQC		84.75	261	eP	03	39.43	-0.6
IPM		86.96	82	ePc	03	51.10	0.5
CUMC		87.43	262	ePc	03	54.57	1.1
PSI		88.40	84	ePd	03	58.50	1.0
			e		06	40.00	
WRA		116.81	53	PKP	09	54.00	4.0X
		1.3s	1.10nm				
ASPA		120.39	54	ePKP	09	56.80	0.0
		0.9s	3.00nm				
NVL		149.61	175	ePKPc	10	57.00	8.3X
			e		11	01.00	
			e		11	05.00	
			e		11	15.00	
			e		12	13.00	
MAW		150.30	138	e(PKP)	10	58.00	8.2X
		0.8s	14.00nm				

S.D. = 1.0 on 246 of 274 obs.

SEP 01, 1991 06h 51m 11.29± 0.77s
37.943 N ± 6.4km 29.238 E ± 8.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

KHL		0.44	31	iPg	51	19.00	-1.3
				eSg	51	25.50	
CIN		0.97	250	ePg	51	28.00	-1.8
				iSg	51	41.00	
YER		1.11	224	iPn	51	32.50	0.4
ELL		1.31	156	iPn	51	36.00	0.4
IZM		1.62	287	ePn	51	41.00	1.0
DST		1.73	344	ePn	51	42.00	0.4
IZI		2.40	4	ePn	51	51.80	0.5
YLV		2.62	2	ePn	51	54.80	0.3

S.D. = 1.2 on 8 of 8 obs.

SEP 01, 1991 07h 18m 32.97± 0.49s
3.442 S ± 5.4km 134.569 E ±10.1km
DEPTH = 33.0km (normal)
5.0mb (16 obs.)
IRIAN JAYA REGION, INDONESIA (196)

AAI		6.37	268	ePd	20	06.80	-0.2
				eS	21	29.00	
MTN		9.94	200	eP	20	56.00	-0.7
		0.3s	138.00nm			6.7mb X	
				eS	22	46.00	
KNA		13.50	205	eP	21	43.00	-1.6
CGP		15.38	320	eP	22	12.00	2.7
WR2		16.41	181	iPc	22	21.10	-1.4
		0.6s	13.40nm			4.2mb	
				eS	25	13.10	
OIS		17.71	164	iPc	22	38.40	-0.4
		0.7s	11.00nm			4.1mb	
CTAO		20 09	146	iPd	23	09.00	2.2
		1.0s	160.00nm			5.3mb	
				i	23	21.00	
				e(S)	26	58.00	
ASPA		20.12	182	iPd	23	08.60	1.5
		0.6s	64.20nm			5.1mb	
				eS	26	55.90	
PPR		20.53	310	ePd	23	12.50	1.2
KKM		20.61	297	ePc	23	12.80	0.5
		1.1s	108.60nm			5.1mb	
MBL		22.71	218	eP	23	35.20	2.0
WARB		23.86	198	eP	23	48.00	3.6X
CVP		24.49	330	iPc	23	55.50	5.0X
		1.0s	58.00nm			5.1mb	
STK		29.05	168	eP	24	27.50	-4.9X
		0.8s	1.20nm			3.6mb X	
BRS		29.49	146	eP	24	30.00	-6.5X
QIZ		33.02	313	P	25	06.60	-1.0
	N	19s	2.30um				
	E	17s	2.00um				
SNG		35.49	287	eP	25	29.70	0.8
SSE		36.64	341	eP	25	36.20	-2.1
		1.0s	17.00nm			4.9mb	
NJ2		38.33	338	Pc	25	52.60	0.1
WHN		38.92	332	P	25	58.00	0.5
GYA		40.15	319	P	26	08.00	0.1
		1.0s	10.00nm			4.5mb	
CHG		41.46	304	ePd	26	19.00	0.4
		1.0s	20.25nm			4.8mb	
CHTO		41.46	304	iPd	26	19.00	0.4
		0.9s	14.49nm			4.7mb	
XAN		44.44	329	P	26	41.70	-1.0
	N	14s	2.70um				
	E	13s	3.20um				
			pP		26	47.60	20kmX
CD2		45.06	322	P	26	47.30	-0.5
		1.0s	20.00nm			5.0mb	
TIY		45.81	335	eP	26	53.40	-0.3
BJI		46.45	340	eP	26	58.00	-0.5
LZH		48.69	327	Pd	27	16.50	0.1
		1.5s	57.00nm			5.4mb	
GTA		53.30	327	Pd	27	51.20	0.0
		1.2s	20.00nm			5.0mb	
			pP		27	58.30	23kmX
			sP		28	05.00	
GUN		56.26	307	P	28	12.80	-0.5
PKI		56.49	306	P	28	13.80	-1.2
KKN		56.69	307	P	28	15.60	-0.6
		0.8s	34.00nm			5.4mb	
DMN		56.75	306	P	28	16.00	-0.7
GKN		57.29	306	P	28	19.80	-0.6
		0.8s	39.00nm			5.5mb	
KOD		58.46	284	eP	28	29.30	0.4
GBA		59.15	288	Pd	28	31.90	-1.4
		0.7s	10.50nm			5.1mb	
WMO		63.08	324	eP	29	00.20	0.6
RAR		66.09	112	P	29	26.00	6.6X
QUE		72.59	303	eP	30	00.80	1.3
MAIO		80.06	308	eP	30	42.00	0.6
MBC		97.13	13	eP	32	02.50	-0.2
UPA		145.67	79	ePKP	38	10.50	-0.2
CNCB		149.98	133	PKP	38	27.20	9.0X
LPB		150.07	132	PKP	38	27.00	8.8X
ZOBO		150.22	132	PKP	38	23.50	4.9X
		1.0s	10.00nm				
CCH		150.91	136	PKP	38	28.50	9.2X

S.D. = 1.1 on 37 of 46 obs.

---

* SEP 01, 1991 07h 21m 57.64± 0.32s
15.142 S ±11.5km 173.289 W ± 6.6km
DEPTH = 10.0km (geophysicist)
5.0mb (19 obs.) 5.4Msz (2 obs.)
TONGA ISLANDS (173)

AFI		1.91	50	iPd	22	24.60	-6.0X
				eS	22	37.00	
				ePcS	23	01.00	
				eSS	24	42.00	
VUN		8.41	249	eP	24	08.50	6.1X
SVA		8.45	248	eP	24	05.60	2.6
NDF		9.26	252	eP	24	19.90	5.7X
PMO		24.52	93	iP	27	18.80	0.3
		1.2s	95.00nm			5.3mb	
VAH		24.76	94	iP	27	20.60	-0.3
		1.2s	70.00nm			5.2mb	
TPT		24.78	93	iP	27	21.20	0.1
		1.2s	135.00nm			5.5mb	
RUV		25.00	94	iP	27	22.80	-0.4
		1.2s	100.00nm			5.4mb	
TOO		42.71	231	eP	29	53.00	-3.6X
				i	29	58.20	
STK		44.26	240	iPc	30	08.30	-0.9
		0.6s	2.60nm			4.3mb	

01d 07h

WR2	49.98	257	eP	30	52.80	-1.6	LSF	148 68	7	ePKP	41	47.10	4.2X	PPR	59.78	297	ePd	32	32.00	-0.2
	0.6s	7.90nm			4.9mb			0 9s	8 20nm					KKM	59.96	292	eP	32	35.00	1.4
WRA	50.01	257	P	30	52.00	-2.5	TCF	148.72	6	ePKP	41	47.20	4.2X	OCP	60.65	303	eP	32	45.50	7.4X
	0.7s	5.30nm			4.6mb			1.0s	6.00nm					BAG	62.09	304	eP	32	46.00	-2.1
ASPA	50.29	252	iPd	30	54.50	-2.2	MAF	148.82	6	ePKP	41	47.50	4.4X	KAKJ	64.89	333	P	33	05.30	-0.6
	0.7s	22.00nm			5.2mb			1.2s	20.85nm					IIDJ	65.25	331	P	33	06.70	-1.6
MAT	68.81	320	eP	33	03.00	-1.3	VBY	148.89	348	e(PKP)	41	48.40	5.2X	CHJJ	65.25	332	P	33	06.70	-1.5
	1.7s	53.85nm			5.5mb		RJF	149.62	7	ePKP	41	51.00	6.7X	MAT	66.01	332	eP	33	11.00	-2.1
TNP	74.58	43	P	33	38.30	-0.7	LPL	149.72	360	ePKP	41	50.90	6.1X		1.3s	75.00nm			5.6mb	
	0.8s	3.92nm			4.5mb			1.1s	8.55nm					Z	20s	1.06um			5.0Msz	
SPA	74.96	180	eP	33	41.00	0.3	LPG	149.74	360	ePKP	41	51.10	6.2X			eS		42	04.00	
	1.0s	13.00nm			4.9mb			0.9s	8.20nm					TSRJ	66 17	330	P	33	12.90	-1.2
MSU	78.17	45	P	33	59.00	-0.2	LFF	149.87	8	ePKP	41	52.00	7.3X	MTMJ	66.22	332	P	33	12.80	-1.7
PMR	78.85	12	P	34	02.00	-0.1	LPO	150.18	8	ePKP	41	52.10	6.9X	NIIJ	66.26	333	P	33	14.60	0.0
	1.0s	10.00nm			4.8mb		SKO	150.39	337	ePKP	41	51.30	5.7X	YAMJ	66.64	334	eP	33	16.80	-0.3
Z	18s	1.43um			5.3Msz		OHR	151.38	337	ePKP	41	42.00	-5.2X	OFUJ	66.79	336	eP	33	16.50	-1.5
TTA	78.98	8	P	34	03.20	0.2		S.D. = 1.0 on 43 of 76 obs.						SPA	67.70	180	iPd	33	22.40	-1.3
	1.0s	11.25nm			4.9mb										0.9s	17.27nm			5.1mb	
ALQ	80.55	50	eP	34	11.50	-0.7		SEP 01, 1991 08h 22m 28.36± 0.22s						Z	20s	2.21um			5.4Msz	
	1.5s	13.89nm			4.7mb			22.436 S ± 4.3km 170.257 E ± 5.2km						QZH	68.79	310	eP	33	28.00	-2.8
ANMO	80.55	50	P	34	11.00	-1.2		DEPTH = 39.3km (6 depth phases)							5.0s	700.00nm			5.9mb	X
	1.5s	45.14nm			5.3mb			5.1mb (17 obs.) 5.3Msz (17 obs.)						KGM	69.58	281	ePc	33	37.00	1.1
CN2	80.96	320	eP	34	14.40	0.6		LOYALTY ISLANDS REGION					(189)	HKC	70.43	305	eP	33	42.40	1.5
SNY	81.16	318	eP	34	15.40	0.5								ASAJ	70.90	339	eP	33	44.20	0.9
BW06	82.01	42	P	34	19.00	-0.7	PVC	5.02	338	iP	23	41.50	-1.7	SSE	71.04	317	P	33	42.00	-2.4
FBA	82.12	11	P	34	18.50	-1.0				iS	24	46.50			6.0s	600.00nm			5.8mb	X
	0.9s	21.88nm			5.3mb		BKM	5.11	338	iP	23	42.00	-2.5	Z	20s	1.40um			5.2Msz	
IMA	82.29	8	P	34	20.00	-0.5	NDF	8.21	57	eP	24	29.00	1.1	N	10s	0.30um				
GOL	83.40	46	P	34	27.00	0.0	SVA	8.81	62	ePd	24	37.60	1.3	E	10s	0.20um				
	1.4s	13.05nm			4.9mb		VUN	8.87	62	ePd	24	38.00	0.9	GZH	71.51	306	P	33	49.00	1.6
Z	18s	1.73um			5.5Msz		HNR	16.28	321	eP	26	20.00	4.2X		6.5s	700.00nm			5.8mb	X
SES	84.93	35	eP	34	35.00	0.9	BRS	16.60	249	eP	26	21.00	1.0	QIZ	71.99	300	Pc	33	51.00	0.6
BJI	85.37	313	eP	34	37.00	0.5				iS	29	39.00			8.0s	900.00nm			5.8mb	X
	2.0s	38.00nm			5.3mb		COO	18.31	240	eP	26	45.00	3.8X	IPM	72.73	283	ePc	33	56.00	1.1
RSSD	86.20	42	P	34	40.50	-0.3	MNG	18.66	167	eP	26	44.20	-1.1		1.0s	29.10nm			5.2mb	
TIY	87.17	310	eP	34	45.00	-0.5		0.7s	44.00nm			4.8mb		NJ2	73.16	316	iPc	33	56.50	-0.5
HHC	88.93	313	eP	34	54.80	0.9	KIW	18.79	169	eP	26	46.10	-0.8		5.5s	800.00nm			5.9mb	X
YKA	89.82	23	eP	35	01.90	4.4X	TCW	19.03	171	eP	26	49.60	-0.1	Z	20s	1.50um			5.3Msz	
	1.0s	1.80nm			4.3mb		CAW	19.05	169	eP	26	48.60	-1.5			S		43	21.00	
BTO	89.94	312	eP	34	59.50	0.8	MRW	19.11	170	eP	26	50.30	-0.4	SNG	74.20	285	eP	34	04.10	0.7
NAO	134.29	357	PKP	41	22.20	5.1X	WEL	19.18	170	P	26	51.00	-0.5	WHN	75.19	312	Pc	34	09.00	0.2
	1.0s	2.40nm								S	30	24.00			5.0s	600.00nm			5.8mb	X
KSP	143.56	350	ePKP	41	31.90	-2.4X	BLW	19.38	168	P	26	53.40	-0.4		E 17s	0.70um				
CLL	143.57	353	e(PKP)	41	35.00	0.7	RMO	19.98	254	iPd	27	11.00	10.7X	DL2	76.13	323	Pc	34	14.00	0.1
BNS	144.27	359	ePKPc	41	34.50	-0.9		0.8s	58.00nm						1.0s	70.00nm			5.6mb	
SPC	144.28	345	e(PKP)	41	32.80	-3.0X	RIV	20.27	232	eP	27	05.20	1.9	MDJ	76.37	331	eP	34	15.50	0.3
MEM	144.62	1	PkP	41	52.00	16.0X	Z	22s	8.00um			5.0Msz			8.0s	700.00nm			5.7mb	X
PRU	144.67	351	ePKP	41	36.20	0.0				eS	30	02.00				eS		43	58.00	
			e	50	44.00		LTZ	20.36	176	eP	27	02.30	-1.9	TIA	76.95	318	eP	34	18.20	-0.4
SNF	144.67	3	PKP	41	35.70	-0.4	EWZ	21.02	179	eP	27	11.00	0.1		8.0s	900.00nm			5.8mb	X
DOU	145.10	2	PKP	41	40.40	3.5X	CNB	22.29	230	eP	27	25.00	1.2	Z	18s	1.20um			5.3Msz	
BRD	145.21	335	ePKPc	41	44.20	6.9X				i	27	43.00	82kmX	N	20s	1.50um				
WLF	145.57	1	iPKPc	41	37.74	0.1	CTAO	22.49	271	iPc	27	27.00	1.2	E	20s	1.40um				
KHC	145.64	352	iPKP	41	38.00	0.1				i	27	29.00				eS		44	05.00	
	1.5s	26.80nm								ipP	27	40.00	54kmX	SNY	77.15	326	Pc	34	19.00	-0.6
		i		41	42.00					i	27	58.00		Z	24s	0.90um			5.0MszX	
		e		50	20.00					iS	31	33.00				sP		34	32.00	
MLR	145.68	336	ePKP	41	49.00	10.8X				i(SS)	31	38.00				S		44	06.00	
ISR	145.73	335	ePKPc	41	44.00	5.8X	CMS	23.52	242	iPd	27	37.40	1.6	CN2	77.67	329	eP	34	21.40	-1.0
ZST	145.94	348	ePKP	41	38.80	0.4		1.0s	45.00nm			4.9mb			5.0s	600.00nm			5.9mb	X
FLN	145.96	9	ePKP	41	38.80	0.4				e	27	51.00	56kmX	Z	20s	2.60um			5.6Msz	
	1.2s	29.75nm					QLP	24.02	255	eP	27	42.00	1.4	N	20s	1.00um				
SRO	146.03	346	ePKP	41	38.30	-0 2	TOO	26.11	229	e(P)	27	54.00	-6.5X	E	20s	1.00um				
LDF	146.17	8	ePKP	41	39.70	0.9				i	28	05.00	42km			pP		34	32.00	34km
GRR	146.27	9	ePKP	41	40.00	1.1	STK	27.12	244	iPd	28	09.50	-0.2			eS		44	13.00	
LPF	146.58	9	ePKP	41	40.90	1.5		1.0s	4.00nm			4.0mb	X	LOE	77.85	295	eP	34	26.00	2.1
CDF	146.82	359	ePKP	41	42.00	2.1				iPcP	31	31.20		BSI	78.30	281	eP	34	27.00	0.6
	1.0s	16.00nm								eS	32	54.10				e		35	30.00	267kmX
HAU	147.23	0	ePKP	41	43.20	2.7X	BFD	28.05	232	eP	28	18.00	-0.1	GYA	78.42	305	iPc	34	28.40	1.3
	1.1s	17.10nm					QIS	28.56	268	eP	28	21.50	-1.3		5.0s	1100.00nm			6.1mb	X
BSF	147.41	360	ePKP	41	43.70	2 8X	ADE	30.23	239	iPc	28	38.00	0.3	Z	24s	1.40um			5.2MszX	
	1.0s	12.00nm					ASPA	33.42	261	iPd	29	04.40	-1.3	N	20s	1.60um				
WTTA	147.71	354	ePKP	41	43.00	1 5		1.1s	14.00nm			4.8mb		E	20s	1.70um				
	0.7s	3.10nm					Z	22s	6.40um			5.3MszX				pP		34	40.40	40km
		i		41	45.20		WR2	33.51	267	iPd	29	04.60	-1.9			PP		37	26.00	
LOR	147.88	4	ePKP	41	45.00	3 4X		0.5s	7.50nm			4.8mb		KHT	79.32	291	eP	34	35.00	3.0X
	0.7s	5.50nm					WRA	33.53	267	P	29	04.00	-2.7	BJI	80.01	321	eP	34	35.50	0.3
SSF	148.06	4	ePKP	41	45.70	3.8X		0.9s	7.10nm			4.6mb			7.0s	680 00nm			5.7mb	X
	1.0s	15.00nm					MTN	38.39	278	eP	29	46.50	-1.4	Z	21s	0.92um			5.1Msz	
MFF	148.12	9	ePKP	41	45.40	3 5X	WARB	39.79	256	eP	29	59.00	-0.5	KMI	80.76	302	Pc	34	41.50	1.6
LBF	148.17	4	ePKP	41	45.90	3.8X	GUA	43.53	323	eP	30	30.80	0.6		5.0s	700.00nm			5.9mb	X
	1.0s	12.00nm					PJG	43.60	323	eP	30	31.00	0.3	TIY	80.81	317	Pc	34	40.50	0.8
AVF	148.32	4	ePKP	41	45.90	3.6X	M8L	46.66	262	eP	30	54.30	-0.8		7.0s	800.00nm			5 8mb	X
	1.1s	12.20nm					DAV	52.67	299	eP	31	44.80	3.4X	Z	20s	1.00um			5.2Msz	
SMF	148.50	4	ePKP	41	46.40	3.8X	BIP	52.79	300	eP	31	42.00	-0.2	N	20s	0.90um				
BGF	148.51	5	ePKP	41	46.40	3 8X	CGP	54.17	299	iPc	31	55 00	2.6X	CHG	80.84	295	ePc	34	42.00	1.9
	1.1s	17.10nm						1.0s	38 00nm			5.4mb			1.1s	60.13nm			5.5mb	

01d 08h

CHTO	80.84	295	eP	34	41.80	1.7
	1.1s	37.40nm			5.3mb	
XAN	80.96	312	P	34	40.50	0.0
	7.0s	1100.00nm			5.9mb	X
			pP	34	52.70	41km
CD2	82.93	307	P	34	52.60	1.8
HHC	83.25	319	P	34	52.80	0.5
	7.0s	700.00nm			5.9mb	X
	Z 20s	1.10um			5.2Msz	
	N 20s	0.90um				
	E 18s	0.50um				
			SKS	45	10.00	
BTO	84.05	318	P	34	57.00	0.7
	6.0s	800.00nm			6.0mb	X
	N 10s	0.30um				
	E 10s	0.70um				
			sP	35	15.50	
LZH	85.56	312	Pc	35	05.00	0.9
	8.0s	890.00nm			6.0mb	X
	Z 30s	1.00um			5.0MszX	
	N 15s	0.80um				
			pP	35	16.50	37km
			sP	35	20.00	
			PP	38	24.00	
			S	45	35.00	
NVL	85.82	187	ePd	35	04.00	-0.6
			ePcP	35	09.00	249kmX
			e	36	04.00	
			e	36	21.50	
			eS	45	36.00	
			eSS	51	38.00	
			e	55	32.00	
TTA	89.16	15	P	35	23.00	2.2
BONR	89.98	49	P	35	25.50	0.0
GTA	90.00	313	Pd	35	27.20	1.9
	1.4s	10.00nm			4.9mb	
	Z 20s	0.90um			5.2Msz	
	N 22s	1.40um				
			pP	35	40.00	42km
			PP	38	55.00	
TNP	90.79	49	P	35	28.70	-0.4
IMA	92.37	14	P	35	35.00	-0.6
FBA	92.85	17	P	35	35.50	-2.2
	0.8s	6.90nm			5.1mb	
IRK	93.88	326	eP	35	41.00	-1.7
			e	46	53.00	
GUN	95.54	298	P	35	49.76	-1.6
PKI	95.79	297	P	35	52.74	0.3
	1.3s	42.00nm			5.8mb	
KKN	95.98	297	P	35	53.58	0.4
DMN	96.06	297	P	35	54.26	0.7
GKN	96.59	297	P	35	55.74	-0.1
	0.8s	17.00nm			5.6mb	
GBA	97.64	282	Pd	36	02.60	2.1
	0.2s	0.70nm			4.8mb	
WMO	100.09	313	ePdiff	36	07.50	-3.8X
BAO	126.76	132	e(PKP)	41	29.00	-1.4
SOD	129.66	343	ePKP	41	34.00	-0.2
NUR	135.03	337	ePKP	41	47.00	2.4X
SOB1	136.17	132	ePKP	41	43.90	-4.3X
HFS	138.88	342	ePKP	41	42.20	-9.6X
	0.4s	0.90nm				
NAO	139.04	345	PKP	41	40.80	-11.3X
	0.8s	2.40nm				
BUC	143.34	315	iPKPd	41	58.00	-2.2X
KRA	143.92	327	ePKP	42	02.50	1.5
			e	42	13.50	
SPC	144.30	326	ePKP	42	01.00	-1.0
PVL	144.34	314	iPKP	42	02.90	1.0
DIM	144.66	312	ePKP	42	02.00	-0.5
EZN	144.88	308	ePKP	41	59.90	-3.1X
KDZ	144.90	311	iPKP	42	02.00	-1.0
KSP	145.13	331	ePKP	42	01.70	-1.4
	1.0s	93.00nm				
			ic	42	04.00	
			i	42	13.90	
			e	45	44.00	
EDR	145.15	353	ePKPc	42	00.00	-2.9X
PLD	145.21	312	iPKP	42	03.00	-0.5
PSZ	145.26	324	iPKP	42	03.50	0.0
BRN	145.26	335	ePKP	42	03.00	-0.2
RZN	145.37	312	iPKPd	42	04.00	0.0
EDU	145.57	353	ePKPc	42	01.70	-1.9
BUD	145.99	324	ePKP	42	06.00	1.4
VTS	146.02	314	ePKP	42	04.00	-1.0
EAB	146.05	355	ePKPc	42	03.40	-1.0
	1.0s	117.00nm				

MMB	146.08	312	iPKP	42	05.00	0.0
BRG	146.14	333	iPKP	42	05.90	1.1
			e	42	15.00	
ESY	146.15	353	ePKPc	42	03.60	-1.0
	0.9s	84.00nm				
SRO	146.16	325	iPKP	42	07 00	2.1X
CLL	146.20	334	iPKP	42	06.20	1.4
	2.4s	360.00nm				
			i	42	21.80	
EAU	146.31	354	ePKPc	42	04.50	-0.4
	0.6s	85.00nm				
KKB	146.41	313	iPKP	42	07.00	1.5
PRU	146.53	331	ePKP	42	06.50	1.1
	2.1s	136.70nm				
ZST	146.55	327	ePKP	42	05.70	0.2
			e	42	22.60	
EKA	146.78	353	PKPc	42	06.10	0.5
	0.5s	22.00nm				
VKA	146.89	327	ePKP	42	07.00	0.9
	6.3s	2116.00nm				
			i	42	08.50	
VAY	146.99	312	ePKP	42	07.30	0.9
WIT	147.17	342	ePKP	42	10.00	3.7X
MOX	147.27	335	ePKP	42	07.00	0.4
	6.0s	1400.00nm				
	Z 22s	0.60um			5.3Msz	
	N 24s	0.60um				
	E 24s	0.20um				
HOF	147.42	334	ePKP	42	10.00	3.1X
SKO	147.47	314	ePKP	42	08.90	1.7
			i	45	36.00	
KHC	147.59	331	PKP	42	10.00	2.8X
	1.0s	23.20nm				
	Z 18s	1.00um			5.6Msz	
	N 18s	0.50um				
	E 18s	0.50um				
			i	42	13.50	
WTS	147.84	341	ePKP	42	10.00	2.6X
	0.9s	19.00nm				
KMR	148.10	329	iPKP-	42	11.00	3.0X
OHR	148.28	313	ePKP	42	06.00	-2.6X
DMU	148.51	357	ePKP	42	11.00	2.5X
	0.8s	71.00nm				
BNS	148.62	339	ePKPd	42	13.00	4.3X
ZAG	148.67	324	ePKP	42	02.50	-6.4X
BHG	148.93	330	ePKP	42	14.20	4.8X
DCN	149.08	357	ePKP	42	12.80	3.5X
	0.8s	63.00nm				
ENN	149.19	340	ePKPd	42	14.50	4.9X
	0.9s	23.00nm				
VBY	149.26	324	ePKP	42	15.20	5.3X
LJU	149.29	326	e(PKP)	42	09.00	-0.9
MEM	149.30	340	iPKP	42	13.48	3.7X
CEY	149.54	326	e(PKP)	42	10.50	0.1
UCC	149.62	342	PKP	42	12.00	1.8
			e	42	15.20	
VOY	149.62	326	ePKP	42	14.20	3.6X
ETA	149.67	356	ePKP	42	15.00	4.8X
FVI	149.79	328	PKP	42	15.20	4.6X
WTTA	149.84	330	e(PKP)	42	08.00	-3.0X
	1.2s	66.90nm				
			i	42	15.00	
			i	42	20.00	
SNF	149.90	342	iPKP	42	11.13	0.5
TRI	149.91	326	ePKP	42	18.00	7.2X
WLF	150.07	339	iPKPd	42	17.16	6.2X
GWF	150.14	337	PKP	42	16.91	5.8X
DOU	150.18	341	PKP	42	11.00	-0.1
			e	42	15.70	
ECP	150.19	356	ePKP	42	15.60	4.6X
DOMF	150.36	342	PKP	42	17.36	6.0X
VAL	150.55	1	iPKP	42	17.30	5.7X
CTI	150.72	329	PKP	42	17.90	5.7X
CDF	150.74	336	PKP	42	18.02	5.9X
LIBD	150.83	336	PKP	42	18.50	6.4X
FEL	150.90	335	PKP	42	18.41	5.9X
ECH	150.95	336	PKP	42	18.41	6.0X
VITF	151.37	338	PKP	42	19.71	6.7X
BSF	151.40	336	ePKP	42	18.50	5.3X
	1.0s	24.00nm				
HAU	151.42	337	ePKP	42	18.60	5.5X
	0.7s	13.25nm				
	Z 20s	0.60um			5.4Msz	
BBS	151.43	335	PKP	42	19.78	6.6X
LOMF	151.79	336	PKP	42	20.59	6.8X
ARV	151.82	324	PKP	42	21.00	7.2X
SFI	152.12	325	PKP	42	23.50	9.3X

SGO	152.17	316	PKP	42	22.00	7.6X
MME	152.52	327	PKP	42	24.30	9.2X
FLN	152.71	347	ePKP	42	21.70	6.8X
	0.7s	18.75nm				
	Z 20s	0.70um			5.5Msz	
LDF	152.79	346	ePKP	42	22.10	7.1X
	0.7s	6.60nm				
LOR	152.91	339	ePKP	42	22.50	7.3X
	1.0s	22.00nm				
	Z 22s	0.77um			5.5Msz	
LBF	153.12	339	ePKP	42	23.40	7.8X
	1.0s	22.00nm				
GRC	153.13	340	PKP	42	24.18	8.7X
GRR	153.15	347	ePKP	42	23.00	7.5X
SSF	153.21	340	ePKP	42	23.40	7.8X
	0.9s	15.55nm				
RSL	153.24	334	PKP	42	27.31	11.4X
LPL	153.33	334	ePKP	42	25.20	9.0X
	0.7s	19.30nm				
LPG	153.34	334	ePKP	42	25.40	9.1X
	0.7s	21.50nm				
SMF	153.46	339	ePKP	42	24.90	8.9X
	1.3s	59.55nm				
AVF	153.49	340	ePKP	42	25.20	9.2X
	1.3s	39.70nm				
LPF	153.53	347	ePKP	42	24.00	8.0X
BNI	153.73	333	PKP	42	27.20	10.6X
BGF	153.86	340	ePKP	42	26.60	10.0X
PLDF	154.12	338	PKP	42	26.47	9.4X
AGO	154.22	339	PKP	42	26.47	9.4X
MAF	154.25	340	ePKP	42	28.60	11.5X
	1.2s	23.80nm				
TCF	154.30	341	ePKP	42	29.40	12.2X
LSF	154.54	342	ePKP	42	29.30	11.8X
	0.7s	11.00nm				
LBL	154.90	338	PKP	42	29.97	11.9X
RJF	155.40	341	ePKP	42	33.90	15.2X
	0.7s	9.90nm				
	Z 20s	0.63um			5.4Msz	
CAF	155.56	339	ePKP	42	34.40	15.4X
	1.3s	25.25nm				
LFF	155.96	342	ePKP	42	35.70	16.3X
	0.9s	18.00nm				
LPO	156.06	341	ePKP	42	36.90	17.3X
EBR	159.73	337	ePKP	42	24.00	0.0
LIC	163.25	196	PKP	42	30.30	1.9
KIC	163.30	198	PKP	42	30.48	2.1X
TIC	163.65	197	PKP	42	30.90	2.1X
LKO	166.58	198	PKP	42	32.58	1.3
	S.D. = 1.2	on 126 of 208 obs.				

SEP 01, 1991 09h 01m 47.40± 0.69s
38.729 N ± 6.5km 24.681 E ± 6.0km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
ML 3.1 (ATH). MD 3.3 (THE).

ATH	1.07	225	eP	02	07.00	-0.5
PRK	1.34	67	eP	02	13.00	0.9
PAIG	1.43	327	ePc	02	13.94	0.6
			eS	02	35.10	
EZN	1.68	49	ePn	02	15.40	-1.6
OUR	1.69	342	ePc	02	17.26	0.2
AGG	1.86	280	ePd	02	21.74	2.2
			eS	02	47.58	
IZM	2.05	98	ePn	02	24.00	1.6
LIT	2.18	310	ePc	02	25.42	1.2
SOH	2.33	334	ePd	02	26.58	0.2
VLI	2.44	215	eP	02	26.00	-1.9
RDO	2.50	15	eP	02	28.50	-0.2
KNT	2.79	331	ePc	02	33.26	0.4
GRG	2.83	322	ePc	02	33.18	-0.4
MFT	2.87	43	ePn	02	35.00	0.9
MMB	2.95	346	iP	02	34.00	-1.1
RZN	2.96	1	iP	02	34.00	-1.4
VAY	3.05	329	eP	02	38.00	1.4
KKB	3.36	339	iP	02	40 00	-1.0
VTS	4.02	344	iP	02	49.00	-1.4
	S.D. = 1.3	on 19 of 19 obs.				

& SEP 01, 1991 10h 05m 38.32s
57.562 N 138.015 W
DEPTH = 10.0km (geophysicist)
OFF COAST OF SOUTHEASTERN ALASKA(20)
<AEIC>. ML 3.1 (AEIC).

SIT	1.55	108	eP	05	59.93	-5.9

		eS	06	20.94		
YAH	3.41	327 eP	06	26.92	-5.9	
		eS	07	08.03		
CTGM	3.81	335 eP	06	33.36	-5.2	
		eS	07	18.03		
TGL	4.05	324 eP	06	35.01	-6.7	
		eS	07	22.23		
CROM	4.15	323 eP	06	35.92	-7.3	
GLB	4.88	325 eP	06	46.48	-7.1	
		eS	07	41.61		
VZW	5.60	312 eP	06	56.06	-7.7	
KLU	5.63	318 eP	06	55.53	-8.6	
SLKM	6.96	300 eP	07	09.34	-13.4	

9 obs. associated

---

* SEP 01, 1991 10h 25m 43.03± 4.27s
43.566 N ±16.9km 128.603 W ±30.3km
DEPTH = 10.0km (geophysicist)
OFF COAST OF OREGON (30)

DBO	3.94	95 P	26	44.77	-0.1	
		S	27	28.95		
KMOR	4.20	59 P	26	47.78	-0.8	
NLO	4.45	54 Pc	26	51.88	-0.3	
HBO	4.56	84 P	26	53.81	-0.1	
		S	27	47.10		
PGO	4.79	65 P	26	57.76	0.8	
BMW	4.79	51 P	26	56.28	-0.8	
GT2	4.81	69 P	26	57.44	0.1	
RVW	4.90	56 Pc	26	58.44	-0.1	
OBH	5.02	40 P	27	00.50	0.3	
LVP	5.07	58 P	27	00.96	0.0	
VLMM	5.09	65 Pd	27	01.42	0.2	
CPW	5.15	47 P	27	01.27	-0.7	
FL2	5.16	57 P	27	02.36	0.0	
MTMW	5.17	59 Pc	27	02.56	0.2	
		S	28	03.13		
TDH	5.17	68 P	27	01.49	-1.0	
CZM	5.19	54 Pc	27	01.99	-0.6	
ERK	5.22	56 P	27	02.65	-0.5	
SHW	5.23	58 P	27	03.70	0.4	
VBEM	5.25	71 P	27	03.97	0.4	
HSR	5.25	58 P	27	04.16	0.5	
JLK	5.26	58 P	27	03.89	0.2	
STD	5.26	57 P	27	03.89	0.2	
SMW	5.27	43 P	27	03.42	-0.4	
ESD	5.29	58 P	27	04.45	0.3	
VLL	5.30	67 P	27	04.76	0.5	
CDFW	5.31	59 P	27	04.72	0.3	
SOSW	5.31	58 P	27	04.50	0.1	
TDL	5.32	56 Pc	27	04.25	-0.3	
KOSW	5.39	55 P	27	05.22	-0.2	
APM	5.39	64 P	27	05.87	0.3	
VFP	5.40	69 P	27	05.66	-0.1	
LMW	5.44	53 P	27	05.91	-0.3	
GULW	5.52	62 P	27	08 05	0.7	
ASR	5.61	60 Pc	27	08.87	0.2	
HDW	5.64	42 P	27	09.38	0.4	
LON	5.76	54 P	27	10.61	-0.1	
RVC	5.77	52 P	27	11.08	0.2	
REMR	5.78	53 P	27	10.95	-0.1	
GLK	5.79	56 P	27	11.54	0.4	
WPW	5.89	55 P	27	12.67	0.1	
VGB	5.92	68 P	27	12.81	-0.1	
GSM	6.02	50 Pc	27	14.34	0.0	
GL2	6.03	64 P	27	14.39	-0.1	
HTW	6.39	46 P	27	19.69	0.1	
JBO	6.55	70 P	27	21.14	-0.6	
JCW	6.56	43 P	27	21.76	-0.2	
RPW	6.94	43 P	27	27.12	-0.2	
MBW	6.99	39 P	27	28.88	0.8	
CRF	7.28	60 P	27	31.97	0.0	

S.D. = 0.4 on 49 of 49 obs.

---

* SEP 01, 1991 11h 15m 13.32± 0.69s
55.382 S ±13.6km 27.754 W ±13.9km
DEPTH = 33.0km (normal)
5.0mb (3 obs.)
SOUTH SANDWICH ISLANDS REGION (153)

SPA	34.80	180 iPc	22	02.70	0.0	
	1.0s	10.00nm			4.7mb	
LNV	36.90	287 eP	22	19.00	-1.4	
PEL	37.12	289 iPd	22	21 70	-0.7	
	0.7s	23.29nm			5.2mb	
SIV	46.88	314 P	23	41.00	-1.2	
SOB1	47.22	342 eP	23	44.60	-0.2	
CNCB	49.21	305 P	24	03.00	2.1	
LPB	49.50	305 P	24	04.00	1.0	
ZOBO	49.74	305 iPc	24	04.90	-0.1	
	1.0s	17.50nm			5.0mb	
ARE	51.18	302 eP	24	16.00	0.4	
LIC	64.22	25 P	25	47.00	0.0	
TIC	64.63	25 P	25	49.40	-0.3	
MSU	117.76	298 PKP	33	58.00	0.6	
YKA	135.46	319 ePKP	34	29.80	-0.3	
	1.0s	2.10nm				
INK	145.08	321 iPKPc	34	47.00	-0.1	
	1.0s	40.00nm				
KLU	148.18	307 PKP	34	56.50	3.9X	
PMR	149.69	306 PKP	34	59.50	4.8X	
FBA	149.83	313 PKP	34	59.50	4.6X	
	0.9s	10.42nm				
PDB	151.62	301 PKP	35	01.50	3.8X	
IMA	152.41	314 PKP	35	06.80	7.9X	
TTA	153.11	307 PKP	35	08.00	8.1X	
	0.8s	3.45nm				

S.D. = 1.0 on 14 of 20 obs.

& SEP 01, 1991 11h 19m 42.31s
59.929 N 153.162 W
DEPTH = 117.8km
SOUTHERN ALASKA (2)
<AEIC>.

IVS	0.09	27 eP	19	58.48	1.1	
		S	20	10.82		
OPT	0.28	187 iPc	19	58.51	0.9	
		eS	20	11.21		
RED	0.53	21 ePd	19	59.87	-0.7	
		iS	20	13.28		
PDB	0.54	255 ePc	19	59.40	-1.1	
		eS	20	12.59		
RS1	0.57	21 ePd	20	00.29	-0.7	
		eS	20	14.38		
RS2	0.57	20 ePd	20	00.27	-0.7	
		eS	20	13.94		
RSO	0.57	21 ePd	20	00.27	-0.7	
		S	20	13.94		
AUW	0.58	196 eP	19	58.43	-2.4	
RDW	0.58	17 ePd	20	00.34	-0.7	
AUH	0.58	194 eP	20	00.22	-0.7	
		S	20	12.96		
REF	0.61	22 iPd	20	00.58	-0.6	
		iS	20	14.81		
AUI	0.61	193 eP	20	00.12	-0.9	
		eS	20	13.77		
RDN	0.62	19 iPd	20	00.66	-0.6	
NCT	0.65	10 iPd	20	00.75	-0.7	
		eS	20	14.74		
DFR	0.71	19 iPd	20	01.10	-0.8	
		eS	20	15.93		
RDT	0.75	30 iPc	20	01.47	-0.7	
		eS	20	15.95		
NNL	0.94	82 iPc	20	04.14	0.2	
MCNL	0.96	219 eP	20	02.57	-1.5	
		eS	20	18.50		
CNPM	1.06	112 iPc	20	04.23	-0.8	
		eS	20	21.24		
NKA	1.26	49 ePd	20	08.19	1.0	
CKL	1.34	17 iPd	20	07.68	-0.5	
		eS	20	27.49		
SPU	1.37	23 ePd	20	07.84	-0.7	
SYI	1.38	163 iPc	20	07.73	-0.8	
BGL	1.39	16 iPd	20	08.48	-0.3	
CGLM	1.50	22 iPd	20	09.50	-0.5	
NCG	1.56	18 ePd	20	10.36	-0.5	
SLKM	1.58	67 eP	20	10.06	-0.9	
		eS	20	30.95		
SVW	1.70	315 ePc	20	10.87	-1.5	
SEW	1.87	83 eP	20	13.17	-1.3	
SUA	1.95	37 iPd	20	15.06	-0.5	
		eS	20	40.34		
SKT	2.21	20 iPd	20	17.94	-0.9	
PMS	2.21	52 ePd	20	17.86	-1.0	
		iS	20	44.70		
KDC	2.22	171 ePd	20	16.33	-2.5	
PWA	2.36	42 eP	20	20.09	-0.7	
PLRM	2.59	48 eP	20	21.68	-2.0	
LTI	2 67	85 eP	20	23.46	-1.4	
KNIM	2.75	79 eP	20	23 55	-2.3	
KNK	2.75	55 eP	20	23.70	-2.3	
		eS	20	56.23		
MTU	2 77	86 eP	20	25.08	-1.1	
GHO	2.78	46 eP	20	24.67	-1.7	
CUT	2.85	28 eP	20	26.16	-1.1	
SML	3.02	49 eP	20	27.17	-2.4	
GLI	3.16	70 eP	20	28.94	-2.4	
FID	3.42	73 eP	20	32.01	-2.9	
VZW	3.46	68 eP	20	33.19	-2.3	
HUR	3.50	27 eP	20	34.00	-1.9	
VLZ	3.58	67 eP	20	34.96	-2.1	
KTH	3.79	15 eP	20	38.32	-1.6	
TRF	3.79	20 eP	20	38.45	-1.6	
KLU	3.89	63 iPd	20	38.75	-2.5	
TOA	4.04	54 eP	20	41.46	-1.9	
RND	4.05	29 eP	20	41.91	-1.5	
MCK	4.31	26 eP	20	45.64	-1.3	
TZL	4.32	57 eP	20	45.10	-2.0	
SDG	4.51	51 eP	20	47.55	-2.1	
PAX	4.79	47 eP	20	51.48	-2.0	
GLB	4.84	68 eP	20	51.99	-2.2	
NEA	5.04	20 eP	20	54.11	-2.7	
CROM	5.05	76 eP	20	55.90	-1.2	
WRH	5.14	25 eP	20	55.67	-2.5	
TGL	5.20	76 eP	20	57.42	-1.7	
HDA	5.35	30 eP	20	58.60	-2.5	
CCB	5.35	26 eP	20	58.32	-2.8	
MDM	5.54	22 eP	21	01.26	-2.5	
FBA	5.58	24 eP	21	01.91	-2.2	
GLM	5.74	25 eP	21	03.99	-2.5	

66 obs. assaciated

? SEP 01, 1991 11h 38m 45.20± 7.64s
11.061 N ±51.3km 61.439 W ±12.8km
DEPTH = 10.0km (geophysicist)
WINDWARD ISLANDS (95)
MD 2.5 (TRN).

TRN	0.41	175 eP	38	54.00	0.4	
		eS	38	57.13		
TCE	0.48	220 eP	38	55.06	0.2	
		eS	39	00.61		
TBH	0.68	147 eP	38	58.86	0.2	
		eS	39	08.21		
TPP	0.74	181 eP	38	58.92	-0.8	
		eS	39	07.12		

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

? SEP 01, 1991 12h 13m 09.20± 0.82s
16.806 S ±26.5km 179.500 W ±22.2km
DEPTH = 420.0km (geophysicist)
4.8mb (12 obs.)
FIJI ISLANDS REGION (1B1)

BRS	27.70	243 iPd	18	25.00	1.7	
	1.0s	7.90nm			4.1mb	
COO	29.46	237 iPc	18	39.60	0.9	
RMO	30.97	246 iPd	19	03.10	11.4X	
	0.5s	33.00nm				
		e	20	37.00		
		e	22	10.00		
CNB	33.30	230 iPd	19	11.70	0.2	
	0.8s	51.00nm			4.9mb	
CMS	34.68	239 iPd	19	23.00	-0.1	
	0.7s	31.00nm			4.8mb	
OLP	34.97	248 iPc	19	26.50	0.9	
	0.3s	34.00nm			5.2mb	
TOO	37.08	229 iPc	19	42.80	-0.2	
	0.9s	48.00nm			4.9mb	
STK	38.27	240 iPd	19	53.30	0.5	
	0.3s	13.40nm			4.8mb	
OIS	38.85	258 eP	19	58.20	0.5	
BFD	39.09	231 iPc	19	58.90	-0.6	
WR2	43.79	259 iPc	20	37.70	0.2	
	0.8s	31.20nm			4.7mb	
WRA	43.81	259 P	20	37.00	-0.7	
	0.7s	26.40nm			4.7mb	
ASPA	44.10	253 iPd	20	40.20	0.2	
	0.5s	136.10nm			5.6mb	
		iS	26	34.30		
FORR	49.52	244 eP	21	18.80	-2.7	
	0.3s	31 00nm			5.1mb	
WARB	50.67	250 eP	21	29.00	-1.2	
	0.3s	10.00nm			4.6mb	
CHTO	87.64	290 eP	25	12.80	-0.2	
	0.9s	1.92nm			3.9mb	
CLL	144.16	347 iPKPd	31	51.90	-5.2X	
	1 2s	10.00nm				
PRU	145.01	344 ePKP	31	55.00	-3.6X	
KHC	146.05	345 ePKP	31	57.50	-2.9X	

01d 12h

LPF	148.83	2	ePKP	32 04.10	-0.7
LOR	149.50	355	ePKP	32 06.10	0.2
	0.4s	1.15nm			
SSF	149.73	356	ePKP	32 06.50	0.3
	0.4s	1.15nm			
LBF	149.77	355	ePKP	32 06.60	0.3
	0.6s	2.25nm			
TCF	150.57	358	ePKP	32 08.20	0.6
	0.4s	1.15nm			

S.D. = 1.0 on 20 of 24 obs.

? SEP 01, 1991 12h 35m 19.82± 1.38s
40.388 N ± 7.9km 23.440 E ±14.8km
DEPTH = 10.0km (geophysicist)
GREECE (364)

OUR	0.42	97	iPc	35 28.21	-0.1
			eS	35 34.72	
SOH	0.44	351	iPd	35 28.42	-0.3
			eS	35 35.12	
PAIG	0.50	158	ePd	35 29.92	0.0
SRS	0.74	9	ePc	35 34.72	0.4
			iS	35 45.82	

S.D. = 0.6 on 4 of 4 obs.

SEP 01, 1991 12h 49m 57.11± 0.32s
40.927 N ± 4.3km 20.809 E ± 2.7km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
ML 3.2 (SKO). MD 3.4 (THE).

OHR	0.18	358	iPgc	50 01.80	0.5
			iSg	50 06.20	
FNA	0.45	108	iPd	50 05.16	-1.2
			eS	50 12.40	
SKO	1.15	24	iPg	50 19.00	0.4
			i	50 20.90	
			iSg	50 36.60	
GRG	1.21	88	ePd	50 19.00	-0.6
			eS	50 36.92	
VAY	1.39	73	iPn	50 22.40	-0.1
			iSg	50 42.40	
IGT	1.44	195	ePc	50 23.24	0.0
			eS	50 41.92	
LIT	1.52	122	ePc	50 24.37	-0.1
			eS	50 46.36	
KNT	1.60	81	ePc	50 25.82	0.3
			eS	50 47.64	
THE	1.66	100	ePc	50 26.64	0.2
			eS	50 49.48	
SOH	1.93	92	iPd	50 30.60	0.2
			eS	50 56.68	
KKB	1.95	61	iP	50 31.00	0.4
SRS	2.11	84	iPd	50 32.80	-0.2
AGG	2.23	148	iPd	50 34.52	-0.2
			eS	51 03.40	
LCI	2.25	256	P	50 35.80	0.9
MMB	2.30	72	eP	50 36.00	0.3
PAIG	2.41	114	ePd	50 36.44	-0.7
VTS	2.45	46	eP	50 39.00	1.1
OUR	2.49	103	ePc	50 39.36	1.1
BRT	2.73	270	P	50 43.00	1.2
RZN	3.04	74	iP	50 45.90	-0.4
HVAR	3.95	306	ePn	50 56.70	-2.3
MGR	4.08	261	P	51 00.80	-0.1
			eSn	51 38.00	
SGO	4.19	267	P	51 03.20	0.7
SDI	5.32	281	P	51 18.80	0.2
VBY	6.11	320	e(Pn)	51 28.60	-1.0
			e(Sn)	52 38.60	
VOY	7.16	318	ePn	51 43.80	-0.7
			eSn	53 05.70	

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

% SEP 01, 1991 13h 06m 57.04± 0.68s
37.995 N ± 9.1km 15.115 E ± 6.0km
DEPTH = 10.0km (geophysicist)
SICILY (398)

ATN	0.32	59	P	07 04.50	0.8
			eSg	07 09.20	
MNO	0.34	259	Pd	07 04.40	0.3
			eSg	07 09.90	
SOI	0.75	84	P	07 11.60	0.0
			eSg	07 23.50	
GIB	0.86	270	P	07 13.70	0.0
			eSg	07 25.50	
MEU	0.90	189	P	07 14.20	-0.2
			eSg	07 28.00	
CZI	1.46	33	P	07 22.50	-0.9

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

SEP 01, 1991 13h 21m 31.55± 0.60s
45.406 N ± 6.7km 26.842 E ± 7.7km
DEPTH = 27.9 ± 8.6 km
3.0mb (1 obs.)
ROMANIA (358)

BRD	0.18	53	ePd	21 36.50	-0.9
VRI	0.47	350	iPc	21 39.00	-2 4
MLR	0.64	278	iPd	21 45.00	0.8
PPE	0.98	33	iPd	21 50.80	1.5
TLB	1.18	134	ePd	21 53.00	0.9
CLI	1.19	15	eP	21 52.20	-0.1
IAS	1.86	15	eP	22 07.00	5.0X
MDB	1.87	294	ePc	22 03.00	0.7
DRA	1.97	249	ePd	22 14.00	10.3X
PSN	1.97	150	eP	22 05.00	1.3
PVL	2.44	207	iP	22 14.00	3.6X
BMR	3.24	316	ePd	22 22.00	0.4
DMK	3.64	169	ePn	22 27.30	-0.1
VTS	3.85	224	eP	22 31.00	0.6
KDZ	3.89	196	iP	22 32.00	1.0
RZN	4.02	203	iP	22 34.00	1.0
CTT	4.41	164	ePn	22 37.80	-0.5
MMB	4.44	212	eP	22 17.00	-21.7X
KKB	4.47	219	eP	22 37.00	-2.2
MFT	4.63	176	ePn	22 39.00	-2.5
VAY	5.13	219	ePn	22 41.40	-7.1X
NAO	18.10	334	P	25 38.20	-4.2X
	0.4s		0.50nm	3.0mb	

S.D. = 1.5 on 16 of 22 obs.

% SEP 01, 1991 13h 39m 12.97± 0.90s
45.513 N ± 6.6km 26.905 E ± 9.7km
DEPTH = 10.0km (geophysicist)
ROMANIA (358)

BRD	0.10	88	iPc	39 17.00	1.3
VRI	0.38	341	iPc	39 20.00	-0.7
ISR	0.45	214	eP	39 23.00	0.8
PPE	0.86	35	eP	39 30.00	0.5
CLI	1.07	14	iPd	39 33.00	-0.1
TLB	1.22	139	eP	39 34.00	-1.7

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

? SEP 01, 1991 15h 41m 26.63± 4.63s
32.368 S ±30.8km 71.713 W ±23.1km
DEPTH = 23.1 ± 6.6 km
NEAR COAST OF CENTRAL CHILE (135)

IHA	0.66	175	eP	41 39.50	0.1
			iS	41 46.50	
ROCH	0.84	136	iPd	41 42.60	-0.1
			iS	41 51.70	
JACH	1.00	109	iPd	41 45.30	0.1
			iS	41 56.80	
LCCH	1.11	174	iP	41 46.80	0.0
			iS	41 58.50	
PEL	1.16	132	iPd	41 47.50	0.0
			iS	42 00.00	
SAN	1.40	141	eP	41 50.50	-0.3
			iS	42 06.00	
TACH	1.44	153	iP	41 51.10	-0.3
LNV	1.60	171	eP	41 53.50	-0.3
			iS	42 12.50	
PCH	1.61	141	iPc	41 54.10	0.2
			iS	42 12.50	
CHCH	1.80	151	iPc	41 57.30	0.6
			iS	42 17.80	

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

SEP 01, 1991 15h 59m 01.13± 0.62s
38.593 N ± 6.2km 21.715 E ± 5.3km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 3.0 (ATH). MD 3.2 (THE).

AGG	0.64	48	ePc	59 13.60	-0.5
			eS	59 24.20	
VLS	0.98	245	ePg	59 18.30	-1.4
			eSg	59 33.20	
IGT	1.43	312	ePd	59 26.64	-0.4
			iS	59 49.36	
LIT	1.62	22	ePc	59 29.62	-0.2
			eS	59 51.44	
ATH	1.69	111	ePb	59 30.50	-0.4
KZN	1.71	1	ePn	59 32.00	0.8
KEK	1.86	308	ePb	59 33.00	-0.3
PAIG	2.03	48	iPc	59 34.66	-1.0
			eS	59 59.60	
VLI	2.11	152	ePb	59 38.50	1.6
FNA	2.20	353	ePc	59 39.00	0.7
THE	2.25	25	ePc	59 40.24	1.3
GRG	2.42	12	ePc	59 42.76	1.4
OUR	2.47	45	ePc	59 41.30	-0.7
SOH	2.56	29	iPd	59 43.20	-0.2
			iS	00 14.98	
OHR	2.61	345	ePn	59 45.20	1.1
KNT	2.72	19	ePc	59 45.44	-0.3
			eS	00 19.28	
VAY	2.80	13	ePn	59 44.70	-2.1
SKO	3.38	357	ePn	59 59.90	4.9X
			e	00 26.50	
CSI	4.38	287	P	00 10.90	1.7
CZI	4.40	280	P	00 08.40	-1.0
			eSn	00 49.80	

S.D. = 1.1 on 19 of 20 obs.

? SEP 01, 1991 17h 12m 58.61± 5.53s
35.726 S ±46.5km 72.516 W ±20.9km
DEPTH = 10.0km (geophysicist)
NEAR COAST OF CENTRAL CHILE (135)

LNV	1.99	28	ePd	13 33.10	0.5
			iS	13 56.00	
CHCH	2.36	41	iPd	13 37.00	-1.0
LCCH	2.38	19	iPd	13 38.50	0.3
TACH	2.44	33	iPd	13 38.90	-0.3
PCH	2.67	39	iPd	13 41.20	-1.3
			iS	14 11.00	
SAN	2.74	35	ePd	13 42.50	-0.9
IHA	2.79	15	eP	13 44.70	0.6
			e(S)	14 26.00	
PEL	2.99	31	iPd	13 46.70	-0.2
			iS	14 20.00	
ROCH	3.02	25	iPd	13 47.50	0.0
			iS	14 21.50	
JACH	3.43	28	iPd	13 53.00	-0.3
			iS	14 30.00	
MDZ	4.15	48	eP	14 05.50	2.0
			i	14 18.10	
			i	15 14.70	
CNCB	19.27	13	P	17 27.70	0.9
LPB	19.52	13	P	17 29.00	-0.6
ZOBO	19.77	13	P	17 32.00	-0.5
	Z 20s		0.64um		
			LR	56 14.00	
SIV	22.15	30	P	17 51.00	-5.3X

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

SEP 01, 1991 17h 28m 28.08± 0.82s
40.840 N ± 7.1km 22.999 E ± 7.4km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 2.1 (THE).

THE	0.21	187	iPd	28 33.26	0.6
			eS	28 36.28	
SOH	0.27	94	iPd	28 35.69	1.9X
			eS	28 40.92	
KNT	0.33	347	iPc	28 35.42	0.5
GRG	0.47	285	iPc	28 36.98	-0.6
			eS	28 43.36	
SRS	0.53	58	ePd	28 40.00	1.2
			eS	28 47.72	
PAIG	1.05	150	ePc	28 49.00	1.1
EZN	2.74	111	ePn	29 36.40	23.6X
MFT	3.25	90	ePn	29 39.00	18.8X
EDC	3.74	96	ePn	29 31.00	4.0X
IZM	4.10	125	ePn	29 31.00	-1.1
DST	4.48	104	iPg	29 23.50	-14.1X
			eSg	29 33.50	
YLV	4.85	91	ePn	29 41.20	-1.7
IZI	4.95	94	ePn	29 40.20	-4.2X

S.D. = 1.4 on 7 of 13 obs.

---

* SEP 01, 1991 17h 48m 19.47± 1.31s
5.883 S ± 7.9km 77.066 W ±17.1km
DEPTH = 41.4 ± 14.4 km
4.3mb (1 obs.)

NORTHERN PERU (111)

NNA	6.07	178	iPc	49	49 20	0.0
	0.7s	109.59nm				5.5mb X
			iS	50	54.50	
PURC	8.18	5	eP	50	19.00	-0.1
HOOC	9.30	3	eP	50	34.52	0.2
ANCC	9.34	1	ePc	50	34.93	0.3
ARE	11.85	153	e(P)	51	22.00	12.9X
ZOBO	13.54	140	P	51	31.00	-0.9
LPB	13.75	141	P	51	34.00	-0.5
			i	55	20.00	
CNCB	14.04	141	eP	51	41.00	2.6
			i	51	48.00	
UPA	14.97	351	eP	51	50.00	0.0
SIV	18.62	124	P	52	34.20	-1.9
ALO	49.15	328	eP	57	05.00	-0.6
SES	63.27	336	eP	58	46.00	-0.2
PNT	66.26	331	eP	59	06.00	0.4
KIC	73.20	82	P	59	49.80	1.1
YKA	73.97	343	eP	59	51.00	-1.2
	0.4s	1.40nm				4.3mb
MBC	85.57	351	eP	00	55.00	0.8
WRA	139.84	229	PKP	07	55.00	9.1X
	0.7s	0.60nm				
LZH	149.93	359	ePKP	08	08.00	5.5X
	1.2s	32.00nm				
GKN	151.97	36	PKP	08	13.00	7.2X
KKN	152.51	36	PKP	08	14.00	7.3X

S.D. = 1.2 on 15 of 20 obs.

SEP 01, 1991 18h 37m 20.22± 0.82s
45.583 N ± 7.7km 26.777 E ± 7.9km
DEPTH = 10.0km (geophysicist)
3.0mb (1 obs.)

ROMANIA (358)

BRD	0.20	109	iPc	37	24.00	-0.7
ISR	0.47	200	ePc	37	30.00	0.1
MLR	0.59	261	iPc	37	33.00	0.7
PPE	0.86	42	eP	37	38.20	1.4
TLB	1.33	138	eP	37	40.60	-4.2X
PTT	1.38	349	eP	37	45.50	0.0
IAS	1 70	18	eP	38	11.00	21.0X
NAO	17.93	334	P	41	29.30	-1.6
	0.5s	0.70nm				3.0mb

S.D. = 1.3 on 6 of 8 obs.

---

* SEP 01, 1991 19h 00m 59.76± 0.77s
30.429 N ±12.7km 69.822 E ± 7.0km
DEPTH = 33.0km (normal)

PAKISTAN (710)

QUE	2.50	265	eP	01	39.10	0.0
			eS	02	11.80	
GAR	8.56	3	eP	03	04.50	0.0
GKN	13.16	97	P	04	06.50	-0.6
DMN	13.67	98	P	04	13.98	0.2
KKN	13.77	97	P	04	15.66	0.5
PKI	13.94	98	P	04	17.88	0.4
GUN	14.25	96	P	04	21.08	-0.5

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

% SEP 01, 1991 19h 03m 29.95± 1.17s
11.139 N ± 6.0km 61.760 W ±13.4km
DEPTH = 10.0km (geophysicist)

WINDWARD ISLANDS (95)
MD 3.3 (TRN).

TCE	0.44	179	ePd	03	39.10	0.2
			eS	03	45.48	
TRN	0.60	144	ePd	03	42.02	-0.1
			eS	03	51.34	
TPP	0.87	160	eP	03	46.50	-0.2
			eS	03	58.01	
GRW	1.02	5	eP	03	49.25	0.0
			eS	04	04.48	
BOT	1.02	88	eP	03	49.39	0.1
			eS	04	05.05	

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

SEP 01, 1991 19h 24m 18.67± 0.44s
47.668 N ± 4.2km 7.316 E ± 3.7km
DEPTH = 10.0km (geophysicist)

SWITZERLAND (544)
ML 2.4 (LDG), 2.0 (STR).

BBS	0.24	147	Pg	24	23.24	-0.6
			Sg	24	26.38	
BSF	0.39	295	Pg	24	26.60	-0.1
			Sg	24	31.00	
LOMF	0 46	226	Pg	24	27.40	-0.6
			Sg	24	33.07	
FEL	0.51	66	ePg	24	28.79	-0.3
ECH	0.56	349	Pg	24	30.06	0.0
HAU	0.73	298	Pg	24	33.00	-0.1
			Sg	24	42.80	
CDF	0.75	358	Pg	24	33.57	0.2
			Sg	24	44.43	
ZLA	0.75	104	eP+	24	33.50	0.1
SLE	0.80	83	ePd	24	33.70	-0.5
VITF	1.05	302	Pg	24	38.91	0.4
			Sg	24	52.93	
GWF	1.33	9	Pg	24	43.12	0.0
			Sg	25	02.21	
MMK	1.68	164	ePd	24	50.20	1.8X
VDL	1.89	128	ePd	24	53.90	2.5X
TMA	1.89	145	ePc	24	53.10	1.6
LPG	2.21	190	Pg	24	58.50	2.4X
			Sg	25	27.00	
LBF	2.37	254	Pg	25	02.80	4.5X
			Sg	25	31.80	
LOR	2.38	262	Pg	25	03.20	4.9X
			Sg	25	33.00	
SMF	2.58	248	Pg	25	06.50	5.3X
			Sg	25	38.00	
SSF	2.66	258	Pg	25	08.40	6.1X
			Sg	25	41.00	

S.D. = 0.7 on 12 of 19 obs.

---

* SEP 01, 1991 19h 46m 37.11± 1.75s
36.613 N ±12.8km 71.378 E ± 8.9km
DEPTH = 51.4 ± 19.3 km
4.6mb (8 obs.)

AFGHANISTAN-TAJIKISTAN BORD REG.(717)

QUE	7.40	211	iPd	48	25.50	0.2
			eS	49	42.70	
NDI	9.31	146	iPd	48	52.50	1.0
	0.8s	59.70nm				5.7mb X
			eS	50	31.00	
MAIO	9.58	272	iPc	48	53.80	-1.5
	0.8s	20.50nm				5.3mb X
			eS	50	33.00	
GKN	14.11	124	P	49	56.08	0.1
	0.5s	157.00nm				5.9mb X
KKN	14.68	123	P	50	03.08	-0.4
	0.5s	160.00nm				5.6mb X
DMN	14.68	124	P	50	02.68	-0.8
	0.4s	66.00nm				5.3mb X
PKI	14.91	123	P	50	06.06	-0.5
GUN	15.01	121	P	50	07.86	-0.1
	0.4s	57.00nm				5.2mb
HYB	20.15	160	eP	51	11.70	1.9
GBA	23.55	165	Pd	51	43.80	0.2
	0.5s	10.80nm				4.6mb
CHTO	30.01	119	eP	52	44.70	1.5
	0.6s	0.42nm				3.3mb X
NUR	37.91	324	eP	53	52.00	1.3
SOD	39.76	335	eP	54	07.00	0.9
HFS	43.17	322	eP	54	34.20	0.2
	0.6s	10.80nm				4.8mb
NAO	44.64	323	P	54	45.90	-0.1
	0.6s	5.30nm				4.5mb
EKA	52.42	316	P	55	46.00	-0.2
	1.9s	15.00nm				4.7mb
YKA	81.12	3	eP	58	48.50	0.7
	0.4s	0.80nm				4.0mb
WRA	81.79	122	P	58	50.00	-2.0
	0.5s	1.00nm				4.1mb
WR2	81.81	122	eP	58	49.80	-2.3
	0.5s	2.30nm				4.4mb

S.D. = 1.2 on 19 of 19 obs.

---

* SEP 01, 1991 20h 17m 44.54± 1.06s
38.695 N ±13.0km 119.843 E ± 9.6km
DEPTH = 10.0km (geophysicist)
3.6mb (1 obs.)

NORTHEASTERN CHINA (658)
ML 3.9 (BJI).

DL2	1.41	81	Pn	18	10.40	0.2
			Pg	18	12 70	
			Sg	18	29.50	
BJI	3.14	296	ePn	18	34.00	-1.0
			Pg	18	42.00	
			Sn	19	10.00	
TIA	3.29	222	Pn	18	36.40	-0.8
TIY	5.92	263	ePn	19	16.00	1.6
Z	12s	0.50um				
N	13s	0.40um				
NJ2	6.68	187	ePn	19	25.00	-0.1
			Sn	20	44.50	
HHC	6.73	291	Pg	19	50.40	24.4X
			Sg	21	15.00	
SSE	7.66	171	Pn	20	03.00	24.2X
Z	16s	0.40um				
E	16s	0.50um				
			Pg	20	30.50	
			Sn	21	22.00	
			Sg	21	53.60	
XAN	9.95	246	P	20	06.70	-4.0X
CD2	15.31	244	P	21	27.80	5.4X
WRA	59.89	164	P	27	55.00	2.1X
	0.8s	0.40nm				3.6mb

S.D. = 1.4 on 5 of 10 obs.

% SEP 01, 1991 22h 02m 32.76± 0.74s
40.613 N ± 6.2km 23.166 E ± 6.4km
DEPTH = 10.0km (geophysicist)

GREECE (364)
MD 1.7 (THE).

THE	0.15	277	ePd	02	36.70	0.3
			eS	02	38.98	
SOH	0.25	34	ePc	02	38.50	0.3
			iS	02	42.26	
KNT	0.59	340	iPd	02	44.17	-0.4
			eS	02	52.14	
SRS	0.60	32	iPc	02	44.66	-0.2
OUR	0.68	114	ePd	02	46.58	0.3
			eS	02	56.02	
PAIG	0.79	150	ePd	02	47.70	-0.4

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

SEP 01, 1991 22h 34m 33.28± 0.28s
10.821 S ± 4.7km 41.252 E ± 5.7km
DEPTH = 29.1km (7 depth phases)
4.8mb (38 obs.)

NORTHWEST OF MADAGASCAR (574)

NPA	4.67	204	iPgc	35	46.00	2.4
			iS	36	48.00	
CLK	7.79	231	iP	36	25.60	-2.0
SONG	9.52	239	eP	36	50.40	-1.3
			iSn	38	30.50	
			iS	39	31.90	
KRI	12.78	241	iPd	37	23.90	-12.1X
			ipP	37	43.10	
			i	39	45.80	
LWI	15.02	304	iPc	38	03.10	-2.4
			i(S)	40	29.80	
			i	40	35.40	
BUL	15.30	231	iPd	38	08.00	-1.1
	1.0s	36.00nm				4.6mb
			ipP	38	15.00	
			i	40	56.20	
			i	41	42.60	
BFT	18.20	214	eP	38	45.50	-0.3
	0.5s	35.21nm				4.8mb
JOZ	18.65	206	eP	38	49.50	-1.6
	0.2s	277.78nm				6.1mb X
KSR	20.21	220	eP	39	10.00	1.1
	0.7s	12.50nm				4.4mb
PRY	20.62	217	eP	39	14.50	1.3
	1.0s	25.00nm				4.6mb
FRS	23.99	216	iPc	39	47.20	0.9
	0.7s	30.82nm				4.9mb
			i	39	56.00	31km
HVD	24.53	214	eP	39	44.00	-7.8X
			e	39	56.00	48kmX
WIN	25.87	240	e(P)	40	03.00	-1.6
	1.0s	37.00nm				5.0mb
CER	30.15	219	e(P)	40	50.00	6.8X
	1.0s	40.00nm				5.2mb
GBA	43.33	57	Pc	42	34.30	-0.4
	1.2s	18.00nm				4.7mb
QUE	47.69	31	eP	43	10.80	1.3
KIC	48.86	288	P	43	19.54	0.9
LIC	49.08	288	P	43	21.12	0.8
TIC	49.22	289	P	43	22.02	0.6

01d 22h

LKO	50.79	292	P	43 33.76	0.3	
GAR	56.48	27	eP	44 25.50	10.3X	
GKN	57.03	46	P	44 17.46	-1.9	
DMN	57.13	47	P	44 18.72	-1.5	
PKI	57.33	47	P	44 19.68	-2.0	
KKN	57.36	47	P	44 18.30	-3.5X	
GUN	57.86	47	P	44 17.18	-8.3X	
VRI	57.92	348	eP	44 26.00	0.9	
ZST	62.54	342	eP	44 55.70	-0.9	
SPC	62.55	345	iP	44 56.50	-0.4	
CHG	64.05	63	eP	45 07.00	-0.1	
			e	45 15.00	26km	
CHTO	64.05	63	eP	45 06.70	-0.4	
	1.0s		7.75nm		4.8mb	
			pP	45 15.00	27km	
LPG	64.10	334	eP	45 06.60	-0.7	
	0.8s		4.05nm		4.6mb	
LPL	64.12	334	eP	45 06.70	-0.7	
	1.0s		5.00nm		4.6mb	
KHC	64.48	340	P	45 08.00	-1.4	
KSP	65.14	343	ePc	45 13.30	-0.3	
TOL	65.63	323	eP	45 26.00	9.0X	
OBN	65.79	357	iPc	45 17.20	-0.4	
	1.2s	*******	nm		8.3mb X	
			e	45 26.00	28km	
			e	45 42.00		
CAF	65.82	331	eP	45 19.20	1.1	
	1.0s		4.00nm		4.5mb	
BRG	65.87	341	eP	45 18.10	-0.2	
			e	45 29.00	36km	
BSF	65.92	335	eP	45 18.80	0.0	
	0.8s		5.35nm		4.7mb	
CDF	66.19	336	eP	45 19.90	-0.6	
	0.8s		5.35nm		4.7mb	
HAU	66.24	335	eP	45 20.80	0.0	
	0.8s		4.05nm		4.6mb	
SMF	66.27	333	eP	45 21.20	0.3	
	1.2s		8.95nm		4.8mb	
MOX	66.43	340	i(P)	45 21.80	-0.1	
LBF	66.47	333	eP	45 22.40	0.2	
	1.2s		11.90nm		4.9mb	
MAF	66.53	332	eP	45 23.70	1.1	
	1.0s		6.00nm		4.7mb	
CLL	66.55	341	iPc	45 22.20	-0.4	
AVF	66.60	333	eP	45 23.40	0.4	
	1.2s		11.90nm		4.9mb	
BGF	66.66	332	eP	45 24.00	0.6	
	1.0s		8.00nm		4.8mb	
LOR	66.73	333	eP	45 24.20	0.3	
	1.0s		10.00nm		4.9mb	
SSF	66.73	333	eP	45 24.00	0.1	
	1.0s		4.00nm		4.5mb	
TCF	66.75	332	eP	45 25.30	1.3	
	1.2s		11.90nm		4.9mb	
LSF	67.04	331	eP	45 26.90	1.0	
	1.0s		6.00nm		4.7mb	
WLF	67.63	336	P	45 31.00	1.5	
ENN	68.60	337	eP	45 36.00	0 5	
	0.8s		6 00nm		4.7mb	
LDF	69.51	332	eP	45 41.50	0.3	
	1.0s		8.00nm		4.8mb	
LPF	69.54	331	eP	45 41.80	0.5	
	1.0s		12.00nm		4.9mb	
GRR	69.71	332	eP	45 42.70	0.3	
	1.0s		8.00nm		4.8mb	
FLN	69.80	332	eP	45 43.10	0.2	
	1.0s		8.00nm		4.8mb	
NUR	72.32	351	iP	45 57.50	-0.3	
	0.7s		17.40nm		5.2mb	
GYA	73.51	58	P	46 05.00	-0.7	
	1.0s		30.00nm		5.3mb	
			pP	46 14.00	29km	
KAF	73.64	353	iP	46 05.50	0.0	
	0.8s		14.20nm		5.0mb	
HFS	74.07	346	eP	46 07.40	-0.7	
	0.9s		6.50nm		4.6mb	
NAO	75.37	345	P	46 15.60	0.0	
	0.8s		6.20nm		4.7mb	
EKA	75.65	336	Pc	46 18.30	1.0	
	0.7s		2.60nm		4.4mb	
DCN	76.06	332	eP	46 20.00	0.3	
DMU	76.26	333	eP	46 22.00	1.2	
XAN	78.11	52	eP	46 30.50	-1.0	
SOD	78.70	354	eP	46 35.00	1.0	
KEV	80.99	355	eP	46 35.00	-11.2X	
HHC	82.56	46	eP	46 56.00	0.9	
ASPA	88.12	114	eP	47 24.00	0.9	

	1.2s		3.40nm		4.5mb	
WRA	89.23	110	P	47 29.00	0.6	
	0.8s		5.20nm		4 9mb	
WR2	89.25	110	iPc	47 29.10	0.6	
	0.8s		5.60nm		4.9mb	
			i	47 38.00	28km	
YKA	125.55	347	ePKP	53 32.70	-0.3	
	0.8s		1.00nm			
GSC	148.51	324	ePKP	54 19.00	3.3X	
SBB	149.53	325	ePKP	54 25.00	7.7X	
	S.D. = 1.0		on 67 of 77 obs.			

? SEP 01, 1991 22h 51m 26.25± 3.30s
36.107 N ±29.7km 22.578 E ±13.7km
DEPTH = 33.0km (normal)
3.6mb (1 obs.)
SOUTHERN GREECE (368)
ML 3.7 (ATH).

VLI	0.67	25	ePb	51 39.50	0.2	
ATH	2.07	26	ePb	52 02.50	3.1X	
			eSn	52 34.00		
VAY	5.21	360	ePn	52 46.40	2.6X	
SOI	5.57	293	P	52 48.90	-0.1	
			eSn	53 47.50		
LCI	5.57	321	P	52 48.00	-1.0	
			eSn	53 47.90		
SKO	5.92	352	ePn	52 54.00	0.0	
ATN	6.04	292	P	52 55.50	-0.2	
BRT	6.36	320	P	53 00.30	0.2	
			eSn	54 07.00		
MGR	6.84	308	P	53 07.40	0.5	
			eSn	54 22.50		
SGO	7.24	310	P	53 12.90	0.5	
HFS	24.72	349	eP	56 45.20	-0.3	
	0.4s		0.80nm		3.6mb	
	S.D. = 0.5		on 9 of 11 obs.			

% SEP 01, 1991 23h 22m 59.83± 1.37s
40.465 N ±13.1km 14.803 E ±13.2km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.40	76	P	23 08.00	0.1	
			eSg	23 15.00		
MGR	0.66	119	P	23 11.10	-1.9	
			eSg	23 21.20		
MMN	1.08	122	P	23 21.40	1.4	
CSI	1.33	121	P	23 24.90	0.5	
SDI	1.45	329	P	23 26.10	0.0	
			eSg	23 43.40		
CZI	1.61	140	P	23 28.30	-0.1	
	S.D. = 1.4		on 6 of 6 obs.			

* SEP 02, 1991 00h 27m 17.65± 0.61s
32.854 S ±10.0km 67.631 W ± 9.5km
DEPTH = 202.7 ± 8.9 km
MENDOZA PROVINCE, ARGENTINA (139)

MDZ	1.03	268	iPc	27 47.80	-0.4	
			iS	28 09.80		
JACH	2.50	273	iPc	28 03.10	0.9	
			iS	28 39.50		
PCH	2.53	252	iP	28 03.50	0.9	
			iS	28 41.50		
PEL	2.58	263	iPd	28 03.50	0.4	
			iS	28 40.50		
SAN	2.61	256	iPd	28 04.00	0.6	
			iS	28 41.20		
CHCH	2.75	246	iPd	28 05.50	0.5	
			iS	28 45.60		
ROCH	2.85	267	iP	28 05.50	-0.8	
			iS	28 44.70		
TACH	2.88	253	iPd	28 06.50	0.0	
			iS	28 46.50		
LNV	3.35	250	iP	28 10.00	-2.0	
			iS	28 53.00		
IHA	3.38	266	eP	28 12.00	-0.3	
			eS	28 57.00		
ITB7	14.06	60	Pd	30 29.80	0.4	
IT81	14.20	58	Pd	30 30.50	-0.4	
CCH	15.46	5	(P)	30 55.00	8.0X	
CNCB	15.98	359	P	30 54.00	0.5	
LPB	16 26	358	P	30 57.00	0.3	
ZOBO	16.52	358	P	30 59.30	-0.7	
SIV	17.81	21	P	31 10.80	-3.1X	
PPD	18.03	57	eP	31 11.50	-4.6X	

BRD	115.61	51	iPdiff	41 49.50	-0.4	
WRA	123.45	205	PKP	45 53.00	0.5	
	0.6s		1.30nm			
	S.D. = 0.8		on 17 of 20 obs.			

% SEP 02, 1991 02h 07m 21.18± 0.94s
11.152 N ± 4.5km 61.795 W ± 9.9km
DEPTH = 10.0km (geophysicist)
WINDWARD ISLANDS (95)
MD 3.2 (TRN).

TCE	0.45	175	iPc	07 30.42	0.0	
			eS	07 37.60		
TRN	0.63	142	ePc	07 33.31	-0.5	
			eS	07 42.26		
TPP	0.90	158	eP	07 38.45	0.1	
			eS	07 48.60		
TBH	0.98	133	eP	07 40.22	0.5	
			eS	07 52.18		
TPR	1.00	88	eP	07 40.55	0.4	
			eS	07 53.75		
GRW	1.01	7	eP	07 40.44	0.1	
			eS	07 53.56		
BOT	1.06	89	eP	07 40.57	-0.5	
			eS	07 53.93		
SVB	2.17	14	eP	07 57.83	-0.1	
			eS	08 24.52		
	S.D. = 0.5		on 8 of 8 obs.			

SEP 02, 1991 03h 03m 42.95± 0.38s
42.292 N ± 3.4km 143.019 E ± 3.1km
DEPTH = 65.6 ± 3.5 km
5.2mb (85 obs.)
HOKKAIDO, JAPAN REGION (224)

HOOJ	0.22	65	iP+	03 52.90	-0.3	
MRRJ	1.45	276	P	04 08.60	1.1	
			S	04 27.60		
SAP	1.46	302	iP	04 09.10	1.5	
			iS	04 27.20		
KUSJ	1.48	57	iP+	04 07.70	-0.3	
			S	04 25.90		
ASAJ	1.85	352	iPd	04 13.80	0.9	
AOMJ	2.64	230	eP	04 25.60	1.6	
OFUJ	3.37	198	eP	04 33.70	-0.6	
			eS	05 12.30		
YAMJ	4.70	210	eP	04 53.10	0.0	
NIIJ	5.92	213	P	05 09.80	-0.2	
			eS	06 16.70		
KAKJ	6.47	201	P	05 14.20	-3.4X	
			S	06 24.20		
MAT	6.84	215	iPc	05 22.50	-0.4	
	0.8s		63.43nm		5.3mb	
			(S)	06 40.00		
CHJJ	6.97	208	P	05 22.70	-2.0	
			eS	06 40.00		
MTMJ	6.98	217	P	05 25.20	0.3	
IIDJ	7.88	212	P	05 36.40	-0.9	
			eS	07 04.10		
TSRJ	8.69	221	P	05 48.40	0.0	
WKYJ	9.95	218	P	06 04.40	-1.2	
MDJ	10.04	288	eP	06 08.20	1.4	
	4.0s		600.00nm		6.0mb X	
E	14s		0.90um			
YONJ	10.29	230	eP	06 10.80	0.5	
CN2	12.94	283	eP	06 45.60	0.0	
	0.8s		40.00nm		5.3mb	
Z	16s		3.50um			
N	12s		0.50um			
E	12s		0.60um			
			sP	07 02.00		
SNY	14.45	275	Pc	07 05.00	-0.4	
	1.0s		50.00nm		4.8mb	
Z	26s		1.40um			
			epP	07 13.50		
DL2	16.59	265	P	07 31.00	-1.6	
	0.5s		150.00nm		5.4mb	
BJI	20.31	273	eP	08 13.00	-2.8	
	1.2s		52.00nm		4.7mb	
Z	24s		0.71um		3.9MszX	
N	12s		0.31um			
			eS	11 54.00		
SSE	20.71	244	P	08 17.50	-2.4	
Z	20s		0.50um		3.9Msz	
N	16s		0.50um			
E	16s		0.50um			
YAK	21.29	343	iP	08 21.70	-3.9X	

ipP 08 43.00 103kmX
iPP 08 49.00
ePPP 09 01.00
iS 12 11.00
iPSP 12 24.00
eSS 12 40.00
iSSS 19 40.00
NJ2 21.73 250 Pd 08 28.00 -2.2
Z 16s 0.50um 4.0MszX
eS 12 15.00
HHC 23.51 277 eP 08 46.60 -1.2
0.8s 30.00nm 4.8mb
TIY 23.80 269 eP 08 50.50 0.0
Z 22s 0.60um 4.0Msz
N 22s 1.20um
BTO 24.71 277 eP 09 00.00 0.6
N 12s 0.30um
E 12s 0.30um
WHN 25.75 252 eP 09 08.00 -1.0
1.0s 100.00nm 5.3mb
IRK 27.79 304 eP 09 27.00 -0.4
e 09 48.00
XAN 27.90 264 P 09 27.50 -1.1
CVP 30.45 223 eP 09 53.50 2.1
PIP 30.55 225 eP 10 01.50 9.2X
LZH 30.79 272 eP 09 53.00 -1.5
1.0s 86.00nm 5.4mb
GTA 32.55 280 P 10 09.60 -0.3
1.0s 80.00nm 5.5mb
Z 20s 0.60um 4.3Msz
E 15s 0.60um
sP 10 35.00
PcP 12 56.00
ScS 20 32.80
CD2 33.23 263 P 10 14.80 -1.0
GYA 33.61 254 iPc 10 18.80 -0.4
1.0s 30.00nm 5.1mb
QIZ 36.41 241 eP 10 45.20 2.3
KMI 37.23 256 Pc 10 50.50 0.5
1 0s 120.00nm 5.8mb
WMQ 39.81 292 P 11 12.00 0.8
1 5s 60.00nm 5.3mb
Z 24s 1.20um 4.7MszX
PcP 13 17.50
TTA 40.46 38 eP 11 17.30 1.0
0.8s 6.90nm 4.6mb
SVW 40.64 41 eP 11 19.90 2.1
BRW 41.11 25 eP 11 20.30 -1.1
IMA 41.57 33 ePc 11 25.40 0.0
LOE 42.98 248 eP 11 37.50 0.2
LSA 43.19 270 P 11 40.00 0.5
PMR 43.73 40 ePc 11 43.30 0.4
0.8s 12.93nm 4.8mb
CHTO 43.96 252 iPc 11 46.00 0.8
0.7s 26.84nm 5.1mb
FBA 44.04 35 ePc 11 45.80 0.4
0.8s 51.72nm 5.4mb
e 11 58.60
e 12 05.30
BDT 44.97 250 eP 11 53.70 0.3
0.7s 21.50nm 5.1mb
TOA 45.06 39 ePc 11 54.50 0.8
KLU 45.27 40 P 11 54.80 -0.6
NST 45.28 247 eP 11 57.30 1.5
KHT 46.95 248 eP 12 11.00 2.0
NNT 47.74 245 eP 12 17.00 1.8
GUN 48.05 272 P 12 18.32 0.3
0.4s 176.00nm 6.4mb X
KKN 48.56 272 P 12 22.04 0.3
0.8s 267.00nm 6.3mb X
PKI 48.59 272 P 12 22.08 0.0
0 7s 88.00nm 5.9mb
DMN 48.79 272 P 12 23.84 0.3
0.6s 103.00nm 6.0mb
GKN 48.92 273 P 12 24.60 0 1
INK 49.17 29 eP 12 25.00 -0.6
MBC 51 14 18 ePd 12 39.60 -1.0
1.0s 72.00nm 5.7mb
SNG 51.18 239 eP 12 43.80 2.2
GAR 53.69 293 iPc 12 59.30 -0.9
NDI 54.03 278 iPc 13 02.50 -0.2
0.5s 133.80nm 6.2mb X
PSI 55.69 237 iP 13 16.00 1.1
e 16 00.00
YKA 58.67 32 eP 13 34.00 -1.4
0.8s 5.30nm 4.7mb
KEV 58.99 339 iP 13 36.00 -1.5

0.7s 16.00nm 5.3mb
HYB 59.68 266 ePc 13 41.50 -1.5
0.8s 45.70nm 5.7mb
SOD 60.62 337 iP 13 47.30 -1.4
WRA 62.44 189 P 14 00.00 -1.3
0.8s 7.00nm 4.8mb
WR2 62.44 189 iPd 14 01.10 -0.3
0.6s 6.60nm 4.9mb
i 14 16.50
POO 62.47 271 iPc 14 04.60 2.7
GBA 62.94 264 Pc 14 04.20 -0.6
0.7s 16.20nm 5.2mb
PNT 63.60 46 ePc 14 08.00 -0.8
0.8s 13.00nm 5.0mb
KAF 64.22 332 iP 14 11.00 -1.7
0.6s 15.20nm 5.1mb
OBN 64.65 322 iPc 14 14.50 -1.1
1.1s ********nm 8.5mb X
Z 14s 0.40um 4.8MszX
LR 43 06.00
KOD 65.13 261 eP 14 19.20 -0.3
NEW 65.55 46 P 14 21.00 -0.5
0.9s 12.88nm 4.9mb
NUR 65.91 332 iP 14 22.10 -1.4
0.5s 32.30nm 5.5mb
ASPA 66.16 189 eP 14 27.50 2.0
0.9s 5.90nm 4.6mb
i 14 41.20
SES 67.37 42 ePc 14 33.00 -0.1
RMQ 68.64 174 eP 14 52.00 11.0X
FFC 68.64 34 iPc 14 40.40 -0.4
0.8s 17.00nm 5.0mb
IR7 68.65 299 iPc 14 41.40 0.0
IR4 68.74 299 iPc 14 42.00 0.1
IR1 68.77 299 iPc 14 42.30 0.2
UPP 68.78 334 iP 14 40.10 -1.5
LRM 69.57 46 eP 14 47.00 0.0
HFS 69.81 336 eP 14 46.50 -1.4
0.5s 26.40nm 5.4mb
Z 19s 0.08um 4.0Msz
LR 41 09.00
NAO 70.11 337 P 14 48.00 -1.7
0.9s 30.00nm 5.2mb
BONR 71.21 56 P 14 57.50 0.3
FRB 71.38 14 eP 14 56.00 -1.3
TNP 71.79 55 P 15 00.80 0.3
0.8s 6.37nm 4.6mb
CLC 73.01 57 eP 15 08.00 0.5
DUG 73.03 51 P 15 08.00 0.3
BW06 73.14 47 P 15 08.00 -0.4
BSD 73.41 332 iPd 15 08.40 -0.9
0.7s 24.00nm 5.2mb
SBB 73.59 58 eP 15 12.00 1.1
COP 73.79 333 iPd 15 11.60 0.1
0.7s 16.44nm 5.1mb
GSC 73.83 57 eP 15 13.00 0.7
RVR 74.32 58 eP 15 15.00 -0.1
MSU 74.51 52 P 15 17.00 0.6
PLM 75.06 59 eP 15 19.00 -0.6
KAS 75.09 313 eP 15 20.00 0.5
RSSD 75.12 43 P 15 18.50 -1.3
KRA 75.43 326 iPc 15 21.20 0.1
0.6s 62.00nm 5.7mb
e 15 33.20
VRI 75.52 320 ePc 15 22.00 0.2
TLB 75.81 318 eP 15 23.50 0.1
SPC 75.97 325 iP 15 24.00 -0.5
e 15 47.00
ISR 76.14 319 eP 15 26.20 0.9
MLR 76.17 320 eP 15 28.00 2.4
KSP 76.28 328 iPc 15 26.00 0.1
0.8s 28.00nm 5.3mb
e 15 49.00
GLA 76.54 58 eP 15 29.00 1.2
CLL 77.15 330 iPc 15 30.20 -0.5
0.8s 39.00nm 5.4mb
ipP 15 53.40 88kmX
BRG 77.15 330 iPc 15 30.40 -0.3
1.0s 14 00nm 4.9mb
i 15 40.00
GOL 77.54 47 P 15 33.50 0.0
PRU 77.64 329 iPc 15 33.50 0.1
0.7s 13.50nm 5.0mb
e 15 49.50
e 15 56.70
ZST 78 05 326 e(P) 15 35.20 -0.5
MOX 78.19 331 iPd 15 36 60 0.1

1.1s 24.00nm 5.1mb
HOF 78.37 330 iPc 15 37.70 0.2
0.7s 20.00nm 5.2mb
EKA 78.58 341 Pd 15 38.80 0.3
0.6s 7.00nm 4.8mb
KHC 78.70 329 iPc 15 39.50 0.1
0.8s 12.30nm 4.9mb
e 16 02.50
WTS 78.71 334 eP 15 39.50 0.3
0.8s 25.00nm 5.2mb
WET 78.96 329 iPc 15 41.30 0.6
0.9s 28.00nm 5.2mb
BNS 79.47 333 ePc 15 43.80 0.4
ADI 79.99 306 iPc 15 47.40 0.8
ENN 80.05 334 eP 15 46.00 -0.5
0.7s 26.00nm 5.3mb
BHG 80.12 328 iPc 15 47.80 0.8
0.8s 27.00nm 5.2mb
MMB 80.15 318 iP 15 48.00 0.7
MEM 80.16 334 iPc 15 46.94 -0.1
ANMO 80.29 51 P 15 49.00 0.6
0.9s 12.87nm 4.9mb
ALQ 80.30 51 eP 15 49.00 0.6
1.0s 4 75nm 4.4mb
e 16 06.00
KBA 80.46 328 iPc 15 49.20 0.2
0.7s 14.40nm 5.0mb
i 15 55.40
JVI 80.71 305 iPc 15 51.50 1.0
DMU 80.77 343 eP 15 50.30 0.0
SNF 80.80 335 iPc 15 50.38 -0.1
VAY 80.92 319 iP 15 51.70 0.4
WLF 80.92 333 P 15 51.00 -0.1
SKO 80.97 320 iP 15 52.30 0.7
0.8s 56.00nm 5.5mb
WTTA 80.98 329 iPc 15 52.10 0.4
0.6s 20.90nm 5.2mb
i 16 03.00
GWF 81.01 332 P 15 51.32 -0.4
DOU 81.06 334 Pc 15 51.60 -0.3
FVI 81.08 328 P 15 51.90 -0.1
DCN 81.37 343 eP 15 53.60 0.2
0.8s 40.00nm 5.4mb
OGA 81.54 329 iPc 15 55.30 0.6
0.9s 18.00nm 5.0mb
CDF 81.61 332 P 15 54.46 -0.4
LIBD 81.72 332 P 15 55.05 -0.3
ETA 81.72 342 eP 15 57.00 1.7
SLE 81.73 331 ePd 15 55.60 0.2
FEL 81.81 331 P 15 55.27 -0.7
ECH 81.82 332 P 15 55.25 -0.7
OHR 81.94 320 eP 15 56.50 -0.2
0.7s 720.00nm 6.7mb X
CTI 81.98 328 P 15 56.40 -0.5
ZLA 82.01 331 ePd 15 57.30 0.4
OSS 82.03 329 ePd 15 57.60 0.4
VITF 82.22 333 P 15 56.76 -1.2
ECP 82.24 342 eP 15 58.20 0.3
BSF 82.28 332 iPc 15 58.00 -0.4
0.7s 7.70nm 4.8mb
HAU 82.28 332 iPc 15 58.20 -0.1
0.6s 7.20nm 4.8mb
Z 22s 0.13um 4.2Msz
LLS 82.30 330 ePd 15 59.10 0.4
HVAR 82.32 324 eP 15 57.60 -0.9
BBS 82.34 331 P 15 58.27 -0.4
VDL 82.45 330 ePd 16 00.00 0.6
MBH 82.51 304 iPc 16 00.90 1.0
LOMF 82.68 332 P 15 59.71 -0.7
SAL 82.78 329 P 16 00.90 0.0
TMA 82.99 330 ePd 16 02.20 0.0
MMK 83.37 330 ePd 16 05.00 0.7
DIX 83.55 331 ePd 16 05.90 0.7
ARV 83.56 326 P 16 05.20 0.2
SFI 83.66 327 P 16 06.60 1.2
ORX 83.72 330 P 16 05.04 -0.8
PGD 83.75 327 Pc 16 07.30 1.2
LOR 83 76 333 iPc 16 05.90 0.0
0.8s 28.20nm 5.3mb
Z 22s 0.20um 4.5Msz
FLN 83.80 337 iPc 16 06.00 0.0
0.6s 10.80nm 5.0mb
Z 22s 0.08um 4.0Msz
LDF 83.84 336 iPc 16 06.10 -0.2
0.6s 7.20nm 4.9mb
CRE 83.86 327 P 16 06.90 0.3
MME 83.89 328 P 16 07.90 1.0

02d 03h

```
BOB     83.90 329 Pc     16 07.20   0 5
LBF     83.97 333 iPc    16 06.90  -0.1
        0.6s    16.25nm          5.2mb
ASS     84.02 326 P      16 07.90   0.5
SSF     84.06 333 iPc    16 07.50   0.1
        0.8s    20.15nm          5.2mb
LSD     84.18 330 P      16 08.63   0.3
GRR     84.25 337 iPc    16 08.50   0.2
        0.8s    30.90nm          5.4mb
LPL     84.28 331 iPc    16 09.30   0.5
        0.8s    16.10nm          5.1mb
LPG     84.29 331 iPc    16 09.50   0.5
        0.6s    18.05nm          5.3mb
SMF     84.31 333 iPc    16 08.80   0.1
        0.8s    26.85nm          5.3mb
AVF     84.35 333 iPc    16 09.10   0.3
        0.8s    50.35nm          5.6mb
RSP     84.40 330 P      16 08.53  -0.8
PCP     84.44 329 P      16 08.63  -0.8
LPF     84.62 337 iPc    16 10.70   0.5
        0.6s    14.45nm          5.2mb
CKI     84.64 329 P      16 09.80  -0.5
SDI     84.65 324 P      16 10.30  -0.2
BHB     84.66 330 P      16 08.63  -1.9
BGF     84.72 334 iPc    16 11.00   0.3
        0.6s     9.45nm          5.0mb
RRL     84.77 330 P      16 11.60   0.3
FIN     84.85 329 P      16 10.37  -1.1
ROB     84.90 329 P      16 11.19  -0.6
PZZ     85.01 330 P      16 10.78  -1.6
MAF     85.11 334 iPc    16 13.50   0.8
        0.8s    43.00nm          5.6mb
ENR     85.13 330 P      16 10.99  -1.9
STV     85.15 330 P      16 11.09  -1.9
TCF     85.17 334 iPc    16 13.50   0.5
        0.6s     6.75nm          4.9mb
TDS     85.18 322 P      16 13.80   0.7
IMI     85.22 329 P      16 12.83  -0.5
SSB     85.26 332 P      16 13.97   0.4
LSF     85.42 334 iPc    16 14.70   0.4
        0.8s    16.10nm          5.2mb
SBF     85.43 329 iPc    16 14.10  -0.3
        0.8s    38.95nm          5.5mb
TUL     85.44  44 ePc    16 14.40  -0.1
        0.8s    10.80nm          5.0mb
                e        16 20.10
MFF     85.63 336 iPc    16 16.10   0.8
        0.8s    29.55nm          5.4mb
FRF     85.99 330 iPc    16 17.00  -0.1
        0.8s    12.10nm          5.1mb
LRG     86.19 330 iPc    16 18.30   0.3
        0.6s    27.05nm          5.5mb
     Z  22s      0.13um          4.3Msz
LMR     86.24 330 iPc    16 18.50   0.2
        0.7s    31.95nm          5.5mb
RJF     86.26 334 iPc    16 19.20   0.8
        0.8s    14.80nm          5.2mb
     Z  22s      0.13um          4.3Msz
CAF     86.42 333 iPc    16 20.40   1.2
        0.8s    40.30nm          5.6mb
LFF     86.84 334 iPc    16 22.30   1.1
        0.8s    37.60nm          5.6mb
LPO     86.92 334 iPc    16 22.60   0.9
        0.6s    26.15nm          5.6mb
EPF     88.67 334 iPc    16 30.30   0.1
        0.6s     3.60nm          4.8mb
TOL     92.93 335 iPd    16 51.00   1.1
LKO    120.95 323 PKP    22 29.14  -0.6
ZOBO   142.81  55 PKP    23 10.00  -1.5
LPB    143.02  55 ePKP   23 10.00  -1.7
CNCB   143.31  56 PKP    23 11.20  -1.1
SIV    146.62  46 PKP    23 18.00   0.8
ANT    146.68  67 e(PKP) 23 20.00   2.9X
SOB1   146.87   7 ePKP   23 18.90   1.2
SNA    146.89 201 e(PKP) 23 19.00   3.0X
        0.8s    14.93nm
      S.D. = 0.9  on 222 of 228 obs.
-------------------------------------
*  SEP  02, 1991  03h 48m 44.85± 1.26s
    8.629 S ±12.4km  159.005 E ±10 6km
   DEPTH = 130.2 ± 13.2 km
   4.9mb (  5 obs.)
 SOLOMON ISLANDS                 (193)

HNR     1.23 131 iP      49 09.00  -1 3
                iS       49 19.00
PMG    11.73 265 eP      51 31.00   1.7
DZM     15.16 153 iPc    52 14.90   1.4
CTAO    16.79 226 iPd    52 35.00   1 4
        0.9s    95.16nm          5.1mb
BRS     19.57 197 eP     53 06.00   1 0
RMO     20.25 207 eP     53 23.00  11.0X
OIS     22.17 236 iPd    53 31.10   0.0
        0.9s    53.00nm          4.9mb
QLP     22.70 216 eP     53 36.00  -0.1
WR2     26.35 242 iPc    54 09.40  -1 3
        1.0s    23.30nm          4.7mb
ASPA    28.30 235 iPd    54 26.20  -2.1
        0.6s    21.20nm          5.0mb
                i        56 47.80
                eS       59 00.80
WARB    35.32 236 eP     55 28.00  -1.5
SVW     78.05  21 eP     00 31.00   0.7
TTA     79.20  19 ePc    00 36.90   0.3
PMR     80.73  22 ePc    00 44.50  -0.1
IMA     82.10  18 eP     00 52.30   0.4
TOA     82.16  23 eP     00 53.30   1.1
FBA     83.23  20 ePc    00 57.00  -0.5
YKA     95.92  28 eP     01 56.70  -0.9
        0.8s     1.60nm          4.5mb
      S.D. = 1.3  on  17 of  18 obs.
-------------------------------------
?  SEP  02, 1991  04h 16m 45.10± 0.90s
    4.043 N ±38.6km   76.306 W ±47.2km
   DEPTH = 110.0km  (geophysicist)
 COLOMBIA                        (103)
      MD 2.7 (UVC).

BUGC     0.16 162 eP     17 01.73  -0.3
CLMC     0.30 238 eP     17 02.25  -0.3
                eS       17 16.90
HOBC     0.35  29 ePc    17 01.72   0.2
                eS       17 16.10
HOOC     0.66 210 ePd    17 03.98   0.3
                eS       17 20.00
ANCC     0.77 227 eP     17 04.37   0.0
                eS       17 20.80
      S.D. = 0.4  on   5 of   5 obs.
-------------------------------------
   SEP  02, 1991  04h 38m 38.32± 0.61s
   42.258 N ± 7.4km  143.118 E ±11.4km
   DEPTH =  71.6 ±  6.2 km
   4.4mb ( 17 obs.)
 HOKKAIDO, JAPAN REGION          (224)

HOOJ     0.18  45 iP+     38 48.10  -0.6
                S        38 54.60
KUSJ     1.44  54 iPd     39 02.90  -0.1
                eS       39 21.00
MRRJ     1.53 277 P       39 04.20   0.1
                eS       39 22.60
ASAJ     1.89 350 eP      39 09.20   0.1
AOMJ     2.67 232 eP      39 21.10   1.2
                eS       39 52.50
OFUJ     3.36 200 eP      39 29.10  -0.4
                eS       40 08.00
YAMJ     4.71 211 eP      39 48.80   0.3
NIIJ     5.93 214 P       40 05.70   0.2
KAKJ     6.46 202 P       40 10.60  -2.2
                S        41 21.10
MAT      6.86 215 eP      40 19.00   0.7
        0.6s     5.33nm          4.3mb
                eS       41 39.00
CHJJ     6.98 209 eP      40 20.30   0.3
                eS       41 37.10
MTMJ     7.00 218 eP      40 21.10   0.7
TSRJ     8.71 222 P       40 44.70   0.8
CHTO    44.02 252 eP      46 41.90   1.4
        0.6s     1.54nm          4.0mb
GUN     48.13 272 P       47 10.00  -3.3X
        0.4s    16.00nm          5.3mb
KKN     48.64 272 P       47 14.20  -2.9
        0.8s    28.00nm          5.3mb
PKI     48.66 272 P       47 13.60  -3.8X
DMN     48.86 272 P       47 16.00  -2.9
GKN     49.00 273 P       47 16.00  -3.8X
MBC     51.15  18 eP      47 35.00  -0.4
WRA     62.42 189 P       49 05.00   9.1X
        0.8s     0.90nm          3.9mb
GBA     63.01 264 Pd      48 59.10  -0.9
        0.8s     2 20nm          4.3mb
HFS     69.87 336 eP      49 41.60  -1.3
        0.4s     2 30nm          4.5mb
NAO     70 17 337 P       49 43.80  -0.9
        0.7s     1.70nm          4.1mb
LOR     83.83 333 eP     51 01.50   0.6
        0.8s     3.35nm          4.4mb
     Z  20s      0.08um          4.1Msz
LBF     84.04 333 eP     51 02.40   0.4
        0.8s     2.70nm          4.3mb
SSF     84.12 334 eP     51 03.10   0.7
        0.8s     2.70nm          4.3mb
LPL     84.35 331 eP     51 04.90   1.1
        0.6s     1.80nm          4.3mb
LPG     84.36 331 eP     51 04.60   0.6
        0.6s     1.80nm          4.3mb
SMF     84.38 333 eP     51 03.70   0.0
        0.8s     4.05nm          4.5mb
AVF     84.41 334 eP     51 04.80   1.0
        0.6s     3.15nm          4.5mb
MAF     85.17 334 eP     51 08.70   1.0
        0.6s     2.70nm          4.5mb
CAF     86.48 333 eP     51 15.50   1.3
        0.8s     4.05nm          4.6mb
      S.D. = 1.2  on  29 of  33 obs.
-------------------------------------
   SEP  02, 1991  05h 28m 34.93± 0.67s
   39.825 N ± 5.3km   22.748 E ± 5.8km
   DEPTH =  10.0km  (geophysicist)
 GREECE                          (364)
      MD 2.9 (THE).

LIT      0.34 324 ePc    28 41.16  -0.8
                eS       28 47.24
PAIG     0.72  82 ePd    28 49.32   0.2
                eS       29 00.52
THE      0.82  12 ePd    28 50.68  -0.1
AGG      0.87 202 ePc    28 51.36  -0.2
                eS       29 05.20
SOH      1.10  25 iPc    28 55.56   0.0
GRG      1.16 347 ePd    28 57.00   0.4
                eS       29 13.00
KNT      1.34   5 iPc    28 59.40  -0.2
FNA      1.42 313 ePd    29 02.00   1.2
SRS      1.44  26 ePc    29 01.00  -0.1
OHR      1.97 311 e(Pn)  29 08.50  -0.2
      S.D. = 0.6  on  10 of  10 obs.
-------------------------------------
?  SEP  02, 1991  05h 51m 43.14± 6.04s
   43.697 N ±26.1km  128.395 W ±41.0km
   DEPTH =  10.0km  (geophysicist)
 OFF COAST OF OREGON             ( 30)

KMOR     4.00  59 P       52 45.14  -0.7
NLO      4.25  54 P       52 49.12  -0.3
HBO      4.40  86 P       52 51.15  -0.5
BMW      4.59  51 P       52 53.56  -0.7
PGO      4.60  65 P       52 54.85   0.6
GT2      4.62  69 P       52 54.63  -0.1
RVW      4.70  57 P       52 55.63  -0.2
OBH      4.83  40 P       52 57.79   0.2
LVP      4.87  59 P       52 58.19  -0.1
VLMM     4.90  66 P       52 58.54  -0.1
FL2      4.97  58 P       52 59.70   0.1
MTMW     4.97  60 P       52 59.74   0.0
TDH      4.99  69 P       53 00.42   0.5
CZM      4.99  55 P       52 59.19  -0.7
ERK      5.02  57 P       52 59.94  -0.5
SHW      5.03  58 P       53 00.94   0.4
HSR      5.06  59 P       53 01.46   0.5
STD      5.06  58 P       53 01.06   0.1
JLK      5.06  59 P       53 01.05   0.1
VBEM     5.07  72 P       53 01.26   0.2
SMW      5.07  43 P       53 00.72  -0.3
ESD      5.09  58 P       53 02.06   0.7
VLL      5.11  67 P       53 02.00   0.3
SOSW     5.12  58 P       53 02.07   0.3
CDFW     5.12  60 P       53 01.94   0.3
TDL      5.12  57 P       53 01.50  -0.3
KOSW     5.19  56 P       53 02.49  -0.3
VFP      5.21  69 P       53 03.11  -0.1
LMW      5.24  53 P       53 03.48   0.0
GULW     5.33  63 P       53 05.37   0.6
ASR      5.42  61 P       53 06.16   0.1
HDW      5.44  42 P       53 06.61   0.3
LON      5.56  54 P       53 07.90  -0.1
REMR     5.58  54 P       53 08.13  -0.3
GLK      5.59  57 P       53 08.84   0.3
WPW      5.69  56 P       53 09.90   0.0
FMW      5.74  53 P       53 10.39  -0.2
GSM      5.82  51 P       53 11.58   0.0
```

RMW 5.96 49 P 53 13.54 -0.1
JCW 6.37 43 P 53 19.41 0.1
RPW 6.74 43 P 53 24.38 -0.3
MBW 6.79 39 P 53 26.17 0.7
CRF 7.08 61 P 53 29.17 -0.2
S.D. = 0.4 on 43 of 43 obs.

SEP 02, 1991 05h 56m 12.14± 0.79s
36.676 N ± 6.6km 121.506 W ± 9.0km
DEPTH = 5.0km (geophysicist)
CENTRAL CALIFORNIA (39)
MD 2.6 (GM).

SAO 0.10 29 iPd 56 13.93 -0.4
PRS 0.36 162 eP 56 20.93 1.5
GCC 0.53 312 iPc 56 22.51 -0.2
ARN 0.67 358 eP 56 25.30 -0.3
MHC 0.67 351 eP 56 25.75 0.1
iS 56 35.30
PRI 0.86 128 iPc 56 28.16 -1.1
PCC 1.08 320 iPc 56 32.00 -0.9
PHAM 1.23 133 eP 56 33.80 -1.6
BKS 1.33 334 eP 56 38.30 1.1
FRI 1.48 77 eP 56 41.22 1.8
iS 56 54.81
CMB 1.62 33 ePd 57 00.50 19.0X
S.D. = 1.3 on 10 of 11 obs.

* SEP 02, 1991 06h 01m 40.83± 1.67s
37.883 N ±14.1km 20.894 E ± 7.3km
DEPTH = 5.0km (geophysicist)
3.7mb (1 obs.)
IONIAN SEA (399)
ML 3.5 (ATH). MD 3.5 (THE).

VLS 0.38 321 ePg 01 48.60 0.1
AGG 1.60 44 ePc 02 09.36 -0.5
iS 02 33.00
IGT 1.70 345 ePc 02 11.12 -0.2
VLI 2.00 125 ePb 02 17.70 2.0X
KEK 2.02 335 ePg 02 18.00 2.1X
ATH 2.23 87 ePn 02 19.50 0.5
KZN 2.51 15 ePb 02 24.00 0.9
LIT 2.54 29 iPc 02 23.88 0.5
eS 02 58.24
FNA 2.92 7 ePd 02 28.20 -0.7
PAIG 2.98 46 ePc 02 29.24 -0.4
OHR 3.22 359 ePn 02 34.00 0.9
GRG 3.28 20 ePc 02 33.52 -0.5
OUR 3.43 44 ePc 02 36.36 0.4
SOH 3.50 32 ePd 02 36.52 -0.5
eS 03 21.28
KNT 3.62 25 ePd 02 37.64 -1.1
VAY 3.67 20 ePn 02 40.50 1.1
SKO 4.11 6 ePn 02 40.00 -5.6X
EKA 23.84 325 P 06 55.00 -0.4
1.1s 2.50nm 3.7mb
S.D. = 0.7 on 15 of 18 obs.

% SEP 02, 1991 06h 13m 08.37± 1.82s
11.072 N ± 8.1km 61.876 W ±32.4km
DEPTH = 33.0km (normal)
WINDWARD ISLANDS (95)
MD 2.9 (TRN)

TCE 0.39 162 eP 13 17.53 0.1
eS 13 26.80
TPP 0.86 151 eP 13 23.76 -0.3
eS 13 36.17
TBH 0.99 126 eP 13 26.07 0.2
eS 13 38.54
GRW 1.10 11 eP 13 28.02 0.4
eS 13 44.29
SVB 2.27 16 eP 13 43.88 -0.4
eS 14 11.72
S.D. = 0.5 on 5 of 5 obs.

SEP 02, 1991 07h 04m 44.45± 0.58s
41.053 N ± 4.2km 22.089 E ± 4.7km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 2.5 (SKO). MD 3.0 (THE).

GRG 0.26 112 ePc 04 50.20 0.3
VAY 0.45 53 iPg 04 53.20 -0.4
iSg 04 59.00
FNA 0.60 244 ePd 04 56.36 -0.3
eS 05 04.60
KNT 0.62 80 iPc 04 56.68 -0.3
eS 05 04.80
THE 0.79 122 ePc 04 59.32 -0.4
iS 05 10.52
SOH 0.99 103 ePc 05 03.04 -0.2
eS 05 16.56
LIT 1.00 162 ePd 05 03.36 0.0
eS 05 17.28
KKB 1.10 42 iPg 05 05.00 -0.2
SRS 1.14 86 ePd 05 05.60 -0.2
eS 05 20.96
MMB 1.35 66 iPg 05 09.90 0.7
OUR 1.61 116 ePd 05 13.56 0.6
eS 05 35.00
PAIG 1.65 132 ePd 05 13.84 0.2
eS 05 35.92
VTS 1.75 28 iP 05 16.00 0.8
AGG 2.04 175 ePd 05 19.40 0.2
KDZ 2.58 76 eP 05 26.00 -0.9
S.D. = 0.5 on 15 of 15 obs.

SEP 02, 1991 07h 47m 49.95± 0.59s
48.042 N ± 5.6km 6.693 E ± 4.5km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.0 (STR).

BSF 0.22 162 Pg 47 54.54 -0.2
HAU 0.23 261 Pg 47 55.00 0.0
Sg 47 58.40
ECH 0.36 61 Pg 47 57.27 0.0
VITF 0.51 291 Pg 48 00.37 0.2
Sg 48 07.36
CDF 0.54 46 Pg 48 00.50 -0.4
LOMF 0.70 172 Pg 48 03.68 -0.1
Sg 48 13.05
FEL 0.90 100 ePg 48 07.95 0.6
LOR 2.07 249 Pg 48 28.80 3.7X
Sg 48 55.00
LBF 2.12 241 Pg 48 30.00 4.0X
Sg 48 57.00
SMF 2.39 235 Pg 48 35.20 5.4X
Sg 49 06.00
S.D. = 0.4 on 7 of 10 obs.

* SEP 02, 1991 10h 12m 04.75± 0.79s
45.478 N ± 7.3km 20.442 E ± 8.2km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)

TIM 0.61 64 iPc 12 16.00 -1.0
BEO 0.66 179 iPg 12 16.70 -1.1
iSg 12 27.70
UZD 1.71 311 ePn 12 45.40 10.7X
DEV 1.77 76 iPd 12 27.50 -8.1X
BUD 2.23 334 e(Pn) 12 43.00 0.7
PSZ 2.47 351 iPn 12 45.00 -0.8
BMR 3.04 43 ePd 13 01.00 7.2X
ZST 3.56 321 e(P) 13 02.20 1.1
SKO 3.58 168 ePn 13 03.50 2.1X
e 13 51.00
SPC 3.72 358 eP 13 02.50 -1.1
e 13 19.30
e 14 17.50
MLR 3.87 88 eP 13 06.00 0.3
KKB 4.09 151 iP 13 15.00 6.4X
PVL 4.17 121 iPg 13 11.00 1.2
VRI 4.42 83 ePc 13 14.00 0.6
MMB 4.56 147 iPg 13 21.00 5.6X
VAL 21.15 299 iP 17 04.50 12.6X
S.D. = 1.1 on 9 of 16 obs.

SEP 02, 1991 11h 05m 50.48± 0.12s
37.440 N ± 2.7km 95.402 E ± 2.2km
DEPTH = 10.0km (geophysicist)
5.5mb (83 obs.) 4.5Msz (4 obs.)
QINGHAI, CHINA (325)

LZH 6.91 99 iPc 07 34.00 -0.4
1.5s 150.00nm 5.9mb
Z 10s 9.11um
E 10s 7.01um
pP 07 40.00
sP 07 45.00
S 08 49.00
LSA 8.49 206 iPd 07 59.00 2.1
N 10s 2.80um
WMO 8.65 320 iPd 07 57.60 -1.1
1.5s 200.00nm 6.2mb
Z 12s 8.30um
S 09 31.00
CD2 9.50 131 P 08 12.60 2.2
Z 12s 6.50um
S 10 03.00
XAN 11.50 103 P 08 33.40 -4.3X
E 10s 5.40um
pP 08 42.00
S 10 40.00
BTO 11.80 70 P 08 41.00 -0.9
N 11s 2.90um
E 11s 4.00um
GUN 12.43 223 P 08 50.40 -0.2
1.0s 350.00nm 6.6mb X
KKN 12.85 224 P 08 55.26 -0.9
0.9s 306.00nm 6.5mb
PKI 12.95 223 P 08 56.44 -1.1
0.9s 297.00nm 6.5mb
HHC 13.00 70 eP 08 56.80 -1.2
0.9s 20.00nm 5.3mb
GKN 13.05 227 P 08 57.22 -1.6
1.0s 218.00nm 6.3mb
DMN 13.09 224 P 08 58.52 -0.8
0.7s 91.00nm 6.0mb
TIY 13.52 84 Pd 09 01.60 -3.2X
1.0s 60.00nm 5.5mb
Z 10s 6.40um
N 10s 3.20um
E 11s 3.80um
KMI 13.78 151 eP 09 09.50 1.0
2.5s 110.00nm 5.3mb
Z 12s 4.30um
S 11 40.00
GYA 14.52 136 P 09 17.00 -1.1
1.0s 20.00nm 4.7mb
Z 14s 1.90um
N 10s 2.90um
E 10s 0.80um
pP 09 25.80
sP 09 30.00
KSH 15.35 283 P 09 26.00 -2.9
N 10s 3.30um
IRK 16.10 20 eP 09 40.00 1.7
e 09 45.00
e 09 53.30
e 10 09.10
e 10 25.00
e 11 34.80
eS 12 47.00
eSg 14 10.30
BJI 16.41 75 eP 09 43.00 0.6
1.2s 20.00nm 4.1mb X
Z 18s 4.13um 5.3Msz
N 12s 2.48um
WHN 17.14 108 eP 09 53.00 1.4
1.2s 100.00nm 4.8mb
Z 12s 2.30um
N 10s 3.10um
TIA 17.43 87 eP 09 53.20 -2.1
Z 13s 2.90um
N 12s 1.10um
E 11s 2.20um
NDI 17.55 245 eP 09 53.00 -3.7X
GAR 19.76 282 iPc 10 22.00 -1.6
iS 14 00.00
NJ2 19.99 99 Pd 10 25.40 -0.5
Z 10s 1.60um
E 10s 1.70um
sP 10 35.00
S 14 08.00
DL2 20.65 78 Pc 10 32.50 -0.3
0.7s 160.00nm 5.5mb
Z 16s 2.00um 4.6MszX
N 14s 2.30um
E 14s 1.80um
LOE 20.72 163 eP 10 33.00 -0.6
GZH 21.04 128 P 10 35.50 -1.3
Z 12s 3.60um 5.0MszX
N 11s 1.70um
E 10s 2.60um
eS 14 28.00
NST 22.08 168 eP 10 49.00 1.6
SNY 22.09 70 iPc 10 46.50 -0.8
1.4s 200.00nm 5.4mb

02d 11h

```
     Z  18s      4.60um               4.9Msz
     N  10s      1.60um
     E  10s      1.00um
                 S       14 50.00
SSE    22.19  99 Pc      10 48.00   -0.4
       4.0s    400.00nm              5.2mb X
     Z  12s      2.30um               4.8MszX
     N  10s      0.50um
     E  10s      0.90um
                 pP      10 53.50   20kmX
                 S       14 52.00
OIZ    22.27 142 eP      10 48.50   -0.8
     N  12s      0.70um
     E  12s      1.40um
                 S       14 46.00
KHT    22.74 172 eP      10 35.00  -18.9X
OZH    23.35 116 eP      11 00.00    0.2
     Z  16s      1.20um               4.4MszX
     N  10s      0.80um
                 eS      15 15.00
CN2    23.59  65 eP      11 02.00    0.0
       4.0s    500.00nm              5.4mb X
     Z  10s      7.30um               5.4MszX
     N  10s      2.30um
     E  10s      2.40um
                 PcP     14 46.50
                 S       15 16.00
HYB    24.85 221 eP      11 15.00    0.5
NNT    25.05 170 eP      11 18.40    2.1
MDJ    26.63  64 Pc      11 30.40   -0.4
       1.5s     50.00nm              5.0mb
     N  10s      0 60um
     E  10s      2.20um
POO    26.67 231 iPd     11 31.40    0.0
                 iS      16 32.00
GBA    28.64 219 P       11 55.00    5.7X
       0.6s      3.60nm              4.3mb X
MAIO   28.64 279 iPc     11 50.80    1.5
       1.0s     12.00nm              4.6mb
                 eS      16 44.00
PSI    34.73 174 ePd     12 43.50    0.7
ASAJ   35.99  64 P       12 52.80   -0.5
SHI    36.32 271 eP      12 56.00   -0.5
HOOJ   36.67  67 eP      12 58.70   -0.3
KUSJ   37.60  66 eP      13 05.40   -1.5
SLY    39.77 283 ePc     13 27.50    2.5
BHD    41.41 280 ePd     13 39.00    0.5
OBN    42.92 314 iPc     13 51 00    0.4
       1.4s    216.00nm              5.7mb
     Z  20s      1.20um               4.8Msz
     N  16s      0.60um
     E  18s      1.20um
                 i       13 56.00
                 e       15 22.00
                 ePP     15 40.00
                 ePPP    16 08.00
                 eS      20 24.00
                 eSS     23 36.00
SOD    47.96 331 iP      14 30.80    0.1
BHL    47.96 285 P       14 31.00   -0.3
KEV    47.97 334 iP      14 30.80    0.0
KAF    48.10 324 eP      14 31.60   -0.3
       0.8s     28.20nm              5.4mb
HRI    48.14 284 iPc     14 33.90    1.2
NUR    49.01 322 iP      14 38.90    0.0
       0.8s     63.10nm              5.7mb
DSI    49.09 282 iPc     14 40.90    1.0
PRNI   49.90 281 iPc     14 47.40    1.2
MLR    51.19 302 eP      14 57.00    1.0
ELL    51.26 290 iP      14 56.00   -0.6
PVL    52.31 300 iPd     15 06.00    1.7
UPP    52.58 322 iP      15 05.90   -0.2
KDZ    52.77 298 iPc     15 08.00    0.2
KRA    53.73 309 eP      15 14.80    0 1
       1.2s     58.00nm              5.5mb
     Z  12s      1.20um               5.2MszX
     E  12s      2.00um
                 e       15 19.80
SPC    53.80 308 iP      15 16.50    1.1
MMB    53.98 298 iPc     15 17.00    0.3
OUR    54.26 297 ePc     15 18.26   -0.4
KKB    54.33 299 iPc     15 19.00   -0.3
PSZ    54.41 307 eP      15 20.00    0.1
HFS    54.44 322 eP      15 18.70   -1.1
       1.0s     65.70nm              5.6mb
     Z  16s      0.49um               4 7MszX
                 LR      38 33.00
```

```
KNT    54.72 298 ePd     15 21.26   -0.9
SMY    54.87  47 eP      15 21.30   -1.8
       0.8s     74.71nm              5.8mb
VAY    54.89 298 eP      15 22.70   -0.7
BUD    55.11 307 e(P)    15 24.00   -0.9
GRG    55.14 298 ePc     15 23.98   -1.3
BSD    55.18 316 iPd     15 24.10   -1.2
       1.0s     44.00nm              5.4mb
LIT    55.40 297 ePc     15 25.98   -1.2
SKO    55.44 300 eP      15 27.00   -0.3
                 e       15 34.40
SRO    55.46 307 iP      15 27.40    0.0
NAO    55.63 324 P       15 27.00   -1.4
       0.9s     47.40nm              5.5mb
UZD    55.70 306 eP      15 29.50    0.4
KSP    55.70 311 iPc     15 29.20    0.1
                 id      15 35.60
AGG    55.94 296 ePc     15 29.34   -1.6
ZST    56.09 308 iP      15 31.70   -0.2
COP    56.35 318 iPd     15 34.30    0.6
       0.9s     40.34nm              5.5mb
PRU    57.05 311 iPc     15 39.00    0.2
       1.3s     45.80nm              5.3mb
                 e       15 43.70
BRG    57.09 312 iPc     15 39.10    0.0
       1.4s     70.00nm              5.5mb
                 e       15 44.40
CLL    57.50 312 iPc     15 41.40   -0.5
       1.3s     71.00nm              5.5mb
                 i       15 46.20
KHC    57.94 310 iPc     15 45.00   -0.1
       1.2s     20.00nm              5.0mb
     Z  14s      0.80um               5.0MszX
     N  14s      0.40um
     E  14s      0.60um
                 e       15 50.50
VBY    58.25 305 ePc     15 47.50    0.2
BER    58.34 324 eP      15 47.20   -0.4
WET    58.36 310 iPc     15 48.40    0.4
       1.4s     87.00nm              5.6mb
ASK    58.37 324 iP      15 48.00    0.2
HVAR   58.38 303 eP      15 46.40   -1.8
HOF    58.53 312 iPc     15 49.20    0.0
       1.2s     66.00nm              5.6mb
MOX    58.56 312 iPc     15 49.50    0.1
       1.4s     69.00nm              5.5mb
     Z  16s      0.50um               4.7MszX
     N  21s      0.60um
     E  21s      0.20um
CEY    58.70 306 eP      15 50.30   -0.1
KBA    58.86 308 iPc     15 51.30   -0.5
BHG    58.91 309 iPc     15 52.40    0.6
VOY    58.93 306 eP      15 51.10   -1.0
FUR    59.72 310 iPc     15 58.20    0.7
WTTA   59.86 308 iPc     15 58.40   -0.3
       1.1s     74.20nm              5.7mb
                 i       16 03.60
                 e       18 09.00
BRW    60.38  21 eP      16 02.30    0.7
OGA    60.40 308 iPc     16 02.00   -0.4
       1.2s     63.00nm              5.6mb
WIT    60.54 316 eP      16 05.00    2.0
WTS    60.80 315 eP      16 05.00    0.3
       1.0s     40.00nm              5.5mb
BNS    61.02 314 ePc     16 06.50    0.3
OSS    61.03 308 ePd     16 06.80    0.2
SFI    61.12 305 Pc      16 07.90    0.9
PGD    61.22 305 P       16 09.10    1.2
VDL    61.54 308 ePd     16 10.00   -0.1
SLE    61.59 310 ePd     16 10.30    0.1
GWF    61.60 312 P       16 09.90   -0.4
LLS    61.67 309 ePd     16 10.60   -0.4
MME    61.75 306 P       16 12.70    1 1
ZLA    61.77 310 ePd     16 11.40   -0.1
ENN    61.82 314 eP      16 11.50   -0.2
       1.0s     56.00nm              5.7mb
FEL    61 83 310 P       16 11.45   -0.6
LIBD   61.96 311 P       16 12.29   -0.4
CDF    62.05 311 P       16 12.86   -0.5
TMA    62.07 308 ePd     16 13.00   -0.7
WLF    62.17 313 iPd     16 15.06    1.1
ECH    62.20 311 P       16 13.97   -0.4
BOB    62.30 307 P       16 15.80    0.7
BBS    62.32 310 P       16 14 68   -0.5
BSF    62.59 311 P       16 16.49   -0.6
NANU   62.62 159 eP      16 17.00   -0.2
MBL    62.67 154 eP      16 17.00   -0.5
```

```
MMK    62.66 308 ePd     16 17.80    0.1
HAU    62.78 311 iPc     16 17.80   -0.4
       1.0s     20.00nm             .5.3mb
LOMF   62.79 310 P       16 17.79   -0.5
DOU    62.88 314 P       16 18.90    0.2
       1.1s     69.20nm              5.8mb
VITF   62.91 311 P       16 18.80   -0.2
DIX    63.00 309 ePd     16 20.40    0.5
PGF    63.59 305 iPc     16 23.80    0.1
       1.1s     63.50nm              5.7mb
LPG    63.67 308 iPc     16 25.70    1.3
       1.1s     61.05nm              5.7mb
LPL    63.68 308 iPc     16 25.70    1.3
       1.1s     58.60nm              5.7mb
BNI    63.93 308 P       16 25.90    0.0
SBF    64.00 306 iPc     16 26.10   -0.2
       1.0s     64.00nm              5.8mb
IMA    64.10  25 ePc     16 26.80    0.0
MBC    64.45   9 ePc     16 28.00   -0.7
       0.7s     45.00nm              5.8mb
EKA    64.59 321 Pd      16 30.00    0.1
       1.0s     47.10nm              5.6mb
LOR    64.62 311 iPc     16 29.40   -0.8
       1.0s     20.00nm              5.3mb
FRF    64.64 306 eP      16 30.20   -0.2
       1.2s     23.80nm              5.3mb
LBF    64.68 311 iPc     16 29.80   -0.9
       1.1s     29.30nm              5.4mb
LMR    64.84 306 eP      16 31.60   -0.1
       1.2s     41.65nm              5.5mb
LRG    64.88 306 eP      16 31.80   -0.1
       1.2s     47.60nm              5.6mb
     Z  20s      0.20um               4.3Msz
SMF    64.92 311 iPc     16 31.90   -0.3
       1.1s     80.60nm              5.8mb
SSF    64.93 311 iPc     16 31.60   -0.6
       1.2s     26.80nm              5.3mb
TTA    65.03  29 ePc     16 32.60   -0.1
AVF    65.15 311 iPc     16 33.30   -0.3
       1.2s     65.45nm              5.7mb
AKU    65.19 335 iP      16 36.10    2.5
       1.2s     68.75nm              5.7mb
MAF    65.90 311 iPc     16 38.70    0.2
       1.2s     89.25nm              5.8mb
TCF    66.08 311 iPc     16 39.60   -0.1
       1.2s     89.25nm              5.8mb
SVW    66.21  30 ePc     16 41.30    1.1
LDF    66.31 314 iPc     16 40.80   -0.2
       1.0s     36.00nm              5.5mb
FLN    66.43 314 iPc     16 41.50   -0.3
       1.0s     32.00nm              5.5mb
LSF    66.51 311 eP      16 41.80   -0.6
       1.2s     16.35nm              5.1mb
FBA    66.77  24 eP      16 43.90    0.1
       0.7s     32.70nm              5.6mb
GRR    66.83 314 iPc     16 44.10   -0.3
       1.0s     64.00nm              5.8mb
CAF    66.85 310 iPc     16 45.20    0.6
       1.2s     38.70nm              5.5mb
RJF    67.00 310 iPc     16 46.10    0.6
       1.0s     59.50nm              5.7mb
     Z  20s      0.15um               4.2Msz
LPF    67.12 314 iPc     16 46.00   -0.2
       1.2s     29.75nm              5.4mb
DMU    67.20 321 eP      16 47.00    0.4
       1.0s    139.00nm              6.1mb
MFF    67.33 312 iPc     16 47.60    0.0
       1.2s     53.55nm              5.6mb
DLF    67.33 320 eP      16 48.00    0.5
LPO    67.51 310 iPc     16 49.10    0.3
       1.2s     35.70nm              5.4mb
PDB    67.55  31 P       16 49.00    0.3
LFF    67.65 310 iPc     16 50.20    0.6
       1.0s     40.00nm              5.6mb
DCN    67.68 321 eP      16 49.90    0.2
       1.0s    121.00nm              6.0mb
WRA    67.84 140 P       16 49.00   -2.0
       1.2s     14.90nm              5.1mb
WR2    67.86 140 iPd     16 49.80   -1.3
       0.4s     15.30nm              5.5mb
LSPF   67.96 308 P       16 51.61    0.0
GRBF   68.24 308 P       16 53.10   -0.4
PMR    68.41  28 ePc     16 53.90   -0.1
       0.8s     34.48nm              5.6mb
INK    68.44  18 ePc     16 53.60   -0.5
       0.9s     55.00nm              5.7mb
EPF    68.89 308 eP      16 56.90   -0.6
```

1.3s 18.05nm 5.1mb
ENSF 69.02 308 P 16 58.83 0.5
TOA 69.14 26 ePc 16 59.40 0.7
e 17 08 00
e 17 22.70
e 17 29.10
KDC 69.49 32 eP 17 00.60 -0.1
KLU 69.64 27 P 17 02.00 0.2
WARB 69.77 150 eP 17 02.50 -0.3
ASPA 70.76 143 iPc 17 08.20 -0.7
0.8s 23.90nm 5.4mb
OIS 71.13 136 iPc 17 09.90 -1.3
0.9s 21.00nm 5.3mb
TOL 73.38 308 iPc 17 25.20 0.8
1.1s 126.58nm 5.9mb
CTAO 74.60 131 iPc 17 31.50 -0.1
YKA 77.52 14 eP 17 47.00 -0.5
0.5s 4.90nm 4.9mb
IFR 77.81 303 iPd 17 52.00 2.1
FRB 78.35 353 eP 17 51.00 -1.0
OLP 78.48 137 iPd 17 54.00 0.8
0.5s 35.00nm 5.7mb
AVE 79.46 304 eP 17 57.00 -1.7
RMO 80.95 133 iPc 18 17.30 10.7X
0.5s 34.00nm
STK 81.34 142 iPc 18 07.90 -0.5
0.7s 8.80nm 4.9mb
KRI 82.04 242 iPd 18 25.00 12.4X
BRS 84.00 131 iPc 18 22.90 0.6
1.0s 3.90nm 4.6mb
BUL 84.98 240 iPd 18 28.00 0.5
SCH 86.84 350 eP 18 36.00 -0.2
FFC 86.99 10 iPc 18 36.30 -0.6
1.0s 30.00nm 5.5mb
PGC 87.59 25 eP 18 41.00 1.2
PNT 88.22 22 ePc 18 44.00 1.1
0.9s 18.00nm 5.4mb
GMW 88.77 25 P 18 46.80 1.2
RMW 89.17 24 P 18 48.60 1.0
DZM 89.21 119 iPc 18 49.90 1.9
SES 89.49 17 eP 18 49.00 0.0
LON 89.79 25 P 18 51.30 0.8
NEW 89.89 21 P 18 51.90 1.0
0.9s 24.67nm 5.4mb
LKO 92.86 284 P 19 04.84 -0.2
1.0s 15.50nm 5.4mb
LRM 93.41 19 eP 19 07.50 0.1
KIC 94.17 281 P 19 11.00 0.0
LBFM 94.50 27 P 19 13.50 1.0
RSSD 96.93 14 P 19 24.00 0.4
TNP 99.05 26 P 19 34.00 0.8
ALO 105.17 18 ePdiff 20 01.00 0.6
ALO 105.17 18 e(PKP) 24 10.00 -4.9X
NVL 122.79 203 (PKP) 24 47.00 0.0
SPA 127.25 180 iPKPd 24 55.40 -0.5
1.0s 22.50nm
PPD 147.47 289 ePKP 25 37.40 3.5X
SIV 150.19 309 PKP 25 38.40 0.1
ZOBO 154.38 321 PKP 25 45.00 0.0
LPB 154.59 321 ePKP 26 01.00 15.9X
CNCB 154.76 320 PKP 25 47.00 1.5
S.D. = 0.9 on 208 of 218 obs.

? SEP 02, 1991 12h 08m 49.12± 4.97s
33.029 S ±13.5km 72.326 W ±36.0km
DEPTH = 10.0km (geophysicist)
OFF COAST OF CENTRAL CHILE (134)

IHA 0.58 90 iPc 09 01.70 0.9
iS 09 06.30
LCCH 0.77 125 iPd 09 04.50 0.3
iS 09 11.00
ROCH 1.11 87 iPd 09 09.60 -0.4
iS 09 21.00
LNV 1.20 141 iPd 09 11.70 0.2
iS 09 25.00
TACH 1.32 119 iPd 09 12.70 -0.8
iS 09 26.50
PEL 1.38 95 iPd 09 14.50 0.0
iS 09 29.00
SAN 1.46 107 iP 09 15.40 -0.1
iS 09 31.00
JACH 1.50 77 iPd 09 16.00 -0.2
iS 09 32.50
PCH 1.63 112 iPd 09 18.00 0.0
iS 09 35.50
CHCH 1 66 123 iPd 09 18.50 0.0
iS 09 36.50
MDZ 2.93 88 eP 09 41.80 5.2X
iS 10 18.80
S.D. = 0.5 on 10 of 11 obs.

% SEP 02, 1991 12h 29m 20.43± 1.92s
40.878 N ±10.6km 23.893 E ±16.7km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 2.1 (THE).

SRS 0.33 316 ePd 29 27.26 0.0
eS 29 32.66
SOH 0.41 262 ePd 29 28.62 -0.3
OUR 0.55 173 iPc 29 30.94 -0.6
KNT 0.80 291 ePd 29 36.17 0.1
eS 29 48.62
PAIG 0.96 190 ePc 29 39.46 0.7
eS 29 52.10
S.D. = 0.7 on 5 of 5 obs.

SEP 02, 1991 12h 35m 22.16± 0.38s
11.811 N ± 4.2km 62.004 W ± 9.7km
DEPTH = 159.6 ± 5.4 km
3.8mb (2 obs.)
WINDWARD ISLANDS (95)
MD 4.1 (TRN).

GRW 0.48 44 eP 35 43.96 -0.9
eS 36 03.06
TCE 1.13 167 eP 35 48.41 -0.9
eS 36 08.55
TRN 1.30 153 ePd 35 50.56 -0.2
eS 36 10.81
PIG 1.31 119 eP 35 51.00 0.1
eS 36 12.72
TPR 1.35 117 eP 35 51.38 0.1
eS 36 13.12
BOT 1.41 117 eP 35 52.19 0.3
eS 36 14.05
TPP 1.58 160 eP 35 53.80 0.2
eS 36 16.03
TBH 1.61 145 eP 35 54.04 0.1
eS 36 16.85
SVB 1.63 27 eP 35 53.77 -0.4
eS 36 18.64
BIM 2.84 19 iPd 36 08.02 -0.4
MVM 2.93 21 iPd 36 09.45 -0.2
FDF 3.02 16 iPd 36 10.47 -0.3
0.3s 3.70nm
S 36 47.50
CRM 3.11 20 eP 36 12.28 0.4
MGG 4.14 9 eP 36 25.50 0.4
PAG 4.20 4 eP 36 28.50 2.4
S 37 16.00
DEG 4.57 11 eP 36 30.20 -0.7
SDV 8.97 252 eP 37 30.80 1.1
SIV 27.64 178 iPd 40 57.00 0.1
ZOBO 28.55 192 P 41 05.80 0.0
LPB 28.80 192 P 41 13.00 5.2X
CNCB 29.04 192 P 41 10.80 0.6
ALO 46.36 307 eP 43 32.00 -2.4
0.9s 1.05nm 3.4mb
NB2 71.62 29 P 46 28.00 0.2
0.9s 3.40nm 4.1mb
OBN 85.28 35 eP 47 42.00 0.0
1.0s ******nm 8.1mb X
S.D. = 0.9 on 23 of 24 obs.

? SEP 02, 1991 12h 46m 47.39± 5.99s
32.403 S ±38.2km 71.772 W ±26.5km
DEPTH = 10.0km (geophysicist)
NEAR COAST OF CENTRAL CHILE (135)

ROCH 0.86 132 iPd 47 04.00 0.0
iS 47 16.40
JACH 1.03 106 iPd 47 06.70 -0 3
iS 47 21.50
LCCH 1.08 171 iPc 47 07.40 -0.3
PEL 1.18 129 iPd 47 09.50 0.1
iS 47 25.70
TACH 1.43 151 iPc 47 13.10 -0.3
iS 47 33.00
LNV 1.58 169 iP 47 15.50 0.1
iS 47 38.00
PCH 1.61 139 iPc 47 16.40 0.4
CHCH 1.79 149 iP 47 19.00 0 4
iS 47 44.00
S.D. = 0.3 on 8 of 8 obs.

? SEP 02, 1991 13h 49m 04.82± 4.94s
47.900 N ±12.4km 1.918 W ±43.6km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.6 (LDG).

LPF 0.60 77 Pg 49 17.00 0.0
Sg 49 29.00
GRR 0.86 55 Pg 49 21.30 -0.1
Sg 49 36.20
FLN 1.29 47 Pg 49 28.30 -0.4
Sg 49 48.80
LDF 1.39 59 Pg 49 30.80 0.6
Sg 49 52.80
MFF 1.77 136 Pg 49 35.60 -0.1
Sg 50 01.00
S.D. = 0.5 on 5 of 5 obs.

• SEP 02, 1991 14h 24m 54.10± 0.72s
6.096 N ± 7.3km 125.540 E ±23.2km
DEPTH = 33.0km (normal)
4.4mb (3 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

BIP 2.23 18 eP 25 29.50 0.1
eS 26 12.50
CGP 2.49 340 eP 25 34.00 0.8
eS 26 08.00
MAP 4.47 340 eP 26 00.50 -0.9
MNI 4.67 189 eP 26 04.50 0.3
eS 26 51.50
WR2 27.30 162 iPd 30 37.30 -0.5
0.7s 9.70nm 4.6mb
ASPA 30.69 165 eP 31 07.00 -1.2
0.7s 4.40nm 4.4mb
STK 40.75 159 iPd 32 35.20 1.5
0.5s 3.20nm 4.3mb
S.D. = 1.2 on 7 of 7 obs.

SEP 02, 1991 14h 55m 56.31± 1.37s
5.675 N ± 8.7km 94.065 E ± 8.3km
DEPTH = 41.7 ± 12.7 km
4.7mb (19 obs.)
NORTHERN SUMATERA, INDONESIA (706)
Felt (III) at Bondo Aceh.

BSI 1.24 98 eP 56 17.00 -0.4
TSI 4.98 116 eP 57 15.00 4.5X
PSI 5.68 121 iPd 57 21.00 0.5
e 03 45.00
SNG 6.68 77 eP 57 34.50 0.0
IPM 7.02 99 eP 57 37.60 -1.7
NNT 8.86 39 eP 58 09.70 4.9X
BDT 12.47 22 eP 58 53.20 -0.8
LOE 13.86 32 eP 59 13.00 0.6
CHG 13.90 20 eP 59 16.00 3.1X
0.9s 10.50nm 4.6mb
CHTO 13.90 20 eP 59 13.90 1.0
0.8s 8.60nm 4.6mb
e 59 19.30
KOD 17.05 286 eP 00 01.00 7.3X
GBA 18.18 297 P 00 10.00 2.6
0.7s 8.70nm 4.0mb
HYB 19.14 309 eP 00 18.00 -1.1
QIZ 20.31 48 P 00 32.60 0.9
PKI 23.28 340 P 01 01.02 -0.6
DMN 23.42 340 P 01 02.64 -0.3
0.8s 46.00nm 5.0mb
GUN 23.44 342 P 01 02.40 -0.8
0.5s 42.00nm 5.2mb
KKN 23.53 340 P 01 03.02 -0.9
GKN 23.94 339 P 01 07.18 -0.7
0.5s 41.00nm 5.2mb
LSA 24.05 354 P 01 09.50 0.2
CD2 26.70 19 P 01 35.40 1.7
XAN 31.41 24 P 02 13.70 -2.1
LZH 31.57 15 eP 02 15.00 -2.4
GTA 33.98 8 iPd 02 37.40 -0.9
0.8s 10.00nm 4.8mb
NJ2 35.01 38 eP 02 49.50 2.5
OUE 35.30 317 eP 02 50.70 0.9
TIY 36.02 25 eP 02 58.40 2.8
Z 12s 0.50um 4.5MszX
N 11s 0.20um

```
HHC    38.37  22 P       03 15.80   0.4
WMO    38.40 353 eP      03 15.70   0.1
BJI    39.58  27 eP      03 27.50   2.2
CN2    46.93  31 eP      04 24.00  -0.7
ASPA   48.59 128 iPd     04 37.20  -0.9
       0.7s     5.50nm            4.7mb
STK    58.66 133 eP      05 53.50   1.4
       0.3s     1.10nm            4.5mb
YAK    62.09  18 iP      06 13.00  -2.0
SLR    70.99 240 eP      07 24.00  11.7X
KAF    74.70 333 iP      07 32.30  -1.0
       0.4s     7.70nm            5.0mb
NUR    75.02 331 eP      07 34.00  -1.1
SOD    76.21 338 iP      07 42.80   1.0
ZST    77.10 318 eP      07 46.50  -0.6
HFS    80.31 330 eP      08 03.50  -0.8
       0.4s     4.20nm            4.8mb
NB2    81.60 331 P       08 10.20  -0.9
       0.7s     1.70nm            4.2mb
LPG    84.11 315 eP      08 25.10   0.4
       0.8s     5.35nm            4.7mb
LPL    84.12 315 eP      08 25.20   0.5
       0.8s     5.35nm            4.7mb
LBF    85.95 317 eP      08 33.80   0.2
       0.6s     2.70nm            4.7mb
LOR    86.01 317 eP      08 34.00   0.2
       0.6s     3.60nm            4.8mb
SMF    86.07 316 eP      08 34.20   0.1
       0.8s     5.35nm            4.8mb
SSF    86.27 317 eP      08 35.40   0.3
       0.8s     4.05nm            4.7mb
EKA    89.48 325 Pc      08 50.20  -0.1
       0.5s     2.80nm            4.8mb
    S.D. = 1.3  on  43 of  48 obs.
------------------------------------
* SEP 02, 1991  15h 28m 50.03± 2.11s
  0.240 N ±14.4km   98.475 E ±13.2km
  DEPTH =  69.3 ± 18.5 km
  4.5mb (  5 obs.)
 NORTHERN SUMATERA, INDONESIA    (706)

PSI     2.48  10 iP      29 30.00   1.1
                 e       34 50.00
TSI     3.24   2 eP      29 40.00   0.4
                 eS      30 02.00
KLM     4.26  48 eP      29 55.00   1.1
KGM     5.15  70 ePc     30 04.70  -1.8
       0.2s    80.30nm            5.6mb X
                 e       30 58.90
BSI     6.11 329 eP      30 18.00  -1.8
                 eS      30 28.00
                 e       33 00.00
SNG     7.21  17 eP      30 35.10   0.0
CHG    18.46   1 eP      33 02.00  -0.9
CHTO   18.46   1 eP      33 03.40   0.5
       0.7s     1.27nm            3.2mb X
KKM    18.62  72 ePd     33 05.90   1.1
GBA    24.71 303 Pc      34 08.30   2.0
       0.6s     3.80nm            4.0mb
KKN    30.18 336 P       35 00.00   3.8X
XAN    35.02  15 P       35 37.50  -0.6
WR2    40.47 122 iPd     36 22.30  -1.5
       0.3s    14.70nm            5.3mb
                 iP      36 34.10  43kmX
FORR   41.80 140 eP      36 36.00   1.5
ASPA   41.80 127 iPc     36 34.00  -0.7
       0.4s     6.80nm            4.8mb
BJI    42.77  20 eP      36 43.50   1.2
       1.2s    10.00nm            4.5mb
WMO    44.45 349 eP      36 54.00  -2.0
STK    51.77 132 eP      37 53.20   0.2
       0.4s     1.20nm            4.3mb
                 e       38 04.50
    S.D. = 1.4  on  17 of  18 obs.
------------------------------------
   SEP 02, 1991  15h 32m 55.75± 0.47s
   25.174 S ± 4.2km  179.820 E ± 5.2km
   DEPTH = 480.5 ±  6.0 km
   4.8mb ( 22 obs.)
 SOUTH OF FIJI ISLANDS           (171)

SVA     7.14 350 ePd     34 44.90   1.1
VUN     7.24 350 ePd     34 45.20   0.3
WCZ    11.72 202 P       35 37.40   4.8X
KUZ    12.06 196 P       35 39.50   3.3X
DZM    12.64 281 iPd     35 45.00   2.3
                 iS      38 04.40
WLZ    13.13 195 P       35 50.40   2.8
URZ    13.25 189 eP      35 47.60  -1.2
                 eS      38 09.30
NOZ    13.49 186 eP      35 51.70   0.4
PATZ   13.51 192 eP      35 55.00   3.4X
MOZ    13.95 197 eP      35 58.90   2.8
NGZ    14.41 193 eP      36 01.20   0.2
RUZ    14.42 194 eP      36 01.60   0.7
PGZ    15.68 190 eP      36 12.60  -1.1
       0.4s    49.00nm            5.4mb
MNG    15.82 192 eP      36 12.30  -2.9X
       0.3s    38.00nm            5.5mb
WDW    16.55 193 eP      36 22.30   0.0
MRW    16.57 194 eP      36 22.00  -0.6
TCW    16.65 195 eP      36 21.10  -2.2
THZ    17.51 197 eP      36 33.10   1.2
LTZ    18.63 198 P       36 43.20   0.4
WVZ    19.35 200 eP      36 49.70   0.0
MOZ    19.40 196 eP      36 49.70  -0.4
EWZ    19.71 200 eP      36 53.40   0.3
BWZ    20.93 200 eP      37 03.10  -1.5
ODZ    21.17 198 eP      37 07.00   0.1
LRCZ   21.58 201 eP      37 09.50  -1.3
LSCZ   21.62 200 eP      37 10.40  -0.7
BRS    24.33 259 iPd     37 37.00   1.1
       1.0s    10.00nm            4.3mb
HNR    24.54 306 ePc     37 36.00  -1.8
COO    25.23 251 eP      37 46.00   2.0
CTAO   31.34 272 iPd     38 38.00   0.7
       1.1s   208.82nm            5.5mb
                 i       38 58.50
                 e       39 55.00
                 e       40 14.00
                 e(S)    43 09.00
                 e(SS)   44 13.50
PMO    31.89  78 iP      38 41.80  -0.1
       0.8s    35.00nm            4.9mb
OLP    31.99 260 iPd     38 43.00   0.3
VAH    32.03  78 iP      38 42.80  -0.3
       0.8s    15.00nm            4.5mb
TPT    32.14  78 iP      38 44.10   0.1
       0.8s    35.00nm            4.9mb
RUV    32.27  78 iP      38 45.00  -0.1
       0.8s    25.00nm            4.8mb
STK    34.12 250 iPd     39 01.20   0.6
       0.5s     3.30nm            4.1mb
                 i       40 29.10
OIS    37.24 269 iPd     39 26.10  -0.5
       1.0s    19.00nm            4.5mb
                 iS      44 34.70
ASPA   41.68 262 iPc     40 02.10  -0.7
       1.1s    30.60nm            4.7mb
                 eScP    44 51.20
                 eS      45 40.50
                 eScS    49 08.90
WR2    42.15 268 iPc     40 05.50  -1.0
       0.5s    29.20nm            5.0mb
                 epP     40 24.40  77kmX
                 iScP    44 54.20
                 iS      45 47.10
WRA    42.17 268 P       40 05.00  -1.6
       0.5s    27.30nm            5.0mb
FORR   45.68 251 eP      40 32.70  -1.3
WARB   47.65 257 iPd     40 48.00  -1.2
       0.3s     6.00nm            4.5mb
SPA    64.97 180 iPc     42 49.10   0.2
       1.0s    22.50nm            4.8mb
                 i       43 16.20
MAW    76.50 201 iPd     43 57.30   1.1
ADK    76.78   2 P       43 56.00  -1.7
PRS    82.57  44 iPc     44 29.17   0.7
GCC    82.61  43 iPc     44 29.25   0.7
BCH    82.68  46 P       44 30.00   0.8
PRI    82.89  45 iPc     44 30.97   0.8
BKS    83.00  43 iPd     44 31.50   1.0
       0.9s    69.00nm            5.3mb
ABL    83.04  46 P       44 31.40   0.3
ARN    83.10  43 P       44 31.60   0.5
PAS    83.32  48 eP      44 32.00  -0.2
MWC    83.44  47 eP      44 33.00  -0.1
PLM    83.74  49 iPd     44 35.00   0.4
RVR    83.76  48 eP      44 35.00   0.6
PEC    83.85  48 P       44 34.80  -0.1
SBB    83.87  47 iPd     44 35.50   0.4
NVL    83.95 184 (P)     44 35.00   0.2
ISA    84.02  46 iP+     44 36.50   0.7
FRI    84.02  44 iPc     44 35.99   0.3
CMB    84.24  43 iPc     44 36.87   0.1
ORV    84.50  42 iPc     44 38.16   0.2
WDC    84.53  40 iPc     44 38.63   0.5
CLC    84.68  46 iP+     44 39.00   0.0
TPC    84.72  49 iP+     44 40.00   0.7
CN2    84.81 324 eP      44 39.20  -0.2
GSC    84.91  47 iP+     44 40.50   0.3
GLA    84.97  50 iP+     44 41.50   1.0
LBFM   85.40  40 P       44 42.70   0.1
BONR   85.50  44 P       44 43.40   0.2
TNP    86.26  45 P       44 46.50  -0.3
       0.8s    14.22nm            4.7mb
KVN    86.28  44 P       44 46.40  -0.4
BMW    87.95  35 P       44 54.70   0.3
LON    88.88  36 P       44 58.40  -0.3
TIY    88.93 313 eP      45 01.80   2.6
RMW    89.33  35 P       45 00.80   0.0
MSU    89.78  47 P       45 03.70   0.4
TTA    89.88  11 P       45 01.80  -1.2
PMR    90.02  14 P       45 02.20  -1.3
       0.8s     8.62nm            4.7mb
PNT    91.63  35 eP      45 11.00  -0.3
ALO    91.86  52 ePc     45 13.00   0.1
       1.0s     8.25nm            4.7mb
ANMO   91.87  52 P       45 13.00   0.1
       1.0s    28.75nm            5.2mb
FBA    93.22  13 P       45 16.00  -2.2
       0.8s     6.21nm            4.7mb
BW06   93.72  44 P       45 20.00  -1.3
GOL    94.93  48 P       45 26.60  -0.3
       0.8s     4.84nm            4.7mb
MBC   107.76  13 ePKP    50 26.00  -1.9
KAF   139.00 341 ePKP    51 27.60  -0.1
NUR   140.76 341 ePKP    51 31.40   0.5
UPP   143.19 345 iPKP    51 30.50  -4.6X
NB2   143.31 351 PKP     51 31.20  -4.2X
       0.8s    18.20nm
HFS   143.76 348 ePKP    51 32.20  -3.9X
       0.8s    55.30nm
EKA   149.79   3 PKPd    51 50.00   4.1X
       1.1s    16.70nm
KRA   150.67 333 ePKP    51 52.60   5.2X
KSP   151.41 338 iPKPc   51 54.60   6.1X
       0.7s    29.00nm
                 e       52 04.80
                 e       53 53.00
CLL   152.01 342 iPKPc   51 55.50   6.1X
       1.0s    29.00nm
                 e       53 58.00
BRG   152.13 341 ePKP    51 49.30  -0.2
                 i       51 55.90
                 e       52 07.70
                 epPKP   54 05.00
WTS   152.69 351 ePKP    51 57.00   6.7X
       0.8s    16.00nm
PRU   152.72 339 PKPc    51 57.00   6.6X
MOX   152.99 343 e(PKP)51 58.00     7.2X
KHC   153.78 339 ePKP    51 46.50  -5.4X
                 e       52 15.00
LIC   160.59 165 PKP     52 00.60  -0.5
KIC   160.79 166 PKP     52 00.50  -0.8
TIC   161.00 165 PKP     52 00.80  -0.7
LKO   163.63 161 PKP     52 03.22  -0.9
    S.D. = 1.0  on  90 of 105 obs.
------------------------------------
   SEP 02, 1991  16h 18m 14.00± 0.72s
   41.524 N ± 5.5km  143.566 E ± 7.6km
   DEPTH =  44.4 ±  7.0 km
   4.5mb ( 12 obs.)
 HOKKAIDO, JAPAN  REGION         (224)

HOOJ    0.88 346 iP+     18 29.60  -0.5
                 S       19 42.40
KUSJ    1.79  28 iPd     18 42.00  -0.9
                 S       19 04.20
MRRJ    2.07 297 P       18 47.80   0.9
                 eS      19 14.50
AOMJ    2.60 249 P       18 56.10   1.6
ASAJ    2.68 346 P       18 55.70   0.1
OFUJ    2.84 211 P       18 57.90   0.0
                 eS      19 32.20
YAMJ    4.31 220 P       19 18.70  -0.1
NIIJ    5.55 221 P       19 36.50   0.3
KAKJ    5.93 208 P       19 38.80  -2.8
                 S       20 45.20
MAT     6.49 222 iPd     19 49.30  -0.1
       0.6s     4.67nm            4.3mb
```

```
CHJJ    6.53 215 P      19 49.70   -0.3
MTMJ    6.66 224 P      19 52.30    0.4
IIDJ    7.49 218 P      20 04.20    0.8
TSRJ    8.43 227 P      20 17.80    1.5
BJI    20.77 275 eP     22 51.00   -2.4
GTA    33.09 281 eP     24 48.00    0.2
              pP        24 55.00   24kmX
SVW    40.96  40 P      25 51.20   -2.5
IMA    42.00  33 ePc     26 03.50    1.3
       0.7s      6.50nm          4.5mb
CHTO   44.11 253 e(P)   26 19.90    0.1
       0.8s      1.28nm          3.7mb
              pP        26 26.90   23kmX
              sP        26 36.90
FBA    44.44  35 ePc     26 23.50    1.6
       0.9s     31.10nm          5.1mb
BALM   47.38  40 P      26 45.90    0.5
GUN    48.49 273 P      26 53.60   -1.1
KKN    49.00 273 P      26 58.80    0.3
PKI    49.02 273 P      26 58.10   -0.7
DMN    49.23 273 P      26 59.80   -0.5
GKN    49.37 274 P      27 03.40    2.1
INK    49.65  29 eP     27 03.00    0.4
MBC    51.75  18 eP     27 18.00   -0.6
WRA    61.75 190 P      28 30.00   -0.2
       0.6s      1.60nm          4.3mb
WR2    61.75 190 eP     28 31.00    0.8
       0.8s      2.20nm          4.3mb
GBA    63.27 265 Pc     28 38.80   -1.7
       0.6s      2.80nm          4.5mb
NEW    65.79  46 P      28 56.50    0.0
       1.0s     10.00nm          4.8mb
NUR    66.78 332 eP     29 03.00    0.4
HFS    70.68 336 eP     29 26.50   -0.2
       0.5s      4.00nm          4.6mb
NB2    70.69 338 P      29 26.50   -0.3
       0.9s      4.90nm          4.5mb
TNP    71.90  55 P      29 35.60    0.9
BW06   73.36  47 P      29 44.00    0.8
       0.7s      2.24nm          4.2mb
RSSD   75.40  43 P      29 55.00    0.1
       0.7s      4.67nm          4.5mb
SIV   146.85  47 PKP    37 54.00    2.6X
     S.D. = 1.1   on  38 of  39 obs.
-------------------------------------
%  SEP  02, 1991  16h 23m 58.53± 2.39s
   39.013 N ±18.9km   23.242 E ±12.5km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                        (365)
      MD 2.8 (THE).

AGG     0.71 271 ePd    24 12.64    0.1
                 eS     24 23.44
PAIG    0.97  20 ePc     24 17.44    0.4
                 eS     24 30.80
LIT     1.23 332 iPc     24 21.53    0.1
                 eS     24 39.32
OUR     1.44  23 ePc     24 24.48   -0.1
SOH     1.81   3 ePd     24 30.08    0.1
GRG     2.05 342 ePd     24 33.20   -0.2
SRS     2.12   7 ePc     24 34.00   -0.5
KNT     2.16 353 ePd     24 35.17    0.1
                 eS     25 01.40
     S.D. = 0.3   on   8 of   8 obs.
-------------------------------------
?  SEP  02, 1991  16h 35m 58.94± 7 08s
   32.227 N ±64.7km  115.674 W ±13.8km
   DEPTH =   5.0km  (geophysicist)
 CALIF.-BAJA CALIF. BORDER REGION( 45)
      ML 3.0 (GS).

GLA     1.09  41 eP     36 20.00    0.1
PLM     1.50 319 eP     36 26.90    0.1
PEC     2.08 323 eP     36 34.40   -0.5
SSK     2.60 320 ePn    36 44.00    1.4
ABL     3.95 312 eP     37 01.50   -0.3
BCH     4.71 310 eP     37 12.00   -0.5
TNP     5.98 348 e(P)   37 30.00   -0.4
     S.D. = 0.8   on   7 of   7 obs.
-------------------------------------
?  SEP  02, 1991  16h 50m 39.57± 4.14s
   21.882 S ±41.5km  169.572 E ±28.3km
   DEPTH =  71.8 ± 28.9 km
   4.0mb (  4 obs.)
 LOYALTY ISLANDS REGION            (189)

DZM     2.91 266 iPc    51 24.80    0.2
                 iS     52 06.00
BRS    16.22 247 eP     54 30.00    5.5X
RMO    19.53 252 eP     55 16.00   11.9X
                 eS     00 18.00
CTAO   21.84 270 iP     55 39.00   11.3X
                 i      00 36.00
ASPA   32.89 260 iPd    57 09.60    0.6
       0.9s      4.80nm          4.3mb
WR2    32.90 267 iPc    57 08.50   -0.7
       1.0s      3.10nm          4.1mb
WRA    32.93 267 P      57 08.00   -1.4
       1.4s      2.80nm          3.9mb
MAT    65.23 333 eP     01 15.00   -0.6
CHG    80.04 295 eP     02 44.50    1.3
CHTO   80.04 295 eP     02 44.00    0.8
       1.0s      1.75nm          3.9mb
KSP   144.34 331 ePKPc  10 05.80   -3.0X
BRG   145.36 333 ePKP    10 10.00   -0.5
       1.4s     16.00nm
CLL   145.42 334 ePKP    10 09.00   -1.6
       1.8s     21.00nm
ZST   145.74 327 e(PKP)10 11.30    0.0
PRU   145.74 331 ePKP    10 10.50   -0.7
EKA   146.16 353 PKP     10 10.00   -1.7
       1.0s      4.30nm
MOX   146.50 334 e(PKP)10 14.00    1.5
SKO   146.63 314 ePKP    10 14.50    1.6
KHC   146.80 331 PKP     10 14.00    1.0
                 e      10 25.00
OHR   147.44 313 ePKP    10 14.50    0.2
     S.D. = 1.2   on  16 of  20 obs.
-------------------------------------
?  SEP  02, 1991  16h 55m 36.76± 1.29s
   21.546 S ±38.7km  169.803 E ±22.4km
   DEPTH =  33.0km  (normal)
   4.2mb (  5 obs.)
 LOYALTY ISLANDS REGION            (189)

DZM     3.16 260 iPd    56 26.90    1.4
                 iS     57 08.50
BKM     4.13 339 iP     56 58.00   18.9X
STK    27.15 242 eP     01 19.00    0.0
       1.3s      1.30nm          3.4mb
WR2    33.14 266 eP     02 10.90   -1.4
       0.6s      2.80nm          4.3mb
ASPA   33.16 259 iPd    02 12.00   -0.5
       0.8s      7.70nm          4.7mb
WRA    33.16 266 P      02 11.00   -1.5
       1.1s      2.00nm          3.9mb
MAT    65.03 332 eP     06 15.00   -0.9
CHG    80.09 295 eP     07 48.00    2.7X
CHTO   80.09 295 eP     07 47.90    2.6
       1.2s      5.56nm          4.4mb
KSP   144.16 331 ePKP   15 08.40   -2.2X
BRG   145.16 333 ePKP   15 12.40    0.1
       1.5s     20.00nm
SRO   145.20 326 iPKP   15 09.40   -3.1X
CLL   145.22 334 ePKP   15 11.00   -1.4
       1.7s     21.00nm
PRU   145.55 331 ePKP   15 14.00    1.0
                 e      15 18.50
ZST   145.57 327 e(PKP)15 12.70   -0.4
MOX   146.29 335 e(PKP)15 16.00    1.7X
SKO   146.55 315 ePKP   15 12.00   -2.9X
KHC   146.61 331 PKP    15 16.00    1.1
                 e      15 26.50
     S.D. = 1.4   on  12 of  18 obs.
-------------------------------------
*  SEP  02, 1991  17h 20m 32.49± 0.46s
   24.608 N ±11.1km   90.837 E ± 8.0km
   DEPTH =  33.0km  (normal)
   4.7mb (  3 obs.)
 BANGLADESH                        (316)

GUN     5.53 308 P      21 55.96    0.9
       0.2s     56.00nm          5.7mb X
PKI     5.70 302 P      21 56.80   -0.6
       0.3s     50.00nm          5.6mb X
KKN     5.91 304 P      22 00.30    0.0
       0.2s     48.00nm          5.8mb X
DMN     5.96 301 P      22 00.68   -0.3
GKN     6.51 303 P      22 08.34   -0.3
       0.3s    131.00nm          6.2mb X
CHG     9.49 126 eP     22 50.00    0.1
CHTO    9.49 126 eP     22 49.50   -0.4
                 e      22 57.90
NDI    12.84 291 eP     23 36.00    0.6
                 eS     25 39.00
HYB    13.51 240 eP     23 44.20   -0.2
                 eS     26 02.00
WRA    61.27 132 P      30 47.00   -0.1
       6 6s      4.40nm          4.8mb
WR2    61.29 132 iPd    30 48.00    0.8
       0.6s      5.90nm          4.9mb
HFS    62.62 327 eP     30 55.20   -0.4
       0.4s      0.80nm          4.2mb
     S.D. = 0.6   on  12 of  12 obs.
-------------------------------------
    SEP  02, 1991  17h 43m 22.53± 0.29s
    45.781 S ± 5.1km   72.333 W ±11.5km
    DEPTH =  10.0km  (geophysicist)
    5.3mb ( 12 obs.)  5.0Msz (  8 obs.)
 SOUTHERN CHILE                    (144)

LNV    11.83   4 eP     46 13.50   -0.7
CHCH   11.90   7 eP     46 15.50    0.2
PCH    12.22   7 eP     46 21.60    2.0
LCCH   12.30   3 eP     46 19.00   -1.6
PEL    12.68   6 eP     46 23.00   -2.8
                 i      46 27.50
ROCH   12.83   5 eP     46 29.00    1.1
LPA    15.42  50 eP-    47 09.20    7.6X
       0.7s    219.18nm          5.6mb
                 eS     50 14.00
AIA    20.01 170 eP     47 57.70   -0.1
CNCB   29.11   9 P      49 26.90    0.7
ARE    29.24   2 eP     49 27.00    0.0
PPD    29.25  43 eP     49 28.20    1.5
LPB    29.37   8 P      49 30.00    1.6
     Z  18s      9.28um          5.4Msz
                 LR     59 16.00
ZOBO   29.63   8 iPc    49 30.80   -0.1
       1.2s     81.08nm          5.4mb
     Z  20s      3.91um          5.0Msz
                 S      55 00.00
                 LR     59 16.00
VAO    30.66  51 (P)    49 40.00    0.6
SIV    31.16  21 iPc    49 43.20   -0.6
NNA    33.90 352 eP     50 06.50   -1.1
       1.0s     16.00nm          4.9mb
     Z  18s      2.58um          5.0Msz
SNA    41.14 151 iPd    51 07.10   -0.7
       1.2s     62.50nm          5.2mb
SOB1   45.33  46 eP     51 42.80    0.3
                 e      51 46.30
NVL    45.77 153 eP     51 45.00   -0.3
                 e      51 55.00
                 e      52 00.00
                 e      52 05.00
                 e      52 10.00
                 e      52 26.00
                 ePP    53 54.00
                 ePPP   54 27.00
PURC   48.03 355 ePc    52 05.06    0.7
CLMC   49.59 354 eP     52 14.86   -1.1
HOBC   50.03 355 ePc    52 19.66    0.4
UPA    54.89 351 eP-    52 56.20    0.7
     Z  20s      0.74um          4.8Msz
MAW    62.00 162 eP     53 43.60   -1.0
       1.3s     26.00nm          5.3mb
CER    68.02 116 iPd    54 24.00    0.0
                 e      56 39.00
WIN    73.80 106 e(P)   54 55.00   -4.2X
       0.9s     25.21nm          5.3mb
KIC    79.25  69 P      55 27.64   -2.0
PRM    80.01 352 P      55 32.00   -1.2
JSC    80.10 353 P      55 31.00   -2.7
LKO    81.09  67 P      55 39.92    0.5
TKL    81.72 351 P      55 42.50    0.3
GBTN   81.78 350 P      55 42.00   -0.5
OLY    82.73 344 P      55 47.00   -0.5
GRT    83.11 346 P      55 51.00    1.6
BUL    83.13 112 iPc    55 50.20    0.0
       1.4s     38.37nm          5.4mb
                 ipP    55 53.90   12kmX
                 iPP    57 57.30
                 i      58 05.80
CVL    83.56 355 P      55 52.00    0.4
TUL    84 03 341 eP     55 52.90   -1.2
       1.6s    187.40nm          6.1mb
     Z  22s      0.63um          5.0Msz
     N  22s      0.33um
     E  20s      0.15um
                 e      55 56.70
```

02d 17h

		LR	24	23.00		
ELC	84.08	347	P	55	53.00	-1.3
FVM	84.96	346	P	56	00.00	1.3
ACO	85.59	339	e(P)	56	05.20	3.3X
ALO	86.06	332	eP	56	03.30	-1.2
	1.0s	32.00nm			5.4mb	
	Z 20s	0.53um			4.9Msz	
		e	58	15.00		
ANMO	86.07	332	P	56	03.40	-1.1
	1.0s	131.25nm			6.1mb	
KRI	86.17	110	iPc	56	22.90	17.4X
LVNJ	86.23	358	P	56	07.00	2.1
GLA	87.39	325	P	56	12.00	1.2
PLM	88.47	324	P	56	17.50	1.3
GOL	90.11	335	P	56	23.00	-0.9
	1.0s	11.25nm			5.1mb	
MSU	91.23	330	P	56	28.00	-1.0
TNP	92.72	326	P	56	35.00	-0.9
	1.2s	11.02nm			5.1mb	
BW06	94.19	333	P	56	43.00	0.5
MOX	120.26	47	e(PKP)	02	17.20	2.6X
	Z 21s	4.70um			6.1MszX	
	N 21s	1.70um				
	E 21s	2.80um				
CLL	121.36	47	ePKP	02	19.00	2.4X
	Z 18s	0.50um			5.2Msz	
TOA	122.60	328	ePKP	02	20.20	1.5
KRA	124.33	51	ePKP	02	24.20	1.8
FBA	124.83	330	ePKPc	02	24.30	1.4
MBC	125.41	348	ePKP	02	23.00	-0.7
	1.5s	26.00nm				
NB2	125.85	37	PKP	02	24.00	-1.1
	1.4s	15.50nm				
TTA	126.86	325	ePKP	02	26.90	-0.1
IMA	127.53	329	ePKP	02	29.80	1.5
	1.4s	18.10nm				
OBN	135.65	51	ePKP	02	46.00	2.2X
	1.5s	******** nm				
	Z 20s	0.60um			5.3Msz	
	E 20s	0.60um				
HYB	142.77	130	ePKP	02	56.00	-2.0X
MAIO	142.94	87	iPKPd	02	56.80	-1.1
OUE	144.75	102	ePKP	03	00.60	-0.7
		ePP	05	14.00		
BAG	148.79	204	ePKP	03	12.00	3.9X
NDI	150.59	115	ePKP	03	16.00	5.7X
BDT	150.64	163	ePKP	03	13.00	2.4X
LOE	151.28	168	ePKP	03	15.00	3.4X
GAR	151.79	90	ePKP	03	11.00	-1.0
CHG	152.15	162	ePKP	03	16.00	3.1X
QIZ	153.26	185	ePKP	03	11.00	-3.5X
DMN	154.53	128	PKP	03	16.40	0.1
GKN	154.57	126	PKP	03	15.24	-1.0
PKI	154.66	128	PkP	03	16.30	-0.3
KKN	154.76	128	PKP	03	16.76	0.2
GUN	155.19	128	PKP	03	17.02	-0.3
KMI	159.01	167	ePKP	03	23.00	1.0
YAK	159.36	330	ePKP	03	21.20	0.3
		e	04	00.00		
		e	06	10.00		
		e	07	39.00		
GYA	160.70	177	PKP	03	26.00	2.4X
	6.0s	700.00nm				
		e	04	06.00		
		PP	07	46.00		
SSE	161.95	220	PKP	03	22.00	-2.5X
WHN	163.92	201	iPKPc	03	28.00	1.5
	8.0s	600.00nm				
		e	04	20.00		
		PP	08	04.00		
WMO	165.68	91	PKP	03	31.00	3.2X
	Z 20s	0.80um				
		e	04	30.50		
		PP	08	20.00		
CN2	167.21	267	PKP	03	26.00	-2.8X
	6.0s	400.00nm				
	Z 20s	0.50um				
		e	04	31.00		
		PP	08	20.00		
		SKKS	15	03.00		
LZH	169.89	162	PKPd	03	30.00	-1.0
	6.0s	570.00nm				
	Z 20s	0.44um				
		pPKP	03	35.00		
		SKKS	15	18.00		
TIY	171.19	205	ePKP	03	33.00	1.5
	Z 30s	0.80um				

	N 24s	1.20um				
		SKKS	15	30.00		
GTA	171.40	135	PKP	03	32.60	1 0
	8.0s	470.00nm				
	Z 24s	0.60um				
		e	04	52.00		
		PP	08	42.40		
BJI	171.52	230	ePKP	03	30.00	-1.4
	Z 28s	0.35um				
		e	04	48.00		
		ePP	08	40.00		
		eSKKS	15	30.00		
IRK	173.14	18	ePKP	03	32.00	0.3
		e	06	01.00		
		e	08	41.20		
		e	12	40.00		
HHC	174.31	211	ePKP	03	34.40	1.8
	S.D. = 1.2	on 70 of 88 obs.				

SEP 02, 1991 18h 44m 42.22± 0.49s
39.095 N ± 3.8km 23.457 E ± 5.8km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
ML 3.1 (ATH). MD 3.1 (THE).

PAIG	0.85	12	iPc	44	59.94	1.4
			eS	45	12.70	
AGG	0.88	266	ePc	44	58.62	-0.5
			eS	45	11.10	
ATH	1.14	170	ePb	45	04.30	0.8
LIT	1.25	324	iPc	45	05.82	0.3
			eS	45	22.62	
OUR	1.30	18	ePc	45	06.38	0.1
THE	1.58	346	ePd	45	09.98	-0.3
SOH	1.73	357	ePc	45	12.98	0.5
KZN	1.78	313	ePb	45	13.60	0.3
SRS	2.02	3	ePc	45	16.66	-0.1
GRG	2.03	337	ePd	45	16.70	-0.2
			eS	45	41.82	
KNT	2.11	348	ePd	45	18.50	0.5
			iS	45	44.46	
PRK	2.19	85	ePn	45	26.00	6.8X
FNA	2.33	317	ePc	45	21.34	0.2
VAY	2.33	343	ePn	45	21.30	0.2
VLI	2.41	190	ePn	45	21.80	-0.5
MMB	2.50	5	iP	45	23.00	-0.6
KKB	2.78	354	iP	45	27.00	-0.6
OHR	2.87	315	ePn	45	29.00	0.2
PLD	3.15	17	iP	45	33.00	0.2
MFT	3.39	59	ePn	45	42.00	5.7X
VTS	3.50	357	iP	45	38.00	0.1
PVL	4.35	18	iP	45	48.00	-1.9
MLR	6.65	15	eP	46	26.00	3.5X
	S.D. = 0.7	on 20 of 23 obs.				

SEP 02, 1991 19h 28m 11.21± 0.65s
37.551 N ± 6.5km 22.520 E ± 4.7km
DEPTH = 33.0km (normal)
SOUTHERN GREECE (368)
ML 3.5 (ATH). MD 3.2 (THE).

VLI	0.90	158	iPc	28	29.30	1.9
ATH	1.04	66	eP	28	30.50	1.0
AGG	1.48	354	ePd	28	37.66	1.9
			eS	28	55.26	
VLS	1.65	293	eP	28	44.50	6.2X
PAIG	2.54	21	ePd	28	50.78	-0.2
			eS	29	18.46	
LIT	2.55	359	ePc	28	51.50	0.4
			eS	29	20.46	
KZN	2.81	348	eP	28	57.70	2.8
OUR	3.00	22	ePd	28	57.66	0.1
KEK	3.03	316	eP	29	01.50	3.5X
THE	3.10	6	ePc	28	58.94	0.1
SOH	3.33	11	ePc	29	02.66	0.4
PRK	3.40	59	eP	29	02.50	-0.7
GRG	3.40	358	ePc	29	03.86	0.6
KNT	3.62	5	iPd	29	07.14	0.8
			eS	29	45.90	
SRS	3.66	13	ePc	29	06.70	-0.1
			eS	29	47.22	
EZN	3.75	51	ePn	29	06.00	-2.0
VAY	3.77	1	ePn	29	08.60	0.3
OHR	3.80	340	ePn	29	12.70	3.9X
IZM	3.84	76	iPn	29	09.30	-0.2
MMB	4.14	13	iP	29	13.00	-0.7
ALN	4.32	38	ePc	29	15.58	-0.6

SKO	4.49	350	ePn	29	19.00	0.3
			e	29	24.00	
LCI	4.52	309	P	29	19.00	0.0
			eSn	30	02.10	
VTS	5.06	6	eP	29	17.00	-9.9X
SOI	5.15	278	P	29	27.90	-0.1
			eSn	30	18.80	
CZI	5.29	290	P	29	30.30	0.4
BRT	5.30	310	P	29	29.80	-0.3
			eSn	30	23.60	
MMN	5.61	297	P	29	21.80	-12.7X
ATN	5.62	278	P	29	34.50	-0.1
			eSn	30	29.50	
MGR	6.02	298	P	29	39.50	-0.8
PVL	6.05	20	eP	29	38.00	-2.7
MEU	6.07	268	P	29	39.10	-1.9
			eSn	30	41.70	
MNO	6.21	276	P	29	43.00	-0.2
	S.D. = 1.2	on 28 of 33 obs.				

& SEP 02, 1991 19h 52m 20.94s
37.618 N 118.914 W
DEPTH = 6.2km
CALIFORNIA-NEVADA BORDER REGION (40)
<GM-P>. MD 3.1 (GM).

BONR	0.59	55	iPc	52	32.50	-0.3
CMB	1.24	290	eP	52	43.70	-0.6
TNP	1.42	70	ePn	52	46.30	-1.2
PKEM	1.83	212	eP	52	54.60	1.5
			eS	53	19.70	
ARN	2.10	263	ePn	52	58.50	1.4
PHAM	2.14	214	ePn	52	58.00	0.3
ABL	2.77	185	(Pn)	53	07.30	0.4
			eSg	53	26.50	
	7 obs. associated					

? SEP 02, 1991 21h 27m 08.29± 8.34s
12.125 N ±96.4km 70.531 W ±33.8km
DEPTH = 33.0km (normal)
4.6mb (2 obs.)
NEAR COAST OF VENEZUELA (97)
Felt in northwestern Venezuela.

BMG	5.61	207	iPc	28	31.00	-0.8
FUQ	7.33	206	eP	29	05.00	8.9X
BOG	8.23	205	eP	29	10.00	1.3
			eS	30	30.50	
UPA	9.39	251	eP	29	05.00	-19.4X
			i	31	22.00	
HOOC	10.51	216	eP	29	39.49	-0.6
ANCC	10.61	217	ePd	29	42.02	0.8
PURC	11.32	211	eP	29	49.97	-1.5
PSO	12.78	212	eP	30	11.50	0.6
NNA	24.76	195	iP	32	30.00	1.5X
	0.6s	6.00nm			4.4mb	
ZOBO	28.31	175	P	33	06.00	4.2X
	1.1s	22.62nm			4.8mb	
		i	34	41.00		
LPB	28.58	175	P	33	05.00	1.0
		i	41	20.00		
CNCB	28.86	175	P	33	10.00	3.2X
		i	41	16.00		
SIV	29.46	161	P	33	10.80	-0.8
INK	68.97	339	eP	38	48.00	36.0X
	S.D. = 1.2	on 8 of 14 obs.				

SEP 02, 1991 22h 07m 44.36± 1.00s
2.052 S ± 4.4km 119.819 E ± 6.2km
DEPTH = 49.4 ± 9.9 km
4.9mb (18 obs.) 4.2Msz (1 obs.)
SULAWESI, INDONESIA (268)

MKS	3.16	186	ePc	08	32.50	-0.4
			iS	09	12.50	
MNI	6.10	55	ePd	09	16.00	1.7
TSM	6.60	343	ePd	09	19.30	-1.9
KKM	8.81	336	ePd	09	55.10	3.0X
DAV	10.74	32	eP	10	22.00	3.5X
CGP	11.51	25	eP	10	33.00	4.1X
	0.8s	162.00nm			6.2mb X	
CVP	19.73	6	eP	12	13.00	0.1
IPM	19.90	289	ePc	12	13.90	-0.9
NANU	20.81	191	iPd	12	23.70	-0.4
	0.4s	7.00nm			4.3mb	
SNG	21 24	296	eP	12	28.40	-0.1
			eS	16	28.60	

PSI	21.41	283	ePc	12 31.60	1.4
			e	17 35.00	
WR2	22.77	142	iPd	12 42.90	-0.8
	0.9s	31.30nm		4.7mb	
OIZ	23.13	335	Pd	12 48.40	1.2
WARB	24.87	165	eP	13 04.00	0.0
ASPA	25.45	149	iPd	13 09.30	-0.2
	0.9s	30.60nm		4.8mb	
LOE	26.31	318	eP	13 21.00	3.6X
QIS	26.67	135	iPc	13 19.30	-1.4
	0.7s	11.00nm		4.6mb	
BDT	28.09	314	eP	13 36.50	2.8X
PMG	28.14	106	eP	13 39.00	4.8X
CHG	29.18	316	eP	13 44.00	0.5
CHTO	29.18	316	eP	13 43.90	0.4
	0.8s	8.97nm		4.5mb	
			pP	13 53.10	32kmX
GYA	31.06	337	eP	14 00.60	0.4
CTAO	31.43	127	eP	14 03.00	-0.5
KMI	31.68	330	Pc	14 07.00	1.2
	2.0s	70.00nm		5.1mb	
WHN	32.83	351	eP	14 17.00	1.6
	1.2s	100.00nm		5.5mb	
			sS	19 39.00	
OLP	33.83	138	eP	14 24.00	-0.2
			e	15 51.00	
NJ2	33.93	359	Pc	14 24.00	-0.9
CD2	36.17	336	P	14 43.80	-0.4
RMO	36.91	134	eP	15 02.00	11 6X
XAN	37.34	345	P	14 53.50	-0.4
TIY	40.15	351	Pd	15 17.40	0.0
Z	22s	0.40um		4.2Msz	
LZH	40.77	340	eP	15 22.50	-0.1
	2.0s	42.00nm		4.8mb	
			pP	15 31.00	29kmX
			sP	15 36.00	
COO	41.55	136	eP	15 31.00	2.0
LSA	41.81	321	P	15 32.80	1.2
BJI	42.02	356	eP	15 32.50	-0.1
	1.5s	35.00nm		4.9mb	
TOO	42.50	149	eP	15 38.00	1.4
			e	17 02.50	
			i	17 51.20	
CNB	42.99	144	eP	15 42.00	1.3
			e	18 00.00	
			i	18 45.70	
HHC	43.36	351	P	15 43.40	-0.2
BTO	43.38	349	eP	15 44.50	0.7
SNY	43.81	4	Pd	15 45.20	-1.9
	0.8s	10.00nm		4.6mb	
GUN	44.18	315	P	15 51.40	0.6
PKI	44.31	314	P	15 51.86	0.0
	0.7s	24.00nm		5.1mb	
KKN	44.53	314	P	15 53.66	0.2
	0.9s	57.00nm		5.3mb	
DMN	44.55	314	P	15 53.96	0.2
GBA	44.81	292	Pc	15 55.00	-0.6
	0.6s	6.90nm		4.6mb	
HYB	45.04	297	eP	15 58.00	0.5
GKN	45.12	314	P	15 57.86	-0.3
	0.8s	58.00nm		5.5mb	
GTA	45.17	338	eP	15 59.00	0.7
	1.0s	20.00nm		4.9mb	
			sP	16 11.00	
MDJ	47.27	9	eP	16 13.00	-1.7
DZM	49.46	117	iPc	16 36.90	4.8X
WMO	53.98	332	P	17 07.00	1.3
	1.5s	20.00nm		4.9mb	
			sP	17 19.00	
			PcP	18 11.50	
OUE	59.70	307	eP	17 46.40	-0.3
GAR	61.09	317	eP	17 55 00	-1 0
YAK	64.34	5	eP	18 15.10	-1.8
MAIO	67.74	311	iPc	18 39.00	-0.3
	1.3s	16.34nm		4.9mb	
			eS	27 40.00	
SPA	87.96	180	iPc	20 29.90	-0.3
	1.0s	12.50nm		5.1mb	
BUL	90.43	250	iPc	20 42.30	-0.4
ZOBO	160.18	157	PKP	27 41.00	0.1
SIV	162.05	177	(PKP)	27 41.00	-1.1
			i	28 30.60	
	S.D. = 1.0		on	51 of 59 obs.	

---

* SEP 02, 1991 22h 13m 56.05± 0.90s
32.593 S ±13.4km 138.916 E ±10.0km
DEPTH = 10.0km (geophysicist)

NEAR SOUTH COAST OF AUSTRALIA (600)

STK	2.38	73	iPd	14 39.80	4.1X
	0.4s	227.00nm			
			iS	15 10.30	
BFD	5.46	148	eP	15 19.00	-0.4
			eS	16 19.00	
CMS	5.97	81	eP	15 27.00	0.4
			eS	16 33.00	
OLP	7.57	39	e(P)	16 05.00	15.9X
			e(S)	17 31.00	
FORR	9.38	278	eP	16 15.40	1.3
	0.2s	8.00nm		5.8mb X	
			eS	17 58.00	
ASPA	9.93	332	iPc	16 25.60	3.7X
			eS	18 10.40	
WARB	12.46	298	eP	16 55.00	-1.2
	0.3s	2.00nm		4.8mb X	
			eS	19 10.00	
WR2	13.23	341	iPd	17 06.60	0.0
	0.4s	5.70nm		5.0mb X	
			eS	19 31.20	
	S.D. = 1.3		on	5 of 8 obs.	

---

* SEP 02, 1991 23h 03m 06.52± 2.00s
43.213 N ±20.8km 5.029 E ±10.6km
DEPTH = 10.0km (geophysicist)

NEAR SOUTH COAST OF FRANCE (379)
ML 2.9 (LDG), 2.2 (STR).

CDR	0.71	49	ePg	03 19.70	-0.8
			i	03 19.90	
			i	03 22.20	
			e(Sg)	03 28.70	
LRG	1.00	76	Pg	03 25.40	-0.1
			Sg	03 37.90	
LMR	1.09	83	Pg	03 26.70	-0.3
			Sg	03 41.70	
FRF	1.23	73	Pg	03 29.20	-0.2
			Sg	03 45.00	
MVIF	1.69	65	Pg	03 41.64	5.3X
			Sg	04 00.60	
REVF	1.78	72	Pn	03 40.08	2.5
AURF	1.80	67	Pn	03 40.36	2.4
			Sg	04 03.28	
SBF	1.87	69	Pn	03 38.20	-0.7
			Pg	03 41.20	
			Sg	04 05.60	
AUTN	1.91	65	Pn	03 42.50	2.9X
			Sg	04 07.59	
SAOF	1.99	66	Pn	03 43.67	3.0X
LPG	2.60	28	Pn	03 48.40	-1.1
			Pg	03 57.20	
CAF	2.74	310	Pn	03 52.00	0.7
			Sg	04 36.80	
PGF	2.99	101	Pn	03 53.08	-1.9
SMF	3.53	347	Pg	04 14.00	11.5X
			Sg	05 03.00	
BGF	3.69	336	Pn	04 04.20	-0.6
			Pg	04 17.00	
			Sg	05 06.40	
SSF	4.00	345	Pg	04 23.20	14.1X
			Sg	05 17.00	
LOR	4.14	349	Pg	04 26.00	14.9X
	S.D. = 1.5		on	11 of 17 obs.	

---

* SEP 02, 1991 23h 04m 07.79± 2.63s
2.939 N ±14.2km 79.218 W ±24.0km
DEPTH = 33.0km (normal)
SOUTH OF PANAMA (83)

CUMC	2.38	146	ePc	04 45.02	-0.8
ANCC	2.42	76	iPc	04 45.74	-0.2
			eS	05 17.90	
HOOC	2.63	78	ePc	04 48.43	-0.7
CLMC	2.81	70	eP	04 51.62	0.1
SILC	2.89	95	ePc	04 53.49	0.6
PURC	2.92	102	eP	04 53.84	0.4
YANA	3.10	168	Pd	04 56.10	0.1
BUGC	3.10	72	eP	04 55.69	0.0
GGP	3.15	169	P	04 57.00	0.1
OUR	3.17	167	eP	04 57.10	0.2
HOBC	3.38	65	eP	04 59.89	0.2
ANGL	3.71	153	eP	04 52.00	-12.6X
	S.D. = 0.5		on	11 of 12 obs.	

? SEP 02, 1991 23h 34m 07 86± 3.52s
21.502 S ±17.8km 170.261 E ±42.4km
DEPTH = 33.0km (normal)
4.7mb (4 obs.)
LOYALTY ISLANDS REGION (189)

DZM	3.59	260	iPc	35 03.00	0.3
			iS	35 45.60	
BKM	4.26	333	iP	35 12.50	0.4
RMO	20.26	252	iPc	38 55.90	12.6X
	0.3s	8.00nm			
CMS	23.97	240	eP	39 24.00	3.7X
STK	27.55	242	iPc	39 55.00	1.3
	1.1s	2.20nm		3.7mb	
WR2	33.57	266	iPc	40 45.60	-1.6
	0.5s	7.90nm		4.9mb	
ASPA	33.59	259	iPc	40 46.50	-0.8
	0.5s	21.70nm		5.3mb	
WRA	33.59	266	P	40 43.00	-4.3X
	0.7s	4.20nm		4.5mb	
WARB	40.03	255	iPd	41 42.10	0.4
	S.D. = 1.3		on	6 of 9 obs.	

? SEP 02, 1991 23h 55m 39.46± 6.82s
4.058 N ±27.4km 77.144 W ±54.7km
DEPTH = 33.0km (normal)
NEAR WEST COAST OF COLOMBIA (102)
MD 2.7 (UVC).

CLMC	0.61	107	iPd	55 51.99	0.3
			eS	55 59.70	
ANCC	0.61	153	iPd	55 51.82	0.2
			eS	55 59.50	
HOOC	0.78	139	ePd	55 53.86	-0.3
			eS	56 03.00	
BUGC	0.90	100	ePc	55 55.80	-0.1
			eS	56 06.40	
HOBC	1.05	74	eP	55 57.94	-0.1
	S.D. = 0.3		on	5 of 5 obs.	

% SEP 03, 1991 00h 33m 37.29± 1.91s
37.808 N ±22.1km 14.607 E ± 8.9km
DEPTH = 33.0km (normal)
SICILY (398)

MNO	0.14	30	P	33 42.50	-1.1
			eSg	33 45.90	
ATN	0.76	62	P	33 51.50	-0.1
			eSg	34 02.90	
SOI	1.17	77	P	33 58.00	0.6
			eSg	34 13.70	
USI	1.44	309	P	34 01.40	0.1
			eSg	34 18.60	
TDS	2.29	36	P	34 13.30	-0.2
			eSn	34 41.80	
ROI	2.34	40	P	34 13.60	-0.6
CSI	2.36	33	P	34 14.90	0.3
	S.D. = 0.7		on	7 of 7 obs.	

% SEP 03, 1991 01h 01m 23.83± 1.31s
44.581 N ±12.9km 8.346 E ± 6.9km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.9 (GEN).

PCP	0.15	105	P	01 27.31	0.0
			S	01 30.07	
FIN	0.38	195	P	01 31.69	0.0
			S	01 38.92	
ROB	0.44	230	P	01 32.84	-0.1
			S	01 40.53	
STV	0.81	246	P	01 39.76	0.2
			S	01 50.53	
PZZ	0.89	266	P	01 40.92	-0.1
			S	01 52.15	
	S.D. = 0.2		on	5 of 5 obs.	

? SEP 03, 1991 01h 56m 10.03± 3.88s
4.441 N ±44.1km 75.750 W ±75.9km
DEPTH = 110.0km (geophysicist)
COLOMBIA (103)
MD 2.9 (UVC).

HOBC	0.39	257	iPc	56 26.50	-0.1
			eS	56 41.90	
BUGC	0.74	223	eP	56 29.34	0.2
			eS	56 46.40	
CLMC	0.98	236	eP	56 31.73	0.2

03d 01h

HOOC 1.31 222 eP 56 35.04 -0.2
ANCC 1.44 230 eP 56 36.52 -0.1
S.D. = 0.3 on 5 of 5 obs.

• SEP 03, 1991 01h 59m 27.32± 0.58s
9.291 S ±13.8km 157.918 E ± 9.3km
DEPTH = 33.0km (normal)
4.2mb (5 obs.)
SOLOMON ISLANDS (193)

HNR 2.01 94 eP 59 59.00 -0.6
eS 00 20.00
OIS 20.92 236 iPd 04 09.00 -0.7
0.9s 13.00nm 4.3mb
WR2 25.10 242 eP 04 50.40 -0.4
1.1s 7.60nm 4.2mb
ASPA 27.04 235 eP 05 09.70 0.9
0.9s 5.80nm 4.2mb
STK 27.11 212 eP 05 09.70 0.5
0.7s 2.00nm 3.9mb
CHG 64.50 296 eP 10 03.00 -0.6
e 11 50.80
CHTO 64.50 296 eP 10 03.00 -0.6
1.0s 4.00nm 4.5mb
TTA 80.17 20 eP 11 36.80 1.1
FBA 84.22 20 ePc 11 56.60 0.1
0.8s 33.30nm 5.6mb X
S.D. = 0.8 on 9 of 9 obs.

• SEP 03, 1991 02h 27m 35.49± 0.89s
41.859 N ± 6.3km 23.263 E ±19.4km
DEPTH = 10.0km (geophysicist)
GREECE-BULGARIA BORDER REGION (363)
MD 2.3 (THE).

VTS 0.73 357 iPg 27 50.00 0.0
KNT 0.75 202 ePc 27 50.13 0.0
iS 28 00.24
SRS 0.78 161 ePd 27 50.96 0.2
eS 28 01.92
SOH 1.04 176 ePd 27 55.16 0.0
eS 28 09.36
OUR 1.62 160 ePc 28 03.80 -0.3
S.D. = 0.3 on 5 of 5 obs.

? SEP 03, 1991 02h 44m 41.75± 5.50s
45.042 N ±31.3km 2.892 E ±41.5km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.1 (LDG).

CAF 0.60 259 Pg 44 53.80 -0.1
Sg 45 03.40
MAF 1.20 349 Pg 45 03.20 -0.9
Sg 45 19.00
TCF 1.33 339 Pg 45 07.00 0.6
Sg 45 23.00
BGF 1.52 359 Pg 45 09.20 0.3
Sg 45 27.60
S.D. = 1.2 on 4 of 4 obs.

? SEP 03, 1991 03h 05m 35.17± 0.65s
5.387 N ±13.7km 126.111 E ±37.6km
DEPTH = 33.0km (normal)
4.8mb (5 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

CGP 3.36 335 eP 06 25.00 -1.6
eS 07 02.00
PLP 5.85 349 ePd 07 03.50 1.6
WR2 26.45 162 eP 11 11.20 0.0
0.2s 12.20nm 5.2mb
OIS 28.99 153 iPd 11 34.00 -0.2
0.4s 7.00nm 4.7mb
ASPA 29.86 166 iPc 11 41.80 -0.2
0.3s 7.60nm 5.0mb
WARB 31.39 179 eP 11 56.40 1.0
FORR 36.08 177 iPd 12 35.90 0.1
0.3s 35.00nm 5.8mb X
STK 39.89 159 iPc 13 07.90 0.2
0.5s 4.90nm 4.5mb
ePP 13 16.90 30kmX
BRS 41.54 143 iPc 13 20.50 -0.9
0.5s 7.00nm 4.6mb
S.D. = 1.1 on 9 of 9 obs.

SEP 03, 1991 04h 20m 28.62± 0.43s
39.260 N ± 3.6km 28.833 E ± 5.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

DST 0.38 335 iPg 20 35.80 -0.6
IZI 1.18 24 iPn 20 50.90 0.2
YLV 1.37 17 iPn 20 53.60 -0.2
IZM 1.50 235 iPn 20 55.90 0.3
GPA 1.53 47 iPn 20 56.30 0.2
GBZT 1.60 17 ePn 20 57.20 0.2
ISK 1.81 5 ePn 21 00.40 0.3
MFT 1.94 322 ePn 21 02.00 0.0
EZN 2.02 287 iPn 21 03.40 0.3
YER 2.17 192 ePn 21 05.00 -0.3
ELL 2.65 161 iPn 21 12.00 -0.2
DMK 2.69 343 ePn 21 12.10 -0.6
ALN 2.69 308 ePd 21 13.00 0.3
BBTK 3.09 78 iPc 21 26.00 7.5X
iS 22 09.00
S.D. = 0.4 on 13 of 14 obs.

SEP 03, 1991 04h 38m 39.39± 0.32s
36.198 N ± 5.3km 31.807 E ± 6.3km
DEPTH = 112.8 ± 5.4 km
4.3mb (19 obs.)
TURKEY (366)

PPCY 1.38 161 eP 39 05.20 -0.1
eS 39 23.40
ELL 1.63 290 iPn 39 08.50 0.1
LFK 1.68 123 ePn 39 10.10 1.1
CSS 1.75 134 eP 39 09.00 -0.8
eS 39 30.00
FAM 2.15 123 eP 39 16.30 1.4
eS 39 43.00
YER 2.98 289 iPn 39 27.00 1.0
CIN 3.29 296 eP 39 30.00 -0.1
BBTK 3.72 11 eP 39 37.00 1.0
iS 40 19.00
BHL 3.90 125 Pn 39 34.00 -4.4X
Sn 40 17.00
ADI 4.20 137 iPc 39 41.60 -0.9
DST 4.23 324 iPn 39 41.80 -1.1
IZM 4.24 303 iPn 39 42.40 -0.6
GPA 4.25 344 iPn 39 43.30 0.1
ATZ 4.42 139 iPc 39 45.00 -0.5
eS 40 31.70
IZI 4.52 337 ePn 39 46.90 0.0
YLV 4.76 337 ePn 39 50.00 -0.2
ZNT 4.77 145 iPc 39 49.00 -1.2
eS 40 40.00
JVI 5.17 144 iPc 39 55.30 -0.5
EZN 5.64 312 ePn 40 02.00 -0.2
MKT 5.93 151 eP 40 05.60 -0.7
KOT 6.25 180 ePn 40 12.00 1.4
eSn 40 14.70
VRI 10.39 340 ePc 41 06.00 -0.6
KRA 16.31 332 eP 42 24.00 1.2
WTTA 18.62 313 iPc 42 50.70 -0.2
0.7s 24.60nm 4.6mb
i 43 01.90
WET 18.94 319 iPd 42 53.50 -0.5
0.9s 28.00nm 4.6mb
BRG 19.49 324 iP 42 59.00 -0.8
1.0s 13.00nm 4.2mb
GRB1 19.73 318 iPc 43 01.60 -0.7
0.9s 30.00nm 4.6mb
CLL 20.22 324 eP 43 07.00 -0.3
1.6s 12.00nm 4.0mb
MOX 20.49 321 iP 43 10.20 0.2
1.2s 21.00nm 4.4mb
LPG 21.04 304 eP 43 18.60 2.7
0.8s 14.10nm 4.4mb
LPL 21.06 304 eP 43 18.70 2.7
1.0s 18.00nm 4.4mb
CDF 21.76 312 eP 43 21.60 -1.2
0.8s 9.40nm 4.2mb
BSF 21.82 310 eP 43 22.90 -0.6
0.8s 8.05nm 4.1mb
HAU 22.16 310 eP 43 25.70 -1 0
0.8s 8.05nm 4.1mb
SMF 23.31 305 eP 43 37.70 -0.2
1.2s 38.70nm 4.7mb
LBF 23.32 306 eP 43 37.40 -0.6
1.0s 10.00nm 4.2mb
LOR 23.48 307 eP 43 38.90 -0.6
0.8s 14.10nm 4.4mb

SSF 23.65 306 eP 43 41.00 -0.1
1.0s 18.00nm 4.4mb
AVF 23.67 305 eP 43 41.10 -0.2
1.0s 18.00nm 4.4mb
NUR 24.76 352 iP 43 53.30 1.8
0.8s 38.10nm 4.9mb
NB2 28.09 339 P 44 20.60 -1.5
0.7s 1.60nm 3.8mb
KIC 44.72 237 P 46 43.80 0.8
GBA 46.58 107 Pd 46 58.20 0.5
0.7s 2.00nm 4.0mb
S.D. = 1.0 on 42 of 43 obs.

SEP 03, 1991 05h 52m 45.36± 0.96s
45.274 N ± 9.4km 14.693 E ± 6.3km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 2.9 (ZAG). MD 3.3 (LJU), 2.9
(TRI). Felt at Crikvenico.

RIY 0.23 288 iPgd 52 49.30 -0.9
iSg 52 53.50
VBY 0.46 60 ePg 52 53.40 -1.3
i 52 58.90
i(Sg) 53 00.60
CEY 0.50 338 iPgc 52 54.40 -1.1
iSg 53 02.90
LJU 0.78 352 iPgc 53 00.80 0.3
iSg 53 11.40
TRI 0.78 304 iPgd 53 00.00 -0.6
iSg 53 12.00
VOY 0.94 324 iPnc 53 02.20 -1.2
eSn 53 16.90
ZAG 1.06 59 iPg 53 06.70 1.4
iSg 53 20.20
FVI 1.88 315 P 53 19.50 1.8
eSn 53 46.50
CTI 2.27 291 P 53 23.80 0.2
eSn 53 57.00
HVAR 2.45 148 iPn 53 25.50 -0.4
iSg 54 00.20
WTTA 2.91 314 iPnd 53 34.60 1.9
0.4s 10.60nm
iPg 53 48.60
iSn 54 16.50
i 54 19.10
S.D. = 1.4 on 11 of 11 obs.

• SEP 03, 1991 06h 38m 42.81± 1.59s
5.036 S ±10.7km 144.837 E ±17.1km
DEPTH = 63.5 ± 21.2 km
5.0mb (6 obs.)
NEW GUINEA, PAPUA NEW GUINEA (202)

MDG 0.96 103 iPd 38 59.80 -0.9
eS 39 13.40
MNDI 1.62 226 iP 39 23.70 13.9X
YYYY 1.64 137 eP 39 10.40 0.3
LAT 2.69 127 eP 39 25.40 0.9
PMG 4.92 152 eP 39 55.00 -0.9
CTAO 15.03 175 eP 42 15.00 2.0
WR2 17.99 214 eP 42 49.10 -1.1
0.6s 28.00nm 4.6mb
ASPA 21.31 209 iPc 43 25.30 -1.1
0.8s 12.90nm 4.3mb
WARB 27.30 218 eP 44 23.20 -0.3
PSI 46.51 278 ePc 47 07.70 1.7
e 49 20.00
CHG 51.04 299 eP 47 42.00 1.0
CHTO 51.04 299 eP 47 41.70 0.7
1.1s 6.77nm 4.6mb
GUN 65.54 304 P 49 22.94 0.3
0.5s 20.00nm 5.3mb
PKI 65.82 303 P 49 24.16 -0.2
KKN 66.00 303 P 49 24.26 -1.1
0.7s 39.00nm 5.5mb
DMN 66.08 303 P 49 24.90 -1.1
GKN 66.61 303 P 49 29.00 -0.2
0.8s 27.00nm 5.3mb
SIV 146.93 130 PKP 58 18.20 -0.5
KIC 149.70 274 PKP 58 28.00 4.9X
TIC 149.97 275 PKP 58 28.60 5.1X
LIC 149.99 274 PKP 58 28.80 5.3X
LKO 150.33 280 PKPc 58 29.40 5.3X
S D. = 1.1 on 17 of 22 obs.

SEP 03, 1991 06h 59m 43.24± 0.65s

23.952 S ± 5.2km 66.857 W ± 5.4km
DEPTH = 182.6 ± 5.8 km
5.0mb (20 obs.)
JUJUY PROVINCE, ARGENTINA (128)

ANT	3.27	274	iPc	00 35.40	-0.4
			iS	01 12.20	
CCH	6.57	6	P	01 16.60	-2.3
CNCB	7.18	351	iPd	01 29.20	2.0
			S	02 49.00	
LPB	7.47	351	iPd	01 32.70	1.7
	0.9s	176.47nm		5.4mb	
ZOBO	7.73	351	iPd	01 35.20	0.6
			S	03 00.00	
ARE	8.63	329	eP	01 44.00	-2.0
			iS	03 15.00	
SIV	9.60	36	iP	01 58.20	-0.4
PEL	9.76	199	eP	01 59.00	-1.5
ITB1	11.39	96	e(P)	02 24.50	2.7
ITB	11.56	97	e(P)	02 33.80	9.8X
ITB7	11.60	98	Pc	02 38.50	14.0X
PPD	14.44	85	eP	03 00.80	0.3
			i	03 04.60	
			e	03 07.60	
			e	04 46.40	
			e	04 49.50	
NNA	15.21	320	iPc	03 11.50	1.4
	0.9s	16.81nm		4.4mb	
VAO	18.27	91	eP	03 44.90	-0.9
			i	03 48.00	
			e	03 54.80	
			e	04 06.20	
BMA	20.89	91	eP	04 12.40	0.0
CUMC	26.98	335	ePd	05 11.76	1.3
PURC	27.70	339	ePd	05 18.08	1.0
SILC	28.04	340	ePd	05 20.44	0.5
SOB1	28.80	64	eP	05 24.90	-1.5
			e	05 25.60	
HOOC	28.87	339	eP	05 26.58	-0.6
ANCC	28.99	339	ePd	05 28.08	0.1
CLMC	29.24	340	eP	05 29.01	-1.3
HOBC	29.55	341	ePd	05 31.20	-1.9
UPA	35.00	338	iPd	06 21.00	1.0
	0.9s	95.80nm		5.5mb	
AIA	41.33	178	eP	07 12.60	0.6
SNA	59.13	159	iPc	09 25.70	-0.7
	0.9s	33.61nm		5.1mb	
JSC	59.50	346	P	09 27.90	-1.4
BLA	62.16	348	P	09 46.00	-1.2
NVL	63.87	159	(P)	09 58.00	0.0
FVM	65.47	340	P	10 06.50	-2.1
	0.7s	83.67nm		5.7mb	
TUL	65.53	334	iPc	10 07.60	-1.4
	0.8s	25.50nm		5.1mb	
SPA	66.19	180	iPd	10 12.90	-0.3
	1.1s	29.17nm		5.0mb	
LIC	67.30	72	P	10 19.10	-1.5
	0.4s	4.50nm		4.6mb	
KIC	67.61	72	P	10 21.32	-1.3
	0.5s	18.50nm		5.1mb	
LKO	68.45	68	P	10 26.60	-1.2
ALQ	69.58	326	iPd	10 34.70	0.2
	0.9s	33.19nm		5.1mb	
ANMO	69.58	326	P	10 34.30	-0.2
	0.8s	27.99nm		5.1mb	
GLD	72.79	330	P	10 54.10	0.6
	1.2s	34.34nm		5.0mb	
GOL	72.81	330	P	10 53.60	-0.2
	0.7s	5.22nm		4.4mb	
GLA	72.82	319	iPd	10 54.50	0.8
BAR	73.68	318	eP	10 59.00	0.3
PV09	73.69	327	P	10 59.40	0.5
PLM	74.26	318	P	11 02.50	0.3
TPC	74.29	319	eP	11 03.00	0.8
PEC	74.81	318	P	11 05.20	0.0
RVR	75.01	318	iPd	11 07.00	0.8
GSC	75.56	320	iPd	11 10.00	0.5
MWC	75.58	318	eP	11 10.00	0.3
PAS	75.60	318	eP	11 10.00	0.4
SBB	75.75	319	iPd	11 10.50	0.0
RSSD	75.82	333	P	11 10.40	-0.5
	0.8s	18.03nm		4.9mb	
CLC	76.39	320	eP	11 14.00	0.0
ISA	76.80	319	iPd	11 17.50	1.2
SYP	76.96	317	eP	11 18.00	0.7
BW06	77.18	329	P	11 17.50	-1.0
TNP	77.72	322	P	11 22.00	0.5
	0.6s	8.80nm		4.7mb	
SCH	78.44	0	eP	11 24.00	-0.8
LRM	80.84	330	ePd	11 38.80	0.7
ORV	81.18	320	P	11 40.00	0.3
MAW	81.44	163	iP	11 41.80	1.2
	0.8s	20.00nm		4.9mb	
SES	83.70	333	ePd	11 52.40	0.0
FFC	83.96	340	iPd	11 53.30	-0.3
	0.8s	13.00nm		4.7mb	
NEW	84.81	329	P	11 56.90	-1.1
	0.6s	15.75nm		5.0mb	
TOL	86.34	43	iPc	12 07.50	1.8
	1.2s	31.25nm		5.0mb	
BUL	B6.78	110	iPd	12 10.20	1.7
PGC	88.17	326	eP	12 15.00	0.8
KRI	89.00	108	iPd	12 23.00	3.8X
YKA	94.12	340	eP	12 41.20	-0.3
	0.6s	9.70nm		5.2mb	
INK	103.89	339	ePdiff	13 25.00	-0.3
ASPA	128.56	205	iPKPd	18 29.80	-0.8
	0.5s	20.30nm			
WR2	131.71	207	iPKPc	18 36.10	-0.5
	0.3s	27.60nm			
			e	21 43.90	
WRA	131.73	207	PKP	18 35.00	-1.6
	0.4s	15.70nm			
GBA	144.75	100	PKPd	18 59.60	-0.8
	0.6s	20.00nm			
HYB	147.05	95	ePKP	19 04.50	0.3
GKN	154.09	75	PKP	19 15.20	0.6
DMN	154.52	76	PKP	19 16.20	0.9
KKN	154.66	75	PKP	19 16.00	0.5
PKI	154.79	76	PKP	19 16.40	0.6
MAT	155.06	306	ePKP	19 24.00	8.5X
	0.6s	7.33nm			
GUN	155.19	75	PKP	19 17.20	0.8
CHG	165.82	108	ePKP	19 28.80	1.3

S.D. = 1.1 on 77 of 81 obs.

? SEP 03, 1991 08h 22m 51.37± 9.67s
44.371 N ±33.7km 7.777 E ±69.3km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.3 (LDG).

DOI	0.40	289	P	22 59.60	-0.1
			eSg	23 03.80	
SBF	0.56	206	Pg	23 02.80	-0.1
			Sg	23 08.20	
FRF	1.15	226	Pg	23 12.80	-0.1
			Sg	23 24.60	
LRG	1.37	229	Pg	23 17.00	0.5
			Sg	23 32.00	
LMR	1.38	222	Pg	23 16.40	-0.3
			Sg	23 32.60	

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

SEP 03, 1991 08h 44m 48.60± 0.13s
33.649 N ± 2.8km 138.778 E ± 2.7km
DEPTH = 27.2km (geophysicist)
5.9mb (105 obs.) 6.4Msz (21 obs.)
SOUTH OF HONSHU, JAPAN (211)
Ms 6.0 (BRK). Felt (IV JMA) on Miyake-jima, (III JMA) at Yokkoichi and Tsu; (II JMA) at Yokohama and Osoka; (I JMA) at Tokyo and Nagoyo. Depth from broadband displacement seismograms.
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=305 Dip=85 Slip=-175
NP2: 215 85 -5
Principal Axes:
T Plg= 0 Azm=260
P 7 170
Comment: The focal mechanism is moderately well controlled and corresponds to strike-slip faulting with a small normal component. The preferred fault plane is not determined.
RADIATED ENERGY
No. of sta: 11 Focal mech. F
Energy 8.9±2.5*10**14 Nm
MOMENT TENSOR SOLUTION
Dep 9 No of sta: 19
Moment Tensor; Scale 10**18 Nm
Mrr=-0.31 Mtt=-4.22
Mff= 4.53 Mrt= 0.43
Mrf= 1.10 Mtf=-0.24
Principal axes:
T Val= 4.77 Plg=12 Azm=269
N -0.49 76 59
P -4.29 7 178
Best Double Couple:Mo=4.5*10**18
NP1:Strike=313 Dip=77 Slip= 176
NP2: 44 86 13
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 23S, 66C M.W.: 11S, 20C
Centroid Location:
Origin Time 08:44:51.6 0.2
Lat 34.09N 0.02 Lon 138.48E 0.02
Dep 15.0 FIX Half-durotion 7.4
Moment Tensor; Scale 10**18 Nm
Mrr=-0.54 0.04 Mtt=-1.73 0.04
Mff= 2.27 0.04 Mrt= 1.58 0.10
Mrf=-0.53 0.14 Mtf=-0.79 0.04
Principal Axes:
T Val= 2.66 Plg=17 Azm= 74
N 0.18 52 322
P -2.84 33 175
Best Double Couple:Mo=2.8*10**18
NP1:Strike=210 Dip=54 Slip= -13
NP2: 308 79 -143

IIDJ	1.96	339	iPd	45 19.30	-1.4
CHJJ	2.40	4	P	45 26.00	-0.9
WKYJ	2.71	283	iP+	45 30.10	-1.2
			S	46 01.10	
KAKJ	2.80	24	P	45 30.50	-1.9
MAT	2.92	351	iPd	45 33.40	-0.9
			eS	46 11.00	
TSRJ	2.98	310	iP+	45 33.30	-1.7
			S	46 09.50	
MTMJ	3.04	345	P	45 35.10	-0.9
			S	46 15.00	
NIIJ	3.59	3	iPd	45 42.80	-0.9
TKSJ	3.95	276	eP	45 47.60	-1.3
YAMJ	4.63	12	eP	45 57.50	-1.0
YONJ	4.65	291	iP+	45 57.30	-1.6
			eS	46 51.20	
OFUJ	5.90	22	eP	46 13.20	-3.2X
SAP	9.60	11	eP	47 06.00	-2.1
			eS	48 52.00	
SEO	10.38	295	P	47 00.00	-18.7X
MDJ	13.06	330	eP	47 56.00	1.2
	8.0s	******** nm		7.1mb X	
	N 16s	67.70um			
	E 16s	314.00um			
			S	50 21.00	
YSS	13.68	11	P	48 01.00	-2.1
CN2	14.51	318	iPc	48 15.50	1.6
	6.0s	******** nm		6.6mb X	
	Z 13s	136.00um			
	N 13s	83.30um			
	E 13s	225.00um			
			pP	48 22.00	
			eS	50 59.00	
SNY	14.52	309	Pc	48 14.50	0.4
	Z 17s	69.10um			
	N 14s	237.00um			
	E 14s	58.60um			
			pP	48 24.00	
DL2	14.79	296	iPc	48 18.00	0.4
	6.0s	3600.00nm		6.0mb X	
	N 12s	114.00um			
	E 12s	88.30um			
			S	51 03.00	
SSE	15.08	265	Pc	48 20.00	-1.5
	1.0s	140.00nm		5.2mb	
	Z 16s	37.90um			
	N 12s	52.50um			
	E 12s	34.50um			
			pP	48 26.00	
			sP	48 34.60	
			PP	48 38.00	
NJ2	16.82	270	iPc	48 44.00	0.3
	Z 19s	47.10um			
	N 11s	33.20um			
	E 10s	52.80um			
			sP	48 54.00	
			iS	51 55.00	
TIA	17.94	284	Pc	48 58.40	0.7

03d 08h

```
      2.0s   700.00nm                5.4mb
   N  13s    209.00um
   E  13s    186.00um
                  S       52 20.00
                  sS      52 30.00
BJI   19.16 296 eP        49 12.00  -0.5
      2.0s   990.00nm                5.7mb
   N  14s    138.00um
                  eS      52 46.00
QZH   19.60 249 iPc       49 16.00  -1.7
      5.0s  7500.00nm                6.2mb X
   Z  13s     35.20um                4.6MszX
   N  11s     17.10um
   E  12s     35.40um
PJG   20.73 163 eP        49 27.80  -1.8
                  pP      49 33.20  20kmX
GUA   20.78 163 eP-       49 27.80  -2.4
      0.7s   449.32nm                6.0mb
                  eS      53 30.00
WHN   20.91 268 Pc        49 32.00   0.6
      6.0s  7600.00nm                6.3mb X
   Z  16s     29.80um                5.8MszX
   E  12s     87.20um
                  pP      49 42.00  39kmX
HIA   21.05 323 iPd       49 41.33   8.7X
                  eS      53 31.21
TIY   21.75 288 Pc        49 39.40  -0.5
      7.0s  1900.00nm                5.6mb X
   Z  20s     76.30um                6.1Msz
   N  17s    129.00um
                  pP      49 48.50  33kmX
CVP   21.99 228 iPd       49 58.00  15.8X
      0.5s    96.00nm
PIP   22.29 231 ePd       49 44.00  -1.3
HHC   22.77 296 Pc        49 49.00  -1.0
      6.0s  4100.00nm                6.1mb X
   Z  14s    107.00um                6.4MszX
   N  15s     98.40um
                  sP      49 59.00
                  sS      54 04.00
SZP   22.96 230 ePd       50 05.50  13.6X
      1.2s    83.00nm
BAG   23.74 228 eP        49 58.00  -1.6
                  eS      54 10.00
BTO   23.89 295 P         50 01.50   0.6
      7.0s  4300.00nm                6.1mb X
   N  13s     73.10um
   E  13s     68.80um
HKC   24.43 249 eP        50 09.00   2.9
                  eS      55 32.00
GZH   24.67 251 Pc        50 08.00  -0.4
   Z  14s     44.20um                6.1MszX
   N  13s     16.60um
   E  12s     33.50um
                  iS      54 30.00
XAN   24.76 279 P         50 08.70  -0.7
      5.0s  2500.00nm                6.1mb X
   N  12s     18.00um
   E  12s     42.90um
                  S       54 34.00
TGY   25.32 224 ePc       50 17.00   2.4
PLP   25.70 213 ePd       50 20.00   1.7
      1.0s    83.00nm                5.3mb
PGP   25.79 223 ePc       50 19.50   0.5
MAP   26.90 214 eP        50 27.00  -2.3
BIP   27.82 207 ePc       50 37.50  -0.2
      1.8s    11.46nm                4.3mb X
GYA   28.63 264 iPc       50 44.00  -1.0
      5.0s  1100.00nm                5.8mb X
   Z  18s     30.40um                5.9Msz
   N  15s     75.10um
   E  15s     21.70um
                  pP      50 53.00  31kmX
                  sP      50 57.00
                  PcP     53 50.00
                  S       55 33.00
                  sS      55 48.00
                  SS      57 04.00
                  ScP     57 28.00
LZH   28.68 285 iPc       50 47.59   2.1
      1.5s   250.00nm                5.7mb
   Z  15s     53.30um                6.3MszX
   N  13s     71.60um
                  PP      51 34.00
                  iS      55 33.44
                  sS      55 46.00
                  SS      57 01.00

LZH   28.68 285 eP        50 44.00  -1.5
      1.5s   250.00nm                5.7mb
   Z  15s     53.30um                6.3MszX
   N  13s     71.60um
                  pP      50 50.50  23kmX
                  sP      50 53.50
                  PP      51 34.00
                  S       55 32.50
                  sS      55 46.00
                  SS      57 01.00
YAK   28.97 351 eP        50 44.80  -2.8
                  ipP     51 03.00  78kmX
                  iPP     51 40.00
                  iPPP    51 58.00
                  ePSP    53 40.00
                  eS      55 35.00
                  iSS     56 38.00
                  iSSS    57 02.00
DAV   29.12 208 eP        50 46.90  -2.5
QIZ   29.61 248 eP        50 55.00   1.2
   N  11s      5.40um
   E  13s     29.30um
                  pP      51 06.00  40kmX
                  PP      51 46.00
                  S       55 39.00
CD2   29.65 274 iPc       50 52.00  -2.2
   Z  18s     70.90um                6.3Msz
   E  13s     56.90um
                  PP      51 57.00
                  S       55 49.00
IRK   30.94 317 eP        51 06.00   0.7
                  e       51 32.00 118kmX
                  ePP     52 13.00
                  ePPP    52 42.00
                  e       54 26.00
                  e       55 45.00
                  eS      56 06.00
                  e       56 39.80
                  eSS     57 16.00
                  ePSS    57 41.00
                  eSSS    57 56.00
SMY   31.60  42 eP        51 13.20   2.2
      1.0s   300.00nm                6.1mb
GTA   31.66 292 iPc       51 10.80  -1.1
      1.4s    70.00nm                5.4mb
   Z  16s     22.60um                5.9MszX
   N  16s     93.10um
                  pP      51 22.00  42kmX
                  PP      52 18.00
                  S       56 16.00
KMI   32.40 264 iPc       51 17.28  -1.3
      0.5s  1100.00nm                7.0mb X
   Z  16s     68.50um                6.4MszX
   N  13s     23.80um
   E  12s      7.30um
                  ic      51 20.75
                  ipPd    51 25.72  29kmX
                  esPd    51 30.19
                  ePP     52 23.82
                  e       52 28.24
                  eS      56 31.99
KKM   34.54 222 ePd       51 39.50   2.5
TSM   35.10 218 ePd       51 43.00   1.3
ADK   36.74  47 ePc       51 54.30  -0.9
      1.5s   539.40nm                6.2mb
   Z  20s      5.00um                5.3MszX
LOE   36.90 253 eP        51 55.50  -1.5
CHG   38.41 258 eP        52 09.90   0.2
CHTO  38.41 258 ePc       52 08.44  -1.2
                  ec      52 12.91  15kmX
                  esPd    52 20.53
                  ePP     53 40.65
PCT   38.69 250 eP        52 17.10   5.1X
NST   39.14 252 eP        52 18.00   2.3
RAB   39.71 159 eP        52 16.00  -4.4X
                  eS      58 26.00
LSA   40.45 278 iPc       52 28.00   1.0
   Z  14s     12.00um                5.9MszX
   N  15s     16.30um
   E  14s      9.70um
                  pP      52 35.00  24kmX
                  S       58 35.00
WMQ   40.55 300 iPc       52 27.73   0.5
      2.0s   200.00nm                5.5mb
   Z  16s     40.70um                6.4MszX
   N  15s    165.00um
   E  15s     65.70um

                  ec      52 32.37  16kmX
                  ePP     54 06.94
                  iS      58 37.49
                  sS      58 48.00
                  iSS     01 39.58
                  eScS    02 22.60
LAT   40.83 167 eP        52 29.50  -0.1
KHT   40.86 253 eP        52 31.00   1.1
NNT   41.24 249 iPc       52 35.10   2.1
SHL   41.27 272 eP        52 34.50   1.0
                  eS      58 46.00
PMG   43.55 168 eP        52 51.00  -0.8
SNG   44.01 242 eP        52 57.10   1.5
                  e       24 59.90
GUN   45.40 278 P         53 08.16   1.0
      0.8s   172.00nm                6.0mb
IPM   45.48 239 ePd       53 08.00   0.6
      0.9s    54.70nm                5.5mb
ANM   45.60  30 eP        53 08.80   1.0
KGM   45.71 234 P         53 09.00  -0.2
PKI   45.91 277 P         53 10.82  -0.4
KKN   45.94 278 P         53 11.90   0.6
      0.8s   153.00nm                6.0mb
DMN   46.15 278 P         53 12.18  -0.8
GKN   46.40 278 P         53 13.02  -1.8
      0.8s   139.00nm                6.0mb
SDN   46.71  43 eP        53 16.60  -0.1
HNR   47.34 151 P         53 27.00   5.0X
TTA   49.43  33 P         53 37.00  -0.9
      1.2s   121.21nm                5.8mb
SVW   49.50  36 ePc       53 39.20   0.8
KSH   49.89 296 P         53 42.00   0.2
   E  12s     50.00um
                  pP      53 51.00  30kmX
                  ePP     55 38.00
                  S       09 00.00
PDB   50.18  37 P         53 42.80  -0.7
BRW   50.36  22 eP        53 45.20   0.5
IMA   50.69  29 eP        53 48.90   1.4
      1.2s   132.40nm                5.8mb
RSO   50.89  36 eP        53 47.50  -1.7
KDC   51.11  40 eP        53 50.90   0.3
SLKM  52.15  36 eP        53 57.70  -0.8
                  e       55 07.80 333kmX
NDI   52.24 282 iPd       53 58.00  -1.6
      1.2s   328.13nm                6.1mb
PMR   52.62  35 ePc       54 00.00  -2.0
      1.2s   363.64nm                6.2mb
   Z  20s      7.00um                5.7Msz
COL   53.11  31 ePc       54 04.77  -0.8
                  epPd    54 12.06  24kmX
                  iS      01 36.43
                  i       01 42.22
FBA   53.11  31 eP        54 05.00  -0.6
      0.7s    87.21nm                5.8mb
WRA   53.46 185 P         54 05.00  -3.6X
      1.0s    15.50nm                4.9mb
WR2   53.46 185 iPc       54 06.30  -2.3
      0.6s    23.70nm                5.3mb
QIS   53.91 179 iPc       54 10.00  -1.8
      1.9s   236.00nm                5.9mb
                  ePKKP   19 00.40
CTAO  53.91 171 iPd       54 10.10  -1.8
      2.0s   223.21nm                5.8mb
                  e       54 25.50  58kmX
                  iS      01 43.61
                  e       01 49.73
TOA   53.99  34 ePc       54 12.30   0.1
KLU   54.17  35 P         54 12.30  -1.2
GAR   54.25 297 iP        54 14.10  -0.3
GAR   54.25 297 iP        54 14.40   0.0
                  iPP     56 10.00
                  iPPP    57 16.00
                  iS      02 00.00
                  iScS    08 04.00
                  iSSS    08 54.00
BALM  55.94  35 eP        54 24.80  -1.6
HYB   55.98 269 ePc       54 25.50  -1.7
      1.2s   121.20nm                5.8mb
                  iS      02 16.00
KIP   56.59  85 iPc       54 32.28   0.8
                  eS      02 27.07
                  e       02 32.04
ASPA  57.19 185 eP        54 32.80  -2.8
      1.0s    23.60nm                5.2mb
   Z  22s     13.10um                6.0MszX
                  e       58 03.00
```

			eS	02	29.10		BFD		70.55	177	iPd	56	03.50	0.6	TNP		79.66	51	eP	56	55.00	-0.5
INK	58.37	26	eP	54	42 00	-1.4	SHI		71.41	294	eP	56	07.00	-1.7			0.8s	44.12nm				5.5mb
	0.9s	77.00nm				5.8mb	NUR		71.91	332	iP	56	09.60	-1.3					PP	00	01.70	
GBA	58.81	266	Pc	54	45.30	-1.9			0.9s	42.20nm				5.5mb	SYP		79.81	55	eP	56	58.00	1.7
	0.9s	54.60nm				5.7mb		Z	16s	13.10um				6.3MszX	VRI		79.88	319	ePc	56	55.00	-1.2
POO	59.36	273	iPd	54	53.80	2.8					i	56	15.60	19kmX	TLB		79.94	317	eP	56	57.50	1.0
OLP	60.12	174	eP	54	54.00	-1.9					e	59	06.00		BBTK		79.94	311	eP	57	00.00	3.2X
NANU	60.13	205	eP	54	56.00	0.0					e	05	36.00		COP		79.95	332	iPd-	56	57.60	1.3
SIT	60.36	39	P	55	00.00	2.8					e	06	08.00				0.8s	95.52nm				5.9mb
	1.0s	95.00nm				5.9mb					e	09	44.00			Z	18s	17.87um				6.5Msz
MBC	60.37	16	ePc	54	55.50	-1.6					e	10	10.00						e	59	50.00	
	1.0s	61.00nm				5.7mb					LR	33	12.00						iS	07	03.00	
RMQ	60.55	170	eP	55	08.00	9.1X	PNT		72.11	42	eP	56	11.00	-1.4	SBC		80.04	55	ePc	56	57.75	0.4
KOD	60.56	263	eP	54	59.80	0.2			1.0s	115.00nm				5.9mb					eS	07	02.25	
WARB	60.61	193	eP	54	56.00	-3.3X	LON		72.14	45	ePc	56	11.07	-1.6					e	07	08.32	
	0.6s	17.00nm				5.4mb	COR		72.32	48	ePc	56	14.26	0.6					ePS	07	51.91	
DZM	61.36	151	iPc	55	05.00	0.5					ec	56	20.06	19kmX					eSS	12	18.68	
BRS	62.14	166	iPc	55	08.90	-0.7					eS	05	39.90		OASM		80.06	295	eP	56	57.00	-0.6
	1.2s	12.40nm				4.9mb					i	05	45.37		ISA		80.20	54	ePc	56	56.95	-1.3
			ipP	55	10.00	4kmX					i	06	10.20						iS	07	03.38	
			i(sP)	55	24.00		SLY		73.70	302	ePc	56	22.00	0.2					ePS	07	48.35	
			i(PP)	55	37.00		FHC		73.79	52	iP	56	23.68	1.3	PSN		80.40	316	eP	57	00.00	0.9
			eS	03	33 00		NEW		74.07	42	eP	56	22.70	-1.2	ISR		80.43	318	eP	57	00.50	1.2
MAIO	63.23	297	eP	55	17.00	0.1			1.0s	162.50nm				6.0mb	BMR		80.46	322	ePc	57	01.00	1.7
	1.2s	36.11nm				5.4mb	WDC		74.84	51	iPc	56	28.37	-0.1	FRB		80.54	12	eP	56	59.00	-0.4
			eS	03	55.00		LBFM		74.86	50	P	56	29.00	0.2	MLR		80.54	319	eP	57	00.00	0.0
KBS	63.62	350	eP	55	23.00	4.1X	DHR		74.88	292	ePd	56	36.00	7.2X	KRA		80.66	325	eP	57	00.00	-0.3
VUN	63.80	137	eP	55	22.00	1.3					eS	09	02.00				1.0s	124.00nm				5.9mb
SVA	63.89	137	eP	55	23.10	1.8	MSL		74.95	304	eP	56	34.00	4.9X		Z	18s	18.40um				6.5Msz
FORR	64.94	190	eP	55	26.00	-1.8					e	57	41.00	289kmX		E	20s	27.60um				
COO	65.07	168	eP	55	29.00	0.2					eS	06	07.50						e	57	01.10	4kmX
CMS	65.13	173	eP	55	29.00	-0.1					ePS	06	41.00						i	57	08.80	
STK	65.23	177	iPc	55	29.10	-0.6	UPP		75.03	333	iP	56	28.50	-0.6					e	00	11.40	
	0.8s	4.70nm				4.7mb X					iPP	59	21.60						eS	07	10.00	
			iScP	01	19.40						iS	06	06.00		CLC		80.70	53	eP	57	00.00	-0.9
KEV	65.84	339	eP	55	34.00	0.7	MIN		75.57	51	eP	56	32.93	0.1	SPC		81.09	324	iP	57	04.50	1.6
	1.0s	36.00nm				5.4mb	BHD		75.66	300	eP	56	33.50	0.3					i	57	11.30	22kmX
	Z 22s	31.00um				6.5Msz					epP	56	39.00	18kmX					e	00	13.40	
			i	55	39.50	18kmX					ePP	58	56.00		UOSK		81.11	295	eP	57	04.00	0.8
			e	58	04.00						eS	06	03.00		BUC		81.13	318	ePd	57	10.00	7.1X
			e	00	28.00						esS	06	13.00		SBB		81.19	54	eP	57	03.00	-0.5
			e	04	24.00		ORV		76.06	52	eP	56	34.50	-0.9	MTUR		81.19	319	eP	57	02.00	-1.3
			e	08	34.00		SES		76.14	38	eP	56	35.00	-0.7	PAS		81.26	55	ePc	57	03.45	-0.3
			LR	26	34.00				1.8s	795.00nm				6.4mb					eS	07	12.62	
KEV	65.84	339	iPd	55	40.21	6.9X					pP	56	52.00	62kmX					i	07	18.14	
	1.0s	36.00nm				5.4mb	NB2		76.45	337	P	56	36.30	-0.9					ePS	08	00.35	
	Z 22s	31.00um				6.5Msz			1.5s	214.50nm				6.0mb					i	08	16.90	
			e	58	04.00	773kmX	BKS		76.46	54	eP	56	38.70	1.0	MWC		81.29	55	eP	57	05.00	0.8
			e	00	28.00				0.9s	84.00nm				5.8mb	BHL		81.45	305	P	57	04.00	-0.9
			iS	04	24.71			Z	20s	8.00um				6.0Msz					S	07	16.00	
			e	08	34.00			N	20s	8.00um					ITU		81.49	314	iPc	57	08.00	3.2X
			LR	26	34.00			E	20s	2.30um					GSC		81.52	53	ePc	57	04.42	-0.8
AFI	66.74	127	eP	55	35.11	-4.7X					iS	06	23.00						eS	07	14.59	
			epPc	55	42.89	25kmX					e(SS)	10	48.00						i	07	20.93	
			iS	04	36.89						iLQ	16	19.00						ePS	08	02.26	
			ePS	04	55.43						eLR	19	28.00						ePS	08	02.59	
BAL	67.23	201	eP	55	41 00	-1.5	PCC		76.56	54	eP	56	33.00	-5.2X	BW06		81.58	44	ePd	57	05.50	-0.1
SOD	67.24	337	iP	55	41.80	-0.5	TAU		76.59	174	eP	56	40.00	2.0			1.3s	81.97nm				5.6mb
			i	55	47.10	17kmX	GDH		77.01	4	ePc	56	39.28	-0.8					PP	00	15.00	
YKA	67.81	29	eP	55	45.60	-0.3			0.8s	44.78nm				5.5mb	IZI		81.68	313	eP	57	06.50	0.6
	1.2s	30.80nm				5.3mb					epPd	56	46.07	22kmX	KSP		81.81	327	ePc	57	06.20	-0.1
RIV	68.12	169	eP	55	49.00	0.9					ePP	59	35.23				1.2s	154.00nm				5.9mb
	Z 19s	5.76um				5.8Msz					e	16	33.00						i	57	07.60	4kmX
			eS	04	09.80		KVT		77.17	311	eP	56	39.00	-2.6					ePP	00	18.00	
ADE	68.26	180	eP	55	43.20	-5.7X	ARN		77.22	54	P	56	42.00	0.1	RVR		81.89	55	eP	57	06.00	-1.0
NWAO	69.26	199	eP	55	54.00	-1.1	CMB		77.61	53	eP	56	45.12	1.0	DEV		81.93	321	ePd	57	09.00	2.0
	Z 20s	3.70um				5.6Msz	FFC		77.71	31	eP	56	43.00	-1.2	JMB		82.08	316	iP	57	10.00	2.2
CNB	69.32	171	eP	55	56.30	0.8			0.9s	50.00nm				5.5mb	PEC		82.09	55	eP	57	06.80	-1.4
	1.3s	33.00nm				5.3mb	PRS		77.87	54	eP	56	46.62	1.1					PP	00	16.00	
OBN	69.50	323	eP	55	56.00	-0.4	HYA		77.95	339	iP	56	51.38	6.0X	PSZ		82.12	324	iP	57	08.30	0.2
	1.5s	336.00nm				6.2mb	LLA		78.01	54	eP	56	46.80	0.5	PVL		82.32	317	eP	57	10.00	0.9
	Z 16s	32.00um				6.7MszX	LRM		78.08	43	eP	56	46.60	-0.2	CSS		82.41	307	eP	57	11.00	1.3
	N 15s	27.00um					RYD		78.42	292	ePd	56	47.00	-1.8	PLM		82.61	55	eP	57	12.00	0.9
	E 16s	48.00um									eS	09	03.00		MFT		82.72	315	iP	57	10.90	-0.4
			iPP	58	33.00		KAS		78.43	312	eP	56	50.00	1.4	TPC		82.72	54	eP	57	12.00	0.5
			ePPP	00	20.00		PRI		78.45	54	eP	56	50.31	1.5	PFO		82.74	54	iPd	57	12.38	0.7
			iS	05	02.00		FRI		78.63	53	eP	56	50.97	1.3					eS	07	27.24	
			eSS	09	30.00		BER		78.83	338	eP	56	52.00	1.8					i	07	34.41	
			eSSS	12	48.00		MJMA		78.85	294	ePd	56	51.00	-0.1					ePS	08	15.30	
			LQ	14	40.00		EGD		78.95	338	eP	56	49.85	-1.0	BRG		82.83	328	eP	57	11.30	-0.3
IR7	69.99	300	ePc	56	00.00	0.0	CLI		79.15	319	eP	56	53.00	0.6			1.6s	56.00nm				5.4mb
IR4	70.00	299	ePc	56	00.00	0.0	PPE		79.18	319	eP	56	50.00	-2.4					e	57	18.80	24kmX
IR1	70.07	300	ePc	56	01.50	1.0	AKU		79.38	350	iP	56	58.20	5.1X					eS	07	36.00	
IR5	70.24	300	eP	56	03.00	1.5			1.0s	36.00nm				5.3mb	BUD		82.85	324	e(P)	57	12.00	0.2
PGC	70.24	44	eP	56	02.00	0.9	BSD		79.38	331	iP	56	53.50	0.2	KHL		82.87	312	eP	57	11.50	-0.7
KAF	70.32	333	iP	56	00.60	-0.7			1.3s	190.00nm				6.0mb	TIM		82.91	321	iPd	57	21.00	8.9X
	1.1s	105.40nm				5.9mb					e	59	57.00		CLL		82.92	329	iPc	57	11.60	-0.4

03d 08h

```
        1.7s   280.00nm            6.1mb
                 eS      07 32.00
DIM     82.95 316 iP     57 14.00   1.6
SRO     82.97 324 iP     57 13.60   1.2
                 i       00 31.20
PPCY    83.11 307 eP     57 14.00   0.7
BAR     83.13  55 eP     57 14.00   0.5
PRU     83.21 327 eP     57 13.70   0.2
        1.9s   271.50nm            6.1mb
     E  16s     23.80um
                 e       57 20.50  21kmX
                 PP      00 30.50
                 eS      07 36.00
                 PS      08 35.40
                 SS      13 09.80
ZST     83.29 325 eP     57 13.80  -0.2
                 i       57 22.00  26kmX
                 i       57 54.90
                 e(PP)   00 32.00
PLD     83.39 317 iP     57 16.00   1.4
ELL     83.58 310 iP     57 15.50  -0.4
VKA     83.62 325 iPd    57 17.30   1.6
        5.0s  1866.00nm            6.5mb X
     Z  14s     12.50um            6.4MszX
                 i       57 23.40  19kmX
                 iPP     00 36.70
                 LR      39 00.00
UZD     83.68 323 eP     57 16.00   0.0
RSSD    83.79  40 eP     57 17.40   0.4
        1.4s   157.17nm            6.0mb
EZN     83.89 314 eP     57 16.90  -0.3
VTS     83.91 318 iP     57 18.00   0.5
BEO     83.93 321 eP     57 17.80   0.5
MOX     84.00 329 iPd    57 18.10   0.5
        1.7s   230.00nm            6.1mb
     Z  18s     16.00um            6.4Msz
     N  18s     21.00um
     E  18s     14.00um
                 S       07 45.00
AYN     84.08 301 ePd    57 18.00  -0.4
HOF     84.14 329 eP     57 19.00   0.7
     Z  18s     29.00um            6.7Msz
GLA     84.17  54 eP     57 20.00   1.2
IZM     84.22 313 eP     57 18.50  -0.5
KHC     84.26 327 iP     57 18.50  -0.5
        1.3s   114.60nm            5.9mb
     Z  16s     21.00um            6.6MszX
     N  18s     23.00um
     E  16s     24.40um
                 i       57 24.00  17kmX
                 e       00 37.50
                 S       07 44.00
MMB     84.27 317 eP     57 20.00   0.8
WIT     84.33 333 eP     57 21.00   1.8
YER     84.37 311 eP     57 20.00   0.2
PV09    84.50  47 eP     57 20.30  -0.5
HOL     84.53 301 ePd    57 24.00   3.4X
WET     84.56 328 eP     57 19.50  -1.0
KMR     84.79 326 iP+    57 21.50  -0.1
                 i       57 29.70  26kmX
PMO     84.87 112 iP     57 31.20   8.9X
        1.6s   240.00nm            6.2mb
GRF     84.88 329 iPc    57 22.50   0.4
        1.0s    58.00nm            5.8mb
     Z  21s     22.00um            6.5Msz
                 e       57 30.40  25kmX
                 eSKS    07 55.00
WTS     84.92 333 eP     57 22.00  -0.1
ABHA    84.93 288 eP     57 25.00   1.9
AFR     84.95 115 iP     57 31.80   9.1X
        1.6s   125.00nm            5.9mb
KNT     85.03 317 P      57 23.80   0.9
TPT     85.07 111 iP     57 32.20   8.8X
        1.6s   265.00nm            6.2mb
PPN     85.20 115 iP     57 34.40  10.4X
        1.6s   175.00nm
SKO     85.31 318 eP     57 25.10   0.8
     Z  19s     13.10um            6.3Msz
     N  15s     23.13um
     E  15s     31.14um
                 ipP     57 32.40  23kmX
                 i       57 50.00
                 i       07 52.00
                 iSS     13 21.00
                 i       19 54.00
RUV     85.38 112 iP     57 33.60   8.7X
        1.6s   230.00nm            6.2mb
```

```
DBN     85.45 333 eP     57 32.00   7.2X
     Z  20s     11.50um            6.3Msz
                 ePP     00 53.00
                 eS      07 54.00
                 eSS     13 38.00
TVO     85.49 115 iP     57 36.20  10.7X
        1.6s   255.00nm
ZAG     85.51 324 eP     57 25.00  -0.2
EKA     85.56 339 P      57 26.00   0.7
        0.9s    12.30nm            5.1mb
TNS     85.65 331 eP     57 26.40   0.5
KBA     85.87 326 iPd    57 27.40   0.2
        1.6s   163.00nm            6.0mb
GOL     85.97  44 P      57 27.30  -0.7
FUR     86.00 328 eP     57 28.90   1.2
GLD     86.02  44 ePd    57 29.50   1.3
        1.5s   203.13nm            6.1mb
LJU     86.06 325 eP     57 27.00  -1.0
VBY     86.09 324 eP     57 27.60  -0.5
ENN     86.23 332 eP     57 29.00   0.3
        1.0s   121.00nm            6.1mb
                 ePP     00 57.50
OHR     86.24 318 iP     57 28.20  -0.9
                 i       00 55.80
MEM     86.32 332 iPd    57 29.20   0.1
CEY     86.33 325 eP     57 28.00  -1.4
VOY     86.37 325 eP     57 27.50  -2.2
FVI     86.49 326 P      57 29.94  -0.1
        1.5s    99.60nm            5.8mb
WTTA    86.52 327 iPd    57 30.30  -0.1
        2.7s   474.00nm            6.2mb
                 i       57 37.40  22kmX
                 iPP     00 56.40
                 ePPP    02 50.00
TRI     86.67 325 iPc    57 31.10   0.2
                 iPP     00 58.50
                 eScS    07 54.00
                 eS      08 07.00
                 iSP     09 00.00
                 iSSS    17 32.00
TRI     86.67 325 P      57 37.40   6.5X
HLW     86.79 304 (P)    57 31.50  -0.3
                 (S)     07 58.00
UCC     86.81 333 P+     57 36.20   4.7X
                 SKS     08 06.00
WLF     87.01 331 iPc    57 37.60   5.1X
SNF     87.06 333 iPd    57 32.87   0.1
CTI     87.42 326 P      57 35.10   0.4
SLE     87.52 329 ePd    57 35.00  -0.1
CDF     87.54 330 eP     57 35.10  -0.1
        1.6s   174.15nm            6.1mb
OSS     87.62 327 ePd    57 36.10   0.3
DMU     87.89 340 eP     57 36.40  -0.3
        1.2s    68.00nm            5.8mb
LLS     87.99 328 ePd    57 38.40   0.8
VDL     88.08 328 ePd    57 38.10   0.1
BSF     88.19 330 eP     57 37.80  -0.6
        1.7s    88.25nm            5.8mb
HAU     88.24 330 eP     57 38.10  -0.4
        1.7s   102.95nm            5.9mb
     Z  18s     40.00um            6.9Msz
SAL     88.27 327 P      57 39.70   1.1
ANMO    88.43  48 ePc    57 39.93   0.0
        1.5s   120.50nm            6.0mb
                 ec      57 45.72  18kmX
                 eSKS    08 09.91
                 eS      08 25.64
                 i       08 29.78
ALQ     88.43  48 eP     57 40.00   0.1
DCN     88.48 340 eP     57 38.00  -1.6
        1.2s    85.00nm            5.9mb
TMA     88.63 328 ePd    57 39.70  -1.0
SFI     88.91 325 P      57 42.90   1.2
PGD     89.00 325 P      57 43.90   1.4
CRE     89.08 324 P      57 43.90   1.2
MMK     89.08 328 ePd    57 43.00   0.1
ASS     89.14 324 P      57 43.63   0.6
        1.1s   120.50nm            6.1mb
SCH     89.19  14 eP     57 44.00   1.0
ECP     89.25 339 eP     57 44.40   1.2
MME     89.25 326 P      57 45.10   1.4
DUI     89.27 322 P      57 45.20   1.6
        0.1s    18.60nm            6.3mb
DIX     89.30 329 ePd    57 44.10   0.1
AQU     89.30 323 P      57 45.40   1.6
BDI     89.40 325 P      57 44.10  -0.1
BOB     89.40 327 P      57 44.80   0.6
```

```
SDI     89.56 322 P      57 45.63   0.6
        0.1s     5.80nm            5.8mb
MNS     89.64 323 P      57 48.70   3.4X
        0.1s     6.70nm            5.9mb
TDS     89.70 319 P      57 52.30   6.7X
LOR     89.84 331 eP     57 45.90  -0.3
        1.6s    96.40nm            5.8mb
     Z  20s     15.00um            6.4Msz
LBF     90.03 331 eP     57 46.70  -0.4
        1.8s    86.30nm            5.7mb
LPL     90.04 329 eP     57 47.40   0.0
        1.1s    58.60nm            5.7mb
LPG     90.04 329 eP     57 47.40  -0.1
        1.1s    57.40nm            5.7mb
GRC     90.14 332 P      57 49.07   1.6
SSF     90.15 331 eP     57 47.60   0.0
        1.6s    62.20nm            5.6mb
CKI     90.20 327 P      57 48.20   0.4
FLN     90.27 334 eP     57 47.80  -0.3
        1.7s   117.65nm            5.9mb
     Z  18s     22.50um            6.6Msz
LDF     90.28 334 eP     57 47.80  -0.3
        1.7s   161.75nm            6.0mb
SMF     90.35 331 eP     57 48.30  -0.2
        1.0s   186.20nm            6.3mb
BNI     90.42 328 P      57 49.20   0.1
AVF     90.43 331 eP     57 48.80  -0.1
        1.5s   133.20nm            6.0mb
VAL     90.55 341 eP     57 53.00   3.7X
                 PP      01 28.00
                 S       08 30.00
GRR     90.72 334 eP     57 50.20   0.0
        1.3s    65.00nm            5.8mb
SOI     90.99 318 P      57 52.90   1.4
PLDF    90.99 331 P      57 52.33   0.8
SBF     91.02 327 eP     57 50.90  -0.8
        1.5s   135.80nm            6.1mb
LPF     91.09 334 eP     57 52.10   0.3
        1.5s   130.60nm            6.1mb
AGO     91.12 331 P      57 53.03   0.9
MAF     91.21 331 eP     57 53.00   0.5
        1.7s   176.45nm            6.1mb
TCF     91.30 332 eP     57 53.20   0.3
        1.5s    86.20nm            5.9mb
PGF     91.31 325 eP     57 52.50  -0.6
PYM     91.42 331 P      57 54.42   0.9
ACO     91.60  43 e(P)   57 56.50   2.0
LSF     91.60 332 eP     57 54.30   0.0
        1.2s    75.85nm            6.0mb
FRF     91.61 327 eP     57 53.80  -0.5
        1.5s   114.90nm            6.0mb
LBL     91.74 330 P      57 56.15   1.1
LRG     91.82 327 eP     57 55.00  -0.3
        1.5s   172.35nm            6.2mb
     Z  21s     18.00um            6.5Msz
LMR     91.85 327 eP     57 55.10  -0.3
        1.4s   122.00nm            6.1mb
CDR     91.91 328 ePd    57 58.90   3.2X
MFF     91.96 333 eP     57 56.40   0.5
        1.4s    95.85nm            6.0mb
CAF     92.48 331 eP     57 59.20   0.8
        1.6s   177.25nm            6.2mb
LFF     93.00 332 eP     58 01.50   0.8
        1.5s   172.35nm            6.3mb
LPO     93.03 331 eP     58 01.40   0.5
        1.5s   120.15nm            6.1mb
EPF     94.74 331 eP     58 08.70  -0.2
        1.7s    58.80nm            5.7mb
CCM     94.85  37 ePc    58 09.27  -0.1
                 ec      58 14.90  18kmX
                 iS      09 24.58
                 ePS     10 41.96
BTH     94.89 331 ePc    58 14.00   4.6X
                 (sP)    58 30.50 117kmX
                 i       58 44.70
                 PP      02 09.50
FVM     95.32  37 eP     58 11.40  -0.1
        0.8s    20.45nm            5.6mb
EBR     96.51 329 (P)    58 24.00   7.1X
                 (PP)    02 13.00
BNH     97.48  21 e(P)   58 25.50   4.3X
TOL     99.16 332 ePd    58 34.50   5.6X
TOL     99.16 332 ePDIFc58 27.94   -1.0
                 epPd    58 35.22  23kmX
                 esPd    58 40.19
                 ePP     02 34.26
                 eSKS    09 08.74
```

```
HRV    99.27   22 ePc    58 31.69    2.4
                  eSKS   09 06.44
                  eSDIF  09 58.69
                  ePS    11 28.47
BUL   117.32  263 ePKP   03 28.00   -5.8X
BFT   118.65  257 e(PKP) 03 30.50   -5.8X
SLR   120.11  258 iPKPc  03 39.50    0.6
       0.9s    10.92nm
     Z 20s      9.22um            6.4Msz
PRY   121.27  257 iPKPd  03 49.00    7.9X
KSR   121.29  258 ePKP   03 41.50    0.3
SPA   123.47  180 ePKP   03 44.00   -0.1
       1.1s    29.76nm
FRS   124.13  255 e(PKP) 03 54.20    7.9X
LKO   125.30  315 PKP    03 47.80   -1.3
TIC   127.25  313 PKP    03 52.30   -0.5
KIC   127.30  312 PKP    03 52.30   -0.6
LIC   127.58  312 PKP    03 53.70    0.2
SDV   129.30   39 ePKP   03 55.20   -1.8
HOBC  129.83   48 ePKP   04 01.33    3.4X
HOOC  130.20   49 ePKP   03 56.19   -2.6X
PURC  131.25   50 ePKP   04 05.37    4.2X
CUMC  131.30   53 ePKP   04 03.07    1.8
SNA   137.64  198 e(PKP) 04 16.00    5.1X
       0.8s    19.40nm
NNA   141.01   65 iPKP   04 10.50   -8.2X
       1.1s    27.85nm
AIA   145.43  163 ePKP   04 30.00    5.3X
ARE   147.84   65 ePKP   04 35.00    4.5X
ZOBO  150.23   61 PKP    04 36.00    1.5
       1.7s   234.01nm
LPB   150.42   61 PKP    04 40.00    5.4X
       1.9s  2021.05nm
                  LR     20 28.00
CNCB  150.68   62 PKP    04 38.20    3.0X
                  i      04 42.00
CCH   152.39   60 PKP    04 41.50    4.1X
ANT   152.62   76 ePKP   04 43.00    5.9X
CAI   152.75  351 iPKPc  04 45.30    7.7X
LCCH  154.75   98 ePKP   04 56.50   16.7X
SIV   154.91   50 PKP    04 41.40    0.9
LNV   154.95   99 ePKP   04 56.00   16.0X
PEL   155.43   97 ePKP   04 45.00    4.2X
SOB1  155.67  359 ePKP   04 47.00    5.4X
     S.D. = 1.1  on 332 of 395 obs.
-----------------------------------------
&  SEP 03, 1991  08h 51m 05.12s
   36.676 N          121.461 W
   DEPTH =   5.2km
 CENTRAL CALIFORNIA                 ( 39)
      <GM-P>. MD 2.1 (GM).

SAO     0.09    8 iPd    51 07.18    0.0
LLA     0.42   98 iPc    51 13.65    0.1
                  iS     51 20.51
GCC     0.56  310 iPd    51 15.87   -0.4
ARN     0.67  355 eP     51 18.70    0.1
PRI     0.83  129 iPd    51 21.51   -0.3
                  e      51 25.00
PCC     1.10  318 iPc    51 25.57   -0.7
PHAM    1.20  134 eP     51 27.00   -0.9
FRI     1.44   77 iPc    51 35.34    3.5
                  iS     51 48.17
ORV     2.88  359 eP     51 53.75    1.3
       9 obs. associated
-----------------------------------------
   SEP 03, 1991  09h 05m 28.31± 0.10s
   17.910 S ± 2.9km  116.001 W ± 3.0km
   DEPTH =   8.5km  (geophysicist)
   6.0mb ( 41 obs.)  5.9Msz ( 12 obs.)
 SOUTHERN EAST PACIFIC RISE       (684)
      Mo=1.3*10**19 Nm (PPT). Depth
      from broadband displacement
      seismograms.
      RADIATED ENERGY
       No. of sta:  13  Focal mech.  M
       Energy          1.3±0.3*10**14 Nm
      MOMENT TENSOR SOLUTION
      Dep  18              No. of sta:  9
      Moment Tensor;   Scale 10**18 Nm
        Mrr=-2.85       Mtt=-0.20
        Mff= 3.05       Mrt= 1.40
        Mrf=-1.48       Mtf= 1.91
       Principal axes:
        T  Val=  4.02  Plg= 7  Azm=112
        N         0.08      31       18
        P        -4.10      58      213

      Best Double Couple:Mo=4.1*10**18
       NP1:Strike=233 Dip=47 Slip= -44
       NP2:        357     59      -127
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 22S, 52C  M.W.: 16S, 26C
      Centroid Location:
      Origin Time        09:05:35.3 0.3
      Lat 18.03S 0.03 Lon 116.22W 0.03
      Dep  15.0 BDY Half-duration  5.5
      Moment Tensor;   Scale 10**18 Nm
        Mrr=-3.40 0.05  Mtt= 0.65 0.05
        Mff= 2.75 0.07  Mrt= 0.82 0.21
        Mrf=-1.93 0.26  Mtf=-0.24 0.06
       Principal Axes:
        T  Val=  3.38  Plg=17  Azm= 80
        N         0.69       6      348
        P        -4.07      72      240
      Best Double Couple:Mo=3.7*10**18
       NP1:Strike=179 Dip=29 Slip= -78
       NP2:        345     62       -96

RKT    18.51  251 iP     09 46.90    0.1
       1.2s    450.00nm           5.5mb
RUV    30.19  270 iP     11 40.90   -0.5
       1.4s    225.00nm           5.8mb
VAH    30.41  270 iP     11 44.40    1.0
       1.4s    120.00nm           5.6mb
TPT    30.44  271 iP     11 43.30   -0.4
       1.4s    125.00nm           5.6mb
PMO    30.71  271 iP     11 45.70   -0.3
       1.4s    150.00nm           5.7mb
TVO    31.63  265 eP     11 56.00    1.8
       1.4s    185.00nm           5.8mb
PAE    31.95  265 eP     11 58.00    1.0
       1.4s    135.00nm           5.7mb
AFR    32.15  265 eP     12 00.00    1.3
       1.4s    120.00nm           5.6mb
PT10   38.09   87 eP     12 51.00    1.4
NNA    38.24   87 iPc    12 54.00    3.2X
       1.2s     51.56nm           5.1mb
     Z 18s       3.61um           5.2Msz
                  eS     18 46.00
CGX    39.35   19 (P)    13 04.06    3.9X
OXX    39.61   30 (P)    13 05.24    2.8
TPX    40.14   37 (P)    13 09.06    2.5
PPM    40.52   26 (P)    13 12.62    2.4
IIA    40.58   26 (P)    13 11.78    1.7
IIT    40.61   26 (P)    13 13.23    2.6
GGP    40.78   68 Pd     13 15.90    3.3X
YANA   40.82   68 eP     13 14.70    1.9
OUR    40.84   68 P      13 15.40    2.5
IISM   40.98   27 (P)    13 16.06    2.7
RAR    41.28  258 P      13 16.00    0.1
                  S      19 36.00
SCX    41.41   35 (P)    13 20.00    3.1X
ANGL   41.61   69 eP     13 15.00   -4.2X
AGX    41.76   19 (P)    13 24.00    4.3X
CUMC   41.95   67 ePd    13 23.64    1.6
LVVM   42.05   28 (P)    13 23.85    1.7
IHA    42.47  120 eP     13 27.00    1.5
ARE    42.47   95 eP     13 27.00    0.9
PSO    42.54   68 eP     13 29.00    2.2
LCCH   42.60  120 eP     13 28.00    1.4
LNV    42.82  121 eP     13 29.00    0.6
ANT    42.86  106 eP     13 29.70    0.8
ROCH   42.98  119 eP     13 31.00    1.0
TACH   43.15  120 eP     13 31.00   -0.2
PEL    43.28  120 iPd    13 33.00    0.8
       1.5s    416.67nm           6.0mb
JACH   43.28  119 eP     13 33.00    0.7
SAN    43.35  120 eP     13 33.00    0.2
                  eS     20 02.00
CHCH   43.43  121 eP     13 34.00    0.5
PCH    43.49  120 eP     13 34.50    0.5
PURC   43.92   67 eP     13 39.26    1.1
ANCC   44.06   65 eP     13 40.28    1.5
SILC   44.11   66 ePd    13 40.58    1.0
HOOC   44.24   65 eP     13 40.70    0.2
CLMC   44.51   65 eP     13 42.37   -0.2
UPA    44.84   56 iPc-   13 46.30    1.3
       1.6s    520.00nm           6.2mb
     Z 20s      17.91um           6.0Msz
                  i      15 26.80
                  LR     20 26.00
HOBC   45.12   64 ePd    13 47.40    0.0
LPB    45.68   96 P      13 53.20    1.0

     Z 24s      48.84um           6.4MszX
                  LR     27 20.00
ZOBO   45.70   95 iPd    13 53.14    0.7
CNCB   45.75   96 P      13 52.00   -0.9
BOG    47.04   66 iPc    14 06.00    3.2X
                  iS     21 02.00
CCH    47.40   97 P      14 06.00    0.4
BMG    49.11   63 iPd    14 18.00   -0.7
IKP    50.27  360 eP     14 29.40    2.2
BAR    50.31  359 iPd    14 28.00    0.6
BAR    50.31  359 eP     14 29.50    2.1
SCI    50.66  357 eP     14 32.00    1.9
GLA    50.69    1 iPd    14 31.00    0.7
                  e      15 49.00
PLM    50.98  359 iPd    14 33.00    0.3
CIS    51.08  357 eP     14 34.90    1.6
PFO    51.23  360 iPd    14 35.09    0.5
HAY    51.33    0 eP     14 37.50    2.3
PEC    51.52  359 ePd    14 36.20   -0.5
                  PcP    15 51.00
RVR    51.63  359 iPd    14 38.00    0.6
TPC    51.72  360 iPd    14 39.00    0.8
                  e      15 52.50
PAS    51.81  358 iPd    14 39.27    0.5
                  epPc   14 42.25   10kmX
MWC    51.88  358 iPd    14 40.00    0.4
                  e      15 52.00
SDV    52.11   63 eP     14 41.00   -0.7
SBC    52.18  356 iPd    14 42.07    0.5
                  epPc   14 44.72    9kmX
SYP    52.28  356 iPd    14 43.00    0.5
SBB    52.33  358 iPd    14 42.50   -0.3
SIV    52.42   97 iPd    14 42.80   -1.0
GSC    52.92  359 iPd    14 47.50    0.3
                  e      15 56.00
GSC    52.92  359 eP     14 49.10    1.9
TOV    53.28   63 iP     14 49.00   -1.3
ISA    53.33  357 iPd    14 50.43    0.2
ISA    53.33  357 ePd    14 48.54   -1.7
                  eS     22 29.34
                  eSS    26 04.95
ALO    53.34   10 iPd    14 50.30   -0.2
       1.3s    432.69nm           6.3mb
     Z 22s       7.04um           5.7Msz
ANMO   53.34   10 ePd    14 50.98    0.5
       1.5s    500.00nm           6.3mb
     Z 18s       7.22um           5.8Msz
                  eS     22 26.55
                  P'P'   45 00.00
CLC    53.45  358 iPd    14 51.00   -0.1
                  e      15 57.00
CLC    53.45  358 eP     14 52.50    1.4
AFI    53.63  266 ePd    14 52.47   -0.3
                  epPc   14 55.12    9kmX
                  iS     22 39.68
PRI    53.94  355 eP     14 55.37    0.7
LPA    53.98  120 eP-    14 53.00   -2.1
     Z 20s      18.44um           6.1Msz
                  eS     22 33.00
PRS    54.18  355 eP     14 56.78    0.4
LLA    54.43  355 eP     14 58.30    0.1
SAO    54.62  355 iP     14 59.96    0.4
FRI    54.72  356 eP     14 59.63   -0.6
GCC    54.93  354 eP     15 01.81   -0.1
ARN    55.21  355 P      15 05.00    1.1
PCC    55.44  354 eP     15 06.69    1.2
TNP    55.70  359 iPd    15 06.90   -0.8
       1.0s    162.50nm           6.0mb
                  P'P'   44 51.00
BKS    55.80  354 ePd    15 08.30    0.2
       1.2s    594.00nm           6.5mb
                  iPcP   16 07.70
                  iS     23 06.00
                  eSS    26 54.00
                  eLQ    28 58.00
                  eLR    31 37.00
CMB    55.80  356 iPd    15 08.29    0.1
ZSP    55.87  354 eP     15 10.01    1.4
CAR    56.08   64 iP     15 08.70   -2.0
MSU    56.24    4 P      15 11.90    0.3
PV09   56.48    6 iPd    15 12.80   -0.6
                  PcP    16 07.50
                  P'P'   45 17.00
ACO    56.60   16 iPd    15 15.20    1.2
KIP    56.76  312 eP     15 12.28   -3.0X
                  eS     23 23.33
TUL    56.85   20 iP     15 14.30   -1.4
```

03d 09h

```
         1.8s  1260.60nm          6.6mb
      Z  20s      2.11um          5.2Msz
      N  18s      1.72um
      E  20s      2.61um
                  eS      23 03.00
                  LR      29 49.00
ORV    57.39 355 eP       15 19.26  -0.3
OLY    57.99  24 P        15 22.40  -1.4
GOL    58.16  10 iPd      15 23.90  -1.3
        1.4s   554.83nm           6.4mb
      Z  18s      3.47um          5.5Msz
                  P'P'    45 10.00
MIN    58.19 355 eP       15 25.29   0.1
GLD    58.23  10 ePd      15 24.80  -0.8
        1.2s   474.75nm           6.4mb
      Z  18s     11.96um          6.1Msz
AIA    58.30 157 eP       15 26.10   0.5
WDC    58.50 354 iPd      15 26.69  -0.6
FOX    58.60 353 eP       15 29.49   1.6
FHC    58.88 353 eP       15 31.32   1.4
CCM    60.33  22 iPd      15 39.26  -0.7
                 epPc     15 41.90   9kmX
                 eS       23 55.85
ELC    60.42  24 P        15 38.30  -2.2
FVM    60.57  23 ePd      15 39.80  -1.8
        1.0s   190.00nm           6.2mb
TCE    60.63  66 eP       15 40.33  -2.1
TCE    60.63  66 eP       15 42.33  -0.1
BW06   60.67   5 iPd      15 39.80  -2.7
        1.0s    96.67nm           5.9mb
                 P'P'     44 50.00
TPP    60.72  67 eP       15 42.75  -0.2
PRM    60.83  32 P        15 42.00  -1.4
TBH    61.13  67 eP       15 45.34  -0.5
URZ    61.14 236 eP       15 45.40  -0.2
TKL    61.41  30 P        15 44.30  -3.0X
TPR    61.71  66 eP       15 47.92  -1.8
BOT    61.75  66 eP       15 48.30  -1.7
SVB    62.27  64 eP       15 50.71  -2.8
RUZ    62.51 235 eP       15 54.80  -0.1
COR    62.55 354 iPd      15 55.09   0.4
                 epPc     15 57.74   9kmX
RSSD   62.69  10 ePd      15 54.00  -2.0
        1.0s   298.26nm           6.4mb
      Z  21s      9.78um          6.0Msz
                 P'P'     44 44.50
WEL    62.91 232 P        15 59.00   1.6
                 e        19 22.00
                 S        24 36.00
LRM    63.51   3 eP       16 00.20  -1.2
BLA    64.27  31 eP       16 05.00  -1.3
        1.2s   227.27nm           6.2mb
THZ    64.30 232 eP       16 07.00   0.3
VAO    64.36 107 iPc      16 06.80  -0.5
                 e        16 10.40
                 i        16 14.60
LON    64.57 356 ePd      16 06.89  -1.2
                 epPc     16 09.71   9kmX
EWZ    65.76 230 P        16 16.10   0.2
ODZ    65.86 228 P        16 16.10  -0.5
NEW    65.88 359 iP       16 16.20  -0.2
        0.9s   223.68nm           6.4mb
BWZ    66.42 229 P        16 20.10   0.0
CBN    66.56  32 eP       16 19.00  -2.0
PGC    66.59 355 eP       16 21.00   0.1
        1.1s   403.00nm           6.5mb
BMA    66.97 108 eP       16 24.60   0.5
PNT    67.00 357 ePd      16 23.00  -0.6
SES    68.14   3 ePd      16 30.50  -0.3
        1.4s   606.00nm           6.6mb
                 pP       16 39.00  27kmX
DLA    68.26  27 P        16 31.60   0.0
LDN    68.58  27 P        16 33.15  -0.4
ELF    68.65  27 P        16 33.90  -0.1
LVNJ   69.85  32 P        16 39.00  -2.4
GMTN   70.20  33 iP       16 43.80   0.2
TBR    70.37  32 ePd      16 43.00  -1.6
SPA    72.20 180 iPd      16 54.90  -0.7
        1.0s   168.50nm           6.1mb
      Z  20s      4.28um          5.7Msz
                 e        44 35.00
DZM    72.27 252 iPc      16 57.90   1.2
HRV    72.73  33 ePd      16 58.44  -0.3
FFC    73.33   8 iPd      17 00.80  -1.2
        1.7s   555.00nm           6.4mb
BNH    74.37  31 P        17 08.00  -0.3
EMM    76.40  33 P        17 20.00   0.2
```

```
SIT    76.41 349 eP       17 20.50   0.9
CAI    77.45  93 iPd      17 26.60   0.2
YKA    80.14   1 P        17 40.70   0.8
        1.5s   121.00nm           5.6mb
SNA    80.91 162 iPd      17 43.40  -0.7
        1.1s   245.57nm           6.1mb
KDC    81.23 341 eP       17 45.90   0.1
BALM   81.47 347 ePd      17 46.50  -0.7
SDN    82.12 336 eP       17 50.20  -0.3
RIV    82.53 237 eP       17 55.50   2.3
TAU    82.76 227 eP       17 56.00   1.8
COO    82.85 240 eP       17 55.00  -0.1
SLKM   82.88 344 eP       17 53.10  -1.3
BRS    83.00 244 eP       17 56.00   0.1
TOA    83.26 346 ePd      17 57.10   0.7
CNB    83.51 235 eP       17 59.60   1.2
PMR    83.52 345 iPd      17 56.30  -1.3
RSO    83.54 343 eP       17 56.90  -1.1
NVL    84.56 165 iP       18 02.50  -0.4
                 e        18 20.00
                 e        18 25.00
                 e        18 34.00
                 epP      18 47.00 180kmX
                 e        18 59.00
                 e        19 09.00
                 e        19 16.00
                 e        20 26.00
                 e        20 35.00
                 e        20 49.00
                 ePP      21 14.00
                 e        22 11.00
                 ePPP     23 02.00
                 e        24 24.00
                 e        24 52.00
                 e        25 45.00
                 e        26 56.00
                 eSKS     28 24.00
                 eS       28 32.00
SVW    84.89 342 ePd      18 04.10  -0.5
TOO    85.78 232 iPd      18 10.30   0.6
        0.9s    37.00nm           5.6mb
COL    86.06 347 ePd      18 09.93  -0.4
                 eSKS     28 37.36
                 iS       28 46.19
FBA    86.06 347 ePd      18 09.50  -0.8
        1.3s   660.38nm           6.6mb
                 PP       21 29.70
TTA    86.45 343 ePd      18 11.80  -0.6
        2.2s  1047.10nm           6.6mb
RMO    86.70 243 iPd      18 25.70  11.3X
        0.7s    31.00nm
INK    86.91 354 ePd      18 12.80  -1.5
        1.2s   226.00nm           6.3mb
ADK    87.18 327 ePd      18 15.80  -0.2
        2.4s  2971.10nm           7.1mb X
CMS    87.52 238 iPd      18 19.00   0.7
        0.9s    33.00nm           5.6mb
BFD    88.12 232 iPd      18 22.00   1.0
        0.9s    52.00nm           5.9mb
IMA    88.38 346 eP       18 21.10  -0.6
CSY    89.16 197 iPd      18 26.10   0.7
        0.7s    14.30nm           5.3mb
ANM    90.45 341 ePd      18 32.10   0.8
STK    90.77 236 iPd      18 34.40   0.8
        1.4s     6.10nm           4.7mb X
CTAO   90.93 249 iPKPd    18 36.00   1.5
        2.5s   840.34nm           6.6mb
                 e(PP)    20 21.00
                 e(SKP)22 05.00
                 eSKS     29 09.00
                 e        35 00.00
ADE    91 82 232 eP       18 37.20  -1.2
        0.7s    52.05nm           6.0mb
SMY    92.50 325 eP       18 42.00   1.1
BRW    93.25 348 eP       18 44.20   0.2
PMG    93.57 259 eP       18 48.00   1.3
MBC    93.97 359 ePd      18 47.00  -0.2
        0.8s    59.00nm           6.0mb
MAW    94.73 180 eP       18 52.00   0.9
        0.9s    11.00nm           5.3mb
WRA   101.40 245 Pdiff    19 22.00  -0.2
        0.9s     7.50nm           5.3mb
KIC   112.14  90 PKP      24 06.60  -0.4
LKO   112.20  87 PKP      24 06.40  -0.7
MAJO  112.94 303 ePdiff19 58.26 -15.0X
                 ePS      34 27.38
CER   113.52 140 e(PKP)24 02.00   -7.2X
```

```
        1.0s    40.00nm
DCN   115.33  39 ePKP     24 12.30   0.4
DMU   115.51  38 ePKP     24 11.70  -0.6
YAK   117.01 331 ePKP     24 09.00  -5.8X
                 e        24 49.00
                 i        25 21.00
EKA   117.52  36 PKP      24 15.00  -1.0
        1.1s    12.60nm
MDJ   119.66 312 iPKPc    24 19.80  -0.7
LPF   119.75  45 iPKPc    24 20.20  -0.3
        1.3s    43.30nm
GRR   119.83  44 iPKPc    24 20.60  -0.1
        1.0s    40.00nm
FLN   120.04  44 iPKPc    24 20.80  -0.2
        1.1s    48.85nm
LDF   120.30  44 iPKPc    24 21.20  -0.3
        1.1s    26.85nm
CGP   120.38 269 ePKP     24 21.50  -1.2
        1.0s    23.00nm
MFF   120.51  46 iPKPc    24 21.80  -0.2
        1.0s    32.00nm
BTH   120.77  50 ePKPc    24 22.00  -0.6
BTH   120.77  50 iPKPd    24 29.00   6.4X
                 PP       25 52.00
                 sPP      26 04.00
                 SKP      27 55.00
                 sSKP     28 02.00
                 (sPPP)28 56.00
EPF   121.17  50 iPKPc    24 23.50   0.0
        1.1s    56.15nm
LFF   121.30  48 iPKPc    24 23.60   0.1
        1.3s    57.75nm
LPO   121.64  48 ePKP     24 24.10  -0.1
        1.3s    36.10nm
LSF   121.70  46 iPKPc    24 24.00  -0.3
        1.4s    91.50nm
TCF   122.16  46 ePKP     24 25.00  -0.2
        1.3s    45.15nm
CAF   122.23  48 iPKPc    24 25.40   0.0
        1.4s    65.35nm
MAF   122.42  46 ePKP     24 25.50  -0.2
        1.5s    52.25nm
BGF   122.56  46 ePKP     24 25.80  -0.1
GRC   122.61  45 PKP      24 25.66  -0.3
CN2   122.70 311 PKP      24 25.00  -1.3
PYM   122.79  47 PKP      24 26.48   0.0
UCC   122.79  41 PKP      24 27.80   1.6
SNF   122.81  41 iPKPd    24 26.02  -0.2
AGO   122.83  46 PKP      24 26.11  -0.4
AVF   122.87  45 iPKPc    24 26.00  -0.5
        1.2s    38.70nm
SSF   122.93  45 iPKPc    24 26.30  -0.3
        1.1s    46.40nm
LBL   123.02  47 PKP      24 27.14   0.2
LOR   123.14  45 iPKPc    24 26.90  -0.1
        1.3s    66.80nm
PLDF  123.18  46 PKP      24 27.09  -0.1
NB2   123.18  28 PKP      24 15.50 -11.2X
        1.0s    36.50nm
SMF   123.23  46 iPKPc    24 26.80  -0.4
        1.3s    70.15nm
LBF   123.26  45 iPKPc    24 27.00  -0.3
        1.4s    78.40nm
KEV   123.45  15 ePKP     24 24.00  -2.9X
WIT   123.70  38 ePKP     24 29.00   1.1
ENN   123.77  40 ePKP     24 27.50  -0.6
        1.0s    68.00nm
                 e        26 13.00
WTS   124.00  39 ePKP     24 28.50   0.0
        1.0s   116.00nm
                 e        26 13.00
WLF   124.17  42 iPKPc    24 29.40   0.5
VITF  124.37  43 PKP      24 29.32  -0.1
BNS   124.49  40 iPKPc    24 31.00   1.5
HAU   124.65  44 ePKP     24 29.80  -0.2
        1.2s    38.70nm
BSF   124.98  44 PKP      24 30.40  -0.3
CDR   125.03  49 ePKPd    24 30.70  -0.1
SOD   125.08  17 iPKP     24 29.40  -0.7
                 i        24 34.40
                 e        26 18.00
LOMF  125.11  44 PKP      24 30.92   0.0
ECH   125.14  43 PKP      24 30.91   0.0
CDF   125.17  43 PKP      24 30.65  -0.4
GWF   125.26  42 PKP      24 31.59   0.5
RSL   125.30  46 PKP      24 31.36  -0.1
LPL   125.40  47 iPKPc    24 32.80   1.0
```

	1.1s	83.05nm				CRE	129.45	48	PKP	24	38.90	-0.5	RZN	138.98	46	iPKP	24	57.90	0.3
LPG	125.42	47	iPKPc	24	32.90	1.0	KBA	129.47	43	iPKPd	24	38.10	-1.4	NPA	139.13	142	iPKP	25	04.00	5.6X
	1.1s	80.60nm								ic	24	39.10			1.0s	110.00nm				
LIBD	125.44	43	PKP	24	31.87	0.4	KMR	129.67	42	iPKP-	24	39.30	-0.3	DIM	139.39	45	iPKP	24	58.00	-0.1
BNI	125.45	47	PKPd	24	32.20	0.4				i	26	00.90		CFR	139.63	40	ePKP	24	45.00	-13.4X
TNS	125.47	41	ePKP	24	31.50	0.0				i	26	46.70		GYA	139.74	290	PKP	24	53.40	-6.0X
LRG	125.49	49	iPKPc	24	32.10	0.4	CIR	129.94	139	iPKPc	24	44.00	3.1X		Z 38s	6.10um			6.1MszX	
	1.1s	117.20nm				KSP	129.99	38	iPKPd	24	40.10	0.0			N 20s	3.80um				
BBS	125.53	44	PKP	24	32.01	0.2		1.8s	260.00nm						E 20s	2.90um				
RRL	125.55	47	PKP	24	30.31	-1.8				e	26	49.20				sPKP	25	00.00		
LMR	125.62	49	ePKP	24	32.10	0.1	BJI	130.10	308	ePKP	24	39.00	-1.6			PP	27	53.80		
	1.3s	93.85nm								PP	26	47.50		TLB	139.86	41	ePKP	24	58.70	-0.1
TSM	125.63	262	ePKP	24	33.00	0.1	VOY	130.14	44	iPKPd	24	40.30	-0.4	JMB	139.92	44	iPKP	24	59.00	0.0
FRF	125.68	49	iPKPc	24	32.30	0.2	TRI	130.15	45	iPKPc	24	41.00	0.5	LWI	139.96	116	iPKPc	24	55.10	-5.1X
	1.1s	105.00nm								i	26	50.50		ALN	140.22	47	PKP	24	54.00	-5.6X
LSD	125.71	47	PKP	24	31.85	-0.6				e	28	24.00		LZH	140.48	305	ePKP	24	53.50	-7.0X
DIX	125.76	46	ePKPd	24	32.90	0.3	ARV	130.18	48	PKP	24	41.30	0.6		2.5s	111.00nm				
FEL	125.77	43	PKP	24	30.97	-1.4	RDP	130.42	50	PKP	24	42.80	1.5		Z 28s	6.94um			6.3MszX	
RSP	125.84	47	PKP	24	31.13	-1.4	LJU	130.57	44	ePKP	24	41.00	-0.4		E 13s	1.76um				
PZZ	125.85	48	PKP	24	30.62	-2.0	CEY	130.59	45	ePKPd	24	41.00	-0.4			sPKP	25	01.00		
BHB	125.90	47	PKP	24	30.62	-1.9	RIY	130.68	45	ePKP	24	42.00	0.5			PP	27	57.00		
COP	125.95	33	iPKPd	24	32.60	0.4	AOU	130.78	49	PKP	24	42.90	1.0			PKS	29	24.00		
	0.8s	53.73nm				VKA	130.98	41	ePKP	24	38.00	-4.1X	MFT	141.12	46	iPKP	24	59.90	-1.5
STV	126.05	48	PKP	24	31.13	-1.8		6.0s	2239.00nm				IPM	141.44	254	ePKPd	24	57.00	-5.6X	
ZLA	126.11	44	ePKPd	24	32.80	-0.1				i	24	43.20		CD2	141.75	297	PKP	24	57.60	-5.2X
SLE	126.11	43	ePKPd	24	32.50	-0.4				ipPKP	26	55.20		GTA	142.32	312	iPKPd	24	58.00	-5.6X
ENR	126.12	48	PKP	24	31.13	-2.0	VBY	131.21	45	ePKPd	24	42.50	-0.1		2.4s	290.00nm				
MMK	126.14	46	ePKPd	24	33.60	0.3	SDI	131.23	50	PKP	24	42.40	-0.4		Z 22s	5.00um			6.2Msz	
SBF	126.20	48	ePKP	24	33.00	-0.2	ZST	131.49	41	ePKP	24	42.40	-0.6		E 14s	2.20um				
	0.9s	37.65nm								e	27	03.50				PP	28	07.80		
ORX	126.24	46	PKP	24	31.13	-2.2X				e	28	11.90		DST	142.55	47	ePKP	24	57.00	-6.9X
ROB	126.43	48	PKP	24	32.46	-1.2	ZAG	131.60	44	iPKPd	24	44.00	0.7	YLV	142.64	46	ePKP	24	57.90	-6.1X
IMI	126.51	48	PKP	24	32.26	-1.5	KRI	131.65	134	iPKPc	24	46.20	1.8	IZI	142.82	46	ePKP	24	58.90	-5.5X
UPP	126.54	27	iPKP	24	32.10	-1.1	SRO	132.39	41	ePKP	24	45.00	0.3	KMI	143.35	288	ePKPd	25	01.97	-3.9X
		i		26	26.10		KRA	132.43	37	ePKP	24	44.20	-0.5				eSKS	32	17.80	
LLS	126.66	44	ePKPd	24	34.20	0.0		1.5s	195.00nm								eHSKKS	35	11.95	
FIN	126.68	48	PKP	24	32.67	-1.4				i	24	46.40					eSKKS	35	12.94	
CKI	126.69	48	PKP	24	34.00	0.0				e	24	48.90		KHL	143.72	49	iPKP	25	02.50	-3.5X
TMA	126.75	45	ePKPd	24	33.80	-0.5	WHN	132.74	295	ePKP	24	44.50	-1.4	PCT	143.99	270	ePKP	25	06.40	-0.5
SSE	126.85	296	PKP	24	33.50	-1.2	MGR	132.88	52	PKP	24	46.00	0.1	LOE	144.08	275	ePKP	25	04.60	-2.4X
PCP	126.85	47	PKP	24	32.77	-1.6	BUD	132.96	41	e(PKP)	24	45.00	-0.8	ELL	144.63	51	iPKP	25	07.00	-0.6
VDL	127.07	45	ePKPd	24	35.00	0.0	SPC	132.99	38	ePKP	24	46.30	0.2	KAS	145.13	42	ePKP	25	08.00	-0.2
MOX	127.28	39	iPKP	24	34.50	-0.5	UZD	133.02	42	ePKP	24	46.00	0.0	NNT	145.16	266	iPKPc	25	08.50	-0.4
	1.9s	150.00nm				PSZ	133.32	40	iPKP	24	46.10	-0.5	BBTK	145.27	44	iPKPc	25	08.00	-0.6	
GRF	127.33	41	iPKPd	24	35.20	0.1	TIY	133.41	305	ePKP	24	46.00	-1.1	NST	145.37	272	iPKPd	25	10.00	0.8
BOB	127.44	47	PKP	24	35.10	-0.4		Z 32s	5.30um				6.0MszX	BDT	146.65	274	ePKP	25	09.80	-1.5
OSS	127.47	44	ePKPd	24	36.00	0.3	IRK	133.42	327	ePKP	24	45.50	-1.1		0.8s	218.00nm				
BSD	127.48	33	iPKPc	24	34.30	-0.8				e	25	31.00		KHT	146.69	270	iPKPd	25	11.00	-0.4
	0.8s	46.00nm								e	27	10.30		KVT	146.71	40	ePKP	25	06.00	-4.8X
		i		26	34.00					e	28	16.80		CHG	146.85	277	ePKPd	25	10.90	-0.7
PGF	127.55	50	iPKPc	24	36.00	0.1	SOI	133.72	54	PKP	24	47.50	0.0		1.2s	253.91nm				
	1.0s	56.00nm				BRT	133.91	50	PKP	24	48.70	0.8	CHTO	146.85	277	ePKPd	25	13.75	2.1X	
FUR	127.82	42	iPKPc	24	36.90	0.8	BTO	134.55	310	PKP	24	49.00	-0.2	PPCY	147.18	53	ePKP	25	12.50	0.8
CLL	127.89	38	iPKPd	24	35.90	-0.2	BEO	134.90	44	ePKP	24	49.80	0.2	WMQ	147.35	327	ePKPd	25	13.92	2.1X
	1.7s	160.00nm				TIM	135.04	42	iPKPc	24	52.00	2.2X		Z 20s	5.40um			6.3Msz		
		i		26	40.10	BMR	135.61	39	ePKPc	24	51.00	0.1	CSS	147.89	52	ePKP	25	14.00	1.1	
WATA	128.24	43	iPKPd	24	36.60	-0.5	DEV	136.05	41	ePKPd	24	53.00	1.2	LFK	147.91	51	ePKP	25	13.70	0.8
	1.4s	164.00nm				OHR	136.44	49	ePKP	24	42.00	-10.7X	HLW	147.97	62	ePKPd	-25	13.50	0.4	
WTTA	128.30	43	iPKPd	24	37.10	-0.2		1.3s	260.00nm				FAM	148.38	52	ePKP	25	17.50	3.9X	
	1.4s	226.00nm								i	24	52.50		AGMR	150.09	74	iPKPd	25	18.00	1.5
		ipPKP		26	31.30	QIZ	136.60	279	PKPc	24	54.10	0.5	AMAN	150.41	73	iPKPd	25	18.10	1.1	
		i		26	37.70	SKO	136.60	47	ePKP	24	41.50	-11.5X	AKSR	150.52	74	iPKPd	25	18.00	0.8	
		i		26	47.00					i	24	53.40		HQL	151.24	62	ePKPd	25	20.00	1.9
		e		28	05.00					i	27	33.00		AYN	152.15	62	ePKPd	25	20.00	0.5
BDI	128.39	48	PKP	24	36.90	-0.5	MDB	136.86	40	ePKPc	24	54.50	1.2	SHL	153.04	291	iPKP	25	20.00	-1.1
MME	128.44	47	PKP	24	37.80	0.1	XAN	136.90	301	ePKP	24	52.80	-1.0	AAE	153.95	106	ePKP	25	23.50	0.7
WET	128.53	41	iPKPd	24	37.50	0.1		N 11s	3.50um					MSL	153.97	41	ePKP	25	28.50	6.7X
BRG	128.60	38	iPKPd	24	37.40	0.0		E 11s	1.40um								e	25	53.00	
KAF	128.61	22	iPKP	24	36.30	-0.8	OBN	137.39	23	ePKP	24	43.00	-11.0X	SLY	155.92	39	ePKP	25	25.00	0.6
	0.9s	70.70nm						1.0s	227.00nm								i	25	53.00	
CTI	128.64	45	PKP	24	37.80	0.0		Z 32s	4.00um			5.9MszX		8HD	156.68	45	iPKP	25	27.00	1.5
BUL	128.66	136	iPKPc	24	38.20	-0.5		N 32s	2.20um								i	25	55.00	
NJ2	128.82	297	PKPc	24	37.90	-0.5		E 30s	3.00um					GUN	157.55	300	PKP	25	26.40	-0.9
	Z 24s	5.00um				6.1MszX				i	24	54.00		PKI	158.07	300	PKP	25	27.12	-0.7
KHC	128.97	41	iPKPd	24	38.00	-0.3				iPP	27	32.00		KKN	158.09	300	PKP	25	26.88	-0.9
	1.2s	70.00nm				VTS	137.60	46	iPKP	24	55.00	0.0	GAR	158.28	347	iPKP	25	27.60	0.1	
		e		24	51.50	MTUR	137.70	41	ePKP	24	58.70	3.6X	DMN	158.30	300	PKP	25	27.14	-0.9	
		PP		26	42.00	KKB	137.79	47	iPKP	24	55.00	-0.2	UOSK	158.46	65	ePKPd	25	28.00	0.0	
NUR	129.05	24	iPKP	24	37.50	-0.4	KNT	137.91	48	PKP	24	50.50	-5.0X	GKN	158.53	302	PKP	25	27.26	-0.9
	1.1s	218.30nm				LIT	137.99	49	PKP	24	55.30	-0.4	ARO	158.59	104	iPKPd	25	30.20	1.8	
		e		26	44.00	THE	138.15	48	PKP	24	56.00	0.1	IR7	158.67	31	iPKPd	25	28.50	0.5	
FVI	129.24	44	PKP	24	38.70	-0.1	MMB	138.34	47	iPKP	24	56.00	-0.3	IR1	158.93	32	iPKPd	25	29.00	0.7
PRU	129.27	39	ePKP	24	38.20	-0.5	CLI	138.41	38	ePKP	24	55.60	-0.6	IR5	159.04	32	ePKP	25	29.00	0.5
	1.3s	65.50nm				VRI	138.42	40	ePKPc	24	55.00	-1.3	IR4	159.18	31	iPKPd	25	29.50	0.9	
		e		25	30.00	ISR	138.67	41	ePKP	24	55.00	-1.8	OASM	159.37	63	ePKP	25	29.00	0.0	
		PP		26	43.50	PVL	138.77	44	iPKP	24	57.00	0.1	ABHA	159.80	86	ePKPd	25	29.00	-0.9	
SFI	129.31	48	PKP	24	39.70	0.7	PLD	138.81	46	iPKP	24	58.00	1.0	MJMA	160.94	62	ePKPd	25	30.00	-0.6

03d 09h

MAIO	161.25	11	ePKP	25	30.00	-0.7
			e	30	04.00	
RYD	162.45	64	ePKPd	25	33.00	0.9
NDI	163.82	314	iPKP	25	33.50	0.2
DHR	164.69	55	ePKPd	25	34.00	-0.2
KOD	164.88	241	ePKP	25	34.60	-0.5
HYB	166.12	270	ePKPd	25	34.70	-0.9
GBA	166.38	254	PKP	25	37.00	1.2
	1.8s		198.80nm			
POO	170.62	275	iPKPd	25	41.70	3.2X
	S.D. = 1.0		on 384 of 430 obs.			

* SEP 03, 1991 09h 08m 56.78± 1.34s
33.580 N ±10.6km 138.764 E ±10.9km
DEPTH = 13.2 ± 5.5 km
4.2mb (2 obs.)
SOUTH OF HONSHU, JAPAN (211)

IIDJ	2.02	340	P	09	30.00	-0.9
			S	09	53.80	
CHJJ	2.47	4	eP	09	37.20	-0.1
			eS	10	08.60	
KAKJ	2.86	23	P	09	42.50	-0.4
MAT	2.99	351	eP	09	46.00	1.3
			eS	10	20.00	
TSRJ	3.01	311	P	09	43.70	-1.3
			S	10	20.50	
MTMJ	3.10	346	eP	09	47.00	0.7
			S	10	23.60	
NIIJ	3.66	3	eP	09	54.30	0.1
SHNJ	6.39	277	eP	10	32.90	0.0
KUMJ	6.74	263	eP	10	38.60	0.8
WRA	53.39	185	P	18	18.00	-0.3
	0.7s		1.20nm		4.0mb	
ASPA	57.12	185	eP	18	51.00	5.7X
	1.4s		5.20nm		4.4mb	
	S.D. = 1.0		on 10 of 11 obs.			

SEP 03, 1991 10h 19m 32.47± 1.02s
33.611 N ± 9.7km 138.901 E ± 8.6km
DEPTH = 11.0 ± 4.7 km
4.0mb (1 obs.)
SOUTH OF HONSHU, JAPAN (211)

IIDJ	2.04	337	iPd	20	06.60	-0.5
			S	20	30.90	
CHJJ	2.43	2	P	20	13.80	1.1
KAKJ	2.79	22	P	20	17.70	-0.1
MAT	2.98	349	eP	20	21.00	0.5
			eS	20	56.00	
MTMJ	3.10	343	P	20	22.30	0.0
YAMJ	4.64	11	eP	20	48.60	4.4X
			eS	21	47.50	
OFUJ	5.90	21	P	21	01.30	-0.5
SHNJ	6.50	277	eP	21	10.10	-0.3
KUMJ	6.86	263	P	21	15.40	0.0
KAGJ	7.19	253	P	21	20.20	0.1
WRA	53.43	185	P	28	55.00	0.4
	0.4s		0.80nm		4.0mb	
INK	58.36	26	eP	29	29.00	-0.6
	S.D. = 0.6		on 11 of 12 obs.			

% SEP 03, 1991 11h 17m 40.27± 3.10s
61.666 N ±12.6km 2.771 E ±23.1km
DEPTH = 10.0km (geophysicist)
NORWEGIAN SEA (642)
MD 2.3 (BER).

FRO	1.01	84	iPd	17	59.48	0.1
			eS	18	09.40	
FOO	1.09	93	iP	18	00.96	0.3
			iS	18	11.58	
SUE	1.14	122	iP	18	01.31	-0.2
			iS	18	15.31	
ASK	1.67	134	iP	18	09.59	-0.1
			iS	18	28.63	
HYA	1.72	105	iP	18	10.01	-0.3
			eS	18	29.05	
EGD	1.84	138	eP	18	13.00	0.9
			eS	18	32.85	
MOL	2.42	66	iP	18	20.39	-0.1
ODD1	2.58	131	iP	18	22.29	-0.6
			eS	18	49.69	
KMY	2.75	152	eP	18	25.11	-0.1
			eS	18	55.07	
	S.D. = 0.5		on 9 of 9 obs.			

SEP 03, 1991 11h 56m 16.27± 0.11s
17.921 S ± 3.0km 115.992 W ± 3.0km
DEPTH = 10.7km (geophysicist)
5.8mb (43 obs.) 5.9Msz (16 obs.)
SOUTHERN EAST PACIFIC RISE (684)
Ms 5.9 (BRK). Mo=1.0*10**19 Nm
(PPT). Depth from broadband
displacement seismograms.
RADIATED ENERGY
No. of sta: 11 Focal mech. M
Energy 2.8±0.6*10**13 Nm
MOMENT TENSOR SOLUTION
Dep 12 No. of sta: 14
Moment Tensor; Scale 10**18 Nm
Mrr=-2.86 Mtt= 0.31
Mff= 2.54 Mrt= 1.27
Mrf=-1.49 Mtf=-1.04
Principal axes:
T Val= 3.51 Plg=16 Azm= 65
N 0.00 9 333
P -3.50 71 215
Best Double Couple:Mo=3.5*10**18
NP1:Strike=169 Dip=30 Slip= -72
NP2: 328 62 -100
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 27S, 74C
Centroid Location:
Origin Time 11:56:24.7 0.2
Lat 18.18S 0.02 Lon 116.13W 0.02
Dep 15.0 BDY Half-duration 5.0
Moment Tensor; Scale 10**18 Nm
Mrr=-3.51 0.04 Mtt= 1.35 0.04
Mff= 2.16 0.06 Mrt= 1.23 0.18
Mrf=-0.08 0.16 Mtf=-0.74 0.05
Principal Axes:
T Val= 2.68 Plg= 7 Azm= 55
N 1.12 12 324
P -3.80 76 176
Best Double Couple:Mo=3.2*10**18
NP1:Strike=158 Dip=39 Slip= -72
NP2: 315 53 -104

RKT	18.51	251	iP	00	35.80	1.3
	1.6s		810.00nm		5.7mb	
RUV	30.19	270	iP	02	30.10	1.0
	1.2s		135.00nm		5.7mb	
VAH	30.42	270	iP	02	32.40	1.3
	1.2s		80.00nm		5.4mb	
TPT	30.45	271	iP	02	32.80	1.4
	1.2s		60.00nm		5.3mb	
PMO	30.71	271	iP	02	34.90	1.2
	1.2s		140.00nm		5.7mb	
TVO	31.64	265	iP	02	42.00	0.1
	1.2s		125.00nm		5.7mb	
PAE	31.96	265	iP	02	44.80	0.2
	1.2s		135.00nm		5.7mb	
PT10	38.09	87	eP	03	37.00	-0.1
NNA	38.23	87	Pc	03	39.70	1.3
	1.2s		62.50nm		5.2mb	
			iS	09	36.00	
OXX	39.62	30	(P)	03	53.00	3.0X
TPX	40.14	37	(P)	03	56.50	2.4
PPM	40.52	26	(P)	04	00.00	2.1
IIT	40.61	26	(P)	04	01.00	2.7
IISM	40.99	27	(P)	04	03.00	2.0
RAR	41.29	258	P	04	04.00	0.4
			S	10	20.00	
AGX	41.76	19	(P)	04	11.00	3.7X
CUMC	41.94	67	ePd	04	12.08	2.4
ARE	42.46	95	eP	04	14.00	0.3
PSO	42.53	68	eP	04	17.50	3.2X
LCCH	42.59	120	iPc	04	15.00	0.9
LNV	42.80	121	eP	04	17.00	1.2
ANT	42.85	106	e(P)	04	11.00	-5.4X
ROCH	42.97	119	eP	04	18.50	1.0
TACH	43.14	120	eP	04	18.50	-0.2
PEL	43.26	120	iPd	04	20.00	0.3
	1.0s		160.00nm		5.7mb	
JACH	43.27	119	eP	04	20.00	0.2
SAN	43.33	120	eP-	04	21.00	0.8
			eS	10	46.00	
CHCH	43.42	121	ePd	04	21.00	0.0
PCH	43.48	120	eP	04	22.00	0.5
PURC	43.92	67	ePd	04	26.86	1.1
ANCC	44.06	65	eP	04	26.20	-0.2
SILC	44.11	66	ePd	04	28.51	1.3

HOOC	44.24	65	ePd	04	29.27	1.2
CLMC	44.51	65	ePd	04	30.60	0.5
ZON	44.74	117	ePd	04	35.00	3.3X
MDZ	44.75	119	eP	04	35.60	3.8X
			e	06	15.70	
UPA	44.84	56	iPc	04	34.20	1.6
	1.6s		360.00nm		6.0mb	
			i	06	15.30	
			i	11	12.00	
HOBC	45.11	64	ePd	04	35.66	0.7
LPB	45.67	96	Pd	04	42.20	2.5
			S	11	20.00	
			LR	18	10.00	
ZOBO	45.69	95	iPd	04	40.70	0.7
	1.9s		330.74nm		6.0mb	
			epPc	04	44.18	12kmX
			eS	11	00.00	
CNCB	45.74	96	iPd	04	42.00	1.6
BOG	47.03	66	iPd	04	54.00	3.6X
			iS	11	48.00	
CCH	47.39	97	P	04	53.90	0.8
FUQ	47.73	65	eP	04	53.50	-2.4
BMG	49.11	63	iPd	05	06.00	-0.3
IKP	50.28	360	eP	05	17.50	2.6
BAR	50.32	359	eP	05	17.60	2.5
GLA	50.70	1	eP	05	20.50	2.5
PLM	50.99	359	eP	05	22.70	2.3
PFO	51.24	360	iPd	05	22.43	0.2
			iS	12	48.96	
			eSS	16	28.30	
PEC	51.53	359	ePd	05	23.90	-0.4
TPC	51.73	360	eP	05	28.50	2.6
PAS	51.82	358	iPd	05	26.92	0.5
			epPc	05	30.40	12kmX
			ePcP	06	39.08	
SSK	51.86	358	P	05	27.50	0.5
MWC	51.89	358	eP	05	29.50	2.3
SDV	52.11	63	eP	05	29.30	0.0
SBC	52.19	356	iPd	05	29.73	0.5
			epPc	05	33.21	12kmX
			ePcP	06	40.49	
			iS	13	00.45	
			eScS	15	25.15	
			eSS	16	43.93	
SBB	52.34	358	eP	05	32.40	1.9
SIV	52.41	97	iPd	05	30.50	-0.9
ABL	52.57	357	P	05	32.00	-0.4
GSC	52.93	359	iPd	05	35.24	0.3
			epPc	05	38.71	11kmX
			iS	13	12.52	
			eScS	15	31.29	
			eSS	16	47.72	
BCH	52.95	356	P	05	35.40	0.3
ISA	53.34	357	iPd	05	38.40	0.5
			iS	13	18.18	
ALQ	53.34	10	iPd	05	38.00	-0.1
	1.0s		75.00nm		5.6mb	
Z	22s		8.89um		5.8Msz	
			e	06	45.00	
ANMO	53.35	10	iPd	05	38.58	0.5
	0.8s		74.63nm		5.7mb	
			epPc	05	41.89	11kmX
			PcP	06	46.00	
			iS	13	14.12	
CLC	53.46	358	eP	05	40.60	1.8
PHAM	53.62	356	P	05	40.40	0.5
AFI	53.64	266	eP	05	40.00	-0.5
			eS	14	06.00	
PRI	53.95	355	ePd	05	42.99	0.6
LPA	53.97	120	eP+	05	39.00	-3.6X
Z	20s		11.35um		5.9Msz	
			eS	13	11.00	
PRS	54.19	355	ePd	05	44.51	0.5
LLA	54.44	355	eP	05	45.90	0.0
MHA	54.47	312	P	05	47.50	1.2
SAO	54.63	355	eP	05	47.83	0.6
FRI	54.73	356	eP	05	47.58	-0.3
GCC	54.95	354	ePd	05	49.87	0.3
MEO	54.96	18	iPd	05	49.00	-0.8
ARN	55.22	355	P	05	52.00	0.4
PCC	55.45	354	eP	05	53.86	0.7
BONR	55.62	358	P	05	54.90	0.1
TNP	55.71	359	iPd	05	55.00	-0.4
	1.0s		91.75nm		5.8mb	
BKS	55.81	354	iPc	05	56.60	0.8
	1.1s		87.00nm		5.7mb	
Z	20s		11.00um		5.9Msz	

```
     N  20s     8.00um
     E  20s     3.10um
                  iS     13 51.00
                  iSS    17 43.00
                  eLO    20 08.00
                  iLR    22 11.00
CMB    55.81 356 eP     05 56.09    0.2
ZSP    55.88 354 eP     05 57.05    0.8
CAR    56.08  64 eP     05 56.70   -1.6
MSU    56.25   4 P      05 59.70    0.5
PV09   56.49   6 ePd    06 00.40   -0.7
ACO    56.61  16 iPd    06 03.20    1.6
KVN    56.70 358 P      06 03.00    0.5
KIP    56.77 312 ePd    06 02.90   -0.1
                 eS     14 07.03
ITB1   57.40 108 Pc     06 08.00    0.5
ORV    57.41 355 ePd    06 07.38    0.2
DUG    57.89   3 P      06 10.60   -0.1
GOL    58.17  10 iPd    06 11.70   -1.2
       0.7s    33.37nm          5.5mb
MIN    58.20 355 eP     06 12.18   -0.7
GLD    58.24  10 ePd    06 12.60   -0.7
       1.1s   173.58nm          6.0mb
     Z 18s     5.98um           5.8Msz
AIA    58.29 157 eP     06 12.60   -0.5
WDC    58.52 354 ePd    06 14.23   -0.7
FOX    58.61 353 eP     06 16.96    1.4
FHC    58.89 353 P      06 18.00    0.4
       0.9s    69.23nm          5.8mb
PWLA   58.92  27 P      06 16.60   -1.3
CCM    60.34  22 iPd    06 27.09   -0.5
                 epPc   06 30.40   11kmX
                 iS     14 45.16
                 eHSS   18 51.81
                 eSS    18 53.47
PPD    60.54 106 eP     06 28.20   -1.1
FVM    60.58  23 ePd    06 27.10   -2.1
       1.0s    80.00nm          5.8mb
BW06   60.68   5 iPd    06 27.90   -2.2
       0.8s    53.57nm          5.7mb
TPP    60.72  67 eP     06 29.25   -1.3
PRM    60.83  32 P      06 30.00   -1.0
TRN    60.91  66 eP     06 29.45   -2.4
SGS    61.09  34 P      06 31.00   -1.7
TBH    61.13  67 eP     06 35.00    1.6
TKL    61.41  30 P      06 33.50   -1.4
KUZ    62.28 237 eP     06 40.40   -0.5
MNG    62.38 233 eP     06 41.60    0.1
COR    62.56 354 iPd    06 42.74    0.3
                 iS     15 15.77
                 e      16 09.84
                 eScS   16 39.09
RSSD   62.70  10 ePd    06 42.00   -1.7
       0.8s    96.15nm          6.0mb
     Z 18s    10.32um           6.0Msz
WEL    62.91 232 P      06 49.00    4.0X
                 S      15 20.00
                 SS     19 06.00
                 SSS    22 32.00
PAG    63.25  61 eP     06 47.60    0.0
LRM    63.52   3 eP     06 47.80   -1.3
KHZ    63.82 231 eP     06 51.00    0.1
       1.4s   288.00nm          6.3mb
DEG    63.90  61 eP     06 50.00   -1.9
BLA    64.27  31 P      06 52.00   -1.9
       1.0s    42.50nm          5.6mb
VAO    64.35 107 iPc    06 54.40   -0.5
                 i      06 57.70
LON    64.58 356 ePd    06 54.73   -1.0
CVL    65.84  32 P      07 03.00   -1.0
NEW    65.89 359 ePd    07 03.10   -1.0
       0.8s    91.67nm          6.0mb
     Z 18s     9.63um           6.0Msz
CBN    66.57  32 eP     07 09.20    0.6
PGC    66.60 355 eP     07 09.00    0.4
       0.8s    72.00nm          5.9mb
BMA    66.96 108 (P)    07 12.00    0.4
PNT    67.01 357 ePd    07 11.00   -0.3
SES    68.15   3 eP     07 17.00   -1.5
       1.5s   249.00nm          6.2mb
DLA    68.27  27 P      07 19.25    0.0
LDN    68.58  27 P      07 20.75   -0.5
ELF    68.65  27 P      07 21.50   -0.2
LVNJ   69.85  32 P      07 28.00   -1.0
GMTN   70.20  32 iP     07 31.50    0.3
TBR    70.37  32 P      07 31.50   -0.7
SPA    72.19 180 iPd    07 43.20    0.1
```

```
       1.1s   211.90nm          6.1mb
     Z 20s     3.02um           5.6Msz
DZM    72.28 252 iPc    07 45.10    0.8
HRV    72.73  33 iPd    07 45.94   -0.4
                 epPc   07 49.41   11kmX
                 eS     17 13.26
                 eSS    21 52.01
                 eHSS   21 56.97
FFC    73.34   8 eP     07 48.00   -1.6
       1.3s   116.00nm          5.8mb
BNH    74.38  31 P      07 56.00    0.1
SIT    76.42 349 eP     08 08.30    1.0
CAI    77.44  93 iPd    08 14.00    0.1
DRV    79.12 203 (P)    08 24.00    1.9
SNA    80.90 162 iPd    08 31.20   -0.4
       1.1s   202.53nm          6.1mb
KDC    81.24 341 eP     08 33.70    0.3
BALM   81.48 347 eP     08 34.20   -0.6
SDN    82.13 336 eP     08 38.00   -0.1
RIV    82.53 237 eP     08 43.20    2.4
     Z 20s     3.12um           5.7Msz
                 eS     19 05.20
KLU    82.67 346 P      08 39.70   -1.3
TAU    82.76 227 eP     08 46.00    4.2X
                 eS     19 08.00
COO    82.85 240 eP     08 43.00    0.4
SLKM   82.89 344 eP     08 41.20   -0.9
                 e(pP)  08 47.70   21kmX
BRS    83.01 244 eP     08 44.00    0.5
TOA    83.27 346 ePd    08 44.60    0.6
PDB    83.42 342 P      08 43.70   -1.0
CNB    83.51 235 eP     08 46.40    0.4
       1.3s    55.00nm          5.6mb
                 ePP    11 11.80
PMR    83.53 345 ePd    08 45.20    0.0
       1.3s   306.70nm          6.4mb
     Z 18s     2.90um           5.7Msz
RSO    83.55 343 eP     08 44.50   -1.2
SCH    83.65  26 ePc    08 45.70   -0.3
       1.0s    84.00nm          5.9mb
NVL    84.55 165 iP     08 50.00   -0.4
                 e      09 02.00
                 e      09 18.00
                 e      09 40.00
                 e      10 21.00
                 e      10 46.00
                 ePP    12 04.00
                 eS     19 15.00
                 e      19 31.00
                 ePS    20 04.00
                 e      20 19.00
                 e      20 27.00
                 e      20 54.00
                 eSS    25 06.00
                 e      25 42.00
SVW    84.91 342 ePd    08 51.60   -0.7
TOD    85.78 232 iPd    08 58.30    1.1
       1.0s    40.00nm          5.6mb
COL    86.07 347 iPd    08 57.60   -0.3
                 iSKS   19 24.61
                 iS     19 34.54
                 iPS    20 33.86
FBA    86.07 347 ePd    08 58.10    0.2
       1.2s   598.50nm          6.6mb
TTA    86.47 343 ePd    08 59.60   -0.4
       1.4s   157.10nm          6.0mb
RMO    86.70 243 iPd    09 13.10   11.1X
       0.5s    12.00nm
ADK    87.20 327 eP     09 03.30   -0.3
       0.8s    65.10nm          5.9mb
BFD    88.12 232 eP     09 09.00    0.4
IMA    88.39 346 eP     09 09.10   -0.2
CSY    89.15 197 iPc    09 13.90    1.0
       0.7s    11.70nm          5.3mb
ANM    90.47 341 eP     09 18.80   -0.1
RAB    90.47 265 iP     09 20.00   -0.1
                 eS     20 02.00
STK    90.77 236 iPd    09 21.90    0.8
       1.0s     4.80nm          4.8mb X
                 ePP    12 55.20
                 eS     19 54.10
                 eSS    26 39.00
                 iPKKP  26 47.10
CTAD   90.93 249 iPd    09 23.08    1.0
       1.5s   129.03nm          6.0mb
                 iPcP   09 27.00
                 iSKS   19 58.74
```

```
                 iS     20 30.68
                 e      21 14.00
                 e      26 18.00
SMY    92.51 325 P      09 31.50    3.0X
       1.0s   116.67nm          6.2mb
MBC    93.98 359 eP     09 35.00    0.2
       1.2s    62.00nm          5.9mb
MAW    94.72 180 eP     09 39.00    0.4
       1.0s    17.00nm          5.4mb
OIS    96.61 246 iPc    09 48.20    0.0
       1.1s    12.00nm          5.4mb
GDH    97.40  19 eP+    09 49.00   -1.6
                 i      13 51.00
                 i      22 48.00
                 e      28 04.00
WR2   101.38 245 iPdiff10 09.50   -0.2
       0.8s     3.60nm          5.0mb
                 iPP    14 18.40
WRA   101.41 245 Pdiff  10 10.00    0.2
       1.6s     3.40nm          4.7mb X
MAT   112.96 303 ePKP   14 55.00   -0.5
YAK   117.03 331 ePKP   15 01.00   -1.4
DAV   119.17 268 ePKP   15 12.00    4.0X
MDJ   119.68 312 ePKPd  15 06.91   -1.1
                 iPP    16 25.37
                 iHPP   16 28.13
                 eSKS   22 01.75
                 iSKKS  23 30.14
                 iHSKKS23 30.81
                 eSDIF  24 23.12
FRS   119.69 141 iPKPd  15 08.40   -0.1
LPF   119.75  45 iPKPc  15 07.90   -0.2
       1.0s    14.00nm
GRR   119.84  44 iPKPc  15 08.20    0.0
       0.9s    19.65nm
FLN   120.04  44 iPKPc  15 08.50   -0.1
       0.9s    19.65nm
     Z 22s     3.50um           6.0Msz
LDF   120.30  44 iPKPc  15 09.00   -0.1
       0.9s     9.85nm
CGP   120.38 269 ePKP   15 09.00   -1.3
MFF   120.51  46 iPKPc  15 09.50   -0.1
       0.9s    18.00nm
BTH   120.77  50 ePKPc  15 10.00   -0.2
BTH   120.77  50 PKPc   15 18.50    8.3X
                 ePP    16 44.00
                 sSKP   19 01.50
                 esPPP  19 18.00
                 e      22 52.00
                 i(SKKS22 55.50
                 e(PS)  26 30.00
EPF   121.17  50 iPKPc  15 11.30    0.3
       1.0s    28.00nm
LFF   121.30  48 iPKPc  15 11.20    0.1
       0.8s    13.45nm
EBR   121.43  53 ePKP   15 04.00   -7.5X
                 e      16 42.00
                 e      26 34.00
                 e      26 44.00
LPO   121.64  48 ePKP   15 11.80    0.0
       1.1s    17.10nm
LSF   121.70  46 iPKPc  15 11.50   -0.4
TCF   122.17  46 iPKPc  15 12.60   -0.2
       1.0s     9.00nm
CAF   122.23  48 ePKP   15 13.20    0.2
MAF   122.42  46 ePKP   15 13.10   -0.1
BGF   122.56  46 iPKPc  15 13.40   -0.1
       0.9s    34.40nm
CN2   122.72 311 PKP    15 12.60   -1.2
     Z 22s     4.00um           6.0Msz
     N 20s     1.30um
     E 20s     1.00um
UCC   122.80  41 PKP    15 14.50    0.8
                 e      16 56.00
SNF   122.81  41 iPKPc  15 14.03    0.3
AVF   122.87  45 iPKPc  15 13.60   -0.4
       1.0s    12.00nm
SSF   122.94  45 iPKPc  15 13.90   -0.3
       0.9s    19.65nm
DBN   123.00  39 ePKP   15 15.00    0.9
     Z 20s     1.50um           5.6Msz
                 ePP    16 56.00
                 ePS    26 44.00
                 eSS    33 46.00
                 eSSS   38 00.00
LOR   123.14  45 iPKPc  15 14.40   -0.2
       1.0s    18.00nm
```

03d 12h

	Z 21s	4.00um		6.0Msz				SKKS	24 08.00			TIY	133.42	305	PKP	15 22.00	-12.7X
NB2	123.19	28 PKP	15 13.30	-1.0	VDL	127.07	45 ePKPd	15 22.60	0.1				Z 25s	3.10um		5.9MszX
	0.9s	13.40nm			MOX	127.28	39 iPKP	15 22.30	-0.2				E 20s	1.60um		
SMF	123.23	46 iPKPc	15 14.50	-0.3		2.3s	91.00nm							sPKP	15 33.00	
	1.0s	21.00nm			GRF	127.34	41 iPKPd	15 23.00	0.3					PP	18 02.00	
LBF	123.27	45 iPKPc	15 14.60	-0.3	OSS	127.47	44 ePKPd	15 23.60	0.4			IRK	133.43	327	ePKP	15 33.00	-1.2
	0.9s	17.20nm			BSD	127.48	33 iPKPc	15 22.00	-0.7					e	15 44.60	
KSR	123.46	139 iPKPc	15 16.00	-0.1		0.9s	36.00nm							ePP	17 56.50	
	0.8s	12.50nm			PGF	127.55	50 ePKP	15 23.90	0.5					e	18 37.00	
ENN	123.77	40 ePKP	15 16.00	0.3		1.0s	36.00nm							e	19 02.00	
	1.0s	34.00nm			FUR	127.82	42 ePKP	15 23.10	-0.6					e	19 41.00	
		ePP	17 01.00		CLL	127.89	38 iPKPd	15 23.30	-0.3					e	20 13.00	
MEM	123.86	41 iPKPd	15 15.20	-0.6		1.4s	37.00nm							ePPS	29 55.00	
SSB	123.92	47 PKP	15 16.18	-0.1			e	17 28.00						e	31 19.00	
WTS	124.01	39 ePKP	15 16.00	-0.1	WTTA	128.30	43 iPKPd	15 24.70	-0.1					eSS	36 16.00	
	1.0s	65.00nm				1.0s	59.20nm							eSSS	40 49.00	
WLF	124.17	42 PKP	15 17.00	0.5			ipPKP	17 25.60				TDS	133.58	52	PKP	15 34.70	-0.1
SNY	124.30	309 PKPd	15 16.00	-1.0	MME	128.44	47 PKP	15 25.90	0.6			GZH	133.67	285	ePKP	15 34.00	-1.5
	Z 32s	5.00um		6.0MszX	WET	128.54	41 iPKPd	15 24.80	-0.2				Z 40s	3.00um		5.7MszX
		PP	17 00.00		BRG	128.60	38 iPKP	15 24.60	-0.4					PP	18 03.00	
VITF	124.37	43 PKP	15 16.87	-0.1			iPKS	18 45.00				BTO	134.57	310	PKP	15 36.00	-0.8
SLR	124.41	140 iPKPc	14 56.30	-21.6X	KAF	128.62	22 iPKP	15 24.20	-0.5				8.0s	1200.00nm			
		i	15 17.00			1.0s	61.10nm						N 17s	0.60um			
APO	124.60	27 ePKP	15 16.20	-0.8	NJ2	128.83	297 PKPd	15 25.00	-1.0				E 17s	0.80um			
	1.2s	71.30nm				9.0s	1300.00nm							PP	18 06.00		
HAU	124.66	44 iPKPc	15 17.50	0.0		Z 24s	2.80um		5.9MszX			DEV	136.05	41	ePKP	15 40.00	0.7
	Z 22s	3.00um		5.9Msz			PP	17 29.00				OHR	136.44	49	iPKP	15 34.50	-5.8X
BSF	124.98	44 iPKPc	15 18.20	-0.1	KHC	128.98	41 PKP	15 26.00	0.2			QIZ	136.61	279	PKPd	15 42.00	0.8
	0.9s	18.00nm				1.0s	26.80nm						9.0s	1300.00nm			
SOD	125.08	17 iPKP	15 17.00	-0.7			e	18 50.00					N 19s	1.30um			
LOMF	125.11	44 PKP	15 18.57	0.1	OZH	128.99	288 ePKP	15 26.00	-0.5				E 19s	1.30um			
ECH	125.14	43 PKP	15 18.50	0.0	NUR	129.05	24 iPKP	15 25.40	-0.1					PP	18 23.00		
CDF	125.17	43 PKP	15 18.57	-0.1		1.0s	116.00nm					SKO	136.61	47	ePKP	15 29.70	-10.8X
GWF	125.26	42 PKP	15 19.25	0.6			e	17 34.00						i	15 39.80		
RSL	125.30	46 PKP	15 19.09	0.0			e	18 48.00						i	18 15.00		
LPL	125.41	47 iPKPc	15 20.50	1.1	PRU	129.27	39 PKP	15 26.20	-0.1					i	18 21.50		
	1.0s	39.00nm				1.0s	18.40nm							i	18 39.50		
LPG	125.42	47 iPKPc	15 20.60	1.1			e	15 57.00						i	19 15.00		
	1.0s	36.00nm					e	17 36.00						i	19 19.00		
BNI	125.45	47 PKP	15 20.00	0.7	SFI	129.31	48 PKP	15 26.90	0.4					i	21 31.00		
LRG	125.49	49 iPKPc	15 19.70	0.4	KBA	129.47	43 iPKPd	15 26.10	-0.9					i	28 28.00		
	1.0s	68.00nm					ic	15 26.80				XAN	136.91	301	PKP	15 40.00	-1.4
	Z 21s	2.25um		5.8Msz			i	17 33.00					N 11s	0.50um			
BFT	125.50	142 iPKPc	15 26.00	5.9X	KMR	129.67	42 iPKP-	15 27.40	0.2				E 12s	1.00um			
	1.0s	40.00nm					i	17 33.20				OBN	137.40	23	ePKP	15 40.00	-1.5
BBS	125.54	44 PKP	15 19.41	0.1	TIA	129.94	302 ePKP	15 27.00	-1.0				1.0s	125.00nm			
RRL	125.55	47 PKP	15 17.55	-2.2X	KSP	129.99	38 iPKP	15 28.80	1.1				Z 32s	5.00um		6.0MszX
HIA	125.61	318 ePKPd	15 17.55	-1.9		1.0s	33.00nm						E 33s	3.80um			
LMR	125.62	49 iPKPc	15 19.90	0.3			e	17 47.00						iPP	18 28.00		
	1.0s	36.00nm			BJI	130.11	308 iPKPd	15 26.66	-1.5					ePKS	19 16.00		
TSM	125.64	262 ePKP	15 20.50	0.1		Z 24s	1.99um		5.7MszX					ePP	21 32.00		
FRF	125.68	49 iPKPc	15 19.90	0.2			ePP	17 39.00						eSKKS	25 20.00		
	1.0s	50.00nm					eSS	35 00.00						ePPS	31 08.00		
LSD	125.71	47 PKP	15 20.01	0.0	VOY	130.15	44 ePKP	15 27.80	-0.4					eSS	36 28.00		
DIX	125.76	46 ePKPd	15 20.60	0.5	TRI	130.15	45 ePKP	15 27.60	-0.5					eSSS	41 56.00		
FEL	125.78	43 PKP	15 20.23	0.3			i	17 37.00				VAY	137.63	48	iPKP	15 42.00	-0.5
RSP	125.84	47 PKP	15 19.49	-0.6			i	35 00.00				KNT	137.92	48	PKP	15 42.50	-0.5
PZZ	125.85	48 PKP	15 19.80	-0.4	LJU	130.57	44 ePKP	15 28.50	-0.4			LIT	137.99	49	PKP	15 42.40	-0.8
BHB	125.90	47 PKP	15 19.39	-0.7	CEY	130.59	45 ePKPd	15 28.80	-0.2			MLR	138.13	41	ePKP	15 43.00	-0.5
COP	125.96	33 iPKPc	15 20.00	0.2	RIY	130.68	45 ePKP	15 28.80	-0.3			VRI	138.42	40	ePKP	15 42.00	-1.8
	0.9s	20.17nm			AZI	130.89	50 PKP	15 30.30	0.7			BUC	138.73	42	ePKPd	15 40.50	-3.9X
		i	17 16.00		VBY	131.21	45 ePKP	15 29.40	-0.7			CFR	139.64	40	ePKP	15 44.00	-2.0
STV	126.05	48 PKP	15 20.83	0.3	ZST	131.49	41 ePKP	15 30.20	-0.4			GYA	139.75	290	PKP	15 38.00	-8.9X
DL2	126.09	305 PKPd	15 19.60	-1.0			e	17 49.00					Z 40s	4.10um		5.9MszX
	Z 24s	2.50um		5.8MszX	ZAG	131.60	44 ePKPd	15 30.50	-0.3				N 22s	2.50um			
	E 23s	3.00um			SRO	132.39	41 ePKP	15 32.30	0.0				E 22s	3.80um			
		PP	17 12.00				e	17 08.90						e	15 48.00		
BAG	126.10	278 ePKP	15 20.00	-1.5			e	17 45.70						PP	18 40.00		
ZLA	126.11	44 ePKPd	15 19.90	-0.6	KRA	132.44	37 ePKP	15 31.90	-0.4					SS	37 04.00		
SLE	126.12	44 ePKPd	15 20.20	-0.2			e	15 34.10				LWI	139.95	116	iPKPc	15 44.80	-3.0X
ENR	126.12	48 PKP	15 20.01	-0.6			e	17 53.00				LZH	140.49	305	PKP	15 38.00	-10.1X
MMK	126.15	46 ePKPd	15 21.10	0.3	WHN	132.75	295 ePKP	15 32.50	-1.0				Z 28s	4.72um		6.1MszX
SBF	126.20	48 iPKPc	15 20.50	-0.3		8.0s	900.00nm						E 25s	3.23um			
	1.0s	32.00nm				Z 38s	4.80um		5.9MszX					e	15 47.50		
ORX	126.24	46 PKP	15 19.08	-1.8		E 22s	2.20um							PKS	19 16.00		
ROB	126.43	48 PKP	15 20.11	-1.1			PP	17 56.00				IPM	141.45	254	ePKP	15 44.00	-6.2X
IMI	126.51	48 PKP	15 19.60	-1.8	HKC	132.86	284 ePKP	15 35.20	1.3			CD2	141.76	297	PKP	15 49.00	-1.4
LLS	126.66	44 ePKPd	15 22.00	0.3	MGR	132.88	52 PKP	15 33.60	0.1			GTA	142.33	312	PKP	15 45.00	-6.2X
FIN	126.68	48 PKP	15 21.13	-0.5	SPC	133.00	38 iPKP	15 34.20	0.5				9.0s	1680.00nm			
TMA	126.75	45 ePKPd	15 21.80	-0.1			e	17 58.80					Z 32s	4.40um		6.0MszX
PCP	126.85	47 PKP	15 20.72	-1.3	UZD	133.02	42 e(PKP)	15 34.00	0.5				N 25s	2.60um			
SSE	126.86	296 PKPd	15 21.50	-0.8	PSZ	133.32	40 ePKP	15 34.00	-0.2					PP	18 55.00		
	6.0s	400.00nm			HHC	133.37	310 ePKP	15 34.00	-0.6			SNG	142.78	258	ePKP	15 49.10	-3.4X
	Z 20s	2.30um		5.9Msz		Z 28s	2.70um		5.8MszX			KMI	143.36	288	iPKPd	15 49.51	-4.0X
	N 14s	0.40um					PP	17 58.00					Z 23s	3.20um		6.0MszX
	E 14s	0.40um					PP	18 02.00						eSKS	23 06.79		
		PP	17 16.00				SS	35 43.00						eSKKS	25 58.29		

			eHSKKS	25	58.95	
KHL	143.72	49	ePKP	15	49.50	-4.0X
ALT	143.83	47	iPKP	15	50.00	-3.7X
LOE	144.09	275	ePKP	15	52.20	-2.4X
ELL	144.63	51	iPKP	15	54.00	-1.2
KAS	145.13	42	iPKPd	15	55.60	-0.2
NNT	145.17	266	iPKPc	15	56.40	-0.1
BBTK	145.27	45	ePKP	15	56.00	-0.2
NST	145.38	272	iPKPd	15	57.00	0.2
BDT	146.66	274	ePKP	15	57.10	-1.8
	0.7s	75.60nm				
KHT	146.70	270	ePKP	15	59.00	0.0
KVT	146.71	40	ePKP	15	55.00	-3.4X
CHG	146.86	277	ePKPd	15	58.80	-0.4
	1.4s	186.05nm				
CHTO	146.86	277	ePKPd	15	57.93	-1.3
			ed	16	00.41	
NAI	147.12	123	iPKP	16	00.50	0.4
			PP	19	07.00	
			SS	31	00.00	
PPCY	147.17	53	ePKP	15	57.50	-1.7
WMO	147.36	327	iPKPd	15	59.46	0.1
	Z 40s	4.90um				6.0MszX
			ed	16	01.45	
CSS	147.89	52	ePKP	16	01.40	1.0
LFK	147.91	51	iPKP	16	03.60	3.1X
HLW	147.97	62	ePKPd	-16	00.50	-0.2
			e	19	40.00	
HOL	151.24	62	ePKP	16	06.00	0.3
AYN	152.15	62	ePKPd	16	08.00	1.0
LSA	152.61	300	iPKPd	16	08.00	-0.3
SHL	153.05	291	ePKP	16	08.00	-0.7
MSL	153.97	41	ePKP	16	12.00	2.6X
			e	18	41.00	
SLY	155.92	39	ePKPc	16	12.50	0.5
			e	16	49.00	
KSH	156.16	337	PKPd	16	14.00	1.6
BHD	156.68	45	ePKPd	16	15.00	1.9
			e	20	16.00	
			e	21	34.00	
GUN	157.57	300	PKP	16	13.54	-1.3
PKI	158.08	300	PKP	16	11.38	-4.1X
KKN	158.11	300	PKP	16	13.02	-2.3X
GAR	158.29	347	iPKP	16	15.20	0.1
DMN	158.32	300	PKP	16	12.52	-3.1X
UOSK	158.46	65	ePKP	16	16.00	0.4
GKN	158.55	302	PKP	16	14.28	-1.4
ARO	158.58	104	ePKPd	16	18.10	2.2
IR7	158.67	31	iPKPd	16	16.00	0.4
IR1	158.94	32	iPKPd	16	16.80	0.9
IR4	159.18	31	iPKPd	16	17.00	0.8
OASM	159.37	63	ePKP	16	17.00	0.5
ABHA	159.79	86	ePKP	16	19.00	1.6
MJMA	160.93	62	ePKP	16	19.00	0.8
MAIO	161.26	11	iPKPd	16	19.50	1.3
			e	20	43.00	
NDI	163.83	314	iPKPd	16	21.30	0.4
			iPP	20	56.00	
SHI	164.31	40	ePKP	16	20.00	-1.6
KOD	164.88	241	ePKP	16	22.40	-0.2
HYB	166.13	270	ePKPd	16	23.00	-0.2
			e	17	23.50	
GBA	166.38	254	PKP	16	25.00	1.6
	1.6s	44.50nm				
POO	170.63	275	iPKPd	16	30.50	4.4X
	S.D. = 1.0	on 343 of 382 obs.				

SEP 03, 1991 12h 42m 43.65± 0.76s
44.783 N ± 7.6km 22.541 E ± 8.1km
DEPTH = 10.0km (geophysicist)
ROMANIA (358)

SSR	0.57	278	eP	42	54.00	-1.3
DEV	1.13	13	iPc	43	06.00	1.2
BEO	1.49	272	ePn	43	11.00	0.6
			eSg	43	28.50	
TNR	1.50	54	iPc	44	04.00	53.4X
MDB	1.88	43	eP	43	17.00	0.9
MLR	2.51	72	eP	43	53.00	27.7X
SKO	2.92	196	ePn	43	37.00	6.0X
VRI	3.14	68	ePc	43	32.00	-2.2
VAY	3.46	180	ePn	43	39.40	0.8
KNT	3.63	176	P	43	41.20	0.1
PSZ	3.63	331	ePn	43	40.90	-0.3
	S.D. = 1.4	on 8 of 11 obs.				

• SEP 03, 1991 13h 09m 34.38± 0.90s
53.209 S ± 9.0km 160.070 E ±16.5km
DEPTH = 10.0km (geophysicist)
4.6mb (8 obs.)
MACQUARIE ISLANDS REGION (167)

MCO	1.45	207	iPc	09	58.70	-1.9
			eS	10	13.50	
BCZ	8.79	38	eP	11	43.20	-1.2
TOO	18.63	321	eP	13	55.20	1.3
	1.0s	29.00nm			4.4mb	
			eTT	30	50.40	
CNB	19.42	333	eP	14	04.00	0.4
	1.2s	69.00nm			4.8mb	
			eTT	31	13.90	
ADE	23.68	312	e(P)	14	44.50	-2.2
STK	25.15	321	iPc	15	02.20	1.3
	1.6s	5.20nm			4.0mb	
			iPcP	19	45.10	
RMO	28.00	338	eP	15	37.00	9.8X
OLP	29.10	330	iPd	15	37.80	0.7
	0.3s	19.00nm			5.4mb	
CTAO	34.74	337	iP	16	27.00	0.4
ASPA	35.53	316	iPc	16	32.70	-0.6
	1.1s	25.30nm			5.0mb	
OIS	36.20	326	iPc	16	38.10	-0.9
	1.1s	10.00nm			4.6mb	
SPA	36.98	180	iPd	16	47.00	1.6
	1.0s	16.50nm			4.8mb	
WRA	38.68	319	P	17	05.00	5.2X
	0.9s	4.80nm			4.2mb	
NVL	54.25	192	(P)	19	03.00	1.1
			e	19	06.00	
	S.D. = 1.5	on 12 of 14 obs.				

SEP 03, 1991 13h 19m 43.74± 1.32s
13.663 N ± 7.8km 125.107 E ±11.9km
DEPTH = 46.9 ± 11.2 km
4.3mb (4 obs.)
PHILIPPINE ISLANDS REGION (248)

PLP	2.49	183	ePd	20	23.50	0.9
			eS	20	34.00	
MAP	3.50	198	iPc	20	33.00	-4.0X
			eS	21	08.00	
PGP	4.04	268	eP	20	44.00	-0.7
			eS	21	05.00	
TGY	4.08	277	iPd	20	45.50	0.3
			iS	20	58.00	
CVP	5.11	322	eP	20	58.50	-1.3
CGP	5.19	185	eP	21	01.50	0.6
WHN	19.51	331	eP	24	11.00	0.9
GYA	21.46	309	P	24	37.00	6.6X
XAN	25.04	327	Pd	25	04.90	-0.3
CHG	25.62	285	eP	25	10.80	0.0
CHTO	25.62	285	eP	25	10.60	-0.1
	0.8s	2.01nm			3.7mb	
			pP	25	19.00	30kmX
CD2	26.09	315	P	25	17.00	2.0
BJI	27.42	345	eP	25	26.50	-0.5
ASPA	38.08	167	eP	27	00.50	0.6
	0.5s	7.70nm			4.9mb	
			eS	32	49.70	
GUN	39.13	298	P	27	09.40	0.3
PKI	39.47	297	P	27	11.80	-0.1
KKN	39.62	297	P	27	13.00	0.0
WARB	39.63	178	eP	27	12.00	-0.8
GKN	40.23	297	P	27	18.00	0.1
HYB	44.93	281	eP	27	56.80	0.6
GBA	46.27	276	Pc	28	06.00	-0.7
	0.7s	8.00nm			4.8mb	
STK	47.96	161	eP	28	20.50	0.7
	1.2s	1.40nm			3.9mb	
ADE	50.05	165	e(P)	28	33.20	-2.7
INK	81.57	22	eP	31	58.00	0.4
	S.D. = 1.0	on 22 of 24 obs.				

SEP 03, 1991 13h 27m 22.91± 0.43s
15.550 S ± 7.6km 13.204 W ± 9.2km
DEPTH = 10.0km (geophysicist)
4.9mb (12 obs.)
SOUTHERN MID-ATLANTIC RIDGE (410)

LIC	23.10	21	P	32	33.30	3.3X
KIC	23.33	22	P	32	32.30	0.0
TIC	23.49	21	P	32	34.40	0.5
LKO	26.05	17	P	32	56.76	-1.6
SOB1	27.75	280	eP	33	13.60	-0.4
CER	34.29	127	e(P)	33	47.50	-24.1X
KSR	38.75	112	eP	34	49.50	-0.1
	0.8s	10.63nm			4.6mb	
SLR	39.98	112	eP	34	59.90	0.2
	1.0s	20.00nm			4.7mb	
BFT	41.55	111	eP	35	13.00	0.3
	1.0s	65.00nm			5.3mb	
SIV	45.99	263	eP	35	49.00	0.5
ZOBO	52.68	261	P	36	45.70	4.9X
NVL	57.26	170	(P)	37	12.00	-0.6
			e	37	18.00	
TCF	63.10	12	eP	37	53.30	0.5
	1.1s	9.75nm			4.9mb	
LPG	63.39	16	eP	37	56.00	0.9
	1.0s	14.00nm			5.1mb	
LPL	63.41	16	eP	37	56.00	0.9
	1.0s	14.00nm			5.1mb	
SMF	63.78	13	eP	37	57.50	0.2
	1.1s	11.00nm			5.0mb	
AVF	63.82	13	eP	37	57.90	0.4
	1.0s	6.00nm			4.7mb	
SSF	64.11	13	eP	37	59.70	0.3
	1.1s	12.20nm			5.0mb	
LBF	64.13	13	eP	37	59.80	0.1
	1.0s	6.00nm			4.7mb	
LOR	64.38	13	eP	38	01.30	0.1
BSF	65.58	15	eP	38	08.50	-0.6
WTTA	66.38	18	i(P)	38	12.80	-1.5
	1.0s	13.70nm			5.1mb	
			i	38	14.50	
KHC	68.63	19	eP	38	28.00	-0.3
			e	38	34.00	
			e	41	03.00	
MLR	70.34	28	eP	38	39.00	0.1
NB2	78.79	12	P	39	26.40	-0.8
	1.0s	4.30nm			4.4mb	
MAIO	85.73	51	eP	40	11.00	7.3X
WRA	132.44	137	PKP	46	39.00	-1.1
	1.1s	1.20nm				
MAT	147.09	45	ePKP	47	08.00	2.1
	S.D. = 0.8	on 24 of 28 obs.				

• SEP 03, 1991 14h 42m 54.81± 1.14s
32.416 S ±18.7km 69.736 W ±18.2km
DEPTH = 33.0km (normal)
MENDOZA PROVINCE, ARGENTINA (139)

JACH	0.77	250	iPd	43	11.00	1.7
			iS	43	26.00	
PEL	1.08	228	iPd	43	14.30	0.6
			iS	43	32.00	
ROCH	1.21	242	iPd	43	15.50	-0.2
			iS	43	33.50	
ZON	1.25	46	eP	43	16.00	-0.1
			eS	43	34.00	
PCH	1.37	208	iP	43	19.20	1.3
			iS	43	41.70	
TACH	1.59	219	iP	43	21.00	-0.1
			iS	43	44.60	
CHCH	1.70	207	iPc	43	23.20	0.6
			iS	43	47.30	
LCCH	1.87	235	eP	43	23.70	-1.3
LNV	2.08	222	iP	43	25.50	-2.5
	S.D. = 1.5	on 9 of 9 obs.				

• SEP 03, 1991 14h 59m 03.23± 1.72s
33.243 N ±15.3km 138.761 E ±14.9km
DEPTH = 10.0km (geophysicist)
3.7mb (1 obs.)
SOUTH OF HONSHU, JAPAN (211)

IIDJ	2.34	343	P	59	41.60	-0.8
			S	00	05.40	
CHJJ	2.80	4	P	59	49.00	0.0
			eS	00	20.90	
KAKJ	3.18	21	eP	59	53.40	-0.7
			eS	00	28.20	
TSRJ	3.24	316	P	59	55.80	0.7
MAT	3.32	352	eP	59	56.00	-0.3
			eS	00	32.00	
MTMJ	3.43	347	P	59	57.90	0.1
			eS	00	35.00	
NIIJ	3.99	3	eP	00	06.60	0.9
YAMJ	5.03	12	eP	00	21.60	1.1
OFUJ	6.28	21	eP	00	36.20	-2.0
CHTO	38.31	258	eP	06	25.00	-0.9
	1.0s	1.50nm			3.7mb	

03d 15h

```
INK     58.74  26 eP     09 05.00   1.8
      S.D. = 1.2  on  11 of  11 obs.
-----------------------------------------
&  SEP  03, 1991  15h 35m 07.00s
   58.577 N          143.658 W
   DEPTH =  10.0km  (geophysicist)
 GULF OF ALASKA                    ( 15)
      <AEIC>. ML 2.8 (AEIC).

KAIM    1.41 344 eP     35 28.03  -4.6
                 S      35 43.79
CYK     1.63  21 eP     35 30.40  -5.3
                 S      35 50.80
SNH     1.66  14 eP     35 31.72  -4.6
                 S      35 50.51
WRG     1.69  29 eP     35 32.09  -4.6
HMT     1.79 350 eP     35 33.50  -4.7
                 S      35 54.83
RAGM    1.89 344 eP     35 34.74  -4.9
WAX     1.92  12 eP     35 35.19  -5.0
YAH     2.04  28 eP     35 37.28  -4.7
SGAM    2.09 338 eP     35 37.81  -4.6
                 eS     36 03.07
CROM    2.20   7 iP     35 39.05  -5.3
TGL     2.23  11 eP     35 39.31  -5.3
CVA     2.24 333 eP     35 40.71  -4.0
                 S      36 05.66
HIN     2.33 323 eP     35 39.50  -6.5
                 S      36 07.77
FID     2.61 328 eP     35 44.76  -5.1
                 eS     36 16.69
CTGM    2.67  25 eP     35 45.76  -5.2
KNIM    2.74 312 eP     35 45.94  -5.8
                 eS     36 16.84
GLB     2.88 359 eP     35 48.31  -5.4
                 eS     36 18.55
VZW     2.89 331 eP     35 48.19  -5.7
                 eS     36 20.62
GLI     2.89 324 eP     35 47.38  -6.6
                 eS     36 21.87
VLZ     2.90 333 eP     35 48.24  -5.7
KLU     3.14 340 eP     35 52.11  -5.3
                 eS     36 27.39
SEW     3.34 300 eP     35 53.94  -6.3
KNK     3.73 322 eP     36 00.76  -5.1
SLKM    3.86 303 eP     36 01.87  -5.9
CNPM    4.03 287 eP     36 05.00  -5.0
PLRM    4.08 320 eP     36 07.02  -3.7
GHO     4.15 323 eP     36 07.91  -3.9
SUA     4.58 312 eP     36 15.45  -2.6
RDT     4.88 298 eP     36 16.40  -5.8
REF     4.99 296 eP     36 18.18  -5.6
      30 obs. associated
-----------------------------------------
*  SEP  03, 1991  15h 42m 12.27± 2.02s
   32.895 S ±13.3km   71.552 W ±11.2km
   DEPTH =  10.0km  (geophysicist)
 NEAR COAST OF CENTRAL CHILE       (135)

IHA     0.15 210 iPc    42 16.80   1.0
                 iS     42 22.80
ROCH    0.46 100 iPd    42 22.20   0.5
                 iS     42 31.50
LCCH    0.58 181 iPd    42 23.70  -0.3
                 iS     42 35.00
PEL     0.77 109 iPd    42 27.30   0.0
                 iS     42 40.50
JACH    0.84  76 iPd    42 26.80  -1.7
                 iS     42 40.00
TACH    0.91 146 iPd    42 30.00   0.2
                 iS     42 44.50
SAN     0.93 127 iP     42 30.50   0.4
                 iS     42 46.00
LNV     1.66 174 iP     42 30.50  -1.8
                 iS     42 48.50
PCH     1.13 130 iP     42 33.70   0.2
                 iS     42 52.50
CHCH    1.28 144 iPc    42 36.10   0.0
MDZ     2.27  90 iP     42 51.90   1.4
                 iS     43 25.40
      S.D. = 1.1  on  11 of  11 obs.
-----------------------------------------
   SEP  03, 1991  16h 30m 50.06± 0.69s
   43.019 N ± 8.7km    0.352 W ± 3.6km
   DEPTH =  10.0km  (geophysicist)
 PYRENEES                          (378)
      ML 1.3 (STR).

JAU     0.02 326 Pg     30 51.79  -0.4
BTH     0.15  46 iPgc   30 52.80  -0.7
ESCF    0.17 290 Pg     30 53.87  -0.1
                 Sg     30 56.49
LHE     0.22 242 Pg     30 55.32   0.4
                 Sg     30 59.03
ATE     0.26 285 Pg     30 55.52  -0.1
                 Sg     30 59.55
ISSF    0.33 272 Pg     30 57.12   0.3
                 Sg     31 02.06
MADF    0.37 290 Pg     30 57.27  -0.3
                 Sg     31 03.06
BOH     0.49 280 Pg     31 00.15   0.1
ELYF    0.49 288 Pg     31 00.00  -0.1
                 Sg     31 06.93
EPF     0.51  88 Pg     31 00.00  -0.4
                 Sg     31 07.80
LPO     2.00  33 Pg     31 25.60   1.3
                 Sg     31 52.00
      S.D. = 0.6  on  11 of  11 obs.
-----------------------------------------
%  SEP  03, 1991  17h 16m 40.02± 1.07s
   45.674 N ±16.1km    5.639 E ± 8.5km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                            (538)
      ML 2.2 (LDG).

LPL     0.78 101 Pg     16 55.40   0.0
LPG     0.80 102 Pg     16 55.70  -0.1
                 Sg     17 09.00
SMF     1.58 309 Pg     17 07.50  -0.7
                 Sg     17 26.20
LBF     1.74 319 Pg     17 10.20  -0.4
                 Sg     17 30.00
8GF     2.13 295 Pg     17 17.00   0.8
BSF     2.30  20 Pg     17 19.00   0.3
                 Sg     17 47.00
      S.D. = 0.7  on   6 of   6 obs.
-----------------------------------------
*  SEP  03, 1991  17h 26m 55.90± 1.60s
   32.931 S ±11.2km   71.520 W ± 9.3km
   DEPTH =  10.0km  (geophysicist)
 NEAR COAST OF CENTRAL CHILE       (135)

IHA     0.14 227 eP     27 00.00   0.8
                 iS     27 05.70
ROCH    0.43  96 iPd    27 05.40   0.7
                 iS     27 18.00
LCCH    0.54 184 iPd    27 06.50  -0.4
                 iS     27 17.50
PEL     0.73 107 iPd    27 10.60   0.3
                 iS     27 26.50
JACH    0.82  73 iPd    27 09.50  -2.3
                 iS     27 22.50
TACH    0.87 146 iPd    27 12.90   0.3
                 iS     27 28.00
SAN     0.89 126 iPc    27 13.40   0.4
                 iS     27 29.50
LNV     1.03 175 iP     27 14.00  -1.3
                 iS     27 30.50
PCH     1.09 129 iP     27 16.50   0.1
CHCH    1.23 144 iPc    27 18.70  -0.2
                 iS     27 41.00
MDZ     2.25  90 eP     27 35.40   1.6
                 iS     28 07.80
      S.D. = 1.2  on  11 of  11 obs.
-----------------------------------------
?  SEP  03, 1991  17h 33m 08.31± 2.93s
   20.733 S ±29.0km  177.942 W ±20.6km
   DEPTH = 562.5 ± 33.3 km
   4.8mb ( 14 obs.)
 FIJI ISLANDS REGION               (181)

DZM    14.60 262 iPc    36 13.80   0.5
COO    28.83 244 iPd    38 24.00   0.4
         0.3s     6.00nm          4.7mb
RMO    30.99 253 iPd    38 53.00  11.0X
         0.2s     8.00nm
CMS    34.11 244 iPd    39 09.00   0.9
         0.6s    12.00nm          4.7mb
QLP    35.04 253 iPd    39 16.30   0.4
         0.2s    44.00nm          5.7mb
TOO    35.80 234 iPd    39 23.70   1.6
         0.6s    10.00nm          4.6mb
STK    37.74 244 iPd    39 39.20   1.2
         0.5s     6.70nm          4.5mb
OIS    39.64 262 iPd    39 52.50  -1.1
         0.4s     4.00nm          4.4mb
ASPA   44.52 257 iPd    40 32.10   0.0
         0.6s    55.10nm          5.3mb
                 eS     46 26 90
WR2    44.60 262 iPc    40 31.90  -0.9
         0.6s    50.70nm          5.2mb
WRA    44.62 262 P      40 31.00  -1.9
         0.6s    35.20nm          5.1mb
FORR   49.21 247 eP     41 07.10  -0.5
WAR8   50.81 253 iPd    41 19.10  -0.4
COOL   55.18 246 eP     41 49.60  -1.0
MBL    57.76 258 ePd    42 07.40  -0.9
         0.4s    25.00nm          4.9mb
KLB    58.00 245 eP     42 09.00  -0.9
BAL    59.01 246 eP     42 16.10  -0.5
NANU   61.39 255 eP     42 32.00  -0.3
PLM    79.26  48 ePc    44 17.00  -0.2
IPM    83.25 277 ePd    44 38.90   1.3
         0.9s    36.50nm          4.9mb
ALQ    87.50  51 eP     44 57.30  -0.7
         1.0s     3.00nm          4.0mb
BDT    89.74 288 eP     45 08.70   0.4
CHG    90.37 290 ePd    45 12.60   1.4
         0.9s    10.92nm          4.8mb
CHTO   90.37 290 iPd    45 12.50   1.3
         0.7s     8.10nm          4.8mb
                 pP     47 21.80 595kmX
KSP   147.93 343 iPKP   51 51.70   4.0X
CLL   148.30 347 iPKPd  51 52.10   3.9X
         0.9s    11.00nm
BRG   148.50 346 iPKP   51 53.10   4.6X
PRU   149.17 344 ePKP   51 54.50   4.9X
MOX   149.21 348 iPKP   51 55.00   5.4X
KHC   150.20 345 ePKP   51 57.50   6.3X
      S.D. = 1.0  on  23 of  30 obs.
-----------------------------------------
*  SEP  03, 1991  19h 05m 47.86± 2.21s
   3.880 S ±12.0km  139.946 E ±11.4km
   DEPTH =  51.2 ± 20.3 km
   4.9mb (  6 obs.)
 IRIAN JAYA, INDONESIA             (201)

MNDI    4.33 122 eP     06 53.40   0.3
OIS    16.58 181 eP     09 37.50  -1.0
         0.5s    73.00nm          5.1mb
                 eS     12 40.80
WR2    16.87 198 iPc    09 41.10  -1.1
         0.3s    38.20nm          5.0mb
                 eS     12 50.20
CTAO   17.24 160 iP     09 52.50   5.7X
                 e      12 20.00
ASPA   20.52 196 iPd    10 25.40   0.9
         0.7s   158.30nm          5.5mb
                 iS     14 17.40
RMO    24.01 160 eP     11 11.50  12.5X
                 e      12 50.00
WARB   25.58 209 eP     11 14.50   0.5
MBL    26.02 227 eP     11 19.00   0.9
         0.4s     5.00nm          4.4mb
BRS    26.40 154 eP     11 22.00   0.5
IPM    39.78 282 ePd    13 19.00   1.1
CHTO   46.24 301 eP     14 10.00  -0.2
         1.1s     2.94nm          4.1mb
                 pP     14 21.30  40kmX
GBA    64.40 287 Pd     16 20.90  -0.5
         0.2s     2.90nm          5.0mb
KIC   144.75 275 PKP    25 20.80  -1.0
TIC   145.01 276 PKP    25 21.90  -0.3
LKO   145.33 281 PKP    25 21.88  -0.9
ZOBO  145.78 127 PKP    25 25.00   0.9
SIV   151.33 134 PKP    25 38.00   5.9X
      S.D. = 0.9  on  14 of  17 obs.
-----------------------------------------
*  SEP  03, 1991  19h 29m 54.42± 0.89s
   33.768 N ± 9.2km  139.022 E ±10.1km
   DEPTH =  10.0km  (geophysicist)
   4.4mb (  6 obs.)
 SOUTH OF HONSHU, JAPAN            (211)

IIDJ    1.94 332 P      30 25.40  -2.4
                 S      30 50.30
CHJJ    2.28 359 P      30 32.20  -0.4
KAKJ    2.61  21 P      30 37.90   0.6
MAT     2.85 347 iPd    30 39.80  -0.9
                 eS     31 18.00
MTMJ    2.98 341 P      30 41.70  -1.0
TSRJ    3.06 306 P      30 39.40  -4.3X
```

```
                  eS        31 15.80
NIIJ      3.46 360 eP       30 50.00     0.6
YAMJ      4.47  10 eP       31 03.70    -0.1
OFUJ      5.71  21 eP       31 20.70    -0.7
SHNJ      6.59 275 eP       31 28.20    -5.5X
AOMJ      6.86   9 eP       31 41.90     4.4X
KUMJ      6.98 262 P        31 34.50    -4.7X
KAGJ      7.34 252 eP       31 40.10    -4.1X
MRRJ      8.79  10 eP       32 06.00     1.6
MDJ      13.06 329 eP       33 05.50     3.0X
          1.4s    100.00nm           5.8mb X
     E   15s        1.00um
                  eS        35 34.00
CN2      14.56 317 P        33 24.30     2.1
     Z   12s        1.40um
SNY      14.61 308 Pc       33 29.90     7.0X
          1.2s     40.00nm             4.9mb
     Z   13s        0.50um
     N   13s        1.00um
                  eS        36 17.50
TIA      18.10 284 eP       34 09.20     1.6
BJI      19.29 296 eP       34 22.00    -0.1
          1.2s     12.00nm             4.0mb
     Z   18s        0.35um
     N   13s        0.35um
                  eS        37 52.00
WHN      21.12 268 eP       34 39.00    -2.6
     N   11s        0.50um
TIY      21.91 288 eP       34 48.50    -1.1
     Z   14s        1.00um         4.4MszX
     N   15s        0.60um
HHC      22.90 296 eP       35 02.00     2.6X
     Z   14s        0.70um         4.3MszX
     N   13s        0.40um
     E   11s        0.40um
XAN      24.95 279 eP       35 20.50     1.2
LZH      28.84 285 eP       35 53.00    -2.2
          2.0s     25.00nm             4.7mb
     Z   15s        0.48um         4.2MszX
YAK      28.89 351 eP       35 55.10     0.0
                  e         40 58.00
CD2      29.84 274 eP       36 05.20     1.1
GTA      31.80 292 eP       36 21.00    -0.4
     Z   12s        0.40um         4.3MszX
     E   13s        0.40um
WMO      40.67 300 P        37 37.50     1.0
PKI      46.10 277 P        38 25.20     4.2X
KKN      46.13 278 P        38 25.60     4.6X
GKN      46.58 278 P        38 26.40     1.8
WRA      53.60 185 P        39 13.00    -4.9X
          0.7s      1.20nm             4.0mb
ASPA     57.32 186 eP       39 44.00    -0.9
          1.1s      3.10nm             4.2mb
INK      58.18  26 eP       39 50.00    -0.4
MBC      60.20  16 eP       40 04.00    -0.3
NB2      76.42 337 P        41 45.90     0.4
          1.0s      6.90nm             4.7mb
CLL      82.92 329 eP       42 21.00     0.5
PRU      83.22 328 eP       42 23.50     1.4
KHC      84.27 327 eP       42 27.00    -0.5
ZOBO    150.00  61 PKP      49 47.80     5.0X
     S.D. = 1.3  on  28 of  40 obs.
-----------------------------------------
• SEP  03, 1991   19h 37m 07.64± 1.27s
   40.662 N ±11.5km   15.272 E ±18.0km
   DEPTH =  70.5 ± 13.1 km
 SOUTHERN ITALY                    (390)

SGO       0.11 165 P        37 18.20     0.5
                  eSg       37 21.90
MGR       0.57 158 P        37 20.50    -0.8
                  eSg       37 28.50
CSI       1.18 138 P        37 29.20     0.4
TDS       1.29 140 P        37 30.20     0.0
ROI       1.48 137 P        37 33.80     1.1
BRT       1.48  81 P        37 32.30    -0.5
                  eSg       37 46.70
CZI       1.59 155 P        37 33.50    -0.7
                  eSg       37 53.90
NUR      20.70  13 eP       41 44.00     0.1
     S.D. = 0.9  on   8 of   8 obs.
-----------------------------------------
• SEP  03, 1991   19h 45m 25.61± 2.50s
   21.180 S ±15.3km  178.910 W ±16.7km
   DEPTH = 599.6 ± 27.5 km
   4.7mb ( 16 obs.)
 FIJI ISLANDS REGION               (181)
```

```
DZM      13.65 264 iPc      48 22.80     2.2
KUZ      16.20 196 eP       48 48.70     3.6X
URZ      17.37 191 eP       48 55.70    -0.5
NOZ      17.58 188 eP       48 57.10    -1.1
PGZ      19.81 191 P        49 19.10     0.2
MNG      19.96 193 P        49 20.00    -0.3
THZ      21.65 197 eP       49 35.60    -0.2
KHZ      22.11 195 P        49 39.30    -0.4
LTZ      22.77 197 P        49 45.10    -0.8
WVZ      23.49 199 eP       49 52.10    -0.1
EWZ      23.85 199 P        49 55.20    -0.1
BWZ      25.07 199 P        50 04.90    -1.1
LRCZ     25.72 199 P        50 11.60    -0.4
MHZ      25.73 200 eP       50 11.60    -0.5
TLC      25.91 200 P        50 13.60    -0.1
BRS      26.51 251 iP       50 20.00     1.1
BCZ      27.04 201 eP       50 25.10     1.9
COO      27.82 244 iPc      50 31.40     1.1
          0.2s      2.00nm             4.4mb
CTAO     32.58 266 iPd      51 11.50     0.7
          0.5s     36.36nm             5.3mb
CMS      33.10 245 iPc      51 16.00     1.0
          0.4s      5.00nm             4.5mb
                  eS        56 50.00
OLP      34.05 254 iPd      51 23.10     0.2
          0.2s     29.00nm             5.6mb
                  eS        56 05.00
STK      36.73 245 iPd      51 46.10     1.1
          0.5s      2.10nm             4.0mb
OIS      38.69 263 eP       52 00.30    -0.8
          0.4s      3.00nm             4.2mb
ASPA     43.54 258 iPd      52 39.30    -0.3
          0.7s     33.60nm             5.0mb
WR2      43.64 263 iPc      52 39.50    -0.9
          0.3s     37.30nm             5.4mb
WRA      43.67 263 P        52 39.00    -1.6
          0.3s     41.70nm             5.4mb
FORR     48.21 247 eP       53 14.00    -1.0
WARB     49.82 253 iPd      53 26.10    -0.9
          0.3s      3.00nm             4.4mb
MBL      56.78 258 iPd      54 15.20    -1.1
          0.4s     18.00nm             4.7mb
                  e         54 59.00
KLB      56.99 245 eP       54 16.70    -0.9
SPA      68.95 180 iPc      55 36.00     2.6
          0.9s     21.36nm             4.7mb
CVP      69.75 299 iPc      55 37.00    -1.6
          0.5s     21.00nm             4.9mb
MAT      70.26 324 iPd      55 40.30    -0.9
          0.6s      6.67nm             4.3mb
OFUJ     70.39 328 P        55 41.50    -0.4
IPM      82.41 278 ePd      56 39.20    -8.4X
          1.0s     41.50nm             4.9mb
LOE      86.69 290 eP       57 23.00    14.7X
NVL      87.99 184 (P)      57 14.00     0.5
CHG      89.68 290 eP       57 23.30     1.2
CHTO     89.68 290 iP       57 23.00     0.9
          0.6s      2.95nm             4.4mb
NB2     139.55 352 PKP      03 38.30    -8.6X
          0.7s      0.80nm
EKA     145.75   4 PKPc     03 58.40     0.7
          0.6s      4.50nm
DMU     146.77   9 ePKP     04 01.80     2.4X
DCN     147.26   9 ePKP     04 03.00     2.9X
KSP     148.08 342 iPKPd    04 05.90     4.3X
                  i         04 11.30
CLL     148.52 346 iPKPd    04 06.80     4.6X
          0.7s      9.00nm
                  e         06 31.00
BRG     148.69 344 iPKP     04 07.30     4.8X
WTS     148.92 353 ePKP     04 08.00     5.2X
          0.7s      7.00nm
PRU     149.34 343 ePKP     04 08.50     5.0X
MOX     149.45 347 iPKP     04 09.00     5.3X
ENN     150.23 354 ePKP     04 11.00     6.2X
          0.9s      8.00nm
MEM     150.38 354 PKPd     04 11.00     6.0X
KHC     150.38 343 ePKP     04 11.00     5.8X
CDF     152.38 351 ePKP     04 15.40     7.3X
          0.6s      3.60nm
FLN     152.45   2 ePKP     04 15.30     7.2X
          0.3s      2.15nm
LDF     152.63   2 ePKP     04 15.70     7.3X
GRR     152.81   3 ePKP     04 16.40     7.8X
LPF     153.16   3 ePKP     04 17.10     8.0X
LOR     153.88 356 ePKP     04 20.20    10.1X
          0.4s      1 45nm
```

```
LBF     154.15 355 ePKP     04 21.40    10.9X
     S.D. = 1.1  on  37 of  59 obs.
-----------------------------------------
   SEP  03, 1991   19h 50m 31.24± 0.33s
    4.098 S ± 7.1km  129.738 E ± 9.4km
   DEPTH =  33.0km  (normal)
   5.0mb ( 11 obs.)
 BANDA SEA                         (280)

WR2      16.39 164 iPc      54 14.50    -6.0X
          0.4s     47.80nm             5.0mb
LAT      17.37  99 eP       54 33.00     0.1
OIS      18.97 150 eP       54 49.00    -3.6X
          0.5s     42.00nm             4.9mb
                  eS        58 09.90
ASPA     19.87 169 eP       55 01.40    -1.3
          1.0s     91.40nm             5.0mb
                  iS        58 34.20
WARB     22.16 187 eP       55 28.00     1.9
CTAO     22.62 136 iPc      55 31.00     0.4
          0.9s     69.20nm             5.1mb
                  i         55 37.00
                  e(S)      59 25.00
STK      29.80 159 eP       56 36.70    -0.7
          1.1s      2.00nm           3.8mb X
ADE      31.82 166 e(P)     56 54.20    -1.1
BRS      31.93 139 eP       56 55.00    -1.3
COO      33.62 144 eP       57 12.00     1.0
BFD      34.95 162 eP       57 24.00     1.7
NJ2      37.41 345 Pc       57 45.00     1.9
                  pP        57 54.00    30kmX
WHN      37.46 338 eP       57 42.50    -1.0
GYA      37.70 325 P        57 50.40     4.6X
          1.0s     10.00nm             4.6mb
CHG      37.92 308 ePc      57 49.00     1.4
          0.9s     22.90nm             5.0mb
CHTO     37.92 308 iP       57 48.80     1.2
          0.9s     19.39nm             5.0mb
KMI      39.13 319 Pd       58 00.00     2.1
          2.5s     70.00nm             5.0mb
MAT      41.20  10 eP       58 14.00    -0.5
XAN      42.72 334 eP       58 27.00    -0.1
CD2      42.74 326 eP       58 31.00     3.7X
TIY      44.60 340 eP       58 42.20    -0.1
BJI      45.66 345 eP       58 50.00    -0.6
LZH      46.75 331 eP       58 58.00    -1.5
          2.0s     42.00nm             5.1mb
                  sP        59 12.00
SHL      47.09 311 eP       59 02.70     0.4
HHC      47.73 341 eP       59 07.40     0.3
LSA      49.96 315 iPc      59 25.20     0.3
GTA      51.33 330 Pc       59 35.20     0.5
          1.2s     10.00nm             4.7mb
GUN      52.88 310 P        59 46.68    -0.2
PKI      53.08 309 P        59 47.60    -0.7
KKN      53.28 309 P        59 49.32    -0.4
DMN      53.33 309 P        59 49.44    -0.7
GKN      53.88 309 P        59 53.04    -1.0
GBA      54.80 290 Pc       59 59.20    -1.5
          0.7s      8.10nm             4.9mb
HYB      54.84 295 eP       00 00.00    -1.1
WMO      60.84 326 P        00 43.00     0.1
YAK      65.93 360 iP       01 16.30     0.5
MAIO     76.67 309 eP       02 21.00    -0.1
INK      96.28  22 eP       03 57.00    -0.3
MBC      98.86  13 eP       04 12.00     3.2X
CNCB    152.83 140 PKP      10 26.70     6.1X
LPB     152.96 140 ePKP     10 34.00    13.3X
ZOBO    153.14 139 PKP      10 26.00     4.9X
SIV     157.35 152 (PKP)    10 34.00     7.9X
     S.D. = 1.1  on  34 of  43 obs.
-----------------------------------------
? SEP  03, 1991   19h 59m 41.28± 2.67s
   21.704 S ±29.0km   67.708 W ±20.6km
   DEPTH = 220.5 ± 27.6 km
 CHILE-BOLIVIA BORDER REGION       (124)

CCH       4.55  19 P        00 54.10     2.7
CNCB      4.88 357 P        00 55.20    -0.6
LPB       5.16 356 eP       00 58.00    -1.2
ZOBO      5.42 356 P        01 02.80     0.1
ARE       6.32 325 eP       01 14.00     0.0
                  iS        02 20.00
SIV       8.47  49 P        01 40.40    -1.2
ITB1     12.60 106 Pd       02 34.50     0.4
PPD      15.23  94 eP       03 06.00    -0.7
VAO      19.23  98 eP       03 47.20    -3.8X
```

03d 20h

		e	03 49.40			
KIC	67.69	73 P	10 17.70	0.6		
S.D. = 1.5	on	9 of 10 obs.				

% SEP 03, 1991 20h 26m 05.30± 0.77s
3.912 N ±12.5km 76.414 W ±12.5km
DEPTH = 33.0km (normol)
COLOMBIA (103)
MD 2.4 (UVC).

CLMC	0.15	258 iPc	26 11.28	-0.4		
		eS	26 13.90			
BUGC	0.16	97 iPd	26 11.70	0.0		
		eS	26 14.60			
HODC	0.49	206 eP	26 15.85	-0.2		
		eS	26 21.90			
HOBC	0.52	32 eP	26 16.39	0.1		
ANCC	0.60	229 ePc	26 17.78	0.4		
S.D. = 0.4	on	5 of 5 obs.				

? SEP 03, 1991 20h 39m 36.45±10.81s
45.144 N ±50.9km 2.806 E ±89.5km
DEPTH = 5.0km (geophysicist)
FRANCE (538)
ML 2.0 (LDG).

CAF	0.57	248 Pg	39 47.20	-0.6		
		Sg	39 57.00			
MAF	1.09	351 Pg	39 57.00	-0.4		
		Sg	40 13.00			
TCF	1.22	340 Pg	40 00.00	0.4		
		Sg	40 17.00			
LPO	1.24	249 Pg	40 00.60	0.7		
		Sg	40 18.00			
S.D. = 1.1	on	4 of 4 obs.				

? SEP 03, 1991 20h 45m 08.70± 5.85s
0.029 S ±88.9km 19.909 W ±18.1km
DEPTH = 10.0km (geophysicist)
4.5mb (6 obs.) 4.0Msz (1 obs.)
CENTRAL MID-ATLANTIC RIDGE (406)

LIC	16.10	67 P	48 57.92	1.1		
		S	51 49.00			
		TT	01 40.00			
TIC	16.27	66 P	48 59.20	0.2		
KIC	16.41	67 P	49 00.56	-0.3		
LKO	17.14	56 P	49 08.90	-1.1		
	0.8s	24.50nm		4.4mb		
TOL	42.28	18 iP	53 06.00	1.9X		
	1.0s	30.00nm		5.0mb		
EPF	46.56	20 eP	53 40.00	1.5X		
	1.1s	7.35nm		4.6mb		
AVF	50.88	20 eP	54 12.50	0.6		
LPG	51.08	24 eP	54 14.70	0.9		
LPL	51.09	24 eP	54 14.60	0.9		
SSF	51.17	20 eP	54 14.60	0.5		
LBF	51.27	21 eP	54 15.20	0.3		
	0.7s	2.20nm		4.2mb		
LOR	51.47	21 eP	54 16.70	0.3		
	0.7s	3.30nm		4.4mb		
Z	22s	0.15um		4.0Msz		
HAU	52.99	22 eP	54 27.50	-0.3		
	0.7s	4.15nm		4.5mb		
Z	10s	0.10um		4.2MszX		
CDF	53.68	22 eP	54 32.30	-0.6		
MOX	57.16	23 e(P)	54 57.00	-1.0		
ZST	57.73	28 eP	55 01.20	-0.8		
SPC	59.93	29 eP	55 16.80	-0.7		
MAIO	81.47	53 eP	57 36.00	8.0X		
WRA	147.91	130 PKP	05 06.00	12.4X		
	0.5s	1.10nm				
S.D. = 0.8	on	15 of 19 obs.				

---

* SEP 03, 1991 20h 48m 23.60± 1.28s
44.426 N ±11.4km 14.682 E ±17.3km
DEPTH = 10.0km (geophysicist)
ADRIATIC SEA (382)
MD 2.7 (TRI).

RIY	0.94	347 iPn	48 53.60	12.1X		
VBY	1.15	21 e(Pg)	48 45.00	-0.1		
		e(Sg)	48 56.40			
TRI	1.44	333 ePg	48 49.30	-0.4		
		iSg	49 09.70			
LJU	1.62	356 eP	48 52.50	0.2		
		e(Sg)	49 14.00			
VOY	1.70	341 ePn	48 53.80	0.3		
		eSn	49 17.10			
HVAR	1.79	134 ePn	48 54.70	0.0		
		iSn	49 19.80			
S.D. = 0.4	on	5 of 6 obs.				

SEP 03, 1991 22h 05m 16.56± 0.80s
37.958 N ± 8.2km 20.881 E ± 5.2km
DEPTH = 10.0km (geophysicist)
3.8mb (1 obs.)
IONIAN SEA (399)
ML 3.6 (ATH).

VLS	0.32	314 iPgd	05 23.50	0.3		
AGG	1.56	46 ePc	05 44.14	-0.2		
		eS	06 08.14			
KEK	1.95	335 ePn	05 50.50	0.5		
VLI	2.05	126 ePb	05 52.00	0.5		
ATH	2.24	89 ePn	05 53.70	-0.5		
KZN	2.45	16 ePb	06 00.50	3.3X		
LIT	2.48	30 ePd	05 59.42	1.8		
FNA	2.85	8 iPc	06 02.98	0.0		
OHR	3.15	359 ePn	06 07.50	0.3		
GRG	3.22	21 ePc	06 07.90	-0.2		
LCI	3.29	317 P	06 11.00	1.9		
SOH	3.44	33 ePd	06 12.54	1.2		
KNT	3.56	25 ePc	06 12.22	-0.7		
VAY	3.60	21 ePn	06 13.00	-0.6		
ROI	3.74	297 P	06 22.80	7.2X		
SOI	3.81	273 P	06 16.50	-0.1		
CZI	3.93	290 P	06 16.50	-1.7		
SKO	4.03	6 ePn	06 17.00	-2.6		
BRT	4.08	317 P	06 19.00	-1.3		
ATN	4.28	274 P	06 23.00	-0.3		
SGO	5.04	303 P	06 35.50	1.5		
		eSn	07 32.70			
EKA	23.77	325 P	10 33.00	3.3X		
	0.9s	2.80nm		3.8mb		
S.D. = 1.2	on	19 of 22 obs.				

SEP 03, 1991 22h 54m 28.32± 0.54s
47.674 N ± 5.6km 6.410 E ± 4.8km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.6 (LDG), 2.2 (STR).

BSF	0.30	58 Pg	54 35.50	0.8		
		Sg	54 41.50			
HAU	0.33	353 Pg	54 35.40	0.2		
		Sg	54 41.30			
LOMF	0.43	139 Pg	54 36.03	-1.1		
		Sg	54 42.15			
MOF	0.52	70 Pg	54 39.08	0.2		
		Sg	54 47.93			
VITF	0.61	332 Pg	54 39.43	-1.3		
		Sg	54 48.36			
ECH	0.74	43 Pg	54 42.96	0.1		
		Sg	54 54.04			
BBS	0.77	105 Pg	54 43.18	-0.3		
		Sg	54 53.89			
CDF	0.94	38 Pg	54 46.83	0.5		
		Sg	55 00.70			
FEL	1.10	79 ePg	54 46.95	-2.1		
GWF	1.53	31 Pg	54 57.19	1.4		
LOR	1.78	258 Pg	54 57.60	-1.7		
		Sg	55 18.40			
LBF	1.79	248 Pn	54 53.30	-6.3X		
		Pg	54 58.40			
		Sg	55 19.00			
SMF	2.03	241 Pg	55 02.70	-0.3		
		Sg	55 25.80			
SSF	2.07	254 Pg	55 04.00	0.5		
		Sg	55 26.40			
LPL	2.17	174 Pg	55 07.20	2.0		
		Sg	55 33.00			
AVF	2.26	248 Pg	55 07.40	1.1		
		Sg	55 34.60			
BGF	2.68	247 Pn	55 05.60	-6.6X		
		Pg	55 15.00			
		Sg	55 46.70			
MAF	3.01	243 Pg	55 20.60	3.7X		
		Sg	55 57.00			
S.D. = 1.2	on	15 of 18 obs.				

? SEP 03, 1991 23h 03m 01.91± 0.52s
20.941 S ±22.4km 175.434 W ±17.1km
DEPTH = 75.5km (5 depth phases)
4.7mb (8 obs.)
TONGA ISLANDS (173)

DZM	16.90	263 iPc	07 01.50	6.3X		
RMO	33.18	253 eP	09 45.00	11.5X		
CTAO	35.84	264 iPc	10 16.00	19.7X		
	0.8s	22.57nm				
STK	39.77	245 iPd	10 29.70	0.6		
	0.4s	1.80nm		4.4mb		
ASPA	46.76	257 iPc	11 43.80	18.1X		
	0.6s	17.00nm				
WR2	46.89	262 eP	11 26.30	-0.5		
	0.4s	4.80nm		4.8mb		
WRA	46.92	262 P	11 35.00	8.0X		
	0.5s	1.80nm		4.3mb		
SPA	69.19	180 iPc	14 02.20	-0.1		
	1.2s	27.46nm		5.1mb		
PLM	77.67	47 eP	14 52.30	0.1		
TNP	80.19	43 ePc	15 06.50	0.6		
	0.7s	5.56nm		4.6mb		
		e	15 28.30	82km		
PV09	85.72	46 e(P)	15 34.80	0.5		
		e	15 55.50	76km		
ALO	85.82	50 eP	15 35.00	0.3		
	1.0s	8.25nm		4.7mb		
		e	15 55.00	73km		
ANMO	85.82	50 eP	15 34.50	-0.2		
		e	15 55.30	76km		
GOL	88.86	47 e(P)	15 48.00	-1.4		
RSSD	91.82	43 eP	16 03.00	0.1		
	1.0s	7.59nm		5.1mb		
		e	16 22.90	71km		
CHTO	92.65	289 e(P)	16 16.90	9.9X		
	0.7s	2.86nm		4.8mb		
EKA	145.17	8 PKPd	22 31.60	-0.4X		
	0.7s	3.30nm				
KSP	148.76	346 iPKP	22 42.80	4.8X		
		i	23 03.00			
CLL	148.98	350 iPKPc	22 43.00	4.8X		
		i	23 03.30			
BRG	149.23	348 ePKP	22 44.00	5.3X		
		e	23 04.00			
MOX	149.84	351 iPKP	22 45.40	5.8X		
	1.2s	11.00nm				
PRU	149.95	347 ePKP	22 45.30	5.5X		
		e	23 05.50			
MEM	150.37	358 PKPc	22 46.20	5.9X		
GRF	150.83	351 ePKP	22 48.00	6.9X		
	0.9s	4.00nm				
KHC	150.96	348 ePKP	22 48.00	6.6X		
		e	23 08.00			
WLF	151.31	358 iPKPd	22 49.36	7.6X		
FLN	151.95	7 ePKP	22 49.50	6.7X		
LDF	152.15	7 ePKP	22 50.00	6.9X		
GRR	152.27	8 ePKP	22 50.50	7.2X		
	0.5s	4.35nm				
CDF	152.51	356 ePKP	22 51.40	7.7X		
LPF	152.60	8 ePKP	22 51.20	7.5X		
	0.5s	5.10nm				
HAU	152.96	357 ePKP	22 52.20	7.9X		
BSF	153.11	357 ePKP	22 52.40	7.8X		
LOR	153.73	1 ePKP	22 53.80	8.4X		
	0.7s	2.75nm				
SSF	153.93	2 ePKP	22 54.30	8.7X		
BGF	154.41	3 ePKP	22 56.20	9.9X		
S.D. = 0.7	on	10 of 36 obs.				

SEP 03, 1991 23h 18m 26.24± 0.55s
47.627 N ± 5.1km 6.322 E ± 4.2km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.0 (LDG), 1.7 (STR).

BSF	0.38	57 Pg	18 34.40	0.4		
		Sg	18 40.40			
HAU	0.38	3 Pg	18 34.20	0.2		
		Sg	18 40.00			
LOMF	0.44	129 Pg	18 35.18	-0.1		
		Sg	18 41.31			
MOF	0.59	67 Pg	18 38.18	-0.1		
		Sg	18 47.45			
VITF	0.63	339 Pg	18 38.50	-0.5		
		Sg	18 47.36			
CDF	1.01	39 Pg	18 45.57	0.1		
FEL	1.17	77 ePn	18 47.87	-0.3		
LOR	1.71	259 Pg	18 56.50	0.2		
		Sg	19 16.70			

LBF 1.72 249 Pg 18 56.40 0.0
Sg 19 17.50
S.D. = 0.3 on 9 of 9 obs.

SEP 04, 1991 00h 08m 31.24± 1.39s
50.993 N ±13.0km 2.559 E ± 5.7km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.5 (LDG).

UCC 1.16 99 iP 08 52.00 -0.8
SNF 1.20 113 iP 08 53.26 -0.3
MEM 2.22 99 iP 09 10.30 1.7
WLF 2.66 119 iP 09 21.00 6.2X
LDF 2.96 217 Pn 09 19.40 0.2
FLN 2.98 223 Pn 09 19.40 0.1
Pg 09 29.00
GRR 3.42 222 Pn 09 25.50 -0.2
LPF 3.78 220 Pn 09 30.00 -0.8
LOR 3.82 167 Pn 09 32.00 0.5
Pg 09 46.20
Sg 10 40.00
SSF 3.98 171 Pn 09 34.20 0.5
CDF 4.01 128 Pn 09 33.00 -1.0
LBF 4.12 166 Pn 09 35.40 -0.2
BSF 4.20 137 Pn 09 36.40 -0.4
AVF 4.24 173 Pn 09 38.00 0.7
SMF 4.43 168 Pn 09 40.00 -0.1
BGF 4.44 177 Pn 09 40.60 0.4
MAF 4.78 180 Pn 09 44.50 -0.5
S.D. = 0.7 on 16 of 17 obs.

% SEP 04, 1991 00h 15m 23.74± 0.92s
45.656 N ±11.9km 26.981 E ± 9.5km
DEPTH = 33.0km (normal)
ROMANIA (358)

BRD 0.15 161 iPc 15 29.60 -0.3
VRI 0.28 320 iPd 15 31.00 -0.3
ISR 0.60 211 iPc 15 35.50 -0.4
PPE 0.71 38 iPc 15 44.00 6.6X
MLR 0.75 258 iPc 15 38.50 0.5
CFR 0.95 119 iPc 15 41.00 0.3
S.D. = 0.6 on 5 of 6 obs.

SEP 04, 1991 01h 49m 51.38± 0.81s
1.621 N ± 3.9km 126.899 E ± 7.8km
DEPTH = 95.5 ± 7.7 km
4.9mb (15 obs.)
NORTHERN MOLUCCA SEA (266)

MNI 2.07 265 eP 50 25.60 0.4
eS 50 51.20
AAI 5.43 166 eP 51 12.00 0.6
DAV 5.59 346 eP 51 20.00 6.4X
CGP 7.13 342 eP 51 33.50 -1.4
eS 53 04.00
MAP 9.12 342 eP 51 46.00 -16.0X
TSM 9.40 287 ePd 52 05.90 0.1
PLP 9.67 349 eP 52 10.00 0.5
WR2 22.65 161 iPc 54 44.50 -0.9
0.7s 124.50nm 5.4mb
MBL 23.67 197 eP 54 56.00 0.8
0.3s 5.00nm 4.4mb
eS 27 29.00
QIZ 24.05 317 eP 54 58.00 -1.0
N 14s 0.80um
ASPA 26.04 165 iPd 55 17.10 -0.5
0.6s 35.10nm 5.1mb
iS 59 49.80
NANU 26.47 204 eP 55 22.00 0.5
WARB 27.64 180 eP 55 32.00 -0.1
SSE 29.81 350 eP 55 36.00 -15.4X
Z 18s 0.50um 4.2Msz
E 16s 0.50um
eS 00 40.00
esS 00 46.00
NJ2 31.20 347 Pd 56 04.50 0.8
S 01 10.00
CHG 32.29 304 eP 56 31.00 17.6X
0.7s 6.85nm
CHTO 32.29 304 iP 56 13.00 -0.4
0.7s 6.19nm 4.5mb
FORR 32.31 178 eP 56 12.00 -1.3
0.3s 26.00nm 5.5mb
KMI 33.00 317 eP 56 19.50 -0.3
BAL 33.49 196 eP 56 23.70 0.1
KLB 34.15 194 eP 56 28.00 -1.3
MUN 34.92 196 eP 56 36.00 0.1
RMQ 35.01 144 eP 56 47.00 10.2X
NWAO 35.55 194 eP 56 42.00 0.8
STK 36.12 159 iPc 56 45.40 -0.6
0.9s 12.10nm 4.8mb
XAN 36.37 334 P 56 48.00 -0.2
CD2 36.45 325 P 56 48.00 -0.9
TIY 38.30 341 eP 57 05.00 0.6
Z 30s 0.80um 4.4MszX
BJI 39.46 347 eP 57 14.00 0.1
1.0s 34.00nm 5.1mb
SNY 40.14 356 Pc 57 19.60 0.2
0.8s 10.00nm 4.7mb
LZH 40.40 331 eP 57 22.50 0.6
1.8s 38.00nm 4.9mb
Z 30s 0.53um 4.2MszX
pP 57 31.50 30kmX
BFD 41.24 161 eP 57 29.00 0.5
HHC 41.44 342 Pd 57 31.60 1.3
1.2s 30.00nm 5.0mb
Z 36s 0.10um 3.4MszX
S 03 46.00
CNB 42.33 152 eP 57 38.30 0.7
1.0s 20.00nm 4.9mb
MDJ 42.88 3 eP 57 42.00 0.2
LSA 43.97 313 P 57 51.80 0.3
GTA 44.99 330 eP 57 57.00 -2.1
0.6s 10.00nm 4.8mb
Z 26s 0.40um 4.2MszX
E 11s 0.30um
PcP 59 40.00
GUN 47.12 308 P 58 16.40 0.1
PKI 47.34 307 P 58 17.80 -0.3
KKN 47.54 307 P 58 18.20 -1.3
GKN 48.14 307 P 58 19.80 -4.3X
HYB 50.01 291 eP 58 38.00 -0.4
GBA 50.34 286 P 58 41.00 0.2
0.8s 3.10nm 4.4mb
WMQ 54.55 326 P 59 13.00 1.1
1.0s 20.00nm 5.1mb
GAR 63.48 313 eP 00 14.50 0.7
MAIO 70.92 308 iPd 01 02.40 1.8
1.0s 15.00nm 4.8mb
INK 92.05 22 eP 02 50.00 -0.5
SIV 163.70 152 ePKP 09 48.00 3.1X
S.D. = 0.8 on 41 of 48 obs.

? SEP 04, 1991 02h 33m 42.14± 9.51s
18.757 N ±34.7km 64.725 W ±77.6km
DEPTH = 10.0km (geophysicist)
VIRGIN ISLANDS (91)

LPR 1.17 248 iP 34 04.10 0.0
CPD 1.34 238 iP 34 06.90 0.1
SJG 1.50 245 iP 34 08.90 -0.2
CLLP 1.88 249 iP 34 14.50 -0.1
APR 1.92 261 iP 34 15.20 0.0
MGP 2.37 252 iP 34 21.90 0.3
S.D. = 0.2 on 6 of 6 obs.

? SEP 04, 1991 03h 21m 14.57± 6.23s
43.026 N ±11.2km 13.708 E ±49.9km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

ARV 0.73 310 P 21 28.60 -0.4
eSg 21 37.60
ASS 0.77 274 P 21 29.60 0.0
eSg 21 40.70
MNS 0.99 230 P 21 33.30 -0.1
CRE 1.42 296 P 21 41.20 0.7
PGD 1.68 301 P 21 44.00 -0.3
S.D. = 0.6 on 5 of 5 obs.

% SEP 04, 1991 04h 32m 29.86± 2.23s
4.354 N ±18.7km 76.302 W ±12.2km
DEPTH = 10.0km (geophysicist)
COLOMBIA (103)
MD 4.6 (UVC).

HOBC 0.17 90 iPd 32 33.69 0.0
eS 32 36.50
BUGC 0.46 174 iPd 32 39.51 0.3
CLMC 0.54 209 iPc 32 41.25 0.5
eS 32 49.70
HOOC 0.94 201 iPc 32 46.71 -1.3
eS 32 59.30
ANCC 1.01 214 ePc 32 48.57 -0.4
SILC 1.65 181 iPd 32 58.91 -0.5
PURC 2.02 182 ePd 33 05.26 0.4
CUMC 3.72 205 eP 33 30.06 1.0
S.D. = 0.8 on 8 of 8 obs.

SEP 04, 1991 05h 37m 51.83± 0.84s
40.092 N ± 6.6km 29.004 E ± 8.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZI 0.43 56 iPg 38 00.20 -0.5
iSg 38 06.20
YLV 0.55 31 ePg 38 02.50 -0.6
eSg 38 10.50
DST 0.57 211 iPg 38 02.50 -0.9
iSg 38 10.00
GBZT 0.77 26 ePn 38 05.70 -1.2
ISK 0.97 2 ePn 38 10.70 0.4
CTT 1.14 338 iPn 38 14.20 1.0
IR7 17.60 98 ePd 41 56.00 -2.8X
IR5 17.75 99 eP 42 02.50 1.7
IR1 17.76 98 eP 42 00.00 -0.8
IR4 17.99 99 ePc 42 04.50 0.8
S.D. = 1.2 on 9 of 10 obs.

% SEP 04, 1991 05h 41m 30.01± 0.97s
11.496 N ± 7.4km 61.584 W ±31.4km
DEPTH = 33.0km (normal)
WINDWARD ISLANDS (95)

GRW 0.66 354 eP 41 43.56 0.5
eS 41 54.38
TCE 0.81 192 eP 41 43.78 -1.2
eS 41 58.62
TRN 0.86 168 eP 41 45.38 -0.3
eS 42 00.16
TBH 1.13 153 eP 41 48.94 -0.6
eS 42 05.44
TPP 1.18 174 eP 41 52.29 2.1
eS 42 07.21
SVB 1.80 10 eP 41 58.67 -0.5
eS 42 19.95
S.D. = 1.5 on 6 of 6 obs.

% SEP 04, 1991 07h 18m 40.30± 0.55s
39.020 N ± 5.3km 15.681 E ± 8.5km
DEPTH = 25.6 ± 6.5 km
SOUTHERN ITALY (390)

CZI 0.40 61 P 18 48.60 -0.3
TDS 0.82 38 P 18 55.80 0.0
eSg 19 08.10
ATN 0.88 191 P 18 57.30 0.5
eSg 19 09.40
ROI 0.88 51 P 18 57.50 0.6
CSI 0.89 32 P 18 56.90 -0.1
SOI 0.99 163 P 18 58.10 -0.4
eSn 19 11.80
MGR 1.12 355 P 19 00.40 0.0
eSg 19 16.10
MNO 1.33 216 P 19 03.40 -0.2
SGO 1.56 350 P 19 06.50 -0.1
eSg 19 26.70
S.D. = 0.4 on 9 of 9 obs.

? SEP 04, 1991 07h 48m 31.70± 7.34s
2.686 N ±36.3km 78.303 W ±89.2km
DEPTH = 33.0km (normal)
NEAR WEST COAST OF COLOMBIA (102)
MD 4.1 (UVC).

ANCC 1.65 60 ePd 48 58.97 0.1
eS 49 19.00
CUMC 1.77 166 ePc 49 00.93 0.0
eS 49 22.40
HOOC 1.84 65 eP 49 01.70 -0.1
eS 49 23.40
CLMC 2.10 56 eP 49 05.37 -0.1
HOBC 2.73 52 eP 49 14.24 0.0
S.D. = 0.1 on 5 of 5 obs.

? SEP 04, 1991 07h 57m 21.72± 3.05s
4.470 N ±34.6km 76.118 W ±31.2km
DEPTH = 33.0km (normal)
COLOMBIA (103)

04d 07h

MD 2.7 (UVC).

HOBC	0.12	189	iPd	57 27.78	0.0
			eS	57 30.60	
BUGC	0.59	194	eP	57 33.70	0.0
			eS	57 40.90	
CLMC	0.73	217	eP	57 35.22	-0.6
			eS	57 43.70	
HOOC	1.12	207	eP	57 41.52	0.1
			eS	57 54.60	
ANCC	1.21	218	eP	57 42.88	0.5

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

SEP 04, 1991 08h 32m 33.52± 0.37s
10.746 N ± 5.8km 92.843 E ± 6.5km
DEPTH = 33.0km (normal)
5.1mb (27 obs.)
ANDAMAN ISLANDS, INDIA (703)

KHT	6.90	54	eP	34 17.40	2.4
NNT	6.99	74	iPd	34 18.80	2.5
SNG	8.46	114	eP	34 39.40	2.6
			eS	36 37.00	
BDT	8.80	42	eP	34 40.90	-0.6
	0.8s		54.00nm	5.8mb	
CHG	9.95	36	iPd	34 58.00	0.5
	1.1s		44.30nm	5.6mb	
CHTO	9.95	36	iP	34 57.90	0.5
IPM	10.16	126	ePd	35 05.00	4.7X
	0.8s		25.00nm	5.5mb	
SHL	14.77	357	iP	35 57.40	-4.7X
			eS	38 32.00	
HYB	15.36	297	eP	36 13.10	3.4X
			e	36 18.00	
			eS	38 46.00	
KMI	17.11	32	Pc	36 32.50	0.5
	1.0s		90.00nm	4.9mb	
PKI	18.14	338	P	36 46.20	1.2
DMN	18.29	338	P	36 47.66	0.9
	0.7s		351.00nm	5.6mb	
GUN	18.29	340	P	36 47.64	0.8
	0.8s		245.00nm	5.4mb	
QIZ	18.37	61	eP	36 46.80	-0.7
KKN	18.39	338	P	36 48.74	0.8
	0.7s		153.00nm	5.3mb	
GKN	18.82	337	P	36 53.58	0.4
LSA	18.92	355	iPc	36 52.80	-2.0
	0.8s		80.00nm	5.0mb	
POO	19.93	295	iPc	37 12.20	6.5X
			iS	40 42.50	
GYA	20.36	38	iPd	37 11.40	1.2
	1.0s		20.00nm	4.4mb	
			S	40 54.00	
CD2	22.48	25	P	37 29.60	-1.9
NDI	23.08	323	iPc	37 40.00	2.7
LZH	27.13	20	eP	38 10.00	-5.8X
XAN	27.46	30	P	38 14.50	-4.2X
GTA	29.21	11	iPd	38 32.70	-1.8
	0.8s		10.00nm	4.6mb	
			pP	38 37.70	17kmX
			PcP	41 41.00	
			S	43 16.60	
QUE	30.89	313	iPd	38 52.10	2.5
WMO	33.25	353	P	39 09.00	-1.0
			eS	44 22.50	
HHC	34.24	26	eP	39 15.20	-3.3X
GAR	34.57	328	iP	39 21.50	0.0
MBL	41.34	140	eP	40 18.00	-0.1
	0.3s		14.00nm	5.2mb	
CN2	43.35	35	eP	40 32.50	-1.8
WARB	49.27	139	eP	41 21.00	-0.4
WRA	50.98	127	P	41 33.00	-1.5
	0.5s		8.50nm	5.0mb	
WR2	51.00	127	iPc	41 33.50	-1.1
	0.3s		25.90nm	5.7mb	
			eS	48 46.90	
ASPA	52.74	131	eP	41 46.50	-1.3
	0.5s		21.30nm	5.4mb	
			e	42 57.00	
FORR	53.44	142	eP	41 52.50	-0.2
	0.3s		20.00nm	5.6mb	
QIS	55.52	124	iPd	42 06.70	-1.4
	0.5s		4.00nm	4.7mb	
QLP	62.18	128	iPd	42 54.30	-0.1
	0.3s		30.00nm	5.9mb	
ADE	62.85	139	iPc	42 59.10	0.4
STK	63.01	134	iPc	42 59.70	0.0
	0.8s		4.80nm	4.7mb	
VRI	65.76	316	ePc	43 16.00	-1.5
CMS	65.85	132	eP	43 18.00	-0.2
MLR	66.24	315	eP	43 20.00	-0.7
TOO	68.82	137	iPc	43 38.00	1.1
	0.4s		16.00nm	5.4mb	
BRS	69.33	125	iPc	43 40.50	0.3
	0.9s		6.90nm	4.7mb	
COO	69.99	128	iPc	43 45.00	0.8
	0.5s		13.00nm	5.3mb	
SLR	72.50	239	iPd	44 02.00	2.5
ZST	72.56	317	eP	44 19.30	20.0X
			e	17 09.40	
KSR	73.71	239	eP	44 09.50	2.8
BRG	74.74	320	e(P)	44 20.20	8.3X
APO	75.26	330	eP	44 12.80	-1.9
	0.4s		1.80nm	4.4mb	
LPG	79.70	315	eP	44 39.80	-0.2
	0.8s		6.70nm	4.7mb	
LPL	79.71	315	eP	44 39.80	-0.2
	0.6s		5.85nm	4.8mb	
LOR	81.52	316	eP	44 48.60	-0.6
	0.6s		2.25nm	4.4mb	
SMF	81.60	316	eP	44 49.00	-0.7
	0.7s		4.40nm	4.6mb	
MAF	82.53	316	eP	44 54.50	0.0
	0.8s		3.35nm	4.5mb	
LDF	83.99	318	eP	44 48.20	-13.7X
	1.0s		6.00nm		
EKA	84.65	325	P	45 29.00	24.0X
	1.0s		4.00nm		
MBC	91.10	7	eP	45 35.00	-0.7
INK	94.60	16	ePc	45 50.30	-1.6
BW06	122.93	20	ePKP	51 27.00	-1.5
	0.6s		1.94nm		
RSSD	123.28	14	ePKPd	51 28.00	-1.1
	0.8s		6.01nm		
ANMO	131.02	21	ePKP	51 44.80	0.6
	0.7s		3.42nm		
ALQ	131.02	21	ePKP	51 44.00	-0.3
	1.0s		4.00nm		
PPD	143.92	247	(PKP)	52 07.00	-1.1
SIV	154.10	256	PKP	52 32.40	8.4X

S.D. = 1.4 on 53 of 65 obs.

& SEP 04, 1991 08h 43m 19.72s
62.974 N 148.264 W
DEPTH = 67.1km
CENTRAL ALASKA (1)
<AEIC>.

RND	0.51	329	iPd	43 32.54	-0.1
			eS	43 42.29	
HUR	0.63	271	iPd	43 33.59	-0.2
			eS	43 44.07	
MCK	0.82	339	ePd	43 36.16	0.1
			eS	43 48.37	
TRF	1.03	298	ePd	43 39.03	0.1
CUT	1.09	239	eP	43 39.23	-0.2
SML	1.17	182	ePc	43 39.94	-0.7
GHO	1.25	195	ePc	43 41.19	-0.5
PAX	1.28	89	ePd	43 41.75	-0.3
TOA	1.30	131	ePc	43 42.48	0.1
BWN	1.32	336	ePd	43 42.00	-0.5
			eS	43 58.79	
SDG	1.33	109	ePd	43 42.65	-0.1
KTH	1.34	297	ePd	43 43.26	0.4
			S	44 00.66	
PLRM	1.45	197	eP	43 43.96	-0.3
			S	44 04.36	
WRH	1.51	3	ePd	43 44.37	-0.7
PWA	1.53	210	eP	43 46.24	0.9
HDA	1.55	22	ePd	43 45.38	-0.3
			S	44 05.09	
KNK	1.57	183	iPd	43 46.36	0.4
			S	44 06.86	
TZL	1.61	124	eP	43 46.97	0.4
NEA	1.65	348	eP	43 46.03	-1.0
CCB	1.69	7	eP	43 46.78	-0.8
SKT	1.82	238	ePd	43 49.38	0.0
PMS	1.84	200	ePc	43 50.57	0.9
KLU	1.85	143	iPd	43 49.50	-0.4
FBA	1.95	6	ePd	43 50.42	-0.7
MDM	1.99	0	ePd	43 51.15	-0.7
VLZ	2.06	153	eP	43 51.73	-1.0
VZW	2.08	156	eP	43 52.28	-0.8
GLI	2.17	165	ePc	43 53.74	-0.6
FID	2.39	158	ePc	43 56.80	-0.5
NCG	2.41	231	eP	43 59.53	1.8
GLB	2.59	124	ePc	44 00.00	-0.2
SLKM	2.64	201	eP	44 01.16	0.3
KNIM	2.65	174	eP	44 02.15	1.2
SEW	2.94	192	eP	44 05.33	0.4

34 obs. associated

---

* SEP 04, 1991 08h 57m 06.03± 0.61s
21.601 S ±16.3km 173.997 W ±10.4km
DEPTH = 38.0km (5 depth phases)
5.0mb (10 obs.)
TONGA ISLANDS (173)

SVA	7.90	295	eP	59 03.20	1.8
VUN	7.95	295	eP	59 03.00	0.9
COO	31.81	247	eP	03 30.00	0.5
CMS	37.09	246	iPd	04 14.00	-0.7
CTAO	37.11	265	ePc	04 12.00	-3.0X
			i	05 35.00	
STK	40.72	246	eP	04 45.20	0.3
	0.6s		3.00nm	4.2mb	
ASPA	47.92	257	eP	05 41.10	-1.8
	1.0s		22.60nm	5.1mb	
	Z 17s		0.50um	4.5MszX	
WR2	48.13	262	iPd	05 42.60	-2.0
	0.9s		14.20nm	5.0mb	
WRA	48.15	262	P	05 42.00	-2.8
	0.9s		10.90nm	4.9mb	
NANU	64.71	254	eP	07 43.00	0.0
SPA	68.53	180	eP	08 09.00	2.3
	0.9s		12.73nm	5.0mb	
PLM	77.15	46	P	08 58.20	0.3
			pP	09 09.80	38km
CMB	77.80	41	P	09 01.00	-0.2
ORV	78.12	39	P	09 02.70	-0.1
			pP	09 13.50	35km
SLKM	84.07	12	P	09 33.50	-0.3
ALO	85.22	50	eP	09 40.50	0.2
	1.1s		6.01nm	4.7mb	
ANMO	85.22	50	P	09 40.70	0.4
	1.0s		6.25nm	4.8mb	
			pP	09 53.00	41km
PNT	85.53	32	eP	09 42.00	0.7
	0.9s		16.00nm	5.2mb	
BALM	86.22	15	P	09 42.60	-2.0
			pP	09 54.90	40km
FBA	88.56	11	P	09 55.30	-0.3
	1.0s		20.00nm	5.4mb	
			pP	10 06.50	36km
SES	90.60	35	eP	10 06.00	0.5
CHG	94.13	288	eP	10 24.30	1.9
CHTO	94.13	288	eP	10 23.90	1.5
	1.2s		8.68nm	5.1mb	
INK	94.39	14	eP	10 20.00	-2.5
KSP	149.72	347	ePKPc	16 55.20	6.9X
CLL	149.85	351	ePKP	16 54.00	5.6X
BRG	150.13	350	e(PKP)	16 56.10	7.2X
SPC	150.23	341	ePKP	17 01.30	12.0X
KHC	151.87	349	ePKP	16 53.00	1.4
			e	17 00.00	
			e	17 17.00	

S.D. = 1.5 on 24 of 29 obs.

? SEP 04, 1991 08h 58m 14.70± 6.47s
11.195 N ±14.7km 62.287 W ±72.8km
DEPTH = 33.0km (normal)
WINDWARD ISLANDS (95)

TCE	0.72	133	eP	58 28.63	0.2
			eS	58 37.71	
TRN	1.02	122	eP	58 32.12	-0.6
			eS	58 43.36	
GRW	1.14	33	eP	58 34.44	0.0
			eS	58 48.83	
TPP	1.20	137	eP	58 35.10	-0.1
			eS	58 49.83	
TBH	1.39	120	eP	58 38.55	0.5
			eS	58 52.91	

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

? SEP 04, 1991 10h 11m 22.15± 0.79s
11.290 S ±18.5km 74.313 W ± 8.6km
DEPTH = 33.0km (normal)
4.0mb (1 obs.)
CENTRAL PERU (116)

```
NNA      2.57 254 iPc    12 02.40  -0.1
        0.6s     5.33nm
                  iS     12 36.50
PT10     2.72 253 eP     12 04.50   0.1
                  eS     12 39.00
ARE      5.83 152 eP     13 01.00  12.2X
ZOBO     7.79 130 P      13 22.00   5.4X
LPB      7.97 132 P      13 47.00  27.9X
                  i      15 48.00
CCH      9.97 128 (P)    14 30.00  43.5X
SIV     13.69 111 P      14 36.40   0.0
AIA     54.33 175 eP     20 43.50  -3.9X
YKA     79.91 342 eP     23 28.60  -0.4
        0.9s     1.50nm          4.0mb
INK     89.65 341 eP     24 18.00   0.4
     S.D. = 0.4  on   5 of  10 obs.
-----------------------------------------
   SEP  04, 1991  10h 55m 30.32± 0.77s
   14.674 N ± 4.0km   60.281 W ± 8.2km
   DEPTH =   9.1 ±  3.5 km
   4.0mb (  1 obs.)
 WINDWARD ISLANDS                  ( 95)
      ML 4.2 (FDF). Felt (II) on
      Martinique.

MVM      0.61 259 iPd    55 43.03   0.5
CRM      0.62 277 iPd    55 43.10   0.3
BIM      0.78 259 iPd    55 45.75   0.1
FDF      0.84 274 iPd    55 46.61  -0.1
        0.1s     4.53nm
                  S      55 57.20
CXM      0.87 279 eP     55 47.67   0.4
PML      0.88 277 eP     55 47.32   0.0
SLW      0.91 224 iPd    55 47.10  -0.7
                  S      55 55.80
PCM      0.91 279 eP     55 46.75  -1.1
SLB      1.12 221 eP     55 51.26  -0.2
                  eS     56 02.75
BBL      1.43 306 eP     55 56.00  -0.5
                  S      56 14.10
SOA      1.54 213 eP     55 56.63  -1.4
                  eS     56 12.14
MGG      1.59 321 eP     55 57.60  -1.1
SVB      1.68 214 eP     55 58.81  -1.2
                  eS     56 16.62
DEG      1.79 335 eP     56 00.20  -1.5
                  S      56 23.30
SFG      1.80 331 eP     56 00.70  -1.0
DOG      1.87 316 eP     56 01.90  -0.8
PAG      1.91 315 eP     56 02.00  -1.4
                  S      56 28.40
SEG      2.08 326 eP     56 05.50  -0.4
BPA      2.80 327 eP     56 18.07   1.9
                  eS     56 46.89
BPA      2.80 327 eP     56 14.40  -1.8
GRW      2.84 208 eP     56 16.90   0.2
                  eS     56 45.52
CPB      3.30 333 eP     56 23.48   0.3
                  eS     56 57.39
TRN      4.15 195 eP     56 34.52  -0.7
                  eS     57 18.94
TCE      4.21 200 eP     56 34.55  -1.5
                  eS     57 19.41
TBH      4.24 191 eP     56 38.26   1.8
                  eS     57 21.00
TPP      4.48 195 eP     56 40.70   0.8
                  eS     57 26.48
SIV     30.48 182 P      01 45.60  -0.4
ZOBO    31.71 194 eP     01 56.00  -1.4
YKA     60.99 334 eP     05 48.70   2.6
        0.6s     0.70nm          4.0mb
INK     70.28 338 eP     06 52.00   6.4X
     S.D. = 1.2  on  29 of  30 obs.
-----------------------------------------
*  SEP  04, 1991  11h 41m 20.71± 1.11s
   33.148 S ±15.7km   69.693 W ±11.8km
   DEPTH =  27.6 ± 10.5 km
 CHILE-ARGENTINA BORDER REGION    (127)

MDZ      0.76  70 iP     41 36.40   1.1
                  iS     41 50.20
PCH      0.83 235 iPd    41 38.80   2.2X
                  iS     41 56.00
PEL      0.83 270 iPc    41 38.00   1.5
                  iS     41 55.10
SAN      0.87 249 iPc    41 38.70   1.7
                  iS     41 55.70

JACH     0.89 301 iPc    41 38.10   0.7
                  iS     41 55.00
CHCH     1.12 225 iPd    41 41.20   0.5
                  iS     42 01.50
ROCH     1.12 279 iPc    41 41.00   0.2
                  iS     42 00.00
TACH     1.16 244 iPc    41 41.10   0.0
                  iS     42 00.50
LCCH     1.61 258 iPc    41 45.60  -1.9
                  iS     42 08.00
LNV      1.65 240 iPc    41 45.90  -2.2
                  iS     42 09.50
ZON      1.81  29 eP     41 49.00  -1.6
                  eS     42 13.00
     S.D. = 1.7  on  10 of  11 obs.
-----------------------------------------
   SEP  04, 1991  11h 47m 52.78± 0.96s
   46.985 N ± 8.2km    9.530 E ± 7.8km
   DEPTH =  10.0km  (geophysicist)
 SWITZERLAND                       (544)
      ML 2.5 (VIE).

VDL      0.50 185 ePc    48 02.50  -0.5
OSS      0.52 125 ePc    48 02.40  -0.9
TMA      0.99 208 ePd    48 12.70   1.0
OGA      1.03  96 iPgd   48 11.80  -0.6
SLE      1.05 318 ePd    48 11.90  -0.7
WTTA     1.47  78 iPgd   48 21.10   1.7
                  iSn    48 37.50
                  iSg    48 43.50
DIX      1.72 239 ePd    48 26.40   3.2X
     S.D. = 1.4  on   6 of   7 obs.
-----------------------------------------
   SEP  04, 1991  12h 59m 46.25± 0.65s
   23.638 N ± 5.1km  121.367 E ± 7.5km
   DEPTH =  10.0km  (geophysicist)
   4.4mb (  8 obs.)
 TAIWAN                            (244)

TWF1     0.29 193 iPc    59 53.10   0.7
                  eS     59 57.90
TWD      0.49  25 iPc    59 56.20   0.1
                  eS     00 03.10
TWO      0.80 323 iPc    00 01.30  -0.5
                  eS     01 12.50
TWG      0.86 199 ePc    00 03.60   0.8
TWK      0.89 246 iPc    00 03.30   0.0
                  eS     01 16.30
TWC      1.06  24 ePd    00 06.80   0.6
                  eS     01 22.20
OZH      2.85 298 ePn    00 31.50  -1.0
                  Pg     00 40.00
                  Sn     01 05.00
CVP      5.92 176 eP     01 23.00   6.9X
HKC      6.76 260 eP     01 26.00  -2.0
GZH      7.39 267 eP     01 35.00  -1.8
SSE      7.43 359 eP     01 35.50  -1.8
      Z  16s      0.40um
      N  10s      5.00um
      E  10s      0.70um
                  S      02 58.50
NJ2      8.67 346 Pc     01 50.00  -4.6X
                  S      03 24.30
QIZ     11.68 249 eP     02 36.40   0.4
                  eS     04 46.20
GYA     13.62 285 P      03 03.00   0.9
        1.0s     10.00nm          4 7mb
      Z  10s      1.30um
                  S      05 29 80
TIY     15.98 333 eP     03 34.00   1.2
      N  15s      0.50um
      E  15s      0.60um
                  eS     07 39.00
LZH     19.58 313 eP     04 17.00  -0.6
        1.5s    28.00nm          4.3mb
                  sP     04 26.00
CHG     21.44 261 eP     04 40.00   3.2X
        1.1s    33.54nm          4.7mb
CHTO    21.44 261 eP     04 38.90   2.1
        0.9s    19 39nm          4.5mb
GTA     24 09 316 Pc     05 04.00   1.1

        1.2s    10.00nm          4.3mb
      Z  12s     0.20um          3.8MszX
      E  10s     0.30um
WR2     45.14 163 iPd    08 03.30  -1.6
        0.7s     3.80nm          4.4mb
ASPA    48.57 165 eP     08 38.10   6.2X
        1.0s     4.10nm          4.4mb
NB2     78.78 332 P      11 49.80  -0.7
        0.8s     2.30nm          4.3mb
ZOBO   168.46  52 PKP    19 50.00  -5.6X
CNCB   168.91  54 PKP    19 55.00  -0.8
     S.D. = 1.2  on  22 of  28 obs.
-----------------------------------------
&  SEP  04, 1991  13h 05m 40.50s
   59.312 N        153.867 W
   DEPTH = 127.9km
 SOUTHERN ALASKA                   (  2)
      <AEIC>.

AUW      0.21  74 iPd    05 57.58   0.8
AUH      0.22  76 iPd    05 57.74   0.8
AUI      0.23  84 iPd    05 57.56   0.7
                  eS     06 10.61
AGU      0.23  78 ePd    05 57.73   0.7
AUL      0.23  72 eP     05 57.66   0.8
AUP      0.23  77 ePd    05 57.69   0.7
AUE      0.26  79 ePd    05 57.72   0.8
MCNL     0.27 242 iPd    05 57.72   0.7
                  eS     06 10.89
CDD      0.40 163 iPd    05 58.15  -0.9
                  eS     06 11.74
OPT      0.47  43 iPd    05 58.52  -0.9
                  eS     06 12.90
SYI      1.04 132 iPc    06 02.60  -1.3
HOM      1.19  72 ePc    06 04.25  -1.1
                  eS     06 22.92
RED      1.24  26 eP     06 04.46  -1.6
RS1      1.28  25 ePd    06 05.03  -1.6
                  eS     06 24.47
RS2      1.28  25 ePd    06 05.19  -1.4
                  eS     06 24.75
RSO      1.28  25 iPd    06 05.02  -1.6
                  eS     06 24.71
RDW      1.29  24 iPd    06 05.05  -1.6
                  eS     06 24.54
REF      1.32  26 iPd    06 05.35  -1.6
                  eS     06 25.11
RDN      1.33  24 ePd    06 05.44  -1.6
NCT      1.34  20 ePd    06 05.58  -1.5
CNPM     1.36  80 iPc    06 05.70  -1.6
                  S      06 25.50
RDT      1.46  30 ePd    06 06.60  -1.9
NNL      1.50  60 eP     06 08.15  -0.6
SVW      2.00 335 ePd    06 13.53  -1.4
CKL      2.04  21 eP     06 13.70  -1.7
SPU      2.08  25 eP     06 13.99  -1.9
BGL      2.09  20 eP     06 14.54  -1.5
SLKM     2.19  55 eP     06 14.89  -2.4
NCG      2.26  21 eP     06 16.66  -1.6
SEW      2.38  69 eP     06 17.40  -2.1
SUA      2.66  34 eP     06 21.38  -1.9
PMS      2.89  46 ePc    06 24.23  -2.1
SKT      2.91  22 eP     06 25.56  -1.0
LTI      3.14  74 iPc    06 27.02  -2.4
MTU      3.23  75 ePc    06 28.27  -2.4
KNIM     3.27  69 ePc    06 28.18  -3.0
PLRM     3.28  44 eP     06 29.39  -1.9
KNK      3.42  50 eP     06 30.60  -2.6
GHO      3.47  43 eP     06 31.34  -2.7
CUT      3.57  28 eP     06 33.51  -1.7
GLI      3.74  62 eP     06 34.43  -3.1
FID      3.98  66 eP     06 36.96  -3.8
VZW      4.05  61 eP     06 38.55  -3.2
VLZ      4.18  61 eP     06 40.71  -2.6
      44 obs. associated
-----------------------------------------
   SEP  04, 1991  13h 08m 06.72± 0.59s
   50.932 N ± 5.5km    6.675 E ± 4.2km
   DEPTH =   5.0km  (geophysicist)
 GERMANY                           (543)
      ML 2.1 (BNS). Felt (V) in the
      Bergheim orea.

BNS      0.32  84 iPd    08 13.30   0.2
        0.6s    330.00nm
                  iS     08 18.80
KLL      0.37 219 iPc    08 14.20   0.1
```

04d 13h

ENN	0.50	251	iPgc	08 16.30	-0.5
	0.5s	12.00nm			
			eSg	08 24.00	
MEM	0.53	233	iP	08 17.00	-0.4
WTS	1.07	4	ePg	08 27.00	-0.3
	0.5s	11.00nm			
			eSg	08 40.00	
ABH	1.19	152	ePg	08 29.73	0.3
RUP	1.26	169	ePg	08 30.34	-0.2
WLF	1.31	195	iP	08 50.80	19.4X
TNS	1.34	121	ePn	08 31.60	-0.3
			eSn	08 50.30	
SNF	1.58	255	iP	08 36.50	1.1
CLL	4.01	82	e(Pg)	09 54.00	44.0X
			e(Sg)	10 16.00	

S.D. = 0.6 on 9 of 11 obs.

---

* SEP 04, 1991 14h 28m 30.87± 1.50s
28.029 N ±14.2km 55.674 E ± 8.2km
DEPTH = 28.5 ± 10.9 km
4.1mb (2 obs.)
SOUTHERN IRAN (353)

SHI	3.20	301	eP	29 21.00	0.5
DHR	5.22	252	eP	30 24.00	34.9X
RYD	8.77	250	eP	30 40.00	1.2
MAIO	8.86	20	eP	30 41.00	0.9
			eS	32 48.00	
MJMA	9.52	259	ePd	30 48.00	-1.1
QUE	10.10	75	eP	30 56.10	-1.1
			e(S)	33 58.60	
OASM	10.99	263	eP	31 08.00	-1.4
BHD	11.03	301	eP	31 04.50	-5.4X
			eS	35 12.00	
AFIF	11.89	254	eP	31 24.00	2.4
UQSK	12.09	262	eP	31 23.00	-1.3
GAR	16.37	44	eP	32 20.10	-0.3
GKN	25.55	83	P	34 00.00	0.9
OHR	31.33	304	eP	34 50.00	-1.0
KHC	38.43	315	P	35 52.00	0.3
HFS	42.81	330	eP	36 27.40	-0.1
	0.5s	2.00nm		4.1mb	
NAO	44.39	330	P	36 40.50	0.2
	0.9s	3.20nm		4.2mb	

S.D. = 1.3 on 14 of 16 obs.

% SEP 04, 1991 16h 25m 47.01± 0.86s
37.669 N ± 7.6km 14.811 E ± 7.0km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO	0.28	341	Pd	25 52.30	-0.6
			eSg	25 57.30	
MEU	0.57	171	P	25 58.50	-0.2
			eSg	26 09.80	
GIB	0.70	297	P	26 01.90	1.0
			eSg	26 12.60	
ATN	0.71	46	P	26 00.70	-0.3
			eSg	26 10.20	
SOI	1.06	67	P	26 07.10	0.1
			eSg	26 21.80	
USI	1.65	309	P	26 15.40	-0.7
CZI	1.86	33	P	26 18.10	-1.1
TDS	2.32	31	P	26 24.50	-1.3
ROI	2.35	35	P	26 28.20	2.0
CSI	2.40	28	P	26 28.20	1.2

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

% SEP 04, 1991 16h 31m 29.49± 0.81s
37.680 N ± 6.9km 14.845 E ± 6.9km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO	0.28	335	Pd	31 35.10	-0.3
			eSg	31 39.90	
MEU	0.58	173	P	31 41.00	-0.3
			eSg	31 51.00	
ATN	0.68	45	P	31 43.50	0.4
			eSg	31 54.20	
GIB	0.72	296	P	31 44.40	0.7
			eSg	31 54.50	
SOI	1.03	67	P	31 50.00	1.0
			eSg	32 06.70	
CZI	1.84	33	P	32 00.70	-0.6
ROI	2.32	35	P	32 07.50	-0.9

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

% SEP 04, 1991 16h 48m 16.77± 0.70s
37.663 N ± 6.2km 14.832 E ± 5.8km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO	0.29	338	Pd	48 22.30	-0.6
			eSg	48 29.10	
MEU	0.57	172	P	48 28.10	-0.2
			eSg	48 38.50	
ATN	0.70	45	P	48 30.70	0.0
			eSg	48 41.00	
GIB	0.72	297	P	48 31.70	0.8
			eSg	48 41.50	
SOI	1.05	67	P	48 36.80	0.2
			eSg	48 53.70	
USI	1.67	309	P	48 45.80	-0.3
CZI	1.86	33	P	48 48.30	-0.6
CSI	2.40	28	P	48 57.40	0.7

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

& SEP 04, 1991 17h 05m 16.41s
19.203 N 155.626 W
DEPTH = 10.3km
HAWAII (613)
<HVO-P>. MD 4.4 (HVO). Felt at Hokolou, Kukuihaele, Ocean View Estates, Pohola and South Point.

KHU	0.05	9	iPd	05 18.80	0.0
WOH	0.13	68	iPc	05 19.58	0.0
			eS	05 21.93	
HPO	0.13	149	P	05 19.05	-0.5
PPL	0.16	106	iPc	05 19.77	-0.3
			eS	05 22.60	
HTC	0.22	80	iPc	05 20.96	-0.2
SPT	0.22	190	iPc	05 20.94	-0.3
			eS	05 24.63	
TRH	0.22	19	iPd	05 21.50	0.0
AIN	0.23	42	iPd	05 21.42	-0.1
			iS	05 25.13	
KUH	0.24	285	iPd	05 21.58	0.0
SWH	0.25	5	iPd	05 21.58	-0.4
DES	0.26	59	iPc	05 21.63	-0.4
WIH	0.27	9	iPd	05 21.96	-0.3
MWH	0.28	5	iPd	05 22.21	-0.2
KFH	0.29	42	iPd	05 22.37	-0.2
HLP	0.31	72	iPc	05 22.64	-0.3
WOB	0.34	7	iPd	05 23.00	-0.5
CPK	0.34	56	iPd	05 22.87	-0.6
KNH	0.34	67	iPc	05 23.02	-0.5
PLL	0.36	25	iPd	05 23.43	-0.6
MLH	0.37	37	ePc	05 23.61	-0.5
MLX	0.37	46	iPd	05 23.70	-0.4
OUT	0.37	60	iPd	05 23.79	-0.4
AHA	0.38	64	iPd	05 23.93	-0.3
RIM	0.38	59	iPd	05 23.96	-0.4
UWE	0.38	55	iPd	05 24.00	-0.3
			iS	05 29.00	
NPH	0.39	57	ePc	05 23.89	-0.5
PWH	0.39	78	iPd	05 24.18	-0.2
CPH	0.40	316	iPd	05 24.07	-0.5
ESR	0.42	60	iPd	05 24.42	-0.6
HMH	0.42	18	iPd	05 24.43	-0.7
PUH	0.42	66	iPd	05 24.35	-0.7
MKA	0.47	69	iPd	05 24.89	-1.0
KAE	0.47	80	iPd	05 25.34	-0.7
HUH	0.52	337	iPc	05 26.75	-0.3
WHA	0.56	77	iPd	05 26.19	-1.6
KKH	0.58	322	P	05 26.84	-1.4
			S	05 35.66	
HPU	0.60	15	iPc	05 27.51	-1.2
MVH	0.61	61	iPd	05 27.21	-1.5
HUL	0.65	71	iPd	05 27.29	-2.1
KKU	0.73	21	iPc	05 29.61	-1.3
HBH	0.76	64	iPd	05 29.14	-2.1
KPO	0.80	68	iPd	05 29.33	-2.5
KOH	0.93	351	iPc	05 31.73	-2.5
MHA	1.01	345	P	05 33.00	-2.5
HKL	1.61	339	P	05 43.89	-1.5
DHH	2.90	316	P	06 00.12	-3.3
			S	06 43.78	
HON	3.07	314	P	05 59.70	-6.1
			S	06 40.14	
OPA	3.34	318	P	06 00.46	-9.2
			S	06 44.36	
INK	51 02	10	eP	14 18.00	-2.2

49 obs. associated

% SEP 04, 1991 17h 05m 37.24± 0.80s
37.981 N ±17.7km 14.801 E ± 7.5km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO	0.10	239	Pd	05 39.70	-0.4
			eSg	05 45.80	
ATN	0.55	71	P	05 48.20	-0.3
			eSg	06 00.40	
GIB	0.61	271	P	05 50.00	0.4
			eSg	05 59.50	
SOI	0.99	84	P	05 56.50	0.4
			eSg	06 11.20	
CZI	1.62	40	P	06 05.60	-0.2

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

% SEP 04, 1991 17h 06m 51.91± 2.62s
16.066 N ±11.1km 61.083 W ±26.5km
DEPTH = 32.4 ± 12.0 km
LEEWARD ISLANDS (92)
ML 2.1 (FDF).

SFG	0.22	330	iPd	06 58.56	0.0
			S	07 02.20	
DEG	0.25	5	iPc	06 58.97	0.0
			S	07 03.50	
MGG	0.27	237	iPd	06 59.38	0.2
DOG	0.52	266	ePd	07 02.74	0.0
SEG	0.53	310	iPd	07 02.84	0.0
			S	07 08.60	
PAG	0.58	267	eP	07 03.60	-0.1
			S	07 11.60	
BBL	0.66	215	eP	07 04.80	-0.1
			S	07 13.50	
BPA	1.23	323	eP	07 13.00	0.1

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

? SEP 04, 1991 17h 06m 53.27± 6.53s
45.710 N ±18.2km 26.372 E ±17.2km
DEPTH = 196.9 ± 58.9 km
ROMANIA (358)

VRI	0.29	57	iPc	07 18.00	-1.0
MLR	0.37	234	iPc	07 20.00	0.6
BRD	0.51	112	iPc	07 20.00	0.3
ISR	0.59	168	iPd	07 21.00	0.3
PPE	1.01	59	eP	07 24.00	1.0
MTUR	1.04	243	eP	07 23.00	-0.4
CLI	1.05	37	iPc	07 23.00	-0.4
CFR	1.36	112	iPc	07 25.00	-0.7
TLB	1.62	133	eP	07 28.20	0.1

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

% SEP 04, 1991 17h 11m 48.76± 2.06s
37.776 N ±21.4km 14.795 E ± 6.9km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO	0.17	333	P	11 53.20	0.4
			eSg	11 56.50	
GIB	0.64	290	P	12 01.50	-0.2
			eSg	12 12.40	
ATN	0.65	54	P	12 01.00	-0.8
			eSg	12 09.50	
SOI	1.04	73	P	12 09.00	0.7
			eSg	12 25.00	
CZI	1.78	36	P	12 19.70	-0.1

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

SEP 04, 1991 18h 13m 15.78± 0.49s
44.848 N ± 5.5km 22.319 E ± 5.5km
DEPTH = 33.0km (normal)
ROMANIA (358)
MG 3.3 (BEO).

SSR	0.41	272	iPd	13 24.00	-1.1
DEV	1.11	22	iPd	13 34.50	-0.6
TIM	1.18	319	iPc	13 39.50	3.5X
BEO	1.33	269	iPg	13 40.80	2.7
			iSg	13 58.80	
DRA	1.39	96	iPc	13 40.00	0.9
TNR	1.60	59	iPc	14 36.00	53.9X
MDB	1.94	48	iPc	13 48.00	0.9
MTUR	1.98	78	eP	13 50.00	2.3
VTS	2.35	164	iP	13 52.00	-1.0
MLR	2.64	75	iPc	14 02.00	4.9X

PVL 2.72 126 eP 13 58.00 0.0
CEI 2.84 2 eP 14 42.00 42.3X
BMR 2.94 16 iPd 14 06.00 4.8X
SKO 2.95 193 ePn 14 01.80 0.5
iPg 14 09.40
ISR 3.01 83 eP 14 17.00 14.7X
UZD 3.15 305 ePn 14 04.70 0.6
VRI 3.27 70 ePc 14 05.00 -0.9
BUD 3.49 320 e(Pn) 14 08.00 -1.1
PSZ 3.50 332 ePn 14 07.90 -1.4
VAY 3.53 177 iPn 14 09.00 -0.6
KNT 3.71 173 P 14 10.60 -1.5
SRS 3.84 165 P 14 13.10 -1.0
OHR 3.90 197 ePn 14 15.20 0.3
PPE 3.97 68 eP 14 00.00 -15.8X
SRO 4.06 318 eP 14 18.20 1.1
i 15 09.70
e 15 45.70
HVAR 4.55 251 iPn 14 26.50 2.4
iSn 15 18.40
SPC 4.57 343 eP 15 31.60 67.1X
PTJ 4.60 285 iPc 14 24.50 -0.4
ZST 4.92 315 e(P) 14 27.10 -2.2
e 15 14.00
S.D. = 1.4 an 21 af 29 abs.

% SEP 04, 1991 19h 33m 09.88± 0.88s
38.907 N ± 7.4km 29.821 E ± 8.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ALT 0.27 57 iPg 33 15.50 -0.1
iSg 33 19.50
KHL 0.63 202 iPg 33 22.60 0.0
iSg 33 31.50
DST 1.16 307 iPn 33 31.40 -0.2
IZI 1.45 349 ePn 33 36.60 0.4
YLV 1 69 348 ePn 33 39.60 -0.1
S.D. = 0.3 an 5 af 5 abs.

& SEP 04, 1991 20h 42m 18.27s
33.043 N 108.014 W
DEPTH = 10.0km (geaphysicist)
NEW MEXICO (496)
<SNM>. MD 2.3 (SNM). Felt in the Silver City oreo.

SMNM 1.11 48 Pgd 42 38.80 -0.4
Sg 42 55.30
WTX 1.36 41 Pn 42 42.80 -0.6
Pg 42 43.70
Sg 43 03.50
BMNM 1.38 27 Pn 42 43.70 0.0
Pg 42 44.00
Sg 43 03.50
CRNM 1.40 49 Pn 42 43.70 -0.3
Pg 42 44.30
Sg 43 04.00
LAZ 1.54 28 Pn 42 45.70 -0.3
Pg 42 46.80
Sg 43 08.00
BNM 1.59 46 Pn 42 46.40 -0.4
Pg 42 48.00
Sg 43 10.00
BDNM 1.71 32 Pg 42 50.60 2.4
Sg 43 15.00
LPM 1.71 42 Pn 42 48.00 -0.5
Pg 42 49.70
Sg 43 15.50
ALO 2.29 34 ePn 42 56.50 -0.4
ePg 43 00.00
eSg 43 32.00
ANMO 2.30 34 eP 42 56.80 -0.2
CLNB 3.57 101 Pn 43 15.70 0.7
Pg 43 24.70
Sg 44 12.00
11 obs. assaciated

& SEP 04, 1991 21h 07m 28.20s
33.022 N 108.030 W
DEPTH = 10.0km (geophysicist)
NEW MEXICO (496)
<SNM>. MD 2.4 (SNM). Felt in the Silver City orea.

SMNM 1.13 48 Pgd 07 49.20 -0.3
Sg 08 05.00
WTX 1.38 41 Pnd 07 53.30 -0.4
Pg 07 54.10
Sg 08 13.80
BMNM 1.41 27 Pn 07 53.90 -0.1
Pg 07 54.30
Sg 08 13.60
CRNM 1.43 49 Pnd 07 53.80 -0.5
Pg 07 54.80
Sg 08 15.80
LAZ 1.56 28 Pnc 07 56.00 -0.3
Pgd 07 57.20
Sg 08 20.50
BNM 1.62 46 Pnc 07 56.60 -0.5
Pgc 07 58.30
Sg 08 20.00
BDNM 1.73 32 Pgd 08 01.00 2.5
Sg 08 25.50
LPM 1.74 42 Pn 07 58.20 -0.6
Pg 08 00.00
Sn 08 22.30
Sg 08 26.00
ALO 2.32 34 ePn 08 06.60 -0.6
eSg 08 42.00
ANMO 2.32 34 eP 08 06.80 -0.4
CLNB 3.58 101 Pn 08 25.80 0.8
Pg 08 35.00
Sg 09 22.90
11 abs. assaciated

SEP 04, 1991 22h 14m 47.71± 0.63s
21.606 N ± 6.0km 121.236 E ± 9.8km
DEPTH = 10.0km (geophysicist)
4.5mb (9 obs.) 3.9Msz (1 abs.)
TAIWAN REGION (243)

TWG 1.22 353 iPc 15 09.90 -0.5
TWC 3.04 11 eP 15 38.10 1.4
CVP 3.92 172 iPd 16 52.10 62.8X
eS 17 06.00
OZH 4.12 324 Pnd 15 51.80 -0.2
BAG 5.21 187 eP 16 09.00 1.3
HKC 6.59 277 eP 16 26.40 -0.7
MCO 7.15 276 eP 16 33.80 -1.1
GZH 7.45 283 P 16 45.50 6.4X
SSE 9.45 360 eP 17 29.00 22.2X
Z 20s 0.50um
NJ2 10.62 349 Pc 17 20.00 -2.9
WHN 10.84 327 eP 17 23.50 -2.4
S 19 22.50
GYA 14.16 293 eP 18 12.00 1.3
TIA 14.99 347 P 18 23.20 1.9
1.4s 30.00nm 4.6mb
XAN 16.48 321 P 18 41.00 0.5
TIY 17.76 337 eP 18 58.30 1.5
Z 20s 0.80um
N 12s 0.30um
CD2 18.19 304 P 19 03.40 1.3
BJI 18.88 348 eP 19 10.00 -0.3
1.0s 13.00nm 4.1mb
HHC 20.86 339 P 19 32.60 0.2
LZH 20.93 317 Pd 19 34.50 1.3
1.8s 69.00nm 4.7mb
pP 19 38.00 13kmX
CHG 21.10 266 eP 19 56.50 21.6X
CHTO 21.10 266 eP 19 34.20 -0.7
1.2s 5.90nm 3.8mb
BTO 21.19 336 eP 19 36.00 0.2
GTA 25.50 319 Pd 20 18.40 0.5
1.2s 10.00nm 4.4mb
Z 18s 0.30um 3.9Msz
WR2 43.25 162 iPd 22 49.60 -1.5
0.6s 6.20nm 4.5mb
GAR 46.64 304 eP 23 19.20 0.9
ASPA 46.66 164 eP 23 18.90 0.5
0.4s 4.90nm 4.9mb
WARB 47.79 173 eP 23 27.00 -0.3
KAF 73.41 331 eP 26 20.50 -1.1
HFS 79.83 331 eP 26 57.20 -0.4
0.6s 3.00nm 4.4mb
NB2 80 52 332 P 27 00.50 -0.8
0.9s 5.00nm 4.5mb
S.D. = 1.3 on 26 of 30 abs.

SEP 04, 1991 22h 27m 21.72± 0.13s
15.204 N ± 2.5km 120.404 E ± 3.0km
DEPTH = 20.9km (2 depth phases)
5.6mb (78 obs) 5.1Msz (15 abs.)

LUZON, PHILIPPINE ISLANDS (249)
Felt (III RF) at Manila, (II RF) at Makati and (I RF) at Quezan City. Alsa felt strongly at Angeles, Clark Air Farce Bose and Porac.
CENTROID, MOMENT TENSOR (HRV)
Dato Used: GDSN
L.P.B.: 18S, 35C
Centroid Locatian:
Origin Time 22:27:24.0 0.3
Lot 15.30N 0.04 Lon 120.63E 0.06
Dep 15.0 FIX Half-duratian 2.4
Moment Tensar; Scale 10**17 Nm
Mrr=-1.41 0.08 Mtt= 1.91 0.07
Mff=-0.49 0.10 Mrt=-0.05 0.40
Mrf= 0.57 0.18 Mtf= 0.18 0.09
Principal Axes:
T Val= 1.92 Plg= 0 Azm=176
N -0.23 26 266
P -1.69 64 86
Best Double Couple:Mo=1.8*10**17
NP1:Strike=242 Dip=50 Slip=-124
NP2: 109 50 -56

OCP 0.86 131 iP 28 37.00 59.1X
TGY 1.21 155 ePc 27 45.80 2.4
BAG 1.21 8 iPc+ 27 41.80 -1.8
SZP 2.33 1 iPc 28 03.00 3.4X
iS 28 30.50
CVP 2.83 28 iPc 28 08.40 1.7
iS 28 55.00
MAP 5.98 144 ePd 28 58.00 6.8X
1.0s 83.00nm 5.4mb X
PLP 6.00 131 ePd 28 57.00 5.5X
CGP 7.91 147 iPc 29 24.00 5.5X
1.0s 264.00nm 6.4mb X
BIP 8.99 140 ePd 30 10.00 36.6X
1.0s 97.00nm
HKC 9.20 321 eP 29 33.70 -2.6
MCO 9.45 318 eP 29 37.50 -2.3
DAV 9.53 147 eP 29 47.40 6.6X
OZH 9.84 350 Pd 29 46.00 1.0
6.0s 3200.00nm 6.8mb X
Z 16s 16.60um 4.2MszX
N 14s 10.00um
E 14s 2.90um
KKM 9.99 205 ePc 29 50.50 3.2X
GZH 10.29 321 P 29 48.50 -2.8
Z 14s 6.50um
N 10s 5.60um
E 10s 5.70um
S 31 50.00
QIZ 10.79 292 eP 29 55.60 -2.6
N 14s 4.20um
E 16s 6.20um
S 31 52.20
TSM 11.12 193 ePc 30 05.00 2.3
SSE 15.83 2 Pc 31 03.50 -1.5
4.0s 2900.00nm 5.8mb X
Z 20s 8.26um 5.3Msz
N 14s 4.48um
E 14s 2.56um
S 34 04.00
WHN 16.25 341 eP 31 12.50 2.2
4.0s 1800.00nm 5.6mb X
Z 20s 3.80um
N 12s 3.90um
E 13s 5.50um
NJ2 16.83 355 Pc 31 20.50 2.8X
6.0s 3000.00nm 5.6mb X
Z 18s 6.20um
N 14s 5.50um
E 14s 4.60um
GYA 17.02 313 iPc 31 24.00 3.7X
5.0s 1300.00nm 5.3mb X
Z 14s 3.50um
N 13s 4.00um
E 13s 5.70um
LOE 18.06 280 eP 31 35.00 1.8
PCT 18.36 271 eP 31 39.80 3.0X
KAGJ 18.58 29 eP 31 39.80 0.3
KMI 19.28 304 Pd 31 50.00 1.7
6.0s 1400.00nm 5.4mb X
Z 15s 4.20um 4.1Msz
N 11s 1.10um
NST 19.55 274 eP 31 53.50 2.3

04d 22h

KUMJ 19.69 27 eP 31 51.10 -1.5
NNT 20.23 265 eP 31 57.50 -0.9
MKS 20.31 183 ePd 32 00.30 1.0
0.8s 1418.80nm 6.4mb
BDT 20.65 279 eP 32 02.20 -0.5
1.0s 109.70nm 5.2mb
CHG 20.83 283 P 32 02.20 -2.5
CHTO 20.83 283 eP 32 04.10 -0.5
1.3s 118.06nm 5.1mb
SNG 20.97 250 eP 32 07.70 1.6
1.3s 153.85nm 5.3mb
eS 36 00.00
KHT 21.07 272 eP 32 09.00 1.9
TIA 21.12 353 eP 32 08.50 1.0
4.0s 1800.00nm 5.8mb X
Z 17s 5.00um 5.0MszX
N 15s 4.50um
E 15s 1.90um
SHNJ 21.17 25 eP 32 07.80 -0.2
XAN 21.43 333 Pd 32 11.00 0.3
8.0s 1800.00nm 5.5mb X
N 12s 7.00um
E 12s 2.10um
sP 32 20.00
IPM 21.79 243 ePd 32 15.80 1.4
1.0s 131.60nm 5.3mb
CD2 21.84 319 P 32 15.60 0.8
1.0s 400.00nm 5.8mb
Z 14s 3.60um 4.9MszX
E 12s 6.50um
S 36 15.00
TKSJ 22.39 31 eP 32 20.80 0.6
YONJ 23.10 28 P 32 28.20 1.0
WKYJ 23.37 33 eP 32 31.50 1.6
TIY 23.51 344 iPd 32 32.00 0.8
6.0s 2100.00nm 5.9mb X
Z 18s 5.50um 5.1Msz
N 14s 4.00um
S 36 43.00
DL2 23.64 2 Pd 32 33.50 1.2
6.0s 1800.00nm 5.8mb X
Z 16s 4.10um 5.0MszX
N 14s 4.60um
TSI 24.45 244 eP 32 43.00 2.5
TSRJ 24.59 32 P 32 42.90 1.2
BJI 25.02 352 eP 32 46.00 0.3
1.5s 420.00nm 5.9mb
Z 22s 3.70um 4.8Msz
N 16s 2.33um
eS 37 08.00
sS 37 19.50
LZH 25.52 328 Pd 32 51.40 0.7
1.8s 300.00nm 5.6mb
Z 16s 8.02um 5.3MszX
N 13s 7.42um
pP 32 58.50 25km
sP 33 02.00
PP 33 30.00
S 37 18.00
IIDJ 25.57 35 P 32 50.60 -0.4
MTMJ 26.34 33 eP 32 56.70 -1.5
BSI 26.49 251 eP 33 01.00 1.4
CHJJ 26.59 35 P 32 59.10 -1.3
SNY 26.67 5 iPd 33 00.60 -0.4
6.0s 1100.00nm 5.7mb X
Z 14s 4.00um 5.1MszX
N 15s 1.30um
E 15s 3.40um
HHC 26.68 345 Pc 33 02.40 1.1
1.2s 190.00nm 5.6mb
Z 18s 7.10um 5.3Msz
N 14s 4.00um
E 15s 1.90um
sP 33 08.00
PP 33 40.00
S 37 37.00
SS 38 47.00
BTO 26.87 342 P 33 02.50 -0.5
N 15s 3.40um
E 14s 4.80um
sP 33 11.00
SHL 28.59 296 iP 33 17.80 -1.1
YAMJ 28.71 33 eP 33 19.20 -0.4
CN2 28.82 8 eP 33 19.80 -0.8
7.0s 400.00nm 5.3mb X
Z 16s 9.80um 5.5MszX
N 14s 3.30um
E 14s 3.20um
epP 33 31.00 42kmX
GTA 30.12 327 P 33 32.60 0.2
1.6s 80.00nm 5.3mb
Z 18s 6 40um 5.3Msz
E 14s 5.60um
PcP 36 33.60
sS 38 38.00
ScS 44 08.00
OFUJ 30.24 34 P 33 32.40 -0.9
MDJ 30.34 13 Pd 33 33.50 -0.6
5.0s 800.00nm 5.8mb X
E 15s 3.70um
eS 38 29.00
LSA 30.53 303 P 33 36.00 -0.6
N 12s 0.70um
S 38 34.50
MRRJ 32.43 29 eP 33 52.30 -0.2
HOOJ 33.48 31 eP 34 00.80 -0.8
GUN 34.38 297 P 34 09.04 -1.0
ASAJ 34.47 29 eP 34 10.60 0.5
PKI 34.71 297 P 34 11.38 -1.4
0.7s 73.00nm 5.7mb
KUSJ 34.72 32 eP 34 12.60 0.3
KKN 34.87 297 P 34 12.60 -1.5
0.9s 269.00nm 6.2mb
DMN 34.98 297 P 34 13.72 -1.3
1.0s 133.00nm 5.8mb
GKN 35.47 297 P 34 17.58 -1.6
0.9s 155.00nm 5.9mb
PMG 36.07 131 eP 34 27.00 3.0X
MBL 36.14 181 eP 34 23.00 -1.6
0.5s 38.00nm 5.6mb
RAB 36.90 119 e(P) 34 36.00 4.9X
WR2 37.53 158 iPc 34 34.40 -1.9
0.7s 289.60nm 6.2mb
NANU 37.83 187 eP 34 38.00 -0.8
IRK 39.14 344 eP 34 49.50 0.0
e 34 54.80
e 35 12.00
e 35 27.00
ePP 36 26.00
ePPP 36 42.00
eS 40 48.00
e 41 02.00
e 41 10.00
e 42 06.00
eSSS 44 00.00
e 45 56.00
WMQ 39.84 322 P 34 56.00 0.5
Z 16s 6.30um 5.6MszX
N 13s 3.30um
E 12s 3.00um
PP 36 31.00
ScP 40 50.00
sS 41 07.00
ScS 45 05.00
HYB 40.17 279 eP 34 58.90 0.4
1.0s 80.00nm 5.4mb
e 35 04.50
eS 41 06.00
OIS 40.24 152 eP 34 59.00 0.2
0.8s 90.00nm 5.5mb
ASPA 40.82 161 iPc 35 02.70 -1.0
0.7s 140.20nm 5.8mb
iPcP 37 15.60
iS 41 13.00
WARB 41.58 172 eP 35 08.00 -1.8
0.3s 20 00nm 5.3mb
GBA 41.60 273 Pd 35 10.60 0.5
0.6s 36 80nm 5.3mb
NDI 42.02 296 iPc 35 12.00 -1.5
KOD 42.12 269 eP 35 16.20 1.4
CTAO 43.31 143 iPc 35 25.00 0.9
1.0s 540 00nm 6 3mb
ipP 35 40.50 61kmX
iS 41 51.00
POO 44.58 281 iPd 35 38.20 3.7X
iS 42 40.20
BOM 45.54 282 iPd 35 42 30 0.2
iS 42 24.80
KSH 45.67 311 eP 35 45.00 2.0
N 12s 2.00um
E 13s 3.80um
pP 35 50 00 17km
PP 37 34.00
S 42 29.00
BAL 45.68 184 eP 35 42.00 -1.0
COOL 45.83 179 eP 35 42.00 -2.1
FORR 46.38 171 eP 35 46.00 -2.4
KLB 46.60 183 eP 35 48.00 -2.1
MUN 47.08 185 eP 35 53.50 -0.5
YAK 47.22 6 iP 35 54.20 -0.5
iPSP 37 26.00
iPP 37 48.00
ePPP 38 30.00
e 41 17.00
eS 42 45.00
ePS 42 51.00
ePSP 43 48.00
OLP 47.56 151 eP 35 58.00 0.1
NWAO 47.95 184 eP 36 00.00 -0.8
RKG 49.60 184 eP 36 13.00 -0.5
GAR 49.76 308 eP 36 14.90 -0.1
ePcP 37 13.00
eS 43 24.00
RMO 49.77 146 eP 36 26.00 11.0X
STK 51.04 157 eP 36 23.30 -1.2
0.6s 20.60nm 5.2mb
QUE 51.09 297 eP 36 24.50 -0.8
eS 43 44.00
CMS 52.45 152 eP 36 35.00 -0.2
BRS 52.72 143 iP 36 37.00 -0.3
1.0s 12.50nm 4.8mb
ADE 52.84 161 eP 36 37.00 -1.1
0.9s 250.42nm 6.1mb
BWA 56.09 152 eP 37 02.80 0.9
BFD 56.12 159 iPd 37 02.00 0.0
0.9s 75.00nm 5.7mb
CAN 57.10 152 eP 37 09.00 -0.1
CNB 57.26 152 iPd 37 10.10 -0.2
0.8s 56.00nm 5.6mb
TOO 57.55 156 eP 37 11.60 -0.6
1.0s 61.00nm 5.6mb
MAIO 57.80 303 iPd 37 14.50 0.3
eS 45 16.00
DZM 58.38 128 iPc 37 18.60 0.2
ADK 61.51 39 eP 37 38.10 -1.2
IR4 64.76 302 iPd 38 02.00 0.7
IR1 64.93 302 iPd 38 02.50 0.1
IR7 64.99 303 ePc 38 03.00 0.2
IR5 65.02 302 eP 38 03.50 0.5
KER 67.92 301 eP 38 11.00 -10.5X
TAB 68.34 305 iPd 38 25.50 1.4
SLY 69.15 303 eP 38 29.00 0.1
RYD 69.30 291 eP 38 45.00 14.9X
BHD 70.26 300 ePd 38 36.50 0.8
eS 47 45.00
MJMA 70.34 292 ePc 38 36.00 -0.4
MSL 70.99 304 eP 38 39.50 -0.6
eS 47 55.50
SDN 71.45 36 eP 38 41.30 -1.1
QASM 71.87 293 eP 38 27.00 -18.6X
AFIF 72.49 291 eP 39 05.00 15.6X
TTA 73.67 28 eP 38 56.80 1.2
SVW 73.92 30 eP 38 58.40 1.5
OBN 74.15 324 eP 38 57.00 -1.3
1.2s 114.00nm 5.8mb
Z 20s 1.10um 5.1Msz
E 20s 0.70um
iPcP 39 04.80
i 39 12.00
eS 48 26.00
ePPS 49 30.00
eSS 53 30.00
IMA 74.57 25 e(P) 39 01.10 0.3
RSO 75.36 31 P 39 05.10 -0.4
KDC 75.75 34 eP 39 07.70 0.2
KVT 75.97 309 eP 39 10 00 0.8
SLKM 76.60 31 P 39 11.50 -0.8
PMR 76.99 29 iPc 39 14.80 0.5
0.8s 82.50nm 5.8mb
KEV 77.03 339 iP 39 14.80 0.3
0.7s 26.70nm 5.4mb
FBA 77.13 26 eP 39 15.30 0.2
BHL 77.40 302 eP 39 16.00 -1.4
S 49 08.00
SOD 77.54 337 iP 39 16.50 -0.8
AYN 78.01 297 eP 39 21.00 0.4
TOA 78.29 29 iPc 39 23.60 1.9
KAF 78.60 331 iP 39 22.40 -0.8
0.6s 27.70nm 5.5mb
BBTK 78.65 308 iPd 39 24.00 -0.1
HOL 78.75 297 eP 39 25.00 0.3

```
CSS      79.10 303 eP      39 26.50   -0.1
NUR      79.71 330 iP      39 28.50   -0.7
         0.7s     34.70nm          5.5mb
                     i     39 39.60
BALM     80.31  29 P       39 32.30   -0.3
EYL      80.46 309 eP      39 34.60    0.7
IZI      81.02 309 eP      39 35.60   -1.2
YLV      81.05 310 eP      39 36.00   -0.9
ELL      81.46 306 eP      39 40.00    0.8
PTT      81.75 316 eP      39 41.00    0.6
VRI      81.77 315 ePd     39 41.00    0.5
HLW      81.79 299 (P)c    39 42.20    1.3
INK      81.81  21 ePd     39 39.40   -0.8
         1.0s     67.00nm          5.6mb
MBC      82.14  12 eP      39 41.50   -0.4
         1.0s    136.00nm          6.0mb
MLR      82.39 315 ePd     39 45.00    1.1
PVL      83.37 313 iP      39 50.00    1.2
ALN      83.43 310 ePc     39 48.84   -0.3
DIM      83.52 312 iP      39 50.00    0.4
KDZ      83.70 311 iPd     39 51.00    0.4
PLD      84.10 312 iPc     39 52.00   -0.5
RZN      84.20 311 iP      39 54.00    0.7
HFS      85.03 331 eP      39 56.20   -0.6
         1.8s    440.80nm          6.4mb
      Z  16s      1.30um           5.4MszX
                     LR    14 21.00
VTS      85.04 313 iP      39 58.00    0.5
KRA      85.05 320 iPd     39 57.90    0.8
         0.7s     68.00nm          6.0mb
      Z  16s      1.10um           5.3MszX
      E  16s      1.50um
                     i     40 08.00
OUR      85.10 310 ePc     39 56.44   -1.1
SPC      85.13 320 eP      39 58.60    0.8
SRS      85.17 311 ePc     39 56.88   -1.1
KKB      85.33 312 iP      39 58.00   -0.7
SOH      85.42 311 iPd     39 58.44   -0.8
PAIG     85.43 310 ePc     39 58.52   -0.7
NPA      85.64 253 eP      40 07.40    6.8X
KNT      85.66 311 ePc     39 59.24   -1.2
PSZ      85.73 318 iP      40 01.60    0.9
THE      85.76 311 ePc     39 59.92   -0.9
NB2      85.80 333 P       39 59.00   -1.7
         0.8s     58.30nm          5.8mb
VAY      85.85 312 iP      40 00.80   -0.5
         1.4s    242.00nm          6.2mb
GRG      86.08 311 ePd     40 01.64   -0.9
LIT      86.26 310 iPd     40 02.20   -1.2
BSD      86.27 326 eP      40 02.40   -0.6
         1.0s     55.00nm          5.7mb
BEO      86.31 315 eP      40 03.00   -0.5
BUD      86.43 318 eP      40 04.70    0.7
SKO      86.48 312 iP      40 04.50    0.1
      N  22s      1.78um
      E  18s      1.73um
                     iPS   50 37.00
                     iSS   54 48.00
AGG      86.69 309 ePd     40 03.72   -1.8
SRO      86.78 319 iP      40 06.20    0.5
UZD      87.00 317 eP      40 08.00    1.2
KSP      87.00 322 eP      40 06.60   -0.2
         1.1s     72.00nm          5.8mb
                     id    40 07.40
OHR      87.19 312 eP      40 06.20   -1.8
         1.2s     60.00nm          5.7mb
ZST      87.42 319 eP      40 08.70   -0.1
VKA      87.88 320 eP      40 12.00    0.9
         3.3s    419.00nm          6.2mb X
                     ic    40 12.40
PRU      88.35 322 P       40 13.70    0.4
         1.6s     56.10nm          5.6mb
      Z  20s      0.80um           5.1Msz
                     e     40 20.20
                     e     40 56.60
                     eS    51 02.00
BRG      88.38 323 iPd     40 13.70    0.3
         1.6s     60.00nm          5.7mb
                     e     40 19.30
CLL      88.76 323 iPd     40 15.20    0.0
         1.8s     59.00nm          5.6mb
      Z  18s      0.50um           5.0Msz
PTJ      88.95 317 eP      40 17.00    0.7
ZAG      88.96 317 eP      40 17.00    0.7
KHC      89.26 321 iPd     40 18.00    0.3
                     e     40 26.50
                     S     51 06.00
```

```
VBY      89.55 317 eP      40 20.00    0.9
WET      89.68 321 eP      40 20.50    0.9
HOF      89.81 323 eP      40 20.50    0.3
LJU      89.82 318 eP      40 20.50    0.2
MOX      89.83 323 P       40 20.70    0.4
         1.7s     56.00nm          5.5mb
      Z  19s      0.80um           5.2Msz
      N  18s      0.90um
      E  19s      0.40um
                     S     51 02.00
KBA      90.19 319 iPd     40 20.90   -1.4
         1.4s     32.10nm          5.4mb
                     id    40 21.80
                     i     40 29.30
BHG      90.23 320 iPd     40 23.00    0.8
VOY      90.24 318 iPd     40 22.00   -0.4
GRF      90.45 322 eP      40 23.10   -0.1
         2.0s    133.00nm          5.9mb
      Z  21s      0.70um           5.1Msz
FVI      90.74 319 P       40 24.50    0.0
ROI      90.75 311 P       40 25.20    0.4
CSI      90.88 312 P       40 25.80    0.4
TDS      90.89 312 P       40 26.20    0.8
FUR      91.04 321 iPd     40 26.70    0.7
GRI      91.12 311 P       40 27.07    0.6
         1.2s     50.00nm          5.7mb
WTTA     91.19 320 iPd     40 25.70   -1.2
         1.3s     87.60nm          6.0mb
                     id    40 26.80
                     i     40 33.90
CZI      91.19 311 P       40 26.50   -0.2
DUI      91.50 314 P       40 29.20    0.9
YKA      91.50  22 eP      40 28.70    0.9
         0.8s     42.60nm          5.9mb
SOI      91.65 310 P       40 29.40    0.5
CTI      91.67 319 P       40 28.60   -0.4
OGA      91.73 320 iPd     40 29.80    0.4
         1.3s     69.00nm          5.9mb
ARV      91.84 316 P       40 30.20    0.5
SDI      91.93 314 P       40 29.00   -1.2
WTS      91.95 325 eP      40 31.00    1.0
         1.0s      9.00nm          5.1mb
AZI      92.08 314 P       40 31.40    0.6
ASS      92.19 316 P       40 31.50    0.1
OSS      92.36 320 ePd     40 33.00    0.8
SFI      92.40 317 P       40 33.50    1.3
CRE      92.45 316 P       40 33.50    0.9
MNS      92.45 315 P       40 32.10   -0.5
PGD      92.50 317 P       40 34.20    1.3
SAL      92.57 319 P       40 34.00    1.0
VDL      92.86 320 ePd     40 34.80    0.2
GWF      92.88 323 P       40 34.85    0.4
SLE      92.90 321 ePd     40 34.40   -0.1
LLS      92.99 320 ePd     40 35.30    0.1
ENN      93.02 325 eP      40 35.00    0.1
         1.0s     12.00nm          5.3mb
MME      93.04 317 P       40 37.10    1.6
MEM      93.05 324 P       40 34.20   -0.9
ZLA      93.09 321 ePd     40 35.30   -0.2
FEL      93.15 321 P       40 35.69   -0.1
LIBD     93.27 322 P       40 36.68    0.5
CDF      93.34 322 P       40 36.86    0.2
TMA      93.40 320 ePd     40 37.70    0.6
WLF      93.42 324 iPd     40 35.85   -0.9
ECH      93.50 322 P       40 37.26    0.0
BOB      93.61 318 P       40 38.70    0.8
BBS      93.63 321 P       40 37.96    0.0
MOF      93.68 322 P       40 38.17    0.0
BSF      93.90 322 eP      40 38.80   -0.4
         1.2s     23.80nm          5.5mb
MMK      93.99 320 ePd     40 40.70    0.8
HAU      94.08 322 eP      40 39.40   -0.6
         0.8s      5.35nm          5.0mb
      Z  22s      0.63um           5.0Msz
LOMF     94.10 321 P       40 40.11    0.0
DIX      94.32 320 ePd     40 42.10    0.7
CKI      94.52 318 P       40 41.50   -0.5
PGF      94.86 316 eP      40 43.50   -0.3
         0 8s     14.80nm          5.5mb
PGC      94 99  37 eP      40 46.00    2.0
LPG      95.00 320 eP      40 44.70    0.1
         1.0s     22.00nm          5.5mb
LPL      95.00 320 eP      40 44.70    0.2
         1.0s     22.00nm          5.5mb
EKA      95.23 331 Pd      40 44.50   -0.5
         1 5s     29.90nm          5.5mb
BNI      95.25 319 P       40 46.13    0.6
```

```
         1.0s    134.90nm          6.3mb
SBF      95.31 318 eP      40 44.90   -0.9
         1.0s     12.00nm          5.3mb
LOR      95.91 322 eP      40 47.60   -0.8
         1.0s      8.00nm          5.1mb
      Z  22s      0.64um           5.1Msz
FRF      95.96 318 eP      40 48.20   -0.4
         1.0s     10.00nm          5.2mb
LBF      95.98 322 eP      40 48.20   -0.5
         1.0s     11.00nm          5.3mb
LRG      96.19 318 eP      40 49.60   -0.1
         1.2s     23.80nm          5.5mb
      Z  22s      0.57um           5.0Msz
SSF      96.22 322 eP      40 49.50   -0.3
         1.0s      6.00nm          5.0mb
SMF      96.23 322 eP      40 49.20   -0.6
         1.0s      6.00nm          5.0mb
AVF      96.45 322 eP      40 50.20   -0.6
         1.0s      9.00nm          5.2mb
PNT      96.81  35 eP      40 53.00    0.6
BGF      96.87 322 eP      40 52.30   -0.4
         0.8s      5.35nm          5.1mb
MAF      97.21 322 eP      40 54.20    0.0
         0.8s      4.05nm          5.0mb
TCF      97.38 322 eP      40 54.80   -0.3
         1.0s      7.00nm          5.2mb
LDF      97.51 325 eP      40 55.20   -0.3
         1.2s     20.85nm          5.6mb
LSF      97.81 322 eP      40 56.20   -0.7
         1.2s      8.95nm          5.2mb
GRR      98.03 325 eP      40 57.90    0.0
         1.2s     20.85nm          5.6mb
SLR      98.32 246 iPd     41 02.00    2.3
LPF      98.33 325 eP      40 59.20    0.0
         1.0s     16.00nm          5.5mb
NEW      98.77  35 P       41 02.30    1.0
         1.0s     22.50nm          5.7mb
SES     100.65  31 ePdiff41 10.00      0.3
FFC     101.62  24 ePdiff41 14.00      0.2
         0.8s     11.00nm          5.5mb
RSSD    108.40  32 PKP     45 40.00  -10.7X
GOL     110.71  36 PKP     46 00.00    4.7X
      Z  20s      0.75um           5.3Msz
ALO     113.19  41 ePKP    46 00.00   -0.1
      Z  22s      0.74um           5.2Msz
LKO     121.11 291 PKP     46 14.54   -1.0
         0.9s     14.00nm
KIC     121.58 287 PKP     46 16.10   -0.3
         1.0s     26.00nm
TIC     121.73 288 PKP     46 16.20   -0.5
         0.9s     11.00nm
LIC     121.90 287 PKP     46 16.60   -0.4
         1.0s     23.00nm
      Z  20s      0.13um           4.6Msz
UPA     148.89  41 iPKPc   47 09.80    3.4X
         1.0s     60.00nm
CRM     150.21   3 ePKP    47 11.10    2.8X
FDF     150.21   3 ePKP    47 09.53    1.2
         0.4s      1.52nm
MVM     150.40   3 ePKP    47 10.60    2.0
BIM     150.43   3 ePKP    47 09.90    1.2
PPD     169.62 228 (PKP)   47 32.00    2.7X
LPB     171.71 100 PKP     47 34.00    3.1X
ZOBO    171.72  98 PKP     47 31.00   -0.1
                     LR    48 34.00
CNCB    171.78 102 PKP     47 34.00    2.9X
SIV     178.38 119 PKP     47 33.20    1.0
      S.D. = 1.0   on 270 of 297 obs.
```

```
    SEP  05, 1991   00h 46m 44.15± 1.20s
    44.870 N ± 4.1km     6.675 E ±10.0km
    DEPTH =  10.0km  (geophysicist)
  FRANCE                            (538)
       ML 2.3 (GEN).

RRL       0.09   57 P       46 46.79   -0.2
                    S       46 48.08
BNI       0.18    0 P       46 48.50    0.2
                    eSg     46 51.80
BHB       0.42   94 P       46 52.50   -0.2
                    S       46 58.27
PZZ       0.48  140 P       46 53.63   -0.2
                    S       46 59.77
RSP       0.50   56 P       46 54.29    0.0
                    S       47 00.56
DOI       0.55  132 P       46 54.80   -0.4
                    eSg     47 02.10
```

05d 00h

LSD	0.68	30	P	46	57.44	-0.4
			S	47	06.22	
ENR	0.84	140	P	47	00.56	0.2
			S	47	11.38	
ORX	1.20	50	P	47	06.74	0.2
			S	47	20.77	
CKI	1.23	111	P	47	07.70	0.7
			eSg	47	21.00	
FIN	1.28	121	P	47	08.02	0.1
			S	47	23.19	
PCP	1.37	103	P	47	09.56	0.2
			S	47	26.04	

S.D. = 0.3 on 12 of 12 obs.

% SEP 05, 1991 00h 58m 10.43± 0.62s
37.052 N ± 6.7km 5.230 W ± 6.1km
DEPTH = 10.0km (geophysicist)
SPAIN (377)
mbLg 2.8 (MDD).

EPRU	0.09	181	ePg	58	12.60	-0.4
			eSg	58	15.50	
EJIF	0.63	198	ePg	58	23.30	0.2
			eSg	58	31.60	
EVAL	1.32	294	ePn	58	35.00	0.2
			eSn	58	52.80	
ECOG	1.35	80	ePn	58	36.00	0.7
			eSn	58	55.00	
AFC	1.36	81	ePn	58	36.00	0.4
			eSn	58	55.20	
EBAN	1.60	46	ePn	58	39.00	0.2
			eSn	59	00.20	
EHUE	2.23	69	ePn	58	47.50	-0.6
			eSn	59	16.50	
EVIA	2.68	53	ePn	58	53.80	-0.7

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

? SEP 05, 1991 01h 09m 47.59± 3.24s
19.625 S ±29.2km 68.266 W ±13.1km
DEPTH = 33.0km (normol)
CHILE-BOLIVIA BORDER REGION (124)

CNCB	2.81	6	iPd	10	31.00	-0.7
CCH	3.01	42	P	10	38.80	4.5X
			i	11	18.80	
LPB	3.08	3	iPd	10	36.10	0.7
ZOBO	3.34	2	iPd	10	39.40	0.1
ARE	4.39	315	eP	10	54.00	0.0
			eS	11	48.00	
SIV	7.75	63	Pc	11	41.00	0.0

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

---

* SEP 05, 1991 05h 24m 54.28± 0.84s
53.419 S ±10.3km 160.323 E ± 8.5km
DEPTH = 33.0km (normol)
4.2mb (5 obs.)
MACQUARIE ISLANDS REGION (167)

MCO	1.35	216	iPc	25	17.10	0.2
			iS	25	30.60	
SIZ	8.25	41	P	26	54.50	0.1
			eS	28	22.30	
BCZ	8.87	36	P	27	02.90	-0.1
TUZ	9.59	43	P	27	13.60	0.6
ODZ	10.75	43	eP	27	28.60	-0.3
TAU	13.61	315	eP	28	00.00	-7.1X
TOO	18.89	321	eP	29	15.30	1.0
	0.5s		6.00nm			4.1mb
			eTT	46	38.00	
CNB	19.68	333	eP	29	23.00	-0.5
			eTT	46	29.00	
CAN	19.78	332	eP	29	24.20	-0.2
			eTT	46	43.00	
STK	25.41	320	eP	30	21.30	1.2
	1.0s		2.30nm			3.7mb
ASPA	35.78	316	iPc	31	52.00	-0.2
	1.2s		11.20nm			4.7mb
WR2	38.93	319	eP	32	12.60	-6.0X
	0.4s		3.70nm			4.5mb
			i	32	17.80	
WRA	38.94	319	P	32	17.00	-1.7
	0.8s		3.00nm			4.1mb

S.D. = 0.9 on 11 of 13 obs.

? SEP 05, 1991 06h 09m 48.33± 3.15s
15.153 S ±29.4km 31.348 E ±14.4km
DEPTH = 10.0km (geophysicist)

MOZAMBIQUE (581)
mbLg 3.4 (BUL).

SONG	1.45	108	ePn	10	14.60	-0.1
			ePg	10	19.30	
			iSg	10	42.30	
MTD	1.63	172	iPn	10	18.40	1.1
KRI	2.36	225	iPn	10	28.10	0.3
			iS	10	45.50	
BUL	5.61	207	iPn	11	09.60	-4.3X
			iSn	11	58.00	
			iSg	12	19.50	
CIR	5.83	178	iPn	11	16.50	-0.5
			iSn	12	11.00	
			iSg	12	35.50	
BFT	10.55	186	e(P)	12	22.00	-0.9
SLR	10.91	195	eP	12	16.50	-11.3X
			S	13	07.50	
KSR	11.44	201	eP	12	25.00	-10.0X
			S	14	13.50	
FRS	15.55	200	eP	13	24.00	-5.3X
			S	15	52.50	

S.D. = 1.1 on 5 of 9 obs.

? SEP 05, 1991 06h 21m 27.32± 4.54s
43.753 N ±18.9km 13.259 E ±30.5km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

ARV	0.34	222	P	21	33.90	-0.5
			eSg	21	38.90	
ASS	0.81	213	P	21	42.90	-0.2
			eSg	21	55.50	
CRE	0.96	263	P	21	47.10	1.5
			eSg	22	02.50	
SFI	1.03	280	P	21	46.10	-0.7
			eSg	22	04.10	
PGD	1.12	277	P	21	48.00	-0.4
			eSg	22	06.80	
MNS	1.43	197	P	21	53.60	0.2
			eSg	22	11.50	

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

? SEP 05, 1991 06h 34m 02.85± 8.43s
46.027 S ±51.9km 166.381 E ±71.1km
DEPTH = 33.0km (normol)
4.0mb (3 obs.)
OFF W. COAST OF S. ISLAND, N.Z. (161)

TAU	13.96	276	eP	37	20.00	-0.4
CNB	16.73	304	eP	37	55.40	-0.9
	1.0s		10.00nm			3.9mb
			eS	40	47.30	
			eTT	53	29.30	
CAN	16.94	303	eP	37	59.30	0.4
			eS	40	58.40	
			eTT	53	24.70	
TOO	17.68	291	iPc	38	09.00	0.9
	0.2s		16.00nm			4.8mb
			eS	41	15.30	
STK	23.77	298	eP	39	13.10	0.0
	0.7s		1.20nm			3.5mb
WRA	36.98	304	P	41	24.00	13.1X
	1.0s		2.50nm			

S.D. = 1.0 on 5 of 6 obs.

SEP 05, 1991 07h 17m 29.90± 1.16s
7.337 S ± 7.1km 128.521 E ±10.3km
DEPTH = 188.2 ± 13.7 km
4.7mb (13 obs.)
BANDA SEA (280)

AAI	3.64	355	ePd	18	27.50	0.2
WR2	13.76	156	iPd	20	33.70	-4.7X
	0.6s		61.10nm			5.2mb
			i	20	41.30	
			eS	22	59.50	
MBL	16.11	211	eP	21	08.00	0.6
	0.3s		3.00nm			4.2mb
			eS	23	56.00	
QIS	16.97	142	iPd	21	15.60	-2.4
	0.4s		11.00nm			4.6mb
			eS	24	16.00	
ASPA	17.04	163	iPc	21	17.50	-1.3
	0.8s		98.60nm			5.3mb
			eS	24	17.00	
PMG	18.55	98	eP	21	37.00	2.0

NANU	19.64	218	eP	21	47.10	0.9
CTAO	21.36	128	iPc	22	04.00	0.6
	1.0s		15.00nm			4.5mb
			e(S)	26	43.00	
KLB	26.14	201	eP	22	49.00	0.5
STK	27.29	155	eP	22	59.30	0.4
	0.6s		2.80nm			4.2mb
			eS	28	26.40	
CHG	39.06	312	eP	24	41.80	1.5
CHTO	39.06	312	eP	24	41.00	0.7
	1.0s		7.00nm			4.3mb
XAN	45.15	337	eP	25	28.80	-0.7
LZH	49.03	333	eP	25	59.50	-0.3
	1.5s		34.00nm			4.6mb
GTA	53.57	332	Pc	26	33.40	-0.4
	0.8s		10.00nm			4.5mb
GUN	54.08	312	P	26	37.56	-0.4
	0.6s		20.00nm			5.0mb
PKI	54.24	312	P	26	38.32	-0.8
	0.6s		9.00nm			4.6mb
KKN	54.45	312	P	26	39.72	-0.8
	0.6s		15.00nm			4.8mb
DMN	54.48	311	P	26	40.34	-0.4
GKN	55.05	312	P	26	44.22	-0.4
	0.6s		19.00nm			5.0mb

S.D. = 1.1 on 19 of 20 obs.

SEP 05, 1991 07h 31m 26.90± 0.95s
20.051 N ±15.2km 72.138 W ± 4.0km
DEPTH = 33.0km (normol)
HAITI REGION (87)

GWJ	4.77	246	eP	32	38.13	-0.4
HOJ	4.82	246	ePc	32	39.28	0.3
			eS	33	28.42	
STH	4.84	247	eP	32	39.07	-0.3
BBJ	5.12	252	ePc	32	43.88	0.4
			eS	33	34.41	
MGP	5.19	112	iP	32	45.50	1.2
LRS	5.30	108	iP	32	46.00	0.1
			S	32	58.00	
APR	5.35	106	iP	32	47.00	0.4
CLLP	5.61	110	iP	32	51.20	1.0
			S	33	02.00	
SJG	5.98	108	iP	32	55.10	-0.5
LPR	6.17	105	iP	32	57.10	-1.1
CPD	6.22	108	iP	32	58.00	-0.8
SDV	11.19	172	eP	34	08.20	0.2
			iS	36	05.40	
CEOS	11.56	161	eP	34	12.30	-0.5

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

% SEP 05, 1991 07h 33m 05.39± 0.86s
60.564 N ± 5.3km 5.053 E ±11.6km
DEPTH = 10.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 1.7 (BER).

ASK	0.11	139	eP	33	08.10	-0.1
			eS	33	10.21	
EGD	0.31	164	iP	33	11.40	-0.3
SUE	0.52	344	iP	33	15.79	0.0
HYA	0.82	42	iP	33	21.21	0.0
			eS	33	34.67	
ODD1	1.02	129	iP	33	24.93	0.2
			eS	33	39.76	
KMY	1.36	176	iP	33	30.62	0.3
			eS	33	47.62	

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

% SEP 05, 1991 08h 41m 00.07± 0.88s
41.143 N ± 8.7km 28.967 E ± 6.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ISK	0.10	138	iPg	41	02.50	-0.3
YLV	0.65	152	iPg	41	13.00	-0.2
IZI	0.89	154	iPg	41	17.20	0.0
			eSg	41	30.40	
EYL	1.07	122	ePg	41	20.50	0.2
DMK	1.13	307	iPn	41	21.50	0.2
EDC	1.16	227	ePn	41	22.00	0.3
MFT	1.33	255	iPn	41	24.00	-0.6
DST	1.56	190	ePn	41	28.30	0.4

S.D. = 0.4 on 8 of 8 obs.

? SEP 05, 1991 09h 41m 47.02± 3.03s

2.530 N ±23.0km 153.989 E ±46.1km
DEPTH = 33.0km (normal)
4 5mb (3 obs.)
E. CAROLINE ISLANDS, MICRONESIA (614)

RAB	6.92	195	iPd	43 29.00	0.2
OIS	26.93	211	eP	47 27.00	-0.4
	0.6s	8.00nm		4.5mb	
RMO	29.29	190	eP	47 58.00	9.3X
BRS	29.77	182	eP	47 53.00	0.0
PLP	30.03	288	eP	47 55.50	0.1
OLP	30.44	197	eP	47 59.00	0.1
ASPA	32.57	216	iPd	48 27.40	9.8X
	0.8s	10.10nm		4.8mb	
STK	36.19	198	eP	48 56.20	7.6X
	0.5s	1.10nm		4.0mb	
	S.D. = 0.4	on	5 of	8 obs.	

SEP 05, 1991 10h 33m 57.44± 0.33s
11.590 S ± 4.0km 166.536 E ± 6.5km
DEPTH = 46.5km (9 depth phases)
5.0mb (22 obs.) 4.6Msz (2 obs.)
SANTA CRUZ ISLANDS (184)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 19S, 26C
Centroid Locotion:
Origin Time 10:34: 0.5 0.6
Lot 11.49S FIX;Lon 166.35E FIX
Dep 33.0 FIX Holf-durotion 1.5
Moment Tensor; Scale 10**16 Nm
Mrr= 4.73 0.31 Mtt=-1.81 0.70
Mff=-2.92 0.62 Mrt= 3.40 0.80
Mrf=-1.99 0.73 Mtf= 0.99 0.33
Principol Axes:

	Val=	Plg=	Azm=
T	6.41	67	24
N	-1.53	9	134
P	-4.88	21	228

Best Double Couple:Mo=5.6*10**16
NP1:Strike=333 Dip=25 Slip= 111
NP2: 131 67 81

BKM	6.26	165	iP	35 41.00	11.3X
HNR	6.82	288	eP	35 37.00	-0.6
			eS	36 48.00	
DZM	10.42	180	iPc	36 29.00	1.6
			iS	38 42.90	
BRS	20.35	217	iPc	38 33.80	1.1
	0.8s	4.40nm		3.8mb X	
			i(pP)	38 36.50	10kmX
			i	38 44.00	
			e(S)	42 27.00	
CTAO	21.24	244	iPc	38 44.50	2.6
	0.9s	25.95nm		4.6mb	
			ipP	38 55.00	41km
			eS	42 27.00	
RMO	22.36	226	iPc	39 03.80	10.8X
COO	23.27	213	eP	39 03.00	1.2
	0.9s	36.00nm		4.8mb	
OLP	25.75	231	iPd	39 25.90	0.3
	0.5s	18.00nm		4.9mb	
RIV	26.22	210	eP	39 33.00	3.2X
OIS	27.34	248	eP	39 39.00	-1.2
CMS	27.53	221	iPc	39 41.80	0.0
	0.3s	7.00nm		4.8mb	
BWA	28.09	213	eP	39 45.70	-1.3
			e	39 58.50	51km
CNB	28.30	211	eP	39 49.20	0.4
	1.0s	32.00nm		4.9mb	
CAN	28.48	211	eP	39 50.50	0.0
			e	40 03.10	50km
MNG	29.97	166	P	40 03.20	-0.5
PGZ	30.16	165	P	40 04.80	-0.6
TCW	30.28	168	P	40 06.40	0.0
MTW	30.49	167	P	40 07.30	-1.0
STK	30.60	225	iPc	40 09.80	0.5
	0.9s	10.00nm		4.6mb	
BLW	30.68	167	P	40 09.30	-0.7
AMW	30.69	166	P	40 09.70	-0.3
KHZ	31.31	170	eP	40 15.00	-0.4
WR2	32.01	251	iPd	40 20.20	-1.7
	0.6s	9.30nm		4.8mb	
			ipP	40 34.20	56km
			iPcP	43 11.00	
TOO	32.02	213	iPd	40 22.40	0.6
	0.9s	19.00nm		4.9mb	
EWZ	32.02	174	eP	40 22.20	0.6
BWZ	32.95	176	eP	40 29.70	0.0
ASPA	33.25	244	iPc	40 30.70	-2.0
	0.9s	16.50nm		4.9mb	
	Z 21s	0.80um		4.4Msz	
			e	40 44.70	55km
			ePcP	43 14.70	
BFD	33.37	216	eP	40 34.00	0.5
ADE	34.35	223	iPd	40 41.90	-0.2
	0.7s	89.04nm		5.8mb	
MBL	45.66	252	iPd	42 15.90	0.2
	0.8s	19.00nm		5.0mb	
CGP	46.13	294	eP	42 20.00	0.6
KLB	49.07	238	eP	42 41.00	-1.2
BAL	49.75	240	eP	42 46.50	-1.0
NANU	49.75	250	eP	42 47.50	-0.1
NWAO	49.81	237	eP	42 47.00	-0.9
MRWA	50.11	242	eP	42 50.00	-0.2
MUN	50.44	238	eP	42 52.00	-0.7
KKM	53.04	287	ePd	43 12.50	-0.1
MAT	54.81	332	eP	43 24.00	-1.2
			eS	51 23.00	
NJ2	62.95	315	Pc	44 21.00	-0.7
MDJ	65.19	332	eP	44 36.00	-0.1
TIA	66.54	318	eP	44 43.70	-1.2
CN2	66.60	329	P	44 45.30	0.2
	Z 22s	0.60um		4.8Msz	
			epP	44 57.00	39km
			eS	53 32.00	
IPM	67.10	280	ePd	44 49.00	0.1
GYA	69.36	304	P	45 03.00	0.1
BJI	69.39	321	eP	45 01.50	-1.1
LOE	70.19	293	eP	45 08.00	0.1
TIY	70.48	317	eP	45 09.40	-0.1
XAN	71.06	312	P	45 12.50	-0.5
HHC	72.75	319	eP	45 23.80	0.8
CHG	73.15	294	ePc	45 26.20	0.6
	1.0s	15.50nm		4.9mb	
CHTO	73.15	294	iP	45 25.80	0.2
	0.9s	11.30nm		4.8mb	
			pP	45 38.20	42km
CD2	73.55	307	iPd	45 28.60	0.8
	1.0s	20.00nm		5.0mb	
BTO	73.61	319	eP	45 29.00	1.0
LZH	75.69	312	Pc	45 41.40	1.2
	1.4s	39.00nm		5.2mb	
	Z 25s	0.32um		4.5MszX	
			sP	45 52.00	
SPA	78.49	180	iPc	45 55.50	0.4
	0.6s	11.79nm		5.1mb	
YAK	78.81	343	eP	46 09.60	12.9X
GTA	79.99	314	iPc	46 05.00	1.3
	0.8s	10.00nm		4.8mb	
	Z 24s	0.30um		4.6MszX	
			pP	46 17.80	43km
PMR	80.80	20	eP	46 19.70	12.4X
	1.2s	30.30nm			
FBA	83.60	18	eP	46 21.50	-0.3
	0.9s	15.42nm		5.1mb	
GUN	87.26	299	Pc	46 41.72	0.5
KKN	87.74	299	Pc	46 43.62	0.3
	0.9s	45.00nm		5.7mb	
DMN	87.85	299	Pc	46 44.58	0.7
	0.9s	71.00nm		5.9mb	
GKN	88.35	299	Pc	46 46.16	0.0
	0.9s	58.00nm		5.8mb	
HYB	91.52	287	eP	47 01.20	0.3
			e	47 14.00	42km
GBA	91.82	283	Pd	47 02.90	0.6
	0.9s	6.80nm		5.1mb	
POO	96.12	288	eP	47 25.50	3.4X
SOB1	145 78	126	ePKP	53 33.60	0.0
	S.D. = 0 8	on	62 of	68 obs.	

% SEP 05, 1991 10h 59m 24.96± 0.78s
39.059 N ± 6.0km 15.603 E ± 9.4km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

CZI	0.44	69	P	59 34 10	0.1
CSI	0.89	36	P	59 42 60	0.5
ATN	0.90	187	P	59 43.00	0.7
			eSg	59 55.50	
ROI	0.91	55	P	59 42 60	0.2
			eSg	59 56.60	
SOI	1.05	160	P	59 43 50	-1.2
			eSg	59 57.00	
MGR	1.08	358	P	59 44.50	-0.7
			eSg	59 58.50	
MNO	1.33	213	P	59 50.00	0.3
	S.D. = 0.9	on	7 of	7 obs.	

• SEP 05, 1991 12h 08m 17.57± 1.53s
37.625 N ±12.9km 20.370 E ±10.5km
DEPTH = 10.0km (geophysicist)
3.9mb (2 obs.)
IONIAN SEA (399)
ML 3.7 (ATH).

VLS	0.58	17	ePb	08 30.00	0.7
IGT	1.90	359	iPc	08 52.44	2.1
AGG	2.08	47	ePd	08 50.66	-2.3
KEK	2.13	348	ePb	08 56.50	2.8X
VLI	2.24	113	ePn	08 56.50	1.2
ATH	2.67	82	ePn	09 01.00	-0.4
			eSn	09 31.60	
KZN	2.89	22	ePn	09 06.00	1.4
LIT	2.97	33	ePc	09 05.08	-0.6
FNA	3.25	14	ePc	09 09.40	-0.2
PAIG	3.46	47	ePd	09 13.14	0.6
OHR	3.50	5	ePn	09 19.00	5.9X
			i	09 28.70	
CZI	3.69	297	P	09 13.90	-1.9
OUR	3.90	45	ePc	09 18.56	-0.3
SOH	3.94	35	ePd	09 17.72	-1.7
SRS	4.29	35	ePc	09 24.32	0.0
SKO	4.42	10	ePn	09 25.20	-1.0
VBY	8.75	336	e(Pn)	10 32.40	5.4X
			eSn	12 05.60	
HFS	22.93	351	eP	13 24.80	2.3
	0.5s	1.40nm		3.7mb	
EKA	23.81	326	P	13 37.00	5.9X
	0.8s	3.50nm		4.0mb	
	S.D. = 1.5	on	15 of	19 obs.	

? SEP 05, 1991 12h 12m 07.47± 6.24s
19.444 N ±38.9km 67.353 W ±33.6km
DEPTH = 10.0km (geophysicist)
MONA PASSAGE (89)

APR	1.15	149	iP	12 30.00	1.0
LRS	1.24	157	iP	12 30.70	0.1
MGP	1.45	170	iP	12 34.30	0.6
			S	12 49.80	
CLLP	1.54	151	iP	12 35.80	0.8
LPR	1.80	129	iP	12 39.30	0.4
CPD	1.95	136	iP	12 41.50	0.5
	S.D. = 0.4	on	6 of	6 obs.	

? SEP 05, 1991 13h 36m 01.17± 8.33s
31.775 S ±59.9km 70.077 W ±13.8km
DEPTH = 144.9 ± 52.6 km
CHILE-ARGENTINA BORDER REGION (127)

JACH	1.00	206	iPd	36 26.00	0.1
			iS	36 43.00	
ROCH	1.43	213	iPd	36 30.00	-0.2
			iS	36 50.50	
PEL	1.46	200	iPd	36 30.10	-0.2
			iS	36 51.00	
MDZ	1.52	137	iP	36 30.90	0.0
			iS	36 51.70	
SAN	1.74	196	eP	36 33.50	0.1
			iS	36 56.50	
PCH	1.88	191	ePd	36 35.50	0.5
			iS	37 00.60	
TACH	2.01	201	iPd	36 36.10	-0.4
			iS	37 02.60	
LCCH	2.11	216	iP	36 38.20	0.5
			iS	37 05.00	
CHCH	2.21	193	iPd	36 39.00	0.1
			iS	37 07.00	
LNV	2.45	207	iPd	36 41.50	-0.3
			iS	37 10.50	
	S.D. = 0.4	on	10 of	10 obs.	

? SEP 05, 1991 14h 06m 31.77± 9.54s
34.097 S ±29.1km 69.756 W ±68.4km
DEPTH = 10.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)

CHCH	0.76	282	iPd	06 46.50	-0.2
			iS	06 52.20	
PCH	0.79	307	iP	06 47.50	0.3
			iS	06 54.50	

05d 14h

TACH	1.08	294	iP	06	52.10	0.0
			iS	07	02.40	
LNV	1.38	275	iP	06	57.50	0.5
			iS	07	11.50	
LCCH	1.63	292	(P)	07	00.00	-0.6
			iS	07	19.00	

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

SEP 05, 1991 14h 09m 12.81± 0.45s
13.257 N ± 9.6km 55.291 E ± 6.4km
DEPTH = 10.0km (geophysicist)
4.7mb (20 obs.)

SOCOTRA REGION (416)

QUE	20.00	31	eP	13	51.30	2.5
GBA	21.54	87	Pc	14	08.10	3.6X
	0.7s		3.50nm			3.9mb
IR4	22.24	350	eP	14	16.00	4.5X
IR5	22.27	350	eP	14	28.50	16.7X
KER	22.28	342	eP	13	56.00	-15.9X
IR1	22.45	350	eP	14	17.80	4.2X
IR7	22.74	350	eP	14	23.00	6.5X
HYB	22.81	77	eP	14	21.00	3.9X
MAIO	23.25	9	eP	14	24.00	2.6
GKN	31.03	57	P	15	33.60	0.3
DMN	31.27	58	P	15	35.00	-0.5
KKN	31.48	58	P	15	37.64	0.3
	0.7s		16.00nm			5.0mb
PKI	31.51	58	P	15	36.06	-1.6
GUN	32.02	58	P	15	36.54	-5.7X
MTD	37.94	219	iPc	16	31.90	-0.7
KRI	39.21	221	iPc	16	46.90	3.6X
SKO	40.99	321	eP	16	49.00	-8.6X
WMO	41.21	36	eP	16	58.00	-1.5
			PP	18	37.00	
CHG	42.24	77	eP	17	11.90	3.8X
CHTO	42.24	77	eP	17	10.20	2.1
	0.8s		1.83nm			3.9mb
BUL	42.31	219	iPc	17	10.40	1.6
VBY	46.66	322	e(P)	17	45.30	2.0
GYA	49.77	67	P	18	08.60	0.6
SBF	50.96	316	eP	18	16.00	-0.7
	0.6s		8.10nm			4.8mb
FRF	51.38	316	eP	18	19.30	-0.5
	0.8s		8.05nm			4.7mb
LMR	51.39	315	eP	18	19.50	-0.4
	0.8s		8.05nm			4.7mb
LPG	52.02	318	eP	18	24.80	-0.2
	0.8s		4.05nm			4.4mb
LPL	52.04	318	eP	18	24.80	-0.3
	0.8s		6.70nm			4.6mb
XAN	52.67	57	P	18	28.50	-1.3
LBF	54.35	319	eP	18	41.20	-0.8
LOR	54.53	319	eP	18	43.10	-0.1
	0.6s		4.50nm			4.7mb
SSF	54.68	319	eP	18	44.00	-0.3
	0.8s		6.70nm			4.7mb
AVF	54.69	318	eP	18	43.80	-0.6
	0.8s		4.05nm			4.5mb
BGF	54.94	318	eP	18	45.90	-0.3
	0.8s		12.10nm			5.0mb
HFS	55.83	336	eP	18	52.00	-0.4
	0.5s		1.90nm			4.4mb
TIY	56.10	53	eP	18	53.90	-0.9
LDF	57.50	320	eP	19	04.20	-0.3
	0.8s		8.05nm			4.8mb
FLN	57.78	320	eP	19	05.80	-0.7
	0.8s		10.75nm			4.9mb
GRR	57.90	319	eP	19	06.50	-0.8
	0.6s		4.50nm			4.7mb
LPF	57.91	319	eP	19	07.00	-0.4
	0.8s		8.05nm			4.8mb
TIC	59.65	270	P	19	21.30	1.2
LIC	59.74	270	P	19	22.20	1.5
CN2	66.64	48	eP	20	06.00	0.2
			epP	20	13.00	22kmX
WRA	84.45	112	P	21	47.00	-0.5
	1.0s		9.00nm			5.0mb
WR2	84.47	112	iPd	21	47.10	-0.5
	0.7s		8.80nm			5.1mb
ASPA	85.10	116	iPc	21	50.20	-0.5
	0.5s		6.80nm			5.1mb

S.D. = 1.1 on 35 of 46 obs.

---

* SEP 05, 1991 15h 03m 17.72± 0.88s
38.352 N ± 9.3km 38.221 E ±10.5km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

GAZ	1.42	214	ePn	03	43.00	-0.6
KVT	3.20	329	ePn	04	08.00	-1.0
MSL	4.39	115	ePnc	04	26.00	0.1
			iSn	05	17.80	
			iS*	05	26.50	
			iSg	05	36.50	
BBTK	4.50	291	eP	04	34.00	6.4X
KAS	4.56	313	eP	04	33.00	4.5X
BHL	4.90	206	Pn	04	30.00	-3.3X
			Sn	05	56.00	
CSS	5.19	231	eP	04	37.50	0.3
TAB	6.39	90	eP	05	06.00	11.6X
BHD	7.12	133	ePn	05	32.00	27.5X
			eSn	06	51.00	
			eS*	07	05.00	
			eSg	07	20.00	
PRU	20.49	312	P	07	58.20	0.0
			e	10	01.50	
KHC	20.72	309	eP	08	02.00	1.3

S.D. = 1.0 on 6 of 11 obs.

? SEP 05, 1991 15h 40m 55.33± 9.41s
32.253 S ±60.2km 71.948 W ±48.8km
DEPTH = 33.0km (normal)

NEAR COAST OF CENTRAL CHILE (135)

IHA	0.81	162	eP	41	11.00	0.7
			iS	41	18.50	
ROCH	1.07	132	iPd	41	13.50	-0.7
			iS	41	24.50	
JACH	1.22	111	iPd	41	16.50	0.2
			iS	41	30.00	
LCCH	1.26	165	iPd	41	16.50	-0.2
			iS	41	29.50	
PEL	1.39	130	iPd	41	18.50	-0.1
			iS	41	33.50	
SAN	1.61	138	iPc	41	22.00	0.1
			iS	41	39.10	
TACH	1.63	149	iPc	41	22.00	-0.2
			iS	41	38.60	
LNV	1.76	165	iP	41	23.40	-0.5
			iS	41	43.00	
PCH	1.82	139	iPc	41	25.10	0.1
			iS	41	45.00	
CHCH	2.00	147	iPc	41	28.10	0.6
			iS	41	49.70	

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

SEP 05, 1991 16h 24m 38.61± 0.61s
39.433 N ± 5.5km 20.266 E ± 5.4km
DEPTH = 5.0km (geophysicist)

GREECE-ALBANIA BORDER REGION (392)
MD 3.4 (THE).

IGT	0.11	27	ePd	24	40.38	-0.6
KEK	0.46	308	eP	24	48.00	0.2
VLS	1.28	169	eP	25	01.40	-1.4
KZN	1.45	53	eP	25	05.50	-0.1
FNA	1.59	32	ePc	25	08.66	1.1
			eS	25	33.66	
AGG	1.65	104	ePc	25	08.10	-0.3
			eS	25	33.14	
OHR	1.72	13	iPn	25	12.10	2.6X
	0.7s		422.00nm			
			iSg	25	37.20	
LIT	1.84	68	ePd	25	11.70	0.6
			eS	25	36.90	
GRG	2.23	46	ePc	25	18.14	1 3
VAY	2.58	42	ePn	25	19.70	-2 0
KNT	2.65	49	ePc	25	23.30	0.5
PAIG	2.68	78	ePc	25	22.50	-0.7
			iS	25	55.22	
SKO	2.69	19	ePn	25	23.00	-0.3
			iPg	25	30.00	
			iSn	25	58.00	
			iSg	26	04.00	
SOH	2.74	59	ePd	25	24.50	0.4
			eS	26	01.46	
BRT	2.76	303	P	25	33.50	9.2X
			eSn	26	11.00	
OUR	3.00	71	ePd	25	27.50	-0.1
SRS	3.05	55	ePd	25	28.62	0.2
CZI	3.21	267	P	25	30.60	-0.1
VLI	3.43	141	eP	25	36.00	2 1
MGR	3.70	282	P	25	42.00	4.4X
SGO	3.97	288	P	25	46.50	5.0X
			eSn	26	34.50	
ALN	4.66	70	ePc	25	50.54	-0.8
IZI	7.14	80	iPg	26	32.20	5.9X

S.D. = 1.0 on 18 of 23 obs.

SEP 05, 1991 16h 33m 07.25± 0.80s
43.919 N ± 6.4km 7.215 E ± 4.7km
DEPTH = 10.0km (geophysicist)

NEAR SOUTH COAST OF FRANCE (379)
ML 2.2 (GEN).

STV	0.33	14	P	33	14.15	-0.1
			S	33	19.26	
ENR	0.34	26	P	33	14.46	0.1
			S	33	19.79	
IMI	0.49	91	P	33	16.90	-0.3
			S	33	24.10	
PZZ	0.59	352	P	33	18.95	-0.4
			S	33	27.15	
FIN	0.77	68	P	33	22.35	0.0
			S	33	33.53	
RRL	1.05	343	P	33	27.00	-0.2
			S	33	40.97	
CDR	1.08	257	eP	33	27.60	0.1
			e	33	42.90	
PCP	1.14	56	P	33	28.92	0.3
			S	33	43.68	
RSP	1.23	1	P	33	30.59	0.3
			S	33	45.84	

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

SEP 05, 1991 16h 45m 34.32± 0.54s
52.105 N ±12.0km 169.410 W ± 6.9km
DEPTH = 33.0km (normal)
4.7mb (26 obs.) 3.9Msz (2 obs.)

FOX ISLANDS, ALEUTIAN ISLANDS (9)

ADK	4.50	270	eP	46	41.50	-0.4
SDN	6.20	55	eP	47	05.50	-0.4
KDC	11.24	53	eP	48	13.00	-2.5
TTA	12.99	28	eP	48	41.00	2.0
KLU	15.84	44	eP	49	14.00	-2.3
INK	23.58	33	eP	50	42.00	-0.3
	0.5s		12.00nm			4.7mb
YKA	30.44	49	eP	51	45.70	0.2
	0.4s		3.90nm			4.6mb
MBC	30.79	21	eP	51	48.00	-0.4
SES	35.73	69	eP	52	32.00	0.5
BW06	40.47	79	eP	53	12.80	1.3
CN2	43.06	286	eP	53	33.50	1.1
SSE	53.80	276	eP	55	01.50	5.8X
BTO	54.04	292	eP	54	57.00	-0.6
SCH	55.68	43	eP	55	09.00	-0.2
XAN	59.15	287	P	55	33.00	-1.0
SOD	60.24	353	iP	55	39.60	-1.4
GTA	60.58	297	P	55	42.00	-1.9
	0.8s		10.00nm			5.0mb
Z	16s		0.30um			4.5MszX
			pP	55	50.00	26kmX
			sP	55	54.00	
WMO	63.68	308	eP	56	03.60	-0.8
CD2	64.43	288	P	56	09.20	-0.3
KAF	65.45	352	eP	56	14.40	-1.1
GYA	65.96	283	eP	56	22.80	3.3X
NUR	67.17	353	eP	56	25.60	-0.9
	0.6s		9.80nm			5.1mb
NB2	67.21	360	P	56	26.10	-0.7
	0.7s		5.40nm			4.8mb
HFS	68.09	358	eP	56	30.90	-1.3
	0.5s		14.70nm			5.3mb
LSA	72.54	296	P	57	00.80	0.5
GUN	76.83	298	P	57	25.06	0.2
	0.5s		33.00nm			5.6mb
KKN	77.25	299	P	57	27.10	0.1
	0.5s		13.00nm			5.2mb
KSP	77.31	356	eP	57	27.00	0.3
PKI	77.35	299	P	57	27.58	-0.1
	0.6s		6.00nm			4.8mb
GKN	77.42	299	P	57	27.70	-0.2
	0.6s		12.00nm			5.1mb
DMN	77.48	299	P	57	28.52	0.2
	0.5s		8.00nm			5.0mb
KHC	79.11	358	eP	57	37.00	0.4
ZST	79.92	356	eP	57	41.80	0.9
HAU	80.20	3	eP	57	42.90	0.4
Z	20s		0.05um			3.9Msz

BSF 80.39 3 eP 57 43.90 0.3
LOR 80.84 5 eP 57 46.60 0.7
0.8s 4.05nm 4.5mb
Z 20s 0.05um 3.9Msz
SSF 81.03 5 eP 57 47.60 0.8
0.9s 5.75nm 4.6mb
LBF 81.13 5 eP 57 47.90 0.5
0.8s 2.70nm 4.3mb
MFF 81.24 7 eP 57 48.90 1.0
1.0s 12.00nm 4.9mb
AVF 81.29 5 eP 57 48.90 0.7
1.0s 6.00nm 4.6mb
SMF 81.46 5 eP 57 49.80 0.7
1.0s 10.00nm 4.8mb
LSF 81.72 6 eP 57 51.10 0.7
1.0s 8.00nm 4.7mb
TCF 81.72 6 eP 57 51.10 0.6
0.8s 2.70nm 4.3mb
MAF 81.81 6 eP 57 51.90 1.0
0.8s 4.05nm 4.5mb
QUE 84.38 314 eP 58 05.60 1.0
EPF 84.83 8 eP 58 07.00 0.5
0.8s 4.05nm 4.7mb
PGF 85.72 1 eP 58 12.90 1.9
0.8s 13.45nm 5.2mb
WR2 86.81 232 eP 58 15.50 -0.9
0.7s 2.80nm 4.6mb
WRA 86.82 232 P 58 15.00 -1.4
0.5s 1.90nm 4.6mb
PSI 88.92 273 ePd 58 28.60 1.9
e 59 50.00
HYB 89.24 298 eP 58 28.00 -0.3
ASPA 90.21 230 eP 58 32.40 -0.1
1.7s 8.10nm 4.7mb
GBA 92.97 296 Pc 58 44.90 -0.6
0 4s 1.60nm 4.8mb
S.D. = 1.0 on 51 of 53 obs.

? SEP 05, 1991 17h 13m 35.07± 5.37s
20.993 S ±45.4km 68.902 W ±19.5km
DEPTH = 33.0km (normal)
CHILE-BOLIVIA BORDER REGION (124)

CNCB 4.25 12 P 14 40.00 0.3
CCH 4.44 36 P 14 47.00 4.8X
LPB 4.50 10 P 14 44.00 0.8
ZOBO 4.76 9 P 14 45.70 -1.1
ARE 5.13 331 eP 14 52.00 0.0
iS 15 47.00
SIV 8.94 57 P 15 45.00 0.0
S.D. = 1.0 on 5 of 6 obs.

SEP 05, 1991 19h 23m 04.80± 0.41s
38.847 N ± 8.9km 41.417 E ± 5.5km
DEPTH = 10.0km (geophysicist)
4.3mb (13 obs.)
TURKEY (366)

MSL 2.82 150 ePnc 23 51.00 0.3
eP• 23 54.00
iPg 23 58.00
iSn 24 28.00
iSg 24 31.00
GAZ 3.72 245 ePn 24 01.90 -1.6
TAB 3.93 100 eP 24 17.00 10.4X
SLY 4.60 134 ePnd 24 32.00 16.1X
eSn 25 30.00
iS• 25 40.00
iSg 25 53.00
KVT 4.69 300 ePn 24 26.90 9.5X
BHD 6.06 156 ePn 24 40.00 3.5X
e 25 13.50
eSn 25 52.00
iSg 26 28.00
KER 6.41 133 eP 25 00.00 18.3X
BHL 6.78 225 P 24 46.00 -0.8
S 26 42.00
8BTK 6.78 281 eP 24 52.00 5.1X
e 25 08.00
MAIO 14.56 94 eP 26 35.00 2.1
SKO 15.53 288 eP 26 51.60 6.2X
OBN 16.58 350 eP 26 57.00 -1.7
e 27 11.00
SPC 18.34 311 eP 27 11.30 -9.7X
SRO 18.99 306 eP 27 32.90 4.2X
CZI 19.63 279 P 27 36.50 0.1
ZST 19.88 306 eP 27 42.70 3.7X
ARV 21.88 291 P 28 01.40 1.8
ASS 22.07 290 P 28 04.60 3.1X
PRU 22.07 309 eP 28 06.00 4.6X
KHC 22.39 306 eP 28 06.00 1.3
e 28 10.00
QUE 22.69 105 eP 28 09.81 1.9
BRG 22.74 311 e(P) 28 12.70 4.7X
PGD 22.78 292 P 28 10.90 2.2
CTI 23.02 298 P 28 12.90 2.0
WTTA 23.22 301 iPd 28 17.60 4.7X
1.0s 12.80nm 4.4mb
i 28 21.70
CLL 23.45 311 eP 28 16.00 1.1
1.1s 11.00nm 4.3mb
MME 23.53 293 P 28 19.20 3.2X
GRF 24.03 307 eP 28 21.10 0.5
1.4s 32.00nm 4.7mb
NUR 24.10 340 iP 28 28.50 7.4X
e 28 36.00
BOB 24.45 294 P 28 28.50 3.7X
PGF 24.77 289 eP 28 27.80 -0.1
0.8s 8.05nm 4.4mb
KAF 25.07 343 eP 28 29.70 -0.8
SBF 25.88 292 eP 28 38.30 0.0
1.0s 14.00nm 4.6mb
LPG 26.39 296 eP 28 44.60 1.3
0.8s 2.70nm 4.0mb
LPL 26.40 296 eP 28 44.70 1.3
0.8s 2.70nm 4.0mb
BNI 26.43 295 P 28 43.10 -0.4
BGF 29.14 298 eP 29 06.50 -1.4
0.8s 2.70nm 4.1mb
MAF 29.33 297 eP 29 08.00 -1.6
0.8s 4.05nm 4.3mb
TCF 29.58 297 eP 29 10.40 -1.5
0.8s 2.70nm 4.1mb
EKA 33.85 314 Pd 29 47.70 -1.5
0 8s 3.20nm 4.3mb
GKN 37.35 94 P 30 19.12 -0.3
DMN 37.90 94 P 30 24.20 0.0
KKN 37.95 93 P 30 24.16 -0.4
PKI 38.16 94 P 30 26.20 -0.2
GUN 38.36 93 P 30 27.66 -0.5
GBA 40.53 118 Pd 30 45.10 -0.7
0.8s 1.20nm 3.6mb
LZH 48.77 73 Pc 31 51.00 -0.9
1.0s 16.00nm 5.0mb
SSE 63.90 70 eP 33 38.50 -1.5
S.D. = 1.3 on 31 of 48 obs.

• SEP 05, 1991 20h 30m 44.73± 1.23s
13.911 N ±11.0km 124.019 E ±13.3km
DEPTH = 61.1 ± 10.5 km
4.9mb (4 obs.)
LUZON, PHILIPPINE ISLANDS (249)

PLP 2.89 161 ePd 31 30.00 0.8
eS 31 45.00
TGY 3.00 274 ePd 31 30.50 -0.4
eS 31 52.00
PGP 3.01 263 ePd 31 30.50 -0.5
MAP 3.57 181 eP 31 33.50 -5.3X
CVP 4.32 331 eP 31 49.00 -0.4
SZP 4.99 317 iPd 32 03.50 4.7X
CGP 5.46 173 eP 32 06.00 0.5
CHTO 24.54 285 eP 36 00.20 0.1
0.6s 1.12nm 3.5mb X
WR2 35.15 163 iPd 37 32.90 -1.8
0.5s 8.30nm 4.9mb
GUN 38.08 298 P 38 04.74 4.9X
PKI 38.41 297 P 38 03.96 1.4
0.6s 8.00nm 4.8mb
KKN 38.57 297 P 38 04.40 0.6
ASPA 38.58 165 iPc 38 03.30 -0.2
0.5s 13.50nm 5.1mb
DMN 38.68 297 P 38 05.30 0.6
GKN 39.17 297 P 38 07.90 -0.8
STK 48.55 160 iPc 39 23.90 0.1
0.7s 1.40nm 4.1mb
S.D. = 1.0 on 13 of 16 obs.

• SEP 05, 1991 20h 55m 17.47± 0.77s
41.076 N ±17.6km 20 059 E ± 6 5km
DEPTH = 5.0km (geophysicist)
ALBANIA (391)
ML 2.4 (SKO) MD 3.2 (ATH).

OHR 0.56 86 iPg 55 27.50 -1.2
iSg 55 34.60
SKO 1.37 49 ePg 55 43.00 -0.2
iSg 55 59.30
KEK 1.38 188 ePn 55 45.50 2.2X
KZN 1.51 120 ePn 55 46.00 0.7
LCI 1.76 246 P 55 47.60 -1.2
eSg 56 05.00
VAY 1.91 82 ePn 55 52.00 1.0
LIT 2.09 117 P 55 55.40 1.8X
KNT 2.15 87 P 55 55.90 1.5X
BRT 2.17 266 P 55 59.80 5.0X
eSn 56 22.40
MGR 3.55 256 P 56 14.00 -0.4
eSn 56 52.80
SGO 3.64 263 P 56 17.00 1.4
eSn 56 55.80
S.D. = 1.3 on 7 of 11 obs.

? SEP 05, 1991 21h 25m 58.20± 1.33s
2.836 N ±13.2km 99.830 E ± 9.6km
DEPTH = 33.0km (normal)
3.3mb (1 obs.)
NORTHERN SUMATERA, INDONESIA (706)

TSI 1.43 298 eP 26 22.00 0.0
iS 26 49.00
KLM 1.83 82 eP 26 31.50 3.6X
e 27 05.00
IPM 2.10 35 ePd 26 32.00 0.2
iS 27 27.00
KGM 3.58 103 ePd 26 52.70 -0.1
SNG 4.38 10 eP 27 03.90 -0.3
0.7s 164.38nm
CHG 15.90 357 eP 29 42.00 0.7
CHTO 15.90 357 eP 29 40.70 -0.6
0.9s 2.13nm 3.3mb
S.D. = 0.6 on 6 of 7 obs.

SEP 05, 1991 21h 36m 29.68± 0.68s
20.377 S ± 5.9km 178.516 W ±12.1km
DEPTH = 572.4 ± 6.6 km
4.8mb (12 obs.)
FIJI ISLANDS REGION (181)

SVA 3.64 308 ePc 37 51.80 0.7
VUN 3.70 309 eP 37 51.00 -0.6
MBU 4.28 322 ePc 37 55.60 -0.2
KUZ 17.07 196 P 40 02.30 4.1X
URZ 18.22 191 P 40 08.50 -0.7
NOZ 18.42 189 P 40 12.50 1.4
RUZ 19.42 195 P 40 21.30 0.8
PGZ 20.66 191 eP 40 31.90 0.1
MNG 20.82 193 eP 40 32.10 -1.2
0.2s 8.00nm 5.0mb
MTW 21.33 192 eP 40 37.40 -0.6
AMW 21.43 192 eP 40 38.70 -0.1
MRW 21.57 194 eP 40 40.00 -0.1
TCW 21.66 195 eP 40 40.50 -0.4
THZ 22.53 197 eP 40 48.80 0.0
KHZ 22.97 195 eP 40 52.40 -0.4
0.3s 17.00nm 5.2mb
LTZ 23.65 197 P 40 58.00 -0.9
WVZ 24.37 199 P 41 05.40 0.2
LRCZ 26.59 199 eP 41 24.90 -0.1
MSCZ 26.60 199 eP 41 25.60 0.7
MMCZ 26.60 200 eP 41 24.90 -0.1
CNB 31.90 235 eP 42 13.00 2.5
1.0s 13.00nm 4.5mb
CTAO 33.02 264 iPd 42 21.00 1.0
0.9s 43.25nm 5.1mb
TOO 35.58 233 eP 42 43.30 2.2
0.9s 15.00nm 4.6mb
STK 37.41 244 eP 43 00.60 4.5X
0.6s 1.70nm 3.8mb
ASPA 44.08 257 iPd 43 49.50 0.0
0.3s 23.30nm 5.2mb
iS 49 41.50
eScS 52 44.40
WR2 44.11 262 iPd 43 49.20 -0.6
0.3s 27.90nm 5.3mb
WRA 44.14 262 P 43 49.00 -0.9
0.4s 11.80nm 4.8mb
FORR 48.86 246 eP 44 25.30 -0.4
MBL 57.31 257 iPc 45 24.70 -1.2
0.3s 9.00nm 4.5mb
NANU 60.96 255 eP 45 49.50 -0.7

05d 21h

SPA	69.75	180	iPc	46 43.30	-1.0	
	1.0s	16.50nm		4.5mb		
CHG	89.75	290	eP	48 27.80	-1.1	
CHTO	89.75	290	iP	48 27.50	-1.3	
	0.9s	5.75nm		4.5mb		
HFS	139.34	351	ePKP	54 38.50	-14.7X	
	0.4s	1.50nm				
EKA	144.92	5	PKPc	54 58.20	-4.8X	
	0.7s	3.00nm				
KSP	147.43	342	iPKPd	55 06.20	-1.1	
SPC	147.57	337	ePKP	55 08.40	0.6	
CLL	147.83	346	iPKP	55 06.80	-1.1	
	1.2s	22.00nm				
BRG	148.02	345	iPKP	55 07.70	-0.5	
	1.3s	18.00nm				
PRU	148.68	344	PKPd	55 09.30	0.1	
			e	55 15.50		
MOX	148.75	348	ePKP	55 09.80	0.5	
ZST	149.52	339	ePKP	55 11.60	1.1	
			e	56 53.10		
KHC	149.72	344	ePKP	55 12.00	1.1	
			e	55 20.00		
GRF	149.74	347	ePKP	55 11.50	0.6	
			e	55 19.70		
WLF	150.54	354	PKP	55 14.00	2.0X	
FLN	151.64	3	ePKP	55 15.40	1.7	
	0.4s	2.30nm				
CDF	151.64	352	ePKP	55 16.00	2.2X	
	0.6s	3.60nm				
LDF	151.82	2	ePKP	55 15.80	1.9X	
	0.4s	3.45nm				
GRR	151.99	3	ePKP	55 16.40	2.2X	
	0.4s	2.85nm				
LPF	152.34	4	ePKP	55 17.10	2.4X	
	0.5s	4.35nm				
SSF	153.33	357	ePKP	55 21.10	5.0X	
MFF	153.81	3	ePKP	55 20.30	3.6X	
LSF	154.19	360	ePKP	55 21.80	4.5X	
S.D. = 1.0 on 41 of 53 obs.						

% SEP 05, 1991 21h 56m 53.65± 0.80s
38.730 N ± 7.2km 0.610 W ± 8.1km
DEPTH = 10.0km (geophysicist)
SPAIN (377)
mbLg 3.1 (MDD).

ACU	0.27	144	ePg	56 59.60	0.3	
			eSg	57 03.80		
ECHE	0.90	342	ePg	57 11.90	0.9	
			eSg	57 23.00		
EVIA	1.48	267	ePn	57 20.60	0.1	
			eSn	57 39.50		
EHUE	1.81	240	ePn	57 25.50	0.3	
			eSn	57 47.50		
EROO	2.23	20	ePn	57 30.40	-0.8	
ETOR	2.37	332	ePn	57 40.00	6.8X	
			eSn	58 08.00		
EBAN	2.56	258	ePn	57 35.00	-0.8	
TOL	2.90	294	ePg	57 49.00	8.2X	
			iSg	58 27.00		
GUD	3.34	306	ePn	57 57.60	10.6X	
S.D. = 0.9 on 6 of 9 obs.						

* SEP 05, 1991 22h 07m 07.96± 1.98s
37.244 N ±14.1km 28.033 E ±17.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YER	0.23	118	iPg	07 12.50	-0.4	
			eSg	07 16.70		
CIN	0.36	7	iPd	07 16.00	0.7	
IZM	1.30	332	iPn	07 31.80	-0.3	
ELL	1.58	108	iPn	07 37.00	0.8	
KHL	1.60	47	ePn	07 35.50	-0.9	
YLV	3.48	17	ePn	08 12.00	8.7X	
S.D. = 1.0 on 5 of 6 obs.						

& SEP 05, 1991 22h 16m 19.71s
65.908 N 150.538 W
DEPTH = 21.7km
NORTHERN ALASKA (676)
<AEIC>. ML 2.7 (AEIC).

IMA	1.30	279	eP	16 42.46	-0.2	
			eS	16 59.43		
MDM	1.36	134	eP	16 42.81	-0.6	
			S	17 01.04		
NEA	1.47	155	eP	16 44.91	-0.2	
			S	17 04.26		
FBA	1.53	130	eP	16 45.89	0.0	
			S	17 06.01		
GLM	1.61	124	eP	16 46.41	-0.7	
			S	17 08.23		
WRH	1.77	143	eP	16 48.66	-0.8	
			S	17 13.01		
HDA	2.14	133	eP	16 53.61	-1.1	
FYU	2.25	70	eP	16 55.68	-0.6	
KTH	2.37	184	eP	16 57.88	-0.2	
TRF	2.47	177	eP	16 58.68	-0.9	
SKT	3.97	187	eP	17 20.19	-0.5	
11 obs. associated						

% SEP 05, 1991 22h 28m 31.05± 0.58s
44.401 N ± 5.5km 7.294 E ± 7.0km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.3 (GEN).

DOI	0.11	341	Pd	28 35.00	1.0	
			eSg	28 37.10		
STV	0.16	172	P	28 35.07	0.3	
			S	28 37.33		
PZZ	0.17	307	P	28 35.28	0.2	
			S	28 37.74		
ENR	0.20	152	P	28 35.90	0.5	
			S	28 38.77		
BHB	0.44	357	P	28 39.89	-0.2	
RRL	0.63	325	P	28 42.87	-1.1	
			S	28 52.30		
IMI	0.65	139	P	28 43.09	-1.0	
			S	28 52.52		
FIN	0.68	106	P	28 44.51	-0.1	
			S	28 54.25		
PCP	0.91	81	P	28 48.81	0.4	
			S	29 01.12		
S.D. = 0.8 on 9 of 9 obs.						

? SEP 05, 1991 22h 53m 13.97±12.02s
4.707 N ±82.0km 76.960 W ±61.4km
DEPTH = 33.0km (normal)
COLOMBIA (103)
MD 2.7 (UVC).

HOBC	0.89	113	eP	53 30.34	0.1	
			eS	53 41.90		
CLMC	0.91	154	eP	53 31.45	0.9	
			eS	53 43.90		
BUGC	1.07	139	eP	53 32.38	-0.4	
			eS	53 45.30		
ANCC	1.19	175	ePc	53 34.54	0.2	
			eS	53 49.30		
HOOC	1.27	165	eP	53 35.10	-0.7	
			eS	53 49.90		
S.D. = 0.9 on 5 of 5 obs.						

* SEP 05, 1991 23h 04m 06.54± 1.16s
36.382 N ±19.1km 70.087 E ± 7.2km
DEPTH = 33.0km (normal)
3.9mb (1 obs.)
HINDU KUSH REGION, AFGHANISTAN (718)

QUE	6.71	204	iP	05 45.70	0.2	
			eS	06 58.20		
MAIO	8.55	273	iPd	06 10.80	-0.3	
GKN	14.87	120	P	07 35.96	-0.3	
DMN	15.44	120	P	07 44.14	0.4	
KKN	15.45	119	P	07 42.90	-1.0	
PKI	15.68	120	P	07 46.50	-0.4	
GUN	15.80	118	P	07 48.82	0.3	
CHTO	30.82	117	e(P)	10 22.90	1.2	
	1.0s	2.25nm		3.9mb		
S.D. = 0.8 on 8 of 8 obs.						

SEP 05, 1991 23h 19m 09.36± 0.56s
42.624 N ± 4.0km 13.488 E ± 7.0km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

AQU	0.28	193	P	19 14.50	-0.7	
			eSg	19 19.00		
AZI	0.64	184	P	19 20.60	-1.5	
MNS	0.64	248	Pd	19 21.40	-0.9	
			eSg	19 31.50		
ASS	0.75	307	Pc	19 24.20	0.0	
			eSg	19 36.00		
SDI	0.95	165	P	19 27.50	0.0	
			eSg	19 41.70		
ARV	0.96	336	Pc	19 27.90	0.2	
			eSg	19 42.20		
RMP	1.00	216	P	19 29.50	1.2	
			eSg	19 42.50		
RDP	1.04	214	P	19 29.60	0.6	
			eSg	19 43.00		
DUI	1.20	143	P	19 32.90	1.1	
CRE	1.51	312	P	19 38.00	1.5	
			eSn	19 57.00		
SFI	1.76	318	P	19 40.50	0.4	
PGD	1.80	315	P	19 40.50	-0.3	
SGO	2.47	146	P	19 50.40	0.1	
CTI	3.67	340	P	20 06.50	-0.9	
PTJ	3.72	28	eP	20 20.50	12.3X	
FVI	4.00	353	P	20 11.10	-0.8	
			eSn	20 55.90		
S.D. = 0.9 on 15 of 16 obs.						

* SEP 06, 1991 00h 00m 24.62± 0.73s
54.686 N ±14.9km 163.682 W ± 8.0km
DEPTH = 33.0km (normal)
4.6mb (21 obs.)
UNIMAK ISLAND REGION (10)
ML 4.4 (PMR).

SDN	1.95	69	eP	00 55.60	-0.4	
KDC	6.95	59	eP	02 04.50	-2.2	
SVW	7.73	30	eP	02 08.30	-9.4X	
ADK	8.28	256	eP	02 25.00	-0.3	
TTA	9.17	23	eP	02 40.60	3.0	
KLU	11.58	47	eP	03 08.50	-2.1	
INK	19.53	34	eP	04 50.00	-1.8	
MSU	37.96	93	e(P)	07 43.00	2.0	
MAT	43.14	270	eP	08 22.00	-1.4	
KEV	55.62	356	eP	09 57.00	-1.8	
SOD	58.02	355	eP	10 15.00	-0.9	
KAF	63.28	355	iP	10 51.00	-0.7	
	0.5s	9.20nm		5.2mb		
NB2	64.55	3	P	10 59.80	-0.3	
	0.7s	4.30nm		4.7mb		
NUR	64.96	355	eP	11 02.10	-0.5	
HFS	65.51	1	eP	11 05.00	-1.2	
	0.5s	11.50nm		5.2mb		
EKA	69.18	12	Pd	11 29.60	0.3	
	0.6s	4.00nm		4.7mb		
MOX	74.97	3	eP	12 04.00	0.3	
GRF	75.91	3	iPc	12 09.90	0.8	
	0.9s	8.00nm		4.7mb		
LDF	76.17	11	eP	12 21.80	11.2X	
	0.8s	4.05nm				
GRR	76.28	12	eP	12 11.30	0.1	
	0.6s	3.60nm		4.6mb		
KHC	76.53	2	eP	12 13.80	1.1	
LPF	76.61	12	eP	12 13.30	0.2	
	0.6s	3.60nm		4.6mb		
HAU	77.34	7	eP	12 17.60	0.5	
	0.6s	3.60nm		4.6mb		
ZST	77.49	359	eP	12 18.70	0.8	
BSF	77.54	7	eP	12 18.50	0.1	
	0.6s	3.60nm		4.6mb		
LOR	77.88	9	eP	12 20.40	0.3	
	0.8s	6.70nm		4.7mb		
SSF	78.05	9	eP	12 21.40	0.4	
	0.8s	6.70nm		4.7mb		
MFF	78.13	12	eP	12 21.90	0.4	
	0.8s	5.35nm		4.6mb		
AVF	78.30	9	eP	12 22.60	0.2	
	0.6s	3.15nm		4.5mb		
WTTA	78.35	3	iPd	12 23.90	1.0	
	0.7s	8.00nm		4.8mb		
GUN	78.48	302	P	12 23.74	-0.4	
SMF	78.49	9	eP	12 23.50	0.0	
	0.8s	4.70nm		4.6mb		
KBA	78.58	2	iPd	12 25.60	1.4	
LSF	78.66	10	eP	12 24.50	0.1	
	0.9s	6.55nm		4.6mb		
TCF	78.69	10	eP	12 24.60	0.0	
	0.8s	2.70nm		4.3mb		
MAF	78.79	10	eP	12 25.50	0.3	
	0.6s	2.25nm		4.3mb		
KKN	78.88	303	P	12 25.78	-0.4	
PKI	79.00	302	P	12 26.22	-0.8	
GKN	79.01	303	P	12 26.44	-0.4	
DMN	79.11	303	P	12 26.90	-0.6	

LFF 79.87 11 eP 12 31.50 0.6
0.4s 2.30nm 4.5mb
MAIO 82.08 326 eP 12 44.00 1.2
PGF 82.94 5 eP 12 48.10 0.9
0.6s 3.60nm 4.6mb
OUE 84.93 318 eP 12 57.70 0.1
WRA 91.11 236 P 13 31.00 4.0X
0.9s 0.80nm 4.1mb
BUL 144.27 340 iPKPd 19 56.10 -2.7X
S.D. = 1.1 on 42 of 46 obs.

? SEP 06, 1991 01h 42m 36.50± 17.24s
34.450 S ±98.3km 70.394 W ±69.7km
DEPTH = 10.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)

CHCH 0.56 337 iPc 42 47.80 -0.1
iS 42 56.50
PCH 0.83 353 iPd 42 52.70 0.0
iS 43 04.80
TACH 0.91 330 iPc 42 54.10 0.1
iS 43 07.00
LNV 0.98 300 iP 42 55.00 0.0
iS 43 08.60
PEL 1.33 349 (P) 43 06.00 5.0X
iS 43 20.10
S.D. = 0.1 on 4 of 5 obs.

& SEP 06, 1991 01h 43m 48.22s
32.924 N 108.029 W
DEPTH = 10.0km (geophysicist)
NEW MEXICO (496)
<SNM>. MD 2.8 (SNM). Felt in the Silver City oreo.

SMNM 1.20 44 Pgd 44 10.50 -0.2
WTX 1.46 38 Pnd 44 14.90 0.1
Pg 44 15.50
Sg 44 35.50
CRNM 1.49 46 Pnc 44 15.20 0.0
Pg 44 16.20
Sg 44 37.30
BMNM 1.49 25 Pnc 44 15.40 0.1
Pg 44 15.80
Sg 44 35.80
LAZ 1.65 26 Pn 44 17.40 -0.1
Pg 44 18.50
Sg 44 42.00
BNM 1.69 44 Pn 44 18.10 0.0
Pg 44 20.20
Sg 44 44.20
LPM 1.81 40 Pn 44 19.40 -0.5
Pg 44 21.20
Sg 44 47.00
BDNM 1.82 30 Pn 44 20.50 0.8
Pg 44 22.50
ALQ 2.40 33 ePn 44 27.90 -0.5
Pg 44 32.00
Sn 45 00.00
Sg 45 04.00
ANMO 2.40 33 eP 44 27.80 -0.6
CLNB 3.56 100 Pn 44 47.00 2.2
Pg 44 55.80
S 45 42.00
PV09 5.63 351 P 45 17.00 2.6
MSU 6.52 330 e(P) 45 26.50 -0.2
13 obs. ossocioted

? SEP 06, 1991 02h 27m 39.94± 6.39s
10.122 N ±39.4km 62.039 W ±30.5km
DEPTH = 10.0km (geophysicist)
NEAR COAST OF VENEZUELA (97)

TPP 0.61 71 eP 27 52.90 0.7
eS 28 07.40
TCE 0.64 26 iPc 27 52.74 0.0
eS 28 07.24
TRN 0.82 50 eP 27 55.77 0.1
eS 28 11.76
TBH 1.02 69 eP 27 58.92 -0.3
eS 28 16.58
PIG 1.57 49 eP 28 08.19 0.4
BOT 1.66 51 eP 28 08.28 -0.9
GRW 2.06 10 eP 28 15.26 0.2
eS 28 44.01
S.D. = 0.6 on 7 of 7 obs.

SEP 06, 1991 02h 38m 10.58± 0.25s
16.423 S ± 7.1km 173.782 W ± 6.9km
DEPTH = 33.0km (normal)
4.9mb (19 obs.)
TONGA ISLANDS (173)

DZM 19.49 250 iPd 42 39.90 1.8
KUZ 22.28 203 P 43 07.40 1.0
URZ 23.18 198 eP 43 15.30 0.1
MOZ 24.18 202 P 43 27.10 2.2
RUZ 24.54 201 eP 43 28.00 -0.5
PMO 24.95 90 iP 43 32.20 -0.4
0.8s 15.00nm 4.6mb
TPT 25.22 90 iP 43 34.60 -0.5
0.8s 20.00nm 4.8mb
RUV 25.42 91 iP 43 36.40 -0.6
0.8s 20.00nm 4.8mb
PGZ 25.61 198 eP 43 38.20 -0.3
KHZ 28.09 200 eP 44 03.50 2.2
0.7s 58.00nm 5.4mb
LTZ 28.85 202 eP 44 05.30 -2.9
EWZ 30.00 203 eP 44 17.90 -0.5
COO 34.33 240 iPd 44 56.50 0.0
0.3s 9.00nm 5.2mb
CNB 37.84 233 iPc 45 26.00 -0.1
1.0s 36.00nm 5.2mb
CAN 38.12 233 eP 45 27.60 -0.9
BWA 38.28 235 eP 45 26.60 -3.2X
CMS 39.60 240 iPd 45 41.80 1.0
0.5s 13.00nm 4.9mb
TOO 41.54 231 iPd 45 56.30 -0.4
0.8s 21.00nm 4.9mb
STK 43.22 241 eP 46 10.60 0.1
0.6s 8.00nm 4.6mb
BFD 43.66 233 iPd 46 13.30 -0.6
WR2 49.24 258 eP 46 57.40 -0.8
0.5s 5.10nm 4.8mb
WRA 49.26 258 P 46 57.00 -1.4
0.7s 6.00nm 4.7mb
ASPA 49.45 253 iPc 46 59.10 -0.8
0.6s 67.30nm 5.8mb
i 47 23.60
PAS 72.99 46 eP 49 39.00 0.0
MWC 73.11 46 eP 49 40.00 0.0
RVR 73.45 46 eP 49 42.00 0.3
PLM 73.46 47 eP 49 42.00 0.0
SBB 73.53 45 eP 49 42.00 -0.3
CLC 74.31 45 eP 49 47.00 0.2
GSC 74.56 45 eP 49 49.00 0.7
RSO 78.47 10 e(P) 50 09.70 -0.1
PMR 80.19 12 eP 50 18.70 -0.1
1.0s 15.00nm 4.9mb
PNT 81.07 32 eP 50 24.00 0.3
0.7s 5.00nm 4.6mb
BALM 81.19 15 eP 50 24.40 0.1
ALQ 81.73 50 eP 50 28.00 0.2
1.0s 6.75nm 4.6mb
ANMO 81.74 50 iP 50 28.90 1.1
0.9s 3.99nm 4.4mb
LRM 83.04 38 eP 50 34.90 0.5
BW06 83.27 42 iP 50 35.60 0.0
1.0s 22.50nm 5.2mb
FBA 83.46 11 ePd 50 35.40 -0.4
0.8s 24.14nm 5.4mb
e 50 45.30
RSSD 87.46 43 iP 50 55.90 -0.4
0.8s 8.01nm 5.0mb
MOX 145.59 354 ePKP 57 47.00 0.0
PRU 145.85 350 ePKP 57 48.00 0.5
e 58 15.20
KHC 146.83 351 ePKP 57 38.50 -10.6X
e 57 52.00
e 58 17.00
FLN 147.28 8 ePKP 57 52.00 2.2X
0.9s 10.75nm
LDF 147.50 8 ePKP 57 52.50 2.3X
0.8s 5.35nm
GRR 147.60 9 ePKP 57 52.80 2.5X
0.8s 5.35nm
LPF 147.92 9 ePKP 57 53.80 3.0X
0.8s 8.05nm
LOR 149.18 3 ePKP 57 56.10 3.2X
0.8s 4.05nm
SSF 149.37 4 ePKP 57 56.80 3.6X
0.8s 5.35nm
LBF 149.47 3 ePKP 57 57.10 3.7X
0.8s 4.05nm

SMF 149.80 3 ePKP 57 58.70 4.8X
0.9s 8.20nm
BGF 149.82 5 ePKP 57 58.90 5.0X
0.8s 5.35nm
LSF 150.00 7 ePKP 57 59.10 4.9X
0.8s 8.05nm
TCF 150.04 6 ePKP 57 59.30 5.1X
1.0s 5.00nm
MAF 150.13 5 ePKP 57 59.90 5.5X
1.0s 12.00nm
S.D. = 0.9 on 41 of 55 obs.

SEP 06, 1991 03h 23m 07.39± 0.29s
45.649 N ± 2.5km 6.814 E ± 3.1km
DEPTH = 10.2 ± 2.9 km
FRANCE (538)
ML 2.4 (LDG), 2.4 (GEN).

RSL 0.14 286 Pg 23 10.20 -0.6
Sg 23 11.84
LPL 0.14 203 Pg 23 11.00 0.0
Sg 23 13.30
LPG 0.16 196 Pg 23 11.20 0.0
LSD 0.31 128 P 23 13.86 0.0
S 23 17.96
EMS 0.43 11 ePc 23 15.70 -0.5
RSP 0.59 148 P 23 19.40 0.0
S 23 27.09
DIX 0.60 44 ePd 23 19.10 -0.6
BNI 0.60 189 P 23 19.30 -0.4
eSg 23 26.30
RRL 0.73 182 P 23 21.65 -0.2
S 23 31.10
ORX 0.82 91 P 23 23.19 -0.1
S 23 33.35
BHB 0.87 158 P 23 24.64 0.6
S 23 35.61
MMK 0.90 63 ePd 23 25.00 0.2
PZZ 1.16 170 P 23 29.24 0.0
S 23 44.02
TMA 1.51 72 ePd 23 39.10 4.5X
SBF 1.84 166 Pg 23 44.60 5.3X
Sg 24 08.00
FRF 2.09 183 Pg 23 47.80 4.9X
BSF 2.18 360 Pn 23 45.60 1.3
LRG 2.22 189 Pg 23 50.20 5.5X
LBF 2.38 305 Pn 23 47.20 0.2
Pg 23 52.40
Sg 24 21.00
HAU 2.38 352 Pn 23 46.80 -0.2
SLE 2.41 28 ePd 23 53.20 5.7X
LOR 2.61 309 Pn 23 50.00 -0.3
Sg 24 27.80
AVF 2.66 297 Pn 23 51.00 0.0
Sg 24 29.60
BGF 2.91 290 Pn 23 55.00 0.5
Sg 24 37.00
S.D. = 0.5 on 19 of 24 obs.

SEP 06, 1991 04h 01m 53.36± 0.46s
0.055 N ± 5.2km 78.423 W ± 8.4km
DEPTH = 10.0km (geophysicist)
COLOMBIA-ECUADOR BORDER REGION (106)
MD 4.2 (QUI).

YANA 0.22 221 P+ 01 58.20 -0.3
QUR 0.25 205 iPd 01 58.30 -0.6
eS 02 00.60
QTO 0.28 203 P 01 59.80 0.3
GGP 0.29 217 P+ 01 59.30 -0.3
COTA 0.29 17 P+ 01 58.30 -1.4
CAYA 0.44 87 Pd 02 02.00 -0.5
VC1 0.69 179 P+ 02 07.20 -0.2
QUIL 0.95 212 P 02 12.10 0.3
S 02 25.70
ANGL 0.99 117 P 02 07.60 -4.8X
CUMC 1.06 31 eP 02 12.20 -1.4
TUNG 1.46 181 P 02 20.50 0.4
eS 02 41.40
PURC 3.05 42 eP 02 49.76 6.7X
SILC 3.34 39 eP 02 51.05 3.9X
ANCC 3.77 24 eP 02 51.95 -1.0
HOOC 3.83 28 eP 02 55.67 1.7
eS 03 40.60
CLMC 4.23 26 eP 03 00.12 0.6
BUGC 4.38 30 eP 03 02.74 1.1
HOBC 4.84 28 eP 03 09.26 1.1

06d 04h

eS 04 04.30
S.D. = 1.0 on 15 of 18 obs.

SEP 06, 1991 04h 44m 41.72± 0.41s
44.573 N ± 2.4km 6.921 E ± 3.5km
DEPTH = 9.8 ± 4.7 km
FRANCE (538)
ML 2.3 (LDG), 2.3 (GEN).

PZZ	0.15	118	P	44	45.76	0.5
			S	44	48.84	
DOI	0.24	107	P	44	47.40	0.5
			eSg	44	51.80	
RRL	0.36	344	P	44	48.41	-0.8
			S	44	54.01	
BHB	0.36	42	P	44	49.06	-0.1
STV	0.44	139	P	44	50.68	0.0
			S	44	57.14	
ENR	0.50	134	P	44	51.33	-0.5
			S	44	58.63	
BNI	0.51	340	P	44	53.70	1.6
			eSg	44	57.90	
RSP	0.63	22	P	44	54.07	-0.3
			S	45	03.48	
SBF	0.80	152	Pg	44	57.00	-0.3
			Sg	45	09.20	
LSD	0.90	11	P	44	58.63	-0.5
			S	45	11.12	
LPG	0.93	353	Pg	44	59.60	-0.1
			Sg	45	11.20	
LPL	0.95	352	Pg	44	59.60	-0.4
IMI	0.96	133	P	45	00.02	-0.1
			S	45	13.27	
CKI	0.98	98	P	45	00.50	0.1
			eSg	45	14.50	
FIN	0.99	111	P	45	00.84	0.3
			S	45	14.78	
FRF	1.03	191	Pg	45	00.40	-0.8
			Sg	45	14.50	
PCP	1.16	91	P	45	03.60	0.1
			S	45	19.51	
LRG	1.19	200	Pg	45	03.90	0.0
			Sg	45	18.00	
CDR	1.22	223	eP	45	05.10	0.6
			e	45	19.70	
LMR	1.27	194	Pg	45	05.30	-0.1
			Sg	45	22.00	

S.D. = 0.6 on 20 of 20 obs.

• SEP 06, 1991 05h 09m 11.06± 0.55s
1.189 N ±10.6km 122.483 E ± 9.4km
DEPTH = 33.0km (normol)
4.7mb (7 obs.) 3.7Msz (1 obs.)
MINAHASSA PENINSULA, SULAWESI (265)

MNI	2.37	84	eP	09	48.20	-0.3
			eS	10	10.00	
TSM	5.54	304	iPd	10	32.00	-1.4
MKS	7.04	205	ePc	11	00.70	6.2X
KKM	7.90	308	ePc	11	07.00	0.4
WR2	24.02	152	iPd	14	23.10	-1.0
	0.7s		42.00nm			5.1mb
			epP	14	45.00	101kmX
NANU	24.56	196	eP	14	28.70	-0.6
ASPA	27.09	157	eP	14	52.20	-0.7
	0.7s		7.60nm			4.4mb
Z	20s		0.20um			3.7Msz
OIS	27.36	143	eP	14	54.00	-1.3
STK	37.55	153	iPd	16	23.90	-0.2
	0.8s		8.70nm			4.7mb
ADE	39.05	159	iPc	16	36.70	0.0
	0.8s		86.57nm			5.6mb
BFD	42.46	156	iPd	17	04.90	0.2
BWA	42.98	148	eP	17	10.30	1.3
CAN	43.97	148	eP	17	17.40	0.4
TOO	44.05	153	eP	17	18.20	0.5
	1.1s		21.00nm			4.9mb
CNB	44.16	148	eP	17	19.80	1.2
	0.8s		7.00nm			4.5mb
GBA	46.24	288	Pd	17	36.70	1.3
	0.7s		3.50nm			4.4mb

S.D. = 1.0 on 15 of 16 obs.

• SEP 06, 1991 06h 12m 57.24± 0.96s
19.412 S ±20.0km 176.113 W ±11.6km
DEPTH = 33.0km (normol)
4.9mb (3 obs.)

FIJI ISLANDS REGION (181)

SVA	5.30	283	ePd	14	16.60	0.4
VUN	5.33	284	eP	14	16.10	-0.5
DZM	16.53	258	iPc	16	41.90	-6.4X
RMQ	33.03	251	eP	19	39.50	7.6X
	1.0s		20.00nm			5.0mb
CAN	34.59	235	eP	19	45.10	-0.2
BWA	34.78	237	eP	19	38.50	-8.4X
CTAO	35.38	262	eP	19	51.50	-0.6
CMS	36.23	243	eP	20	00.00	0.8
TOO	37.97	233	eP	20	17.60	3.8X
	0.8s		11.00nm			4.8mb
ASPA	46.50	255	eP	21	03.10	-20.4X
	1.0s		4.00nm			
			i	21	22.20	
ALQ	85.34	51	e(P)	25	32.00	-0.8
F8A	86.81	12	eP	25	40.00	0.9
	0.8s		7.93nm			5.0mb
KSP	147.13	345	ePKP	32	40.60	4.5X
CLL	147.37	349	ePKP	32	40.00	3.6X
	1.1s		18.00nm			
			i	32	45.90	
BRG	147.61	348	e(PKP)	32	41.40	4.5X
			e	32	46.50	
MOX	148.23	351	e(PKP)	32	50.80	12.9X
PRU	148.33	347	ePKP	32	45.50	7.5X
KHC	149.34	347	ePKP	32	47.00	7.3X
ZST	149.35	343	e(PKP)	32	54.30	14.6X

S.D. = 0.8 on 7 of 19 obs.

? SEP 06, 1991 07h 28m 04.47± 0.94s
59.857 N ± 8.5km 6.172 E ± 9.2km
DEPTH = 10.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 1.6 (BER).

ODD1	0.24	76	iPc	28	09.58	0.0
			eS	28	12.21	
KMY	0.80	216	iPc	28	19.96	0.0
			eS	28	30.68	
HYA	1.31	0	eP	28	28.61	-0.1
			eS	28	45.69	
SUE	1.39	330	eP	28	29.98	0.1
			eS	28	47.27	

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

? SEP 06, 1991 07h 38m 25.33± 5.51s
32.651 S ±32.0km 71.761 W ±29.5km
DEPTH = 20.1 ± 8.7 km
NEAR COAST OF CENTRAL CHILE (135)

ROCH	0.71	117	iPd	38	39.00	0.0
			iS	38	48.70	
LCCH	0.84	169	iPd	38	40.90	-0.2
			iS	38	51.50	
JACH	0.99	92	iPd	38	43.60	-0.1
			iS	38	57.00	
PEL	1.03	119	iPd	38	44.50	0.1
			iS	38	58.30	
TACH	1.22	146	iP	38	46.80	-0.4
SAN	1.22	131	eP	38	47.00	-0.3
			iS	39	04.20	
LNV	1.33	167	iP	38	49.00	0.2
			iS	39	05.50	
PCH	1.42	133	iPc	38	50.50	0.3
			iS	39	09.00	
CHCH	1.58	144	iPc	38	52.90	0.4
			iS	39	13.40	

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

% SEP 06, 1991 07h 42m 48.89± 2.50s
43 905 N ±20.3km 7.987 E ± 9.2km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
ML 2.1 (GEN).

IMI	0.07	275	P	42	51.50	0.2
			S	42	55.60	
FIN	0.34	28	P	42	56.63	0.6
			S	43	03.81	
ENR	0.52	308	P	42	59.70	0.2
			S	43	09.96	
STV	0.59	306	P	43	00.83	0.0
			S	43	11.70	
PCP	0.75	32	P	43	03.09	-0.6
			S	43	15.19	
PZZ	0.88	314	P	43	05.34	-0.5
			S	43	19.80	

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

% SEP 06, 1991 08h 11m 38.18± 0.89s
2.265 N ± 7.2km 76.506 W ± 8.2km
DEPTH = 10.0km (geophysicist)
COLOMBIA (103)
MD 4.2 (UVC).

PURC	0.15	69	iPc	11	41.84	-0.2
			eS	11	44.90	
SILC	0.45	22	iPc	11	47.23	-0.2
HOQC	1.20	354	iPc	12	00.44	-0.3
			eS	12	17.40	
ANCC	1.29	344	iPc	12	02.00	-0.2
			eS	12	20.20	
CLMC	1.61	358	iPc	12	06.38	-0.4
			eS	12	27.80	
BUGC	1.64	9	iPc	12	07.70	0.5
			eS	12	30.20	
CUMC	1.88	227	eP	12	11.13	0.0
			eS	12	36.00	
HOBC	2.11	10	iPc	12	15.00	0.9
			eS	12	43.00	

S.D. = 0.5 on 8 of 8 obs.

SEP 06, 1991 09h 13m 00.30± 0.72s
39.345 N ± 6.3km 20.502 E ± 6.3km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
MD 2.8 (THE).

IGT	0.23	325	ePd	13	04.82	-0.4
			eS	13	09.10	
KEK	0.66	304	eP	13	13.20	-0.2
VLS	1.17	177	eP	13	22.50	0.4
KZN	1.37	45	eP	13	26.20	0.7
			eS	13	47.80	
AGG	1.46	102	ePd	13	26.02	-0.7
FNA	1.59	25	ePc	13	29.86	1.3
			eS	13	51.62	
LIT	1.71	63	iPc	13	30.05	-0.3
			eS	13	53.42	
OHR	1.78	7	ePn	13	31.80	0.5
GRG	2.17	42	ePd	13	37.10	0.1
VAY	2.53	38	ePn	13	40.00	-2.0
KNT	2.58	45	ePc	13	42.86	0.1
SOH	2.64	55	iPc	13	44.22	0.5
SKO	2.72	15	ePn	13	48.50	3.7X

S.D. = 0.9 on 12 of 13 obs

% SEP 06, 1991 09h 33m 05.70± 1.24s
38.248 N ± 7.1km 30.462 E ±14.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

KHL	0.74	276	ePn	33	20.50	0.2
ALT	0.85	341	iPg	33	21.50	-0.7
			eSg	33	34.50	
ELL	1.56	197	iPn	33	33.50	-0.1
GPA	2.04	357	ePn	33	41.00	0.5
IZI	2.22	340	ePn	33	43.00	-0.2
YLV	2.46	340	ePn	33	47.00	0.4

S.D = 0.6 on 6 of 6 obs.

% SEP 06, 1991 09h 57m 42.05± 1.07s
18.298 N ±12.3km 77.174 W ± 7.2km
DEPTH = 10.0km (geophysicist)
JAMAICA REGION (86)
MD 2.5 (HOJ).

BBJ	0.12	314	iPc	57	45.23	0.1
			S	57	58.87	
STH	0.41	123	iPc	57	49.89	-0.5
			S	57	56.68	
GWJ	0.47	118	ePc	57	50.79	-0.8
			S	57	57.18	
SPJ	0.47	231	iPd	57	51.57	-0.1
			S	57	59.39	
HOJ	0.50	126	ePc	57	53.54	1.4
			S	57	59.71	

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

SEP 06, 1991 09h 59m 07.71± 0.76s
13.978 N ±10.3km 89.812 W ± 6.0km
DEPTH = 10.0km (geophysicist)

EL SALVADOR (73)
Felt (II) at Ahuachapan.

CUSS	0.15	242	iPc	59 10.40	-0.8
YPE	0.19	42	iPd	59 11.50	-0.5
VSS	0.60	113	iPc	59 20.00	0.0
LFU	0.72	109	eP	59 21.60	-0.2
VSM	1.59	110	eP	59 37.00	0.8
TPX	2.55	292	iP	59 50.50	0.8
			iS	00 23.00	

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

---

* SEP 06, 1991 11h 21m 05.12± 0.93s
2.865 S ±11.6km 129.698 E ±16.4km
DEPTH = 10.0km (geophysicist)
4.4mb (6 obs.)

SERAM, INDONESIA (272)

AAI	1.71	241	ePd	21 35.00	-0.1
			eS	21 48.00	
WR2	17.58	165	eP	25 10.90	-1.1
	0.2s	14.70nm		4.8mb	
			i	25 14.80	
			eS	28 32.90	
OIS	20.06	152	iPc	25 42.10	0.5
	0.2s	5.00nm		4.5mb	
MBL	20.56	207	eP	25 43.00	-3.8X
	0.4s	2.00nm		3.8mb	
ASPA	21.08	169	iPc	25 51.80	-0.3
	0.7s	65.00nm		5.1mb	
			eS	29 44.60	
STK	30.96	160	eP	27 25.70	1.0
	0.6s	1.30nm		4.0mb	
TOO	37.46	159	eP	28 23.80	3.2X
	0.9s	7.00nm		4.4mb	
MAT	40.00	11	(P)	28 40.00	-1.8
YAK	64.70	0	eP	31 47.00	1.7
MTD	96.94	253	iPc	34 42.30	3.5X

S.D. = 1.5 on 7 of 10 obs.

SEP 06, 1991 11h 46m 06.81± 0.95s
6.124 S ± 3.9km 130.622 E ± 5.7km
DEPTH = 146.1 ± 9.8 km
5.3mb (30 obs.)

BANDA SEA (280)

AAI	3.42	315	ePc	47 00.00	-0.1
			eS	47 30.50	
KUPT	8.02	240	eP	48 03.00	1.3
			eS	49 31.00	
MKS	11.13	274	ePd	48 53.60	10.7X
MNDI	12.96	91	eP	49 05.00	-2.0
WR2	14.21	166	iPc	49 15.60	-7.2X
	0.2s	157.90nm		6.0mb	
			iS	51 46.10	
BIP	14.91	343	iPd	49 34.00	2.6
TSM	16.41	309	ePc	49 50.00	-0.1
OIS	16.79	150	iPd	49 49.30	-5.4X
	0.4s	36.00nm		5.0mb	
			eS	52 41.50	
MAP	17.63	338	iPc	50 02.00	-2.9
	1.0s	30.00nm		4.6mb	
ASPA	17.72	170	iPc	50 02.40	-3.7X
	0.9s	105.20nm		5.2mb	
	Z 22s	0.60um		5.2Msz	
			eS	53 05.40	
TRT	17.93	264	ePc	50 09.00	0.7
	0.9s	176.20nm		5.4mb	
MBL	18.24	214	iPc	50 09.80	-2.0
	0.3s	20.00nm		4.9mb	
			eS	53 20.00	
KKM	18.79	310	ePc	50 17.50	-0.2
	1.0s	429.40nm		5.7mb	
			e	50 25.00	
PPR	19.74	323	iPd	50 32.50	5.0X
CTAO	20.57	134	iPc	50 36.50	0.6
			e	50 48.50	
			iS	54 12.00	
			i	02 39.00	
PGP	21.73	334	iPc	50 49.00	1.6
	0.8s	83.00nm		5.2mb	
NANU	21.89	220	eP	50 49.00	0.1
			eS	54 50.00	
OLP	24.13	149	eP	51 11.00	0.4
			e	51 38.00	
			eS	55 32.00	
BAG	24.50	336	eP	51 14.00	-0.3
			eS	55 23.00	
FORR	24.71	185	eP	51 15.00	-0.9
RMO	26.63	142	eP	51 44.80	11.2X
			eS	56 57.20	
MRWA	26.81	209	iPc	51 35.00	-0.2
STK	27.60	160	iPc	51 41.80	-0.5
	0.3s	3.00nm		4.5mb	
			eS	56 55.40	
BAL	27.64	207	eP	51 42.00	-0.7
KLB	28.05	204	iPc	51 45.80	-0.6
MUN	29.04	206	iPd	51 55.00	-0.3
NWAO	29.44	203	iPd	51 48.50	-10.3X
ADE	29.66	166	eP	52 03.20	2.4
	0.8s	71.64nm		5.4mb	
IPM	31.41	289	ePc	52 14.50	-1.8
COO	31.48	143	eP	52 30.00	13.2X
BWA	32.62	152	eP	52 27.80	1.1
			e	52 39.80	
SNG	32.72	293	eP	52 27.20	-0.5
PSI	32.84	285	iPd	52 28.90	0.1
			e	56 00.00	
CAN	33.62	152	eP	52 35.50	0.1
			e	52 48.50	
CNB	33.79	152	eP	52 50.00	13.2X
TOO	34.11	159	eP	52 40.70	1.2
	0.7s	3.00nm		4.1mb X	
LOE	36.90	310	iPc	53 03.50	0.3
NST	37.16	306	iPc	53 06.50	1.2
SSE	38.09	347	Pc	53 13.70	0.7
	1.2s	27.00nm		4.9mb	
	Z 20s	1.10um		4.7Msz	
	N 10s	0.50um			
BDT	38.93	307	eP	53 17.70	-2.4
	1.0s	138.00nm		5.6mb	
NJ2	39.59	344	iPd	53 26.70	1.4
	0.6s	100.00nm		5.7mb	
	Z 20s	0.50um		4.3Msz	
WHN	39.65	338	iPc	53 27.50	1.6
	1.0s	80.00nm		5.4mb	
GYA	39.86	325	iPc	53 28.80	1.0
	1.2s	70.00nm		5.3mb	
CHG	39.86	309	iPc	53 28.70	0.9
	1.3s	187.50nm		5.7mb	
			e	59 10.00	
CHTO	39.86	309	iPc	53 28.50	0.7
	1.2s	118.06nm		5.5mb	
KMI	41.24	320	Pc	53 40.50	1.2
	1.5s	200.00nm		5.5mb	
TSRJ	41.74	7	P	53 42.80	-0.2
IIDJ	41.95	9	P	53 44.50	-0.2
CHJJ	42.68	10	P	53 49.80	-0.8
MTMJ	43.01	8	P	53 53.10	-0.4
MAT	43.03	9	iPd	53 52.50	-1.0
	0.8s	21.64nm		4.8mb	
			eS	00 02.00	
KAKJ	43.05	11	P	53 52.80	-0.8
NIIJ	43.84	10	P	53 59.10	-0.9
TIA	43.98	344	P	54 01.00	-0.2
CD2	44.91	327	eP	54 08.40	-0.3
	0.6s	60.00nm		5.4mb	
XAN	44.92	334	iPc	54 08.10	-0.6
	0.6s	60.00nm		5.4mb	
			pP	54 13.00	16kmX
			sP	54 15.60	
YAMJ	44.93	11	P	54 09.50	0.8
OFUJ	46.13	12	P	54 18.60	0.5
TIY	46.79	340	Pc	54 23.00	-0.5
	0.5s	40.00nm		5.3mb	
BJI	47.83	345	eP	54 31.00	-0.4
	1.0s	20.00nm		4.8mb	
SNY	48.15	353	Pc	54 33.60	-0.2
LZH	48.93	331	iPc	54 41.00	0.8
	6.0s	430.00nm		5.4mb X	
	Z 24s	0.50um		4.4MszX	
			PcP	56 07.00	
			PP	56 34.00	
CN2	49.91	355	eP	54 46.50	-0.8
HHC	49.91	341	P	54 48.00	0.4
	1.1s	40.00nm		5.1mb	
BTO	50.21	340	P	54 49.60	-0.2
MDJ	50.52	359	eP	54 52.00	0.1
LSA	52.00	315	iPc	55 04.20	0.2
	0.9s	30.00nm		5.0mb	
			S	02 15.00	
GTA	53.51	330	iPc	55 15 20	0.7
	4.0s	420 00nm		5 6mb X	
	Z 16s	0 50um		4.7MszX	
			PcP	56 20.00	
			PcS	00 17.60	
			S	02 37.20	
KOD	55.38	287	eP	55 27.80	-0.8
GBA	56.32	291	Pc	55 32.00	-3.0X
	1.4s	131.40nm		5.7mb	
HYB	56.49	295	iPc	55 34.70	-1.6
POO	61.09	295	iPc	56 06.70	-1.3
NDI	61.95	307	iPc	56 12.00	-1.6
	0.5s	56.34nm		5.8mb	
WMQ	63.01	326	P	56 21.50	1.1
	1.2s	80.00nm		5.5mb	
	Z 22s	0.80um		4.8Msz	
			PcP	57 04.50	
			PP	58 40.00	
			S	04 39.60	
YAK	67.94	360	iP	56 52.00	0.6
QUE	70.80	305	eP	57 10.10	0.3
MAIO	78.62	309	iPc	57 55.30	1.1
	0.9s	17.48nm		4.8mb	
SPA	83.92	180	iPc	58 21.40	0.0
	0.7s	8.59nm		4.7mb	
INK	97.82	22	eP	59 36.00	9.8X
KIC	135.64	273	PKP	05 05.40	-7.1X
MBO	147.09	287	iPKP	05 36.00	3.4X
LPB	150.85	141	PKP	05 52.00	13.1X
ZOBO	151.03	140	PKP	05 41.40	2.0X
	1.0s	27.50nm			
			i	05 47.00	
			i	06 26.00	
PPD	151.95	176	ePKP	05 47.30	7.3X

S.D. = 1.1 on 68 of 84 obs.

SEP 06, 1991 12h 08m 56.53± 0.36s
3.058 S ± 5.3km 133.940 E ± 8.1km
DEPTH = 50.0km (geophysicist)
4.8mb (14 obs.) 4.7Msz (4 obs.)

IRIAN JAYA REGION, INDONESIA (196)

AAI	5.77	264	eP	10 20.00	-1.8
			eS	11 08.50	
MNI	10.14	296	ePd	11 20.20	-2.1
KUPT	12.45	235	eP	11 54.50	1.0
DAV	13.09	320	eP	12 03.00	1.0
CGP	14.69	321	eP	12 17.00	-6.0X
WR2	16.79	179	iPc	12 45.60	-4.3X
	0.5s	26.90nm		4.6mb	
			i	12 51.90	
			eS	15 42.10	
OIS	18.25	163	eP	13 06.80	-1.2
	0.7s	21.00nm		4 4mb	
			eS	16 34.10	
KKM	19.88	297	ePd	13 28.00	1.3
ASPA	20.49	180	iPd	13 32.50	-0.5
	0.7s	737.30nm		6.1mb X	
	Z 18s	4.80um		4.9Msz	
			eS	17 11.30	
CTAO	20.76	146	iPc	13 36.00	0.3
	1.0s	40.00nm		4.7mb	
			ipP	13 48.50	54kmX
			eS	17 19.00	
TGY	21.38	323	eP	13 46.00	4.0X
MBL	22.63	216	iPd	13 55.20	0.8
	0.7s	32.00nm		4.9mb	
BAG	23.42	326	eP	14 03.00	0.7
			eS	18 17.50	
CVP	23.84	330	eP	14 06.00	-0.2
OLP	25.39	158	eP	14 21.00	0.0
NANU	26.36	221	eP	14 30.00	0.1
RMO	27.29	150	eP	14 49.00	10.5X
FORR	28.19	191	eP	14 46.30	-0.2
STK	29.56	167	eP	14 58.40	-0.5
	1.9s	4.80nm		3.9mb	
			eS	20 19.20	
BRS	30.16	145	eP	15 03.00	-1.3
CMS	30.42	160	eP	15 07.00	0.5
BWA	34.00	158	eP	15 38.50	0.8
BFD	34.86	168	eP	15 45.00	-0.1
CAN	35.01	158	eP	15 46.70	0.3
TOO	35.95	164	eP	15 55.00	0.7
	0.8s	17.00nm		5.0mb	
SSE	36.07	341	eP	15 59.00	3.6X
LOE	37.73	304	eP	16 09.00	-0.5
NST	38.27	300	eP	16 14.50	0.4
KHT	39.24	298	eP	16 23.90	1.7
CHG	40.72	304	eP	16 34.70	0.3
	1.0s	11.25nm		4.6mb	

CHTO 40.72 304 P 16 34.20 -0.2
0.9s 8 50nm 4.5mb
TIA 42.11 340 eP 16 44.70 -0.8
XAN 43.79 330 eP 16 57.90 -1.3
TIY 45.21 336 eP 17 13.40 2.8
Z 20s 0.60um 4.5Msz
N 12s 0.40um
BJI 45 88 341 eP 17 15.00 -0 8
1 5s 35.00nm 5 1mb
CN2 47.27 352 eP 17 26.00 -0.7
Z 22s 1.50um 4.9Msz
eS 24 10.00
MDJ 47.62 356 eP 17 27.60 -1.9
LZH 48.03 327 eP 17 33.00 0.0
1.5s 23.00nm 5.0mb
HHC 48.24 337 eP 17 34.80 0.3
Z 20s 0.60um 4.6Msz
BTO 48.64 336 eP 17 35.40 -2.2
GTA 52.63 327 eP 18 07.80 -0.2
0.6s 10 00nm 5.0mb
HYB 58.28 293 eP 18 49.00 0 0
GBA 58.44 288 Pd 18 48.60 -1.4
1.1s 8.60nm 4.8mb
IRK 60.55 340 eP 19 06.80 2.7
e 28 14.00
WMO 62.40 324 P 19 16.50 -0.2
1.0s 10.00nm 4.9mb
S 27 30.00
YAK 64.97 358 eP 19 33 20 0.1
QUE 71.85 303 eP 20 16 80 0.0
MAIO 79.33 308 eP 21 01.00 2.0
SPA 86.96 180 iPc 21 37 90 0.4
1.0s 19 50nm 5.3mb
ZOBO 150.94 132 PKP 28 48.70 7.7X
S.D = 1.2 on 44 of 50 obs.

SEP 06, 1991 12h 17m 23.49±17.34s
34.153 S ±70.7km 70 021 W ±97 1km
DEPTH = 10.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)

CHCH 0.57 293 iP 17 34.80 -0.3
iS 17 43.00
PCH 0.67 322 iPd 17 37.00 0.1
iS 17 45.80
TACH 0.91 303 iP 17 41 20 0 3
iS 17 53 40
PEL 1.15 331 eP 17 45.00 0.0
LNV 1.17 279 iPc 17 45.50 0.2
iS 18 00.50
S.D. = 0.3 on 5 of 5 obs.

? SEP 06, 1991 12h 19m 39.76± 6.27s
43.444 N ±51.9km 23.860 E ±17 5km
DEPTH = 10.0km (geophysicist)
BULGARIA (359)
MD 2.5 (THE).

SKO 2.31 231 ePn 20 18.00 -0.5
VAY 2.33 205 ePn 20 20.30 1 6
SRS 2.33 185 ePd 20 16.92 -1.9
eS 20 39.08
KNT 2.39 198 ePd 20 19 88 0.3
iS 20 42.92
MLR 2 53 35 eP 21 14 00 50.3X
SOH 2 65 188 ePc 20 22 08 -1.2
eS 20 49.04
GRG 2.71 204 ePc 20 28.32 4.1X
eS 20 55 56
ALN 3.02 147 ePc 20 28.52 0.1
eS 20 58 64
OUP 3.11 178 ePd 20 30.88 1 2
PAIG 3.52 182 ePd 20 35.80 0.3
S D = 1.4 on 8 of 10 obs

% SEP 06, 1991 12h 34m 28.11± 1 06s
37.209 N ± 8.2km 2.362 W ± 8 8km
DEPTH = 10.0km (geophysicist)
SPAIN (377)

ENIJ 0.27 152 eP 34 33 80 0 0
eS 34 37 60
EHUE 0 63 343 eP 34 40 80 - 1
eS 34 50 50
AFC 0 94 273 eP 34 46 00
eS 35 03.30
ELOG 0 96 274 eP 34 47 00 0 5

eS 35 04 50
EGUA 1 05 249 eP 34 47.40 -0 2
eS 35 05.00
S.D. = 0.4 on 5 of 5 obs

---

* SEP 06 1991 12h 51m 05 09± 2.86s
3.011 S ±16.9km 129.196 E ±24.1km
DEPTH = 76 1 ± 23.9 km
4.3mb (6 obs)
SERAM, INDONESIA (272)

AAI 1.20 234 ePd 51 27 00 0.2
eS 52 41.00
QIS 20.18 151 Pc 55 35.00 -1.1
0.7s 11.30nm 4.3mb
MBL 20 21 206 eP 55 35 00 -1.4
0.5s 2.00nm 3.7mb
ASPA 21.03 168 iPc 55 44.60 -0.2
0.8s 91.60nm 5.2mb
eS 59 34.30
STK 31.00 159 eP 57 17.80 0.3
1.0s 1.70nm 3.7mb
BFD 36 15 162 eP 58 04 00 2.1
CHG 36.83 307 eP 58 08 00 0.1
CHTO 36 83 307 eP 58 06.90 -0.9
1.0s 4 75nm 4.4mb
pP 58 19 30 46kmX
TOO 37 50 159 iPc 58 16.70 3.4X
0.9s 10 00nm 4.7mb
GUN 51.78 309 P 00 11 08 3 2X
PKI 51.98 309 P 00 12.50 3 2X
KKN 52.18 309 P 00 1..84 1 1
DMN 52.23 309 P 00 12 52 1.4
GKN 52.79 309 P 00 14 30 -0.8
YAK 64.85 0 eP 01 36 90 -1 0
S D. = 1.3 on 12 of 15 obs.

SEP 06, 1991 13h 14m 50 00± 0 31s
0.301 S ± 4 7km 132 775 E ± 6 9km
DEPTH = 20 4km (6 depth phases)
5.1mb (18 obs.) 4 3Msz (2 obs)
IRIAN JAYA REGION, INDONESIA (196)

AAI 5.68 234 ePd 16 17.00 1.6
eS 17 00 00
MNI 8 12 282 eP 16 50 00 0.3
DAV 10.27 316 eP 17 15 00 -4.4X
BIP 10.68 323 ePd 17 26 00 1.0
1.0s 48.00nm 5.7mb
BAG 20.51 325 eP 19 31 50 1.6
eS 23 26 00
CVP 20 89 329 eP 19 35 30 1.7
1.0s 165.00nm 5.4mb
QIS 21.21 162 iPc 19 35 70 -1.2
0.7s 109.00nm 5.4mb
TRT 21.38 249 ePc 19 40.00 1.4
ASPA 23.25 177 iPc 19 57 80 0.6
0.5s 103.70nm 5 6mb
Z 19s 1.20um 4.4Msz
ipP 20 54.10
eS 24 10 50
CTAO 23.68 147 iPc 20 03.00 1.7
1.0s 60.00nm 5 1mb
i 20 06 00 11km
eS 25 03.00
MBL 24 28 211 iPd 20 07 30 0.2
0.4s 9.00nm 4.7mb
NANU 27 77 213 iPd 20 40.10 0.4
OLP 28 36 156 iPc 20 44 00 -1.0
0.5s 35 00nm 5.4mb
e 21 16 00 153kmX
RMO 30 24 151 eP 21 11 20 9.3X
0.5s 5 00nm 4.6mb
IPM 32.09 279 ePd 21 17.90 -0.3
BRS 33.08 146 iPc 21 26 00 -0.7
0.9s 5.00nm 4.4mb
i(pP) 21 35 00 14km
CMS 33.39 159 eP 21 29 50 0.2
PSI 33 97 275 eP 21 34 70 0.1
e 21 00 00 472kmX
NJ2 34 77 339 Pc 21 43 00 1.8
pP 21 45 00 20km
ADE 34 93 171 e(P) 21 47 70 -0.9
COO 35 16 151 eP 21 45 00 0.3
LOE 35 27 301 eP 21 45 40 -0.3
WHN 35.33 332 eP 21 [illegible] 20 5 2X
BWA 36.97 158 iPc 22 00 60 0.7

[illegible] 22 08.00 25km
BFD 37 79 167 eP 22 07.00 0.3
CAN 37 98 158 eP 22 08 40 0 0
CHG 38 26 302 eP 22 11.00 0.0
CHTO 38 26 302 eP 22 10 80 -0 1
0.7s 4 61nm 4.4mb
YAMJ 38.87 9 eP 22 15.20 -0.5
TIA 39.13 340 eP 22 22.20 4.2X
OFUJ 40 03 11 eP 22 31 30 6.0X
DL2 40.34 347 P 22 32.60 4.8X
1.0s 80.00nm 5.4mb
XAN 40.84 329 P 22 32.80 0.7
CD2 41.50 321 eP 22 37.80 0.2
TIY 42.23 336 eP 22 43.60 0.1
BJI 42.91 341 eP 22 48.50 -0.5
1.2s 18.00nm 4.7mb
pP 22 56.50 27km
eS 29 12 00
CN2 44.39 352 eP 23 02.00 1 1
LZH 45 10 326 P 23 06 50 -0.5
1.8s 57 00nm 5.2mb
Z 20s 0.30um 4.2Msz
HHC 45 27 337 P 23 09 80 1.7
BTO 45 67 336 eP 23 12 00 0 7
LSA 49.62 311 P 23 42 00 -0.9
GTA 49 71 326 eP 23 41 80 -1.1
1.4s 20.00nm 4.9mb
sP 23 54.40
GUN 52.97 306 P 24 07 16 -0 9
PKI 53.21 305 P 24 08.26 -1 6
KKN 53.40 306 P 24 09.94 -1 2
DMN 53.47 305 P 24 10.20 -1 5
GKN 54 01 306 P 24 14.06 -1.4
KOD 55.99 282 eP 24 28 80 -1 5
HYB 56 18 291 eP 24 29 00 -2.2
GBA 56.51 286 P 24 35 00 - 4
0.7s 4 40nm 4 0mb
IRK 57.58 340 eP 24 41.10 0 4
e 24 56 10 561kmX
e 25 17 20
WMO 59 50 323 P 24 53 50 - -
1 0s 30 00nm 5 4mb
pP 25 01 50 26km
PP 27 14.00
YAK 62 20 358 iP 25 12 40 0.2
GAR 69.08 312 eP 25 56.00 - 3
QUE 69 39 302 eP 25 58 50 - 6
MAIO 76 74 307 eP 26 42 00 - 1
0.8s 10 98nm 5.0mb
SPA 89 70 180 iPd 27 48 40 0 0
0.8s 8.33nm 5 0mb
CNCB 153.40 131 PKP 34 51 10 9 0X
ZOBO 153.61 130 PKP 34 42.00 -0.5
1.1s 5.80nm
S.D = 1 0 on 52 of 59 obs.

% SEP 06, 1991 14h 51m 49.57± 0.99s
43.143 N ± 6.6km 10.780 E ±10.2km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

PIT 0.61 342 Pd 52 01.50 -0 3
eSg 52 09.20
MAO 0.78 159 P 52 04.70 0.0
eSg 52 14.80
BDI 0.93 352 P 52 07.70 0 4
eSg 52 20 30
CRE 0.98 60 P 52 08.50 0 2
eSg 52 20.00
MME 1.05 357 P 52 09.60 0 0
eSg 52 23.90
SFI 1.10 45 P 52 09.90 -0 3
S.D. = 0.3 on 6 of 6 obs.

? SEP 06, 1991 14h 52m 27.31± 7.41s
4.573 N ±56.8km 76 665 W ±35.3km
DEPTH = 33.0km (normal)
COLOMBIA (103)
MD 2.8 (UVC).

HOBC 0.59 112 eP 52 39.38 0.1
eS 52 46 90
CLMC 0 70 170 ePc 52 41 47 0.6
eS 52 50.50
BUGC 0 80 148 eP 52 41.92 -0.3
eS 52 51.20
ANCC 1 07 190 eP 52 45.90 -0.1

HOOC 1.10 177 eP 52 46.43 -0.2
S.D. = 0.5 on 5 of 5 obs.

---

* SEP 06, 1991 15h 00m 25.80± 0.94s
34.060 S ± 9.9km 178.922 W ±16.1km
DEPTH = 10.0km (geophysicist)
4.9mb (3 obs.)
SOUTH OF KERMADEC ISLANDS (179)

HBZ	4.19	212	P	01 31.10	0.0
	0.3s	490.00nm			
KUZ	5.13	237	P	01 46.50	2.0
NOZ	5.17	207	eP	01 44.50	-0.5
URZ	5.28	216	P	01 45.50	-1.1
			eS	02 48.70	
TAZ	5.57	220	eP	01 51.80	1.1
PATZ	5.81	221	eP	01 55.50	1.3
WLZ	5.84	228	P	01 56.50	2.1
MOH	5.97	211	P	01 55.00	-1.3
WHH	6.07	216	P	01 56.80	-1.0
OUZ	6.28	257	P	02 03.70	3.1X
TTH	6.45	211	P	02 02.80	-0.2
NGZ	6.74	219	P	02 06.60	-0.8
CNZ	6.79	219	P	02 07.60	-0.4
PGZ	7.58	209	P	02 13.50	-5.4X
	0.3s	33.00nm		6.0mb X	
MNG	7.92	213	P	02 19.30	-4.4X
			eS	03 48.50	
MTW	8.35	210	eP	02 24.00	-5.8X
KIW	8.37	214	eP	02 25.00	-5.1X
CAW	8.50	212	P	02 26.20	-5.6X
BLW	8.54	210	eP	02 26.20	-6.1X
MRW	8.76	213	P	02 29.70	-5.7X
			S	04 09.00	
WEL	8.78	213	P	02 30.90	-4.7X
			S	04 08.70	
THZ	10.04	218	eP	02 47.80	-5.3X
			S	04 39.50	
KHZ	10.23	213	P	02 49.90	-5.7X
			eS	04 41.00	
LTZ	11.11	216	P	03 03.50	-4.2X
			eS	05 01.60	
MQZ	11.65	212	eP	03 07.30	-7.7X
			S	05 13.10	
BWZ	13.57	216	P	03 34.30	-6.3X
ODZ	13.59	213	P	03 34.50	-6.5X
DZM	17.57	309	iPc	04 45.90	13.5X
RMQ	28.83	276	eP	06 37.70	11.4X
	0.8s	16.00nm			
STK	33.06	263	eP	07 04.20	0.6
	0.5s	0.80nm		3.9mb X	
CTAO	33.81	285	iP	07 10.00	-0.2
ASPA	42.27	271	eP	08 19.50	-1.7
	0.4s	5.90nm		4.7mb	
WR2	43.57	276	eP	08 29.70	-2.0
	0.5s	13.20nm		5.0mb	
SPA	56.12	180	iPc	10 07.40	-0.1
	0.9s	18.18nm		5.1mb	
KEV	141.49	346	ePKP	20 06.00	8.2X
OBN	147.62	321	ePKP	20 08.50	0.0
	1 0s	*******nm			
	Z 14s	0.40um		5.4MszX	
			i	20 15.00	
KAF	147.69	338	iPKP	20 07.50	-0.9
	0.5s	4.40nm			
NUR	149.42	337	iPKP	20 12.70	1.5
			e	20 25.00	
KIC	151.92	168	PKP	20 21.40	5.0X
APO	152.22	346	ePKP	20 19.70	4.3X
	0.4s	2.30nm			
NB2	152.22	349	PKP	20 17.20	1.7
	0.7s	2.60nm			
	S.D. = 1.3	on	21 of	41 obs.	

SEP 06, 1991 15h 49m 48.86± 0.37s
6.753 N ± 3.7km 73.038 W ± 5.1km
DEPTH = 162.1 ± 4.1 km
4.9mb (12 obs.)
NORTHERN COLOMBIA (99)

BMG	0.32	353	iPc	50 11.00	-1.5
FUQ	1.45	209	iP	50 17.00	-2.6
BOG	2.35	206	iPd	50 31.50	1.9
			iS	51 02.00	
SDV	3.19	48	iPnc	50 40.40	0.6
			iSn	51 17.40	
HOBC	3.90	232	iPd	50 48.71	-0.2
			eS	51 26.70	
BUGC	4.28	229	eP	50 54.04	0.1
TOV	4.41	47	iPnc	50 55.60	0.1
			iSn	51 45.90	
CLMC	4.52	231	ePd	50 57.21	0.1
HOOC	4.84	228	ePd	51 00.69	-0.8
ANCC	4.99	230	eP	51 02.86	-0.3
PURC	5.51	217	eP	51 11.57	1.0
MORO	6.21	48	eP	51 09.80	-9.6X
UPA	6.81	289	iPc	51 25.00	-2.4
	0.2s	111.11nm		5.9mb	
			S	52 43.00	
PSO	6.98	218	eP	51 31.50	1.3
CUMC	7.51	220	eP	51 37.42	0.2
GUAN	7.98	66	iP	51 41.70	-1.4
PCJ	11.64	340	eP	52 32.51	1.3
GWJ	11.82	343	eP	52 35.46	1.8
STH	11.84	342	eP	52 35.79	1.9
			eS	54 33.60	
BBJ	12.27	341	eP	52 42.01	2.6
			eS	54 44.47	
NNA	19.00	192	iP	54 00.50	-0.2
	0.7s	10.27nm		4.3mb	
ZOBO	23.38	168	iPc	54 45.20	0.4
	1.0s	50.00nm		5.0mb	
	Z 20s	0.18um		3.5Msz	
LPB	23.65	168	P	54 48.90	1.8
	1.1s	101.27nm		5.3mb	
CNCB	23.94	168	iPc	54 51.00	0.9
JSC	28.43	346	P	55 31.00	0.7
LHS	28.51	346	P	55 31.40	0.3
PRM	28.53	344	P	55 31.80	0.5
GBTN	30.55	342	P	55 49.50	0.4
PWLA	31.32	336	P	55 55.90	0.1
OLY	33.25	332	P	56 11.90	-0.7
ELC	33.78	336	P	56 16.30	-0.8
FVM	34.86	336	P	56 26.00	-0.4
PPD	35.66	144	(P)	56 33.00	-0.3
TUL	35.74	327	iPd	56 32.90	-0.8
	0.8s	29.70nm		5.0mb	
			e	56 38.80	
MEO	36.50	323	iPd	56 39.40	-0.8
ALO	41.62	317	eP	57 23.20	0.4
	1.0s	5.00nm		4.1mb	
RSSD	46.04	329	P	57 57.70	-0.5
	1.0s	14.91nm		4.5mb	
GLA	46.74	310	P	58 04.20	0.5
MSU	47.41	318	P	58 09.80	0.8
DAU	47.84	320	P	58 12.60	0.2
BW06	48.19	324	P	58 14.20	-0.7
	0.8s	7.74nm		4.4mb	
SCH	48.19	5	ePd	58 14.90	0.4
	0.8s	52.00nm		5.2mb	
PLM	48.42	309	P	58 17.50	0.7
DUG	48.72	319	P	58 19.00	0.0
PTI	49.91	322	P	58 27.70	-0.4
LRM	51.68	326	ePd	58 41.50	0.0
SES	53.80	331	ePd	58 56.90	0.1
ORV	54.32	315	P	59 00.80	0.0
LBFM	55.33	316	P	59 07.80	-0.4
NEW	55.69	326	P	59 09.20	-1.4
	0.8s	9.38nm		4.7mb	
DPW	56.09	325	P	59 12.70	-0.8
LON	57.66	322	P	59 23.80	-0.7
BMW	58.41	321	P	59 28.60	-1.1
GMW	58.62	323	P	59 30.00	-1.1
YKA	63.36	340	eP	00 01.60	-1.0
	0.5s	22.30nm		5.3mb	
LIC	67.52	86	P	00 29.20	-0.9
KIC	67.80	86	P	00 31.00	-0.8
INK	73.12	340	ePd	01 02.80	0.0
			pP	01 42.00	161kmX
MBC	73.88	350	ePd	01 07.40	0.3
	0.6s	28.00nm		5.2mb	
OIS	145.53	243	ePKP	09 10.30	0.2
	0.5s	6.00nm			
ASPA	149.14	234	ePKP	09 15.80	0.0
	0.8s	9.50nm			
WR2	150.35	241	ePKP	09 18.50	0.8
	0.6s	5.60nm			
			i	09 23.40	
			e	10 01.40	
	S.D. = 1.0	on	61 of	62 obs.	

SEP 06, 1991 15h 59m 16.16± 0.39s
39.050 N ± 3.3km 15.500 E ± 4.4km
DEPTH = 11.5 ± 3.4 km
SOUTHERN ITALY (390)
ML 2.8 (ROM).

CZI	0.52	71	P	59 26.00	-0.7
ACI	0.62	61	P	59 28.80	0.3
GRI	0.75	108	P	59 29.81	-1.0
ATN	0.89	182	P	59 32.90	-0.2
			eSg	59 44.80	
TDS	0.89	47	P	59 33.20	0.1
			eSg	59 44.60	
MMN	0.92	24	P	59 33.60	0.0
			eSg	59 47.80	
GMB	0.93	162	P	59 33.47	-0.3
CSI	0.95	40	P	59 34.80	0.7
			eSg	59 49.20	
ROI	0.98	58	P	59 35.20	0.6
			eSg	59 49.00	
SOI	1.07	156	Pd	59 35.60	-0.5
			eSg	59 49.00	
MGR	1.09	2	P	59 36.10	-0.3
			eSg	59 53.00	
MNO	1.28	210	P	59 40.50	0.5
			eSg	00 00.60	
SGO	1.51	354	P	59 43.10	0.0
			eSg	00 06.30	
GIB	1.57	228	P	59 43.70	-0.3
USI	1.84	260	P	59 46 80	-1.1
MEU	2.00	193	P	59 50.50	0.3
PZI	2.07	193	P	59 52.24	1.0
BRT	2.25	35	P	59 52.50	-1.2
LCI	2.29	55	P	59 55.20	0.9
	S.D. = 0.7	on	19 of	19 obs.	

% SEP 06, 1991 16h 03m 46.10± 0.78s
39.036 N ± 6.1km 15.712 E ±11.5km
DEPTH = 26.8 ± 7.7 km
SOUTHERN ITALY (390)

CZI	0.38	61	P	03 54.50	0.1
TDS	0.79	38	P	04 01.00	-0.1
			eSg	04 11.00	
ROI	0.85	51	P	04 02.20	0.0
			eSg	04 16.20	
CSI	0.86	31	P	04 02.10	-0.3
			eSg	04 15.50	
MMN	0.88	14	P	04 02.40	-0.1
			eSg	04 15.00	
ATN	0.90	193	P	04 02.10	-0.7
			eSg	04 14.90	
SOI	1.00	164	P	04 05.00	0.7
			eSg	04 20.00	
MGR	1.11	354	P	04 04.80	-1.1
			eSg	04 19.20	
SGO	1.55	349	P	04 13.70	1.5
			eSn	04 32.50	
	S.D. = 1.0	on	9 of	9 obs.	

---

* SEP 06, 1991 16h 08m 34.25± 0.56s
5.341 N ± 7.0km 32.155 E ±12.5km
DEPTH = 10.0km (geophysicist)
4.8mb (7 obs.) 4.9Msz (1 obs.)
SUDAN (557)

HOI	3.98	192	eP	09 37.00	0.2
			eS	09 46.80	
ENT	5.26	177	iP	09 53.00	-1.9
			eS	10 17.50	
KIL	5.54	203	eP	09 59.00	0.1
			eS	11 33.00	
AAE	7.51	60	ePn	10 29.00	2.2
NAI	8.05	145	iPnd	10 35.50	1.3
			iPg	11 01.50	
			iSg	13 26.00	
ASW	18.64	2	iPd	12 54.00	-0.2
			eS	16 34.00	
KRI	22.17	186	iPc	13 34.00	1.6
			iS	17 58.00	
			iLR	21 48.00	
BBTK	34.35	1	eP	15 32.00	8.5X
VAY	36.84	348	eP	15 48.50	4.1X
MAIO	39.73	35	eP	16 10.00	1.1
			eS	22 32.00	
OUE	41.04	49	eP	16 20.50	0.7
ZST	44.60	346	eP	16 48.50	0.2
			e	18 39.30	
SPC	44.85	349	eP	16 49.40	-1.2
KHC	46.39	343	eP	17 02.00	-0.7

06d 16h

		e	17 06 70		
		e	17 44.20		
GRF	47.60	342 eP	17 11.40	-0.8	
	2.3s	20.00nm		4.8mb	
GAR	48.09	40 eP	17 17.20	0.9	
		e	35 10.80		
		e	36 02.00		
		e	38 11.20		
CRZF	54.44	163 e(P)	18 12.00	8.1X	
		e(S)	26 21.00		
GKN	54.59	59 P	18 04.62	-1.0	
DMN	54.90	60 P	18 05.96	-2.1	
	0.5s	12.00nm		5.2mb	
KKN	55.09	60 P	18 07.66	-1.7	
PKI	55.15	60 P	18 08.62	-1.4	
GUN	55.64	60 P	18 11.40	-2.1	
KAF	56.81	357 iP	18 24.50	3.6X	
	0.8s	11.70nm		5.0mb	
NB2	57.77	348 P	18 30.50	2.8	
	1.1s	8.30nm		4.7mb	
WMO	61.86	43 P	18 55.20	-1.0	
	1.0s	10.00nm		5.0mb	
	Z 21s	0.80um		4.9Msz	
CHTO	66.34	72 eP	19 24.90	-0.8	
	1.0s	2.25nm		4.3mb	
GTA	69.41	50 Pd	19 45.30	0.4	
	1.4s	10.00nm		4.8mb	
	Z 24s	0.40um		4.6MszX	
HHC	78.52	50 P	20 40.00	2.3	
YAK	88.87	28 iP	21 30.80	1.0	
	S.D. = 1.5	on 25 of 29 obs.			

% SEP 06, 1991 16h 17m 16.97± 0.96s
39.333 N ± 8.8km 21.781 E ± 7.8km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 2.6 (THE).

AGG	0 53	126 ePc	17 27.66	0.0	
		eS	17 37.34		
LIT	0.94	35 ePd	17 34.54	-0.4	
		eS	17 49.50		
IGT	1.14	281 ePc	17 38.30	0.0	
		eS	17 53.82		
FNA	1.48	348 ePc	17 43.34	-0.4	
GRG	1.69	16 ePd	17 47.46	0.8	
	S.D. = 0.7	on 5 of 5 obs.			

% SEP 06, 1991 16h 30m 19.32± 0.79s
39.016 N ± 5.3km 15.691 E ±10.0km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

CZI	0.40	59 P	30 27.00	-0.5	
TDS	0.81	38 P	30 34.80	-0.3	
		eSg	30 42.20		
ATN	0.87	192 P	30 36.60	0.5	
		eSg	30 47.70		
ROI	0.88	51 P	30 36.20	0.0	
		eSg	30 50.50		
CSI	0.89	31 P	30 37.40	1.0	
		eSg	30 49.10		
MMN	0.90	15 P	30 37.80	1.2	
		eSg	30 48.80		
SOI	0.98	163 P	30 37.50	-0.5	
MGR	1.13	355 P	30 38.70	-1.7	
		eSg	30 54.70		
SGO	1.57	349 P	30 47.50	0.3	
		eSn	31 07.00		
	S.D. = 1.0	on 9 of 9 obs.			

SEP 06, 1991 16h 51m 01.03± 0.53s
10.084 S ± 5.6km 161.426 E ±10.8km
DEPTH = 95.4km (3 depth phases)
4.7mb (15 obs.)
SOLOMON ISLANDS (193)

HNR	1.60	294 iPc	51 30.00	1.4	
		iS	51 46.00		
DZM	12.85	159 iPd	54 02.10	0.6	
		iS	56 20.00		
CTAO	17.69	234 iPc	55 04.50	1.7	
	1.0s	82.50nm		4.9mb	
		i	55 22.00		
BRS	19.05	204 iPd	55 18.10	-0.5	
	0.8s	4.80nm		3.9mb	
		i	55 29.00		

RMO	20.24	215 eP	55 39.50	8.5X	
	0.7s	25.00nm		4.7mb	
COO	22.24	202 iPd	55 51.10	0.1	
	0.4s	9.00nm		4.5mb	
OLP	23.10	222 eP	56 00.00	0.8	
OIS	23.45	241 iPd	56 03.10	0.3	
	0.7s	11.00nm		4.4mb	
CMS	25.75	212 eP	56 25.00	0.6	
CAN	27.56	202 eP	56 40.70	-0.3	
WR2	27.88	246 iPd	56 43.00	-1.0	
	0.7s	25.20nm		4.9mb	
		epP	57 05.80	103km	
STK	28.42	217 eP	56 48.00	-0.7	
	0.6s	2.30nm		4.0mb	
ASPA	29.53	239 iPc	56 56.60	-2.2	
	0.8s	13.70nm		4.7mb	
	Z 21s	0.30um		3.9Msz	
TOO	30.91	205 eP	57 10.90	0.1	
BFD	31.91	209 eP	57 19.00	-0.5	
MAT	51.26	336 eP	59 56.00	-1.2	
	0.5s	7.04nm		4.9mb	
MDJ	61.59	335 eP	01 11.00	0.4	
CN2	62.80	331 Pc	01 19.00	0.4	
	1.0s	20.00nm		5.0mb	
		pP	01 42.00	91km	
TIY	66.01	319 eP	01 38.00	-1.7	
XAN	66.37	314 P	01 40.50	-1.5	
CHTO	67.96	295 eP	01 51.20	-1.0	
	1.0s	2.75nm		4.1mb	
		pP	02 14.90	92km	
HHC	68.39	321 eP	01 55.00	0.3	
LZH	71.00	314 eP	02 11.00	0.3	
	1.0s	16.00nm		4.8mb	
GTA	75.36	315 Pc	02 37.00	0.9	
	0.8s	10.00nm		4.7mb	
YAK	76.01	345 iP	02 39.80	0.7	
		i	03 03.00		
SPA	79.98	180 iPc	03 00.80	-0.3	
	0.8s	18.75nm		5.0mb	
PKI	82.46	300 P	03 16.40	1 4	
KKN	82.63	300 P	03 15.60	-0.2	
DMN	82.73	300 P	03 17.60	1.3	
GKN	83.24	300 P	03 18.00	-0.8	
YKA	96.09	28 eP	04 19.20	0.5	
	0.7s	1.60nm		4.7mb	
	S.D. = 1.0	on 30 of 31 obs.			

---

* SEP 06, 1991 17h 01m 26.28± 0.99s
37.056 N ±13.3km 49.644 E ± 9.3km
DEPTH = 33.0km (normol)
CASPIAN SEA (338)

IR7	1.56	150 iPd	01 52.00	-0.1	
IR1	1.84	152 iPc	01 56.00	-0.2	
TEH	1.92	133 eP	02 00.00	2.5X	
IR5	1.99	157 eP	01 57.80	-0.6	
IR4	2.08	150 iPc	02 00.00	0.3	
TAB	2.82	292 eP	02 09.00	-1.2	
		i	02 13.80		
SLY	3.65	248 eP	02 32.00	10.2X	
		e	03 15.50		
MSL	5.26	265 eP	02 46.00	1.3	
		e	04 05.00		
MAIO	7.95	92 eP	03 23.00	0.5	
	S.D. = 1 0	on 7 of 9 obs.			

SEP 06, 1991 17h 29m 49.33± 0.58s
43.362 N ± 4.4km 7.281 E ± 3.4km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
ML 2.6 (LDG), 2.2 (GEN).

REVF	0.38	9 Pg	29 57.82	0.6	
CALN	0.48	324 Pg	29 58.75	-0 4	
FRF	0.50	294 Pg	29 59.30	-0.2	
		Sg	30 05.20		
SBF	0.51	13 Pg	30 00.30	0.5	
		Sg	30 07.10		
AURF	0.53	4 Pg	30 00.03	0.0	
		Sg	30 06.91		
MVIF	0.54	350 Pg	30 00.08	-0.3	
LMR	0.56	267 Pg	30 01.00	0.2	
		Sg	30 08.60		
AUTN	0.64	9 Pg	30 02.25	-0.1	
		Sg	30 11.15		
TOUF	0.65	358 Pg	30 02.25	-0 2	
SAOF	0.66	18 Pg	30 02.36	-0 1	

LRG	0.68	278 Pg	30 03.30	0.5	
		Sg	30 11.20		
IMI	0.70	39 P	30 03.85	0.6	
		S	30 12.15		
ENR	0.87	7 P	30 06.23	0.1	
		S	30 16.69		
STV	0.88	2 P	30 06.31	0.0	
		S	30 16.97		
FIN	1.08	38 P	30 09.18	-0.5	
		S	30 21.69		
CDR	1.15	286 ePg	30 10.10	-0.7	
		e	30 22.90		
		e(Sg)	30 24.50		
PZZ	1.15	354 P	30 11.13	0.2	
		S	30 25.07		
BHB	1.48	360 P	30 15.51	-0.5	
		S	30 33.03		
PCP	1.49	37 P	30 15.12	-1.1	
PGF	1.50	122 Pn	30 16.57	0.2	
RRL	1.60	347 P	30 19.23	1.3	
LPL	2.19	350 Pg	30 30.30	3.8X	
	S.D. = 0.6	on 21 of 22 obs.			

? SEP 06, 1991 18h 20m 25.00± 1.20s
44.404 N ± 6.9km 7.378 E ±16.0km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.6 (GEN).

STV	0.16	193 P	20 28.65	-0.2	
		S	20 30.79		
ENR	0.18	170 P	20 29.26	0.2	
		S	20 31.51		
PZZ	0.22	297 P	20 29.97	0.1	
		S	20 32.54		
BHB	0.44	349 P	20 34.01	-0.1	
		S	20 40.12		
	S.D. = 0.3	on 4 of 4 obs.			

% SEP 06, 1991 19h 45m 33.51± 0.96s
11.112 N ± 6.9km 61.570 W ± 8.5km
DEPTH = 10.0km (geophysicist)
WINDWARD ISLANDS (95)

TCE	0.45	204 eP	45 42.65	0 0	
		eS	45 49.33		
PIG	0.72	86 eP	45 48.21	0.6	
TPR	0.78	85 eP	45 48.10	-0.6	
		eS	46 01.11		
TBH	0.80	142 eP	45 49.00	0.0	
		eS	46 00.11		
GRW	1.05	355 eP	45 53.30	0.0	
		eS	46 09.91		
	S.D. = 0.6	on 5 of 5 obs.			

---

* SEP 06, 1991 20h 25m 27.58± 1.85s
50.234 N ±32.1km 18.903 E ± 7.5km
DEPTH = 10.0km (geophysicist)
POLAND (548)

RAC	0.48	252 eP	25 37.00	-0.3	
		eS	25 45.00		
KRA	0.69	105 ePg	25 40.70	-0.5	
		iSg	25 50.40		
SPC	1.36	140 iPn	25 53.40	0.7	
		i(Sg)	26 12.10		
ZST	2.36	211 e(P)	26 14.80	7.9X	
PRU	2.82	267 Pg	26 14.70	1.2	
		e	26 21.00		
		e	26 41.30		
		Sg	26 56.00		
KHC	3.63	254 ePn	26 24.00	-1.0	
		ePg	26 30.50		
		Sg	27 20.00		
	S.D. = 1.3	on 5 of 6 obs			

SEP 06, 1991 20h 41m 39.48± 0.46s
29.912 N ± 5.2km 141.409 E ±12.9km
DEPTH = 33.0km (normol)
4.6mb (7 obs.)
SOUTH OF HONSHU, JAPAN (211)

IIDJ	6.29	333 eP	43 15.50	3.1X	
		eS	44 33.10		
KAKJ	6.36	351 eP	43 12.50	-0.8	
		eS	44 19 60		
CHJJ	6.45	342 eP	43 14.50	-0.1	

		eS	44	24.90		
MAT	7.13	339 (P)	43	24.00	-0.2	
	0.7s	10.27nm		4.9mb		
		eS	44	43.00		
MTMJ	7.31	337 eP	43	28.40	1.7	
NIIJ	7.58	345 eP	43	30.40	0.0	
		eS	44	51.70		
YAMJ	8.32	353 eP	43	39.60	-1.1	
		eS	45	05.70		
OFUJ	9.15	1 P	43	48.20	-4.0X	
		eS	45	21.00		
CHG	40.03	264 eP	49	13.50	0.2	
CHTO	40.03	264 eP	49	13.30	0.1	
	0.7s	4.76nm		4.4mb		
WR2	50.03	189 iPd	50	31.80	-1.2	
	0.7s	9.60nm		4.9mb		
ASPA	53.76	189 eP	51	01.40	0.5	
	0.5s	4.00nm		4.7mb		
RMO	56.52	172 iPc	51	30.80	9.9X	
	1.0s	22.00nm		5.1mb		
STK	61.45	180 eP	51	54.10	-0.9	
	1.2s	1.30nm		3.9mb		
BWA	64.33	174 eP	52	14.50	0.4	
CAN	65.28	173 eP	52	20.50	0.3	
NUR	76.25	333 eP	53	31.00	4.9X	
SES	77.66	39 eP	53	35.00	0.8	
LRM	79.29	43 ePd	53	44.00	0.5	
		e	53	53.80		
HFS	80.58	336 eP	53	49.50	-0.2	
	0.4s	0.90nm		4.1mb		
ZOBO	149.73	70 PKP	01	29.40	5.5X	
LPB	149.89	70 ePKP	01	37.00	13.1X	
CNCB	150.13	71 PKP	01	31.10	6.6X	
	S.D. = 0.8	on 16 of 23 obs.				

% SEP 06, 1991 20h 50m 38.09± 0.91s
38.975 N ±11.2km 14.495 E ± 8.6km
DEPTH = 10.0km (geophysicist)
SICILY (398)

GIB	1.05	201 P	50	56.90	-1.1	
		eSg	51	06.50		
USI	1.06	256 P	50	59.10	1.0	
CZI	1.30	79 P	51	02.80	0.7	
		eSg	51	20.20		
MGR	1.42	35 P	51	02.50	-1.4	
		eSn	51	21.50		
SOI	1.52	126 P	51	05.50	0.2	
		eSn	51	22.00		
ROI	1.72	69 P	51	08.80	0.6	
	S.D. = 1.3	on 6 of 6 obs.				

• SEP 06, 1991 21h 02m 33.81± 0.59s
19.765 S ±13.4km 167.820 E ±22.5km
DEPTH = 33.0km (normol)
4.7mb (2 obs.)
VANUATU ISLANDS REGION (185)

PVC	2.07	13 iP	03	06.00	-0.9	
		iS	03	41.00		
BKM	2.12	11 iP	03	07.00	-0.7	
DZM	2.63	209 iPc	03	13.30	-1.6	
		iS	03	47.00		
WR2	31.44	264 eP	08	54.40	-0.2	
	0.8s	2.80nm		4.2mb		
ASPA	31.71	257 iPc	08	57.70	0.8	
	0.4s	20 00nm		5.3mb		
		i	09	10.20		
SKO	143.98	315 ePKP	22	02.30	-5.4X	
DMU	145.69	354 ePKP	22	04.90	-5.3X	
DCN	146.27	355 ePKP	22	06.90	-4.3X	
WLF	146.77	338 iPKPd	22	10.49	-1.6	
CDF	147.39	336 ePKP	22	11.30	-2.0	
	0.8s	5.35nm				
BSF	148.05	336 ePKP	22	13.10	-1.3	
	0.6s	3 60nm				
HAU	148.08	336 ePKP	22	13.20	-1.1	
	0.6s	3.60nm				
FLN	149.57	345 ePKP	22	16.20	-0.4	
	0.5s	5.85nm				
LOR	149.61	338 ePKP	22	16.90	0.2	
	0.8s	6.70nm				
LDF	149.64	344 ePKP	22	16.20	-0.5	
	0.6s	4.50nm				
SSF	149.91	338 ePKP	22	17.70	0.6	
	0.8s	6.70nm				
LPL	149.94	333 ePKP	22	18.50	1.0	
	0.6s	2.70nm				
LPG	149.94	333 ePKP	22	18.50	0.9	
	0.7s	3.30nm				
GRR	150.01	345 ePKP	22	17.30	0.1	
	0.8s	10.75nm				
LPF	150.39	345 ePKP	22	18.20	0.4	
	0.6s	8.10nm				
BGF	150.57	339 ePKP	22	19.20	1.0	
	0.8s	6.05nm				
TCF	151.02	339 ePKP	22	20.10	1.2	
	0.6s	2.70nm				
PGF	151.10	326 ePKP	22	20.80	1.6	
	0.7s	8.80nm				
LSF	151.28	340 ePKP	22	20.40	1.2	
	0.8s	5.35nm				
MFF	151.47	342 ePKP	22	20.90	1.4	
	S.D. = 1.1	on 22 of 25 obs.				

% SEP 06, 1991 21h 59m 19.22± 2.97s
13.853 N ±18.4km 61.191 W ±27.2km
DEPTH = 10.0km (geophysicist)
WINDWARD ISLANDS (95)

SLB	0.15	101 eP	59	22.75	0.1	
SLW	0.30	56 eP	59	25.41	0.0	
SOA	0.48	175 eP	59	28.89	-0.1	
		eS	59	35.79		
SVB	0.58	186 eP	59	31.37	0.4	
FCV	0.69	184 eP	59	32.59	-0.4	
		eS	59	42.86		
	S.D. = 0.4	on 5 of 5 obs.				

SEP 06, 1991 22h 02m 01.50± 0.39s
39.354 N ± 4.3km 21.799 E ± 3.3km
DEPTH = 12.5 ± 2.4 km
GREECE (364)
MD 3.4 (THE), 3.3 (ATH).

AGG	0.53	129 ePd	02	12.34	0.1	
		eS	02	19.78		
LIT	0.92	35 ePd	02	19.34	0.5	
		eS	02	33.50		
KZN	0.95	359 ePg	02	18.90	-0.5	
IGT	1.15	279 ePd	02	21.58	-1.2	
FNA	1.46	347 iPc	02	28.02	0.3	
		eS	02	48.66		
VLS	1.51	219 ePb	02	27.10	-1.2	
THE	1.56	35 iPd	02	29.02	0.1	
PAIG	1.56	68 ePd	02	28.86	-0.1	
		iS	02	49.46		
KEK	1.59	284 ePg	02	31.60	2.2	
GRG	1.67	16 ePc	02	30.54	0.0	
		eS	02	54.10		
SOH	1.89	39 ePc	02	34.66	0.8	
		eS	02	59.42		
OHR	1.92	337 iPn	02	35.00	0.8	
		i	03	00.10		
OUR	1.95	59 ePc	02	35.10	0.5	
		eS	03	01.42		
KNT	1.99	25 ePd	02	35.50	0.2	
		eS	03	01.54		
VAY	2.05	16 iPn	02	35.70	-0.4	
SRS	2.23	37 ePd	02	38.58	-0.2	
		eS	03	06.74		
SKO	2.63	354 ePn	02	44.10	-0.3	
		iPg	02	50.30		
		iSn	03	14.20		
MMB	2.67	33 iP	02	45.00	-0.1	
KKB	2.69	21 iP	02	45.00	-0.3	
VLI	2.78	161 ePn	02	47.60	1.0	
LCI	3.12	290 P	02	49.80	-1.5	
		eSn	03	25.70		
RZN	3.22	43 iP	02	53.00	0.0	
RDO	3.37	57 ePn	02	55.40	0.4	
VTS	3.41	18 eP	02	55.00	-0.5	
KDZ	3.59	49 ePg	02	56.00	-2.0	
BRT	3.84	295 P	03	02.50	0.9	
		eSn	03	46.50		
CZI	4.40	270 P	03	10.10	0.6	
SOI	4.67	256 P	03	11.90	-1.5	
		eSn	04	02.50		
MGR	4.88	281 P	03	16.50	0.2	
SGO	5.13	286 P	03	20.00	0.1	
SDI	6.52	294 P	03	40.50	0.9	
	S D. = 0.9	on 31 of 31 obs.				

• SEP 06, 1991 22h 39m 01.67± 0.95s
19.574 S ±10.4km 175.533 W ±10.0km
DEPTH = 254.8 ± 12.8 km
4.9mb (11 obs.)
TONGA ISLANDS (173)

SVA	5.87	283 eP	40	29.20	0.3	
VUN	5.90	284 iPd	40	29.90	0.7	
AFI	6.68	33 iPd	40	38.60	-0.6	
		eS	41	43.00		
PVC	15.42	274 iPc	42	30.80	2.7X	
DZM	17.03	258 iPd	42	46.80	0.6	
		iS	45	53.00		
HBZ	18.75	195 eP	43	03.70	-0.1	
	0.2s	17.00nm		5.2mb		
KUZ	18.75	202 eP	43	03.90	0.1	
URZ	19.69	197 eP	43	10.40	-2.9X	
NOZ	19.78	195 eP	43	14.00	-0.2	
PGZ	22.12	197 eP	43	36.80	-0.2	
	0.3s	11.00nm		4.8mb		
MNG	22.34	198 eP	43	37.30	-1.9	
	0.2s	15.00nm		5.2mb		
THZ	24.21	201 eP	43	57.50	0.7	
KHZ	24.58	200 eP	44	00.20	0.0	
MOZ	26.02	200 eP	44	12.80	-0.5	
WVZ	26.13	203 eP	44	14.10	-0.2	
EWZ	26.46	203 eP	44	18.50	1.2	
BRS	30.03	249 iP	44	49.50	0.3	
RMQ	33.50	251 iPc	45	30.10	10.8X	
	0.9s	63.00nm				
		epP	45	44.30	56kmX	
CNB	34.66	236 iPd	45	29.10	0.0	
	1.0s	35.00nm		4.9mb		
CAN	34.95	236 eP	45	31.10	-0.4	
BWA	35.15	238 eP	45	30.80	-2.4	
CTAO	35.90	263 iPd	45	30.30	-9.2X	
	1.0s	120.00nm		5.4mb		
TOO	38.31	234 eP	46	00.40	0.8	
	0.8s	12.00nm		4.5mb		
STK	40.28	244 eP	46	15.50	-0.2	
	1.0s	2.40nm		3.6mb X		
ASPA	46.99	256 iPd	47	09.30	-0.2	
	0.9s	62.20nm		4.9mb		
		eS	53	39.10		
WR2	47.01	261 eP	47	08.60	-1.1	
	0.5s	23.20nm		4.8mb		
		ePP	48	00.60		
		eS	53	34.80		
MBL	60.23	256 eP	48	46.00	0.3	
	0.3s	2.00nm		4.2mb		
NANU	63.88	254 eP	49	10.00	0.3	
SPA	70.55	180 iPd	49	53.40	2.6	
	1.0s	27.50nm		4.9mb		
		i	50	41.50		
CHTO	92.12	289 eP	51	48.00	4.4X	
	1.0s	3.50nm		4.3mb		
KSP	147.42	346 ePKP	58	24.00	10.3X	
CLL	147.62	350 ePKP	58	23.00	9.0X	
	1.3s	10.00nm				
		e	59	19.00		
KHC	149.61	348 PKP	58	28.00	10.7X	
		e	58	35.50		
		e	59	22.50		
	S.D. = 1.0	on 25 of 33 obs.				

% SEP 06, 1991 23h 16m 35.88± 0.78s
38.972 N ± 5.0km 15.619 E ± 9.9km
DEPTH = 10.0km (geophysicist)
SICILY (398)

CZI	0.47	58 P	16	45.20	-0.2	
ATN	0.82	189 P	16	51.50	-0.3	
		eSg	17	03.50		
ROI	0.95	51 P	16	53.40	-0.6	
		eSg	17	07.80		
CSI	0.96	33 P	16	54.30	0.2	
		eSg	17	08.20		
MMN	0.96	17 P	16	55.40	1.3	
		eSg	17	06.80		
SOI	0.96	159 P	16	54.50	0.4	
		eSg	17	04.80		
MGR	1.16	358 P	16	56.60	-1.0	
		eSg	17	12.20		
SGO	1.60	351 P	17	04.50	0.2	
		eSn	17	24.80		
	S.D. = 0.8	on 8 of 8 obs.				

SEP 06, 1991 23h 17m 51.62± 0.71s

06d 23h

50.008 N ± 6.3km 12.102 E ± 7.0km
DEPTH = 10.0km (geophysicist)
GERMANY (543)
ML 3.1 (VKA), 2.5 (GRF).

HOF	0.34	335	iPgd	17 58.80	0.2
			iSg	18 03.80	
GRF	0.65	241	ePg	18 04.90	0.3
			e	18 06.10	
			e(Sg)	18 13.50	
			e	18 16.20	
WET	1.00	149	ePg	18 10.20	-0.4
			eSg	18 23.00	
FHC	1.30	132	iPn	18 15.50	-0.2
	0.6s		9.70nm		
			iPg	18 18.10	
			i	18 20.00	
			Sg	18 32.30	
CLL	1.42	23	iPn	18 16.20	-1.3
			iPg	18 17.60	
			iSg	18 36.20	
BRG	1.46	53	(Pg)	18 18.90	0.9
			i	18 22.00	
			iSg	18 37.80	
PRU	1.57	90	Pn	18 20.30	0.7
	0.4s		24.90nm		
			Pg	18 22.10	
			i	18 24.00	
			Sg	18 40.00	
FUR	1.92	197	iPnc	18 28.20	3.5X
KBA	3.05	164	eP	19 28.00	47.1X
VKA	3.27	121	e(Pg)	18 55.50	11.5X
			eSg	19 35.00	

S.D. = 0.9 on 7 of 10 obs.

& SEP 06, 1991 23h 41m 05.90s
34.850 N 119.240 W
DEPTH = 12.0km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 3.2 (PAS).

ABL	0.02	87	iPc	41 08.00	-0.4
BCH	0.77	296	iP	41 20.10	-0.7
ISA	1.03	37	ePd	41 23.60	-1.6
SBB	1.18	97	ePc	41 27.10	-0.6
PHAM	1.37	316	eP	41 29.60	-1.1
SSK	1.43	116	eP	41 31.80	0.0
PEC	1.97	118	eP	41 38.60	-0.8
PLM	2.47	126	eP	41 45.50	-1.3
	8 obs. associated				

SEP 06, 1991 23h 56m 52.90± 0.17s
44.592 N ± 1.5km 7.024 E ± 2.1km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.8 (GEN), 2.8 (LDG).

PZZ	0.10	148	P	56 56.08	0.3
			S	56 58.33	
DOI	0.18	119	P	56 57.70	0.7
			eSg	57 00.60	
BHB	0.30	34	P	56 59.72	0.5
RRL	0.37	333	P	57 00.38	-0.2
			S	57 05.51	
STV	0.41	148	P	57 01.30	0.0
			S	57 06.84	
ENR	0 46	142	P	57 02.25	-0.1
			S	57 08.42	
BNI	0.52	332	P	57 02.70	-0.8
			eSg	57 09.90	
RSP	0.58	16	P	57 04.69	-0.1
			S	57 12.79	
TOUF	0.60	164	Pg	57 04.88	-0.3
AUTN	0.66	154	Pg	57 06.25	0.0
			Sg	57 15.04	
MVIF	0.70	172	Pg	57 06.75	-0.1
			Sg	57 16.59	
SAOF	0.72	148	Pg	57 06.94	-0.1
			Sg	57 17.00	
AURF	0.74	163	Pg	57 07.31	-0.1
			Sg	57 18.29	
SBF	0.79	158	Pg	57 08.30	0.0
			Sg	57 19.20	
CALN	0.85	187	Pg	57 09.02	-0.3
LSD	0.87	6	P	57 10.02	0.2
			S	57 22.08	
REVF	0.89	164	Pg	57 10.28	0.3
CKI	0.91	100	Pc	57 10.40	0.0
			eSg	57 23.00	
IMI	0.92	137	P	57 10.33	-0.2
			S	57 22.52	
LPG	0.93	348	Pg	57 10.60	-0.2
			Sg	57 23.00	
FIN	0.93	114	P	57 10.63	-0.1
			S	57 23.07	
LPL	0.95	347	Pg	57 11.00	-0.1
FRF	1.07	195	Pg	57 13.00	0.0
			Sg	57 27.00	
PCP	1.09	92	P	57 13.40	0.0
			S	57 28.47	
LRG	1.23	203	Pn	57 15.80	0.0
			Pg	57 16.90	
			Sg	57 33.50	
CDR	1.29	225	e(Pg)	57 17.20	0.4
			e	57 17.80	
			e(Sg)	57 33.70	
			i	57 33.90	
LMR	1.31	197	Pg	57 17.60	0.5
			Sg	57 34.40	
PGF	2.50	144	Pn	57 33.25	-1.1
SMF	3.03	314	Pn	57 42.20	0.4
LBF	3.20	319	Pn	57 44.80	0.5
			Sg	58 34.50	
BGF	3.53	305	Pn	57 49.00	0.1
			Pg	57 59.20	
			Sg	58 45.00	
MAF	3.54	299	Pn	57 49.00	0.0
TCF	3.79	298	Pn	57 52.50	-0.1

S.D. = 0.4 on 33 of 33 obs.

% SEP 07, 1991 00h 07m 17.01± 1.01s
43.136 N ± 6.6km 10.765 E ±10.4km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

PII	0.61	343	P	07 29.10	-0.2
			eSg	07 36.70	
MAO	0.77	158	Pc	07 32.10	0.0
			eSg	07 42.50	
BDI	0.93	353	Pd	07 34.70	-0.2
			eSg	07 47.80	
CRE	1.00	60	P	07 36.10	0.1
			eSg	07 49.50	
MME	1.06	357	P	07 37.60	0.5
SFI	1.11	45	P	07 37.60	-0.3
			eSg	07 52.60	

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

% SEP 07, 1991 00h 52m 01.22± 1.31s
44.576 N ± 7.7km 6.962 E ±14.6km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 1.8 (GEN).

PZZ	0.12	125	P	52 04.77	0.4
			S	52 07.02	
BHB	0.34	39	P	52 08.25	0.0
			S	52 12.66	
RRL	0.37	340	P	52 08.82	0.0
			S	52 14.01	
STV	0.42	142	P	52 09.79	-0.1
			S	52 15.35	
ENR	0.48	137	P	52 10.73	-0.3
			S	52 17.09	

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

SEP 07, 1991 01h 24m 51.19± 0.28s
44.600 N ± 1.9km 7.018 E ± 3.0km
DEPTH = 8.6 ± 3.2 km
NORTHERN ITALY (545)
ML 2.4 (GEN), 2.2 (LDG).

PZZ	0.11	148	P	24 54.51	0.5
			S	24 56.76	
DOI	0.19	121	P	24 55.90	0.6
			eSg	24 59.10	
BHB	0.30	36	P	24 58.01	0.7
			S	25 02.85	
RRL	0.36	333	P	24 58.61	0.0
			S	25 03.94	
STV	0.42	148	P	24 59.66	-0.1
			S	25 05.17	
ENR	0.47	142	P	25 00.84	0.1
			S	25 06.97	
BNI	0.51	332	P	25 01.30	-0.3
			eSg	25 08.10	
RSP	0.58	17	P	25 02.92	0.1
			S	25 10.98	
TOUF	0.61	164	Pg	25 03.26	-0.2
			Sg	25 10.76	
AUTN	0.67	154	Pg	25 04.60	-0.2
			Sg	25 13.72	
SAOF	0.72	148	Pg	25 05.32	-0.3
			Sg	25 15.31	
AURF	0.75	163	Pg	25 05.62	-0.4
SBF	0.80	158	Pg	25 06.60	-0.2
			Sg	25 17.30	
LSD	0.86	6	P	25 08.39	0.3
			S	25 19.59	
LPG	0.92	348	Pg	25 09.00	-0.1
			Sg	25 21.20	
CKI	0.92	101	P	25 08.80	-0.1
			eSg	25 19.80	
IMI	0.93	137	P	25 09.07	-0.1
			S	25 21.07	
LPL	0.94	348	Pg	25 09.40	0.0
FIN	0.94	114	P	25 08.97	-0.3
			S	25 20.76	
FRF	1.07	195	Pg	25 11.30	-0.2
			Sg	25 25.00	
PCP	1.09	93	P	25 11.93	0.0
			S	25 26.43	
LRG	1.24	203	Pg	25 15.30	1.0
			Sg	25 31.70	
LMR	1.32	196	Pg	25 16.40	0.7
			Sg	25 32.60	
BGF	3.52	305	Pn	25 47.00	-0.2

S.D. = 0.4 on 24 of 24 obs.

% SEP 07, 1991 01h 25m 49.29± 1.45s
16.951 N ±15.1km 61.634 W ±17.7km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)
ML 2.1 (FDF).

BPA	0.23	294	iPd	25 56.28	0.0
			S	26 02.20	
SEG	0.56	167	eP	26 01.07	0.3
DEG	0.84	139	eP	26 04.70	0.0
			S	26 17.20	
DOG	0.91	179	eP	26 05.50	-0.3
PAG	0.92	183	eP	26 06.00	0.1
			S	26 19.10	
MGG	1.07	163	eP	26 07.90	-0.1

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

% SEP 07, 1991 01h 35m 19.48± 1.47s
39.008 N ± 7.1km 15.563 E ±14.2km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

CZI	0.49	65	P	35 29.40	0.0
TDS	0.89	43	P	35 36.00	-0.5
			eSg	35 47.80	
CSI	0.95	36	P	35 38.20	0.6
SOI	1.01	157	P	35 38.60	0.0
			eSg	35 52.50	
MGR	1.13	360	P	35 40.50	-0.1

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

% SEP 07, 1991 02h 10m 29.98± 0.76s
40.878 N ± 6.6km 22.952 E ± 5.8km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 1.5 (THE).

THE	0.25	178	ePd	10 35.26	0.1
			eS	10 38.58	
KNT	0.29	352	iPd	10 35.93	-0.1
			eS	10 40.18	
SOH	0.31	100	iPd	10 36.25	-0.2
			eS	10 40.82	
GRG	0.42	281	ePd	10 38.66	0.0
			eS	10 45.02	
SRS	0.54	64	ePd	10 41.14	0.2
			eS	10 47.54	

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

& SEP 07, 1991 02h 28m 34.50s
40.400 N 124.360 W
DEPTH = 31.0km

NEAR COAST OF NORTHERN CALIF. (35)
<BRK>. ML 3.4 (BRK).

FOX	0.31	67	iPc	28 41.62	-0.5
FHC	0.49	35	iPd	28 43.86	-1.1
			eS	28 50.56	
WDC	1.40	82	iPc	28 56.59	-1.5
LTCM	1.72	96	eP	29 01.00	-1.7
LBFM	2.10	62	eP	29 07.70	-0.7
MIN	2.11	91	iPc	29 06.42	-2.0
			eS	29 32.48	
ORV	2.35	110	iPc	29 09.57	-2.3
PCC	3.28	151	iPc	29 22.39	-2.5
ARN	3.76	143	eP	29 30.20	-1.6
GCC	3.84	150	iPc	29 29.89	-3.0
SAO	4.29	147	eP	29 36.06	-3.2
PRS	4.69	149	eP	29 43.36	-1.6

12 obs. associated

% SEP 07, 1991 02h 57m 07.25± 0.88s
44.242 N ±11.0km 10.202 E ± 8.8km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

BDI	0.34	122	P	57 14.10	-0.1
			eSg	57 19.20	
MME	0.36	97	Pd	57 14.40	-0.4
			eSg	57 19.60	
PII	0.57	156	P	57 18.70	-0.1
			eSg	57 26.30	
BOB	0.75	314	P	57 22.00	0.0
			eSg	57 34.00	
SFI	1.23	105	P	57 30.50	0.4
			eSg	57 47.50	
CRE	1.40	115	P	57 33.20	0.2
			eSg	57 50.30	

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

SEP 07, 1991 03h 00m 24.38± 0.42s
24.252 N ± 6.0km 93.976 E ± 5.9km
DEPTH = 33.0km (normal)
4.9mb (8 obs.)
MYANMAR-INDIA BORDER REGION (294)

CHG	7.12	139	ePn	02 10.00	1.1
			iSg	03 56.00	
CHTO	7.12	139	ePn	02 09.20	0.3
KMI	8.02	82	Pd	02 27.00	5.3X
GUN	8.14	298	P	02 24.68	1.1
	0.5s	456.00nm		6.8mb X	
PKI	8.39	295	P	02 26.82	-0.2
KKN	8.58	296	P	02 29.54	0.0
	0.4s	287.00nm		6.8mb X	
DMN	8.66	295	P	02 29.80	-0.8
	0.4s	100.00nm		6.4mb X	
GKN	9.19	296	P	02 37.30	-0.5
	0.4s	378.00nm		6.9mb X	
LOE	9.95	132	eP	02 51.00	2.9X
			e	05 38.00	
NST	10.31	145	eP	02 55.00	1.9
KHT	10.37	154	eP	02 55.00	1.0
GYA	11.68	76	eP	03 18.00	6.0X
	1.0s	30.00nm		5.4mb	
LZH	14.55	34	iPc	03 51.00	1.1
	1.2s	67.00nm		5.0mb	
			pP	03 57.00	
NDI	15.64	290	eP	03 56.50	-7.5X
	0.6s	26.67nm		4.6mb	
			eS	06 33.00	
HYB	15.93	248	eP	04 03.00	-4.8X
			e	04 26.50	
			eS	06 50.00	
XAN	16.28	50	P	04 11.40	-0.8
SNG	18.13	158	eP	04 35.00	-0.4
WHN	19.13	66	eP	04 48.50	1.0
WMO	20.19	347	P	05 01.00	1.9
	0.8s	20.00nm		4.5mb	
			pP	05 09.00	30kmX
			PP	05 20.00	
			eS	08 40.50	
			sS	08 53.50	
TIY	20.70	45	eP	05 02.40	-2.0
IPM	20.70	160	ePc	05 02.80	-1.7
	0.6s	27.20nm		4.8mb	
KOD	21.01	231	eP	05 08.80	0.8
BTO	21.13	36	P	05 08.30	-0.5
PSI	21.96	167	ePc	05 20.50	3.4X
HHC	22.15	37	eP	05 17.00	-2.0
NJ2	23.24	65	Pc	05 29.50	-0.1
BJI	24.42	45	eP	05 43.00	2.0
WR2	58.97	135	iPc	10 20.90	-2.3
	0.6s	15.30nm		5.3mb	
SOD	59.16	335	iP	10 24.60	0.6
ASPA	61.39	138	eP	10 38.10	-1.7
	0.6s	9.10nm		5.1mb	
HFS	64.49	327	eP	10 59.50	-0.3
	0.5s	3.10nm		4.7mb	
NB2	65.62	328	P	11 05.70	-1.4
	0.6s	1.20nm		4.2mb X	
MBC	77.64	8	eP	12 19.50	0.9
INK	81.38	16	eP	12 39.50	0.7
PPD	148.05	267	(PKP)	20 09.00	3.5X

S.D. = 1.3 on 28 of 35 obs.

SEP 07, 1991 04h 14m 25.47± 0.33s
7.220 S ± 3.2km 123.769 E ± 5.3km
DEPTH = 604.4 ± 4.8 km
5.1mb (27 obs.)
BANDA SEA (280)

KUPT	2.92	183	eP	15 46.50	1.6
MKS	4.71	295	iPd	15 57.00	0.1
AAI	5.63	52	iPd	16 02.60	-1.6
			eS	17 16.60	
TRT	11.05	267	ePc	16 54.50	-0.4
TSM	12.86	333	ePc	17 13.20	0.6
MBL	14.37	195	iPc	17 27.70	0.4
	0.4s	41.00nm		5.1mb	
BIP	15.54	9	ePd	17 39.00	0.4
CGP	15.60	3	eP	17 41.00	1.8
WR2	16.30	142	iPd	17 46.20	0.2
	0.6s	108.60nm		5.4mb	
QIS	20.27	132	iPc	18 22.60	-0.5
	0.2s	5.00nm		4.8mb	
MRWA	23.08	198	iPc	18 47.30	-1.0
	0.4s	14.00nm		4.9mb	
FORR	23.86	171	eP	18 53.90	-1.3
	0.3s	17.00nm		5.2mb	
BAL	24.19	195	iPc	18 57.20	-1.0
	0.4s	51.00nm		5.5mb	
KLB	24.89	192	iPc	19 03.40	-0.9
	0.4s	19.00nm		5.1mb	
MUN	25.62	195	iPc	19 09.70	-1.1
	0.4s	177.00nm		6.0mb	
NWAO	26.29	192	iPc	19 15.80	-0.8
PSI	26.68	291	ePd	19 20.80	0.7
SNG	27.16	301	eP	19 25.30	1.0
RKG	27.92	192	iPd	19 31.30	0.5
STK	29.64	148	iPd	19 46.20	0.7
	0.5s	6.80nm		4.5mb	
			iS	24 00.20	
RMO	30.53	132	iPc	20 04.10	11.0X
	0.4s	5.00nm			
			e	22 44.00	
			e	25 30.50	
CHG	35.61	317	eP	20 36.00	0.4
CHTO	35.61	317	iP	20 35.20	-0.4
	0.7s	5.88nm		4.3mb	
TOO	36.08	150	iPd	20 41.20	2.0
GYA	37.37	334	Pd	20 50.60	0.6
			PcP	22 54.00	
			S	25 56.00	
SSE	38.18	356	iPd	20 57.00	0.7
	0.7s	69.00nm		5.3mb	
NJ2	39.33	353	Pc	21 05.70	0.0
	0.8s	80.00nm		5.3mb	
TKSJ	42.12	13	P	21 28.40	0.6
CD2	42.48	334	iPd	21 30.60	-0.2
	0.4s	80.00nm		5.6mb	
WKYJ	42.71	14	P	21 33.20	0.7
YONJ	43.16	12	eP	21 35.70	-0.3
XAN	43.38	342	iPd	21 36.70	-1.1
	0.6s	100.00nm		5.5mb	
DZM	43.67	114	iPc	21 41.00	0.7
TSRJ	44.06	14	P	21 42.90	0.0
TSRJ	44.06	14	eP	21 43.00	0.1
CHJJ	45.36	17	P	21 51.90	-1.0
MTMJ	45.52	16	P	21 54.10	-0.2
MAT	45.59	16	iPd	21 54.10	-0.6
	0.7s	41.10nm		5.1mb	
TIY	45.94	347	eP	21 56.00	-1.4
NIIJ	46.47	17	P	22 01.40	0.1
LZH	46.97	338	iPd	22 06.00	0.6
	1.5s	110.00nm		5.2mb	
			S	28 13.00	
BJI	47.54	352	eP	22 08.50	-0.9
	1.0s	20.00nm		4.6mb	
			PcP	23 28.00	
YAMJ	47.64	17	P	22 10.90	0.7
SNY	48.81	360	Pc	22 17.50	-1.3
	0.8s	40.00nm		5.0mb	
OFUJ	48.97	18	P	22 20.20	0.2
HHC	49.13	348	P	22 21.00	-0.4
	0.9s	20.00nm		4.6mb	
KOD	49.26	290	eP	22 22.20	-0.7
GUN	50.59	315	P	22 32.68	0.0
	0.5s	145.00nm		5.7mb	
PKI	50.72	315	P	22 33.32	-0.2
CN2	50.80	2	iPd	22 32.40	-1.0
	0.6s	20.00nm		4.7mb	
KKN	50.94	315	P	22 34.72	-0.3
	0.6s	86.00nm		5.4mb	
DMN	50.95	314	P	22 35.14	0.0
GTA	51.43	336	iPd	22 38.60	0.4
	0.6s	20.00nm		4.7mb	
			PcP	23 42.60	
GKN	51.52	315	P	22 39.12	0.0
	0.3s	115.00nm		5.8mb	
MDJ	51.86	5	iPd	22 41.00	-0.1
	1.0s	100.00nm		5.2mb	
MRRJ	51.87	16	eP	22 40.80	-0.3
KUSJ	53.58	19	eP	22 53.10	-0.2
ASAJ	53.87	17	eP	22 55.20	-0.1
CSY	59.69	186	iPc	23 34.80	0.2
	0.5s	19.00nm		4.6mb	
WMQ	60.37	331	iPd	23 39.50	-0.1
	1.0s	40.00nm		4.6mb	
			S	31 07.00	
YAK	69.18	3	eP	24 32.50	-1.5
			e	32 52.00	
YKA	110.62	25	ePKP	31 51.20	-0.2
	0.7s	2.40nm			
LPL	113.95	317	ePKP	31 57.00	-1.7
	0.6s	1.80nm			
LOR	115.36	319	ePKP	32 01.30	0.3
	0.6s	1.80nm			
LBF	115.37	319	ePKP	32 01.30	0.2
	0.6s	1.35nm			
SSF	115.66	319	ePKP	32 02.10	0.5
	0.8s	4.05nm			
AVF	115.84	319	ePKP	32 02.10	0.2
BGF	116.24	319	ePKP	32 03.40	0.7
	0.7s	9.90nm			
TCF	116.75	319	ePKP	32 04.20	0.5
	0.6s	1.80nm			
CAF	117.28	317	ePKP	32 05.70	0.9
	0.6s	3.15nm			
RJF	117.52	318	ePKP	32 05.90	0.7
LPO	117.95	317	ePKP	32 06.80	0.8
	0.6s	3.60nm			
GRR	117.96	322	ePKP	32 06.50	0.6
	0.8s	6.70nm			
LFF	118.16	318	ePKP	32 07.30	0.9
	0.6s	3.60nm			
MFF	118.17	320	ePKP	32 06.90	0.5
	0.6s	3.60nm			
LPF	118.21	321	ePKP	32 07.00	0.6
	0.6s	9.00nm			
ALQ	126.35	52	ePKP	32 24.50	1.8
TUL	133.94	46	e(PKP)	32 36.60	-0.3
	0.8s	5.20nm			
PNJ	142.84	23	iPKP	32 51.80	-1.0
GMTN	142.85	23	iPKP	32 51.40	-1.5
PPD	150.53	189	ePKP	33 12.70	6.9X
CNCB	153.45	154	PKP	33 21.20	10.5X
LPB	153.64	154	PKP	33 15.00	4.2X
CCH	153.67	158	(PKP)	33 21.00	10.3X
ZOBO	153.86	153	PKP	33 14.00	2.7X

S.D. = 0.8 on 79 of 85 obs.

? SEP 07, 1991 04h 51m 02.00± 1.56s
15.205 S ±44.6km 177.452 W ±25.9km
DEPTH = 394.4 ± 20.2 km
4.4mb (6 obs.)
FIJI ISLANDS REGION (181)

AFI	5.64	78	ePc	52 31.20	0.0
CTAO	34.88	257	iPc	57 22.00	2.3
	0.7s	11.52nm		4.3mb	
WR2	46.06	257	eP	58 49.60	-0.6
	0.4s	5.00nm		4.2mb	

07d 04h

ASPA	46.46	252 eP	58	51.40	-1.9	
	0.5s	31.90nm			4.9mb	
SLKM	78.56	13 eP	02	21.80	-0.2	
PMR	79.77	13 e(P)	02	28.40	0.2	
BALM	80.98	16 eP	02	34.70	0.0	
PNT	82.00	34 iPc	02	51.60	11.5X	
	0.5s	12.00nm				
FBA	82.99	12 ePc	02	44.50	-0.2	
	0.7s	30.52nm			5.2mb	
ALQ	83.70	51 eP	02	49.70	0.5	
	0.9s	2.73nm			4.0mb	
RSSD	88.99	44 eP	03	14.00	-0.5	
	0.8s	6.01nm			4.5mb	
SLR	132.21	212 iPKPc	09	39.50	7.5X	
PRU	143.96	347 ePKP	09	50.50	-2.0	
GRF	144.89	350 ePKP	09	54.60	0.5	
SRO	144.96	341 ePKP	09	54.00	-0.3	
ZST	144.98	343 ePKP	09	54.60	0.3	
KHC	144.98	347 ePKP	09	53.00	-1.3	
FLN	146.44	4 iPKPc	09	58.30	1.6	
	0.7s	12.15nm				
LDF	146.63	3 iPKPc	09	58.70	1.7	
	0.8s	9.40nm				
GRR	146.79	4 iPKPc	09	59.50	2.3X	
	0.4s	8.00nm				
LPF	147.13	4 iPKPc	10	00.50	2.7X	
	0.8s	21.50nm				
LOR	148.01	358 iPKPc	10	02.90	3.6X	
	1.0s	8.00nm				
SSF	148.23	359 iPKPc	10	03.60	4.0X	
	0.8s	5.35nm				
LBF	148.29	358 iPKPc	10	03.70	3.9X	
	0.7s	6.60nm				
AVF	148.50	359 ePKP	10	03.90	3.9X	
	0.8s	2.70nm				
SMF	148.64	358 ePKP	10	04.20	3.9X	
	0.8s	4.05nm				
BGF	148.74	360 ePKP	10	04.70	4.3X	
	0.7s	6.60nm				
TCF	149.01	0 ePKP	10	05.20	4.3X	
	0.8s	3.35nm				
LSF	149.04	1 ePKP	10	05.00	4.1X	
	0.8s	5.35nm				
MAF	149.08	360 ePKP	10	05.80	4.8X	
	0.8s	5.35nm				
LPL	149.58	354 ePKP	10	07.80	5.8X	
	0.8s	6.70nm				
LPG	149.60	354 ePKP	10	07.80	5.7X	
	0.8s	4.05nm				
CAF	150.37	1 ePKP	10	08.90	5.9X	
	0.6s	3.60nm				
LPO	150.60	2 ePKP	10	09.10	5.8X	
	0.6s	5.40nm				
SBF	151.13	353 ePKP	10	10.10	5.9X	
	0.6s	9.00nm				
PGF	152.19	350 ePKP	10	12.60	6.8X	
	1.0s	12.00nm				
S.D. = 1.3 on 17 of 36 obs.						

SEP 07, 1991 05h 11m 23.00± 0.94s
47.218 N ± 8.3km 144.770 E ± 4.8km
DEPTH = 346.9 ± 11.1 km
4.7mb (56 obs.)
SEA OF OKHOTSK (663)

MDJ	10.89	262 eP	13	54.30	1.8	
	1.4s	260.00nm			5.4mb	
MAT	11.73	287 iPc	14	02.60	0.0	
	0.8s	149.25nm			5.5mb	
		eS	16	12.00		
CN2	13.97	263 eP	14	28.40	-0.6	
	0.4s	70.00nm			5.4mb	
SNY	16.03	258 iPd	14	51.20	0.2	
	1.0s	40.00nm			4.7mb	
YAK	17.13	335 iP	15	00.60	-1.6	
		e	18	01.00		
		e	19	26.00		
BJI	21.82	261 eP	15	50.00	1.4	
	1.0s	34.00nm			4.6mb	
HHC	24.58	267 P	16	15.00	0.8	
	0.8s	60.00nm			5.0mb	
TIY	25.52	260 eP	16	22.00	-0.7	
GTA	33.24	273 iPd	17	31.00	0.6	
	0.6s	10.00nm			4.3mb	
CD2	35.31	257 eP	17	47.40	-0.3	
	0.8s	30.00nm			4.7mb	
SVW	36.19	45 eP	17	56.00	1.2	
	0.5s	18.59nm			4.7mb	
GYA	36.38	249 P	17	56.40	-0.4	
SLKM	38.89	46 e(P)	18	16.80	-0.3	
PMR	39.23	44 ePc	18	19.50	-0.2	
	0.5s	18.59nm			4.6mb	
FBA	39.35	38 ePc	18	20.70	0.0	
	0.7s	66.86nm			5.0mb	
WMO	39.37	287 P	18	21.50	0.2	
	0.6s	20.00nm			4.5mb	
BALM	42.54	43 eP	18	46.80	-0.1	
INK	44.30	32 iPc	19	00.80	0.4	
	0.5s	52.00nm			5.0mb	
MBC	46.08	19 eP	19	14.00	-0.4	
	0.5s	8.00nm			4.2mb	
CHG	46.81	249 ePd	19	19.90	-0.8	
	0.9s	9.66nm			4.0mb	
CHTO	46.81	249 iP	19	19.40	-1.2	
	0.7s	6.51nm			4.0mb	
GUN	49.28	269 P	19	39.96	0.0	
KKN	49.76	269 P	19	42.74	-0.7	
PKI	49.82	269 P	19	42.60	-1.4	
DMN	50.00	269 P	19	44.80	-0.5	
GKN	50.07	270 P	19	45.04	-0.6	
YKA	53.87	34 eP	20	12.00	-0.9	
	0.5s	16.60nm			4.6mb	
SOD	56.62	336 iP	20	31.10	-1.2	
PGC	57.75	52 eP	20	40.00	-0.4	
PNT	59.36	49 eP	20	41.00	-10.5X	
	0.6s	4.00nm				
KAF	60.46	332 iP	20	57.40	-1.3	
	0.5s	5.20nm			4.3mb	
NUR	62.19	331 iP	21	07.60	-2.4	
	0.7s	16.00nm			4.7mb	
SES	62.92	44 ePc	21	15.40	0.4	
FFC	63.90	36 iPc	21	22.90	1.7	
	0.7s	18.00nm			4.8mb	
ORV	64.55	59 eP	21	24.00	-1.6	
LRM	65.32	49 iPc	21	31.00	0.3	
NB2	65.76	337 P	21	32.20	-0.8	
	0.6s	10.90nm			4.8mb	
HFS	65.84	336 eP	21	31.60	-1.9	
	0.5s	22.20nm			5.1mb	
BW06	68.93	49 ePd	21	52.60	-0.5	
	0.8s	11.90nm			4.7mb	
RSSD	70.73	45 eP	22	02.90	-0.9	
	0.6s	12.83nm			4.8mb	
PV09	72.23	52 eP	22	12.60	-0.2	
CLL	73.47	331 iPc	22	19.00	-0.3	
	0.9s	19.00nm			4.8mb	
EKA	74.31	342 Pc	22	24.00	-0.1	
	0.5s	6.30nm			4.6mb	
SCH	74.90	18 eP	22	27.00	-0.5	
KHC	75.12	329 iPc	22	29.40	0.6	
WET	75.35	330 iPc	22	30.50	0.4	
	0.8s	6.00nm			4.4mb	
GRF	75.44	331 iPc	22	31.00	0.5	
	0.9s	9.00nm			4.5mb	
ALQ	76.29	53 eP	22	36.40	0.7	
	1.0s	5.00nm			4.2mb	
DMU	76.43	343 eP	22	36.00	0.1	
DCN	77.03	343 eP	22	39.30	0.1	
WTTA	77.39	329 iPc	22	42.00	0.5	
CDF	77.83	333 eP	22	43.60	-0.2	
	0.8s	10.75nm			4.7mb	
OGA	77.94	330 eP	22	45.00	0.4	
HAU	78.48	333 eP	22	47.00	-0.2	
	0.6s	3.60nm			4.4mb	
BSF	78.50	333 eP	22	46.80	-0.6	
	0.6s	3.60nm			4.4mb	
FLN	79.75	337 iPc	22	53.90	0.0	
	0.9s	21.50nm			5.0mb	
LDF	79.81	337 iPc	22	54.10	-0.1	
	0.6s	6.30nm			4.6mb	
LOR	79.90	334 iPc	22	54.70	0.0	
	0.6s	9.45nm			4.8mb	
LBF	80.12	334 iPc	22	55.80	-0.1	
	0.8s	8.05nm			4.6mb	
SSF	80.19	334 eP	22	56.30	0.1	
GRR	80.19	338 iPc	22	56.40	0.2	
	0.8s	26.85nm			5.1mb	
SMF	80.46	334 iPc	22	57.70	0.1	
	0.8s	14.80nm			4.9mb	
AVF	80.48	334 iPc	22	57.80	0.1	
	0.6s	7.20nm			4.7mb	
LPF	80.57	338 iPc	22	58.60	0.5	
	0.8s	12.10nm			4.8mb	
LPL	80.57	332 iPc	22	59.00	0.5	
	0.8s	8.05nm			4.6mb	
LPG	80.58	332 iPc	22	59.20	0.6	
	0.8s	12.10nm			4.8mb	
BGF	80.84	334 eP	23	00.40	0.8	
	0.6s	4.50nm			4.5mb	
TUL	81.07	46 ePc	23	01.00	0.0	
	0.6s	10.90nm			4.9mb	
MAF	81.22	334 iPc	23	02.30	0.7	
	0.6s	10.35nm			4.8mb	
TCF	81.27	335 iPc	23	02.30	0.4	
	0.6s	2.70nm			4.3mb	
LSF	81.50	335 iPc	23	03.50	0.5	
	0.6s	6.30nm			4.6mb	
MFF	81.65	336 iPc	23	04.60	0.8	
	0.7s	7.70nm			4.6mb	
FVM	81.90	41 eP	23	05.00	-0.2	
FRF	82.33	331 eP	23	08.60	1.3	
	0.8s	5.35nm			4.4mb	
RJF	82.36	335 eP	23	08.10	0.6	
	0.8s	5.35nm			4.4mb	
LRG	82.52	331 eP	23	08.50	0.2	
	1.0s	16.00nm			4.8mb	
CAF	82.55	334 iPc	23	09.40	0.9	
	0.6s	5.40nm			4.6mb	
LMR	82.58	331 eP	23	09.70	1.1	
	0.6s	5.40nm			4.6mb	
LFF	82.92	335 eP	23	11.20	0.9	
	0.6s	7.20nm			4.7mb	
LPO	83.03	335 eP	23	11.60	0.8	
	0.6s	5.40nm			4.6mb	
EPF	84.79	335 eP	23	20.10	0.4	
	0.6s	2.70nm			4.3mb	
S.D. = 0.8 on 80 of 81 obs.						

& SEP 07, 1991 05h 11m 51.20s
32.030 N 116.370 W
DEPTH = 6.0km (geophysicist)
CALIF.-BAJA CALIF. BORDER REGION(45)
<PAS-P>. ML 3.7 (PAS).

IKP	0.66	20 iPc	12	03.30	-1.1	
		eS	12	12.20		
BAR	0.70	339 iPd	12	04.00	-1.1	
		iS	12	12.90		
PLM	1.38	343 iPd	12	15.60	-1.6	
GLA	1.66	52 ePd	12	19.40	-1.5	
PEC	1.97	341 eP	12	25.00	-0.5	
SSK	2.44	333 eP	12	33.00	0.6	
ABL	3.69	320 eP	12	49.00	-1.2	
BCH	4.42	316 eP	13	00.50	0.1	
8 obs. associated						

? SEP 07, 1991 05h 14m 30.70±11.34s
41.893 N ±73.5km 125.851 W ±52.6km
DEPTH = 10.0km (geophysicist)
OFF COAST OF NORTHERN CALIFORNIA(34)

KMOR	4.11	24 P	15	35.29	0.3	
		S	16	17.85		
GT2	4.17	37 P	15	36.29	0.5	
PGO	4.34	33 P	15	38.26	0.1	
VBEM	4.43	43 P	15	39.34	-0.3	
TDH	4.50	40 P	15	40.61	0.1	
VLMM	4.57	36 P	15	41.86	0.3	
VIPM	4.63	54 P	15	42.36	-0.2	
VLL	4.68	39 P	15	44.55	1.4	
CROR	4.70	47 P	15	43.31	-0.1	
RVW	4.81	27 P	15	45.52	0.7	
LVP	4.86	30 P	15	45.35	-0.3	
APM	4.88	37 P	15	46.16	0.2	
MTMW	4.89	31 P	15	45.41	-0.7	
BMW	4.95	21 P	15	46.71	-0.2	
		S	16	38.04		
FL2	4.99	29 P	15	47.13	-0.3	
		S	16	38.22		
JLK	5.02	31 P	15	47.37	-0.5	
SHW	5.03	30 P	15	48.19	0.2	
HSR	5.03	30 P	15	48.04	-0.1	
CDFW	5.03	32 P	15	47.48	-0.6	
REMW	5.05	30 P	15	48.85	0.4	
VTHM	5.06	48 P	15	48.27	-0.1	
ESD	5.06	31 P	15	48.84	0.3	
STD	5.07	30 P	15	48.42	-0.2	
SOSW	5.10	30 P	15	48.80	-0.2	
CZM	5.14	27 P	15	49.68	0.2	
		S	16	44.13		
VGB	5.16	44 P	15	49.86	0.0	

TDL	5.17	29	P	15	50.00	0.0
ASR	5.25	34	P	15	50.64	-0.5
KOSW	5.27	29	P	15	51.42	0.0
LMW	5.41	27	P	15	54.10	0.6
CPW	5.44	20	P	15	53.60	-0.2
GL2	5.45	40	P	15	53.86	-0.1
GLK	5.58	32	Pd	15	55.40	-0.4
JBO	5.63	49	P	15	56.65	0.1
LON	5.65	29	P	15	56.43	-0.4
REMR	5.70	29	P	15	57.31	-0.3
WPW	5.71	31	P	15	57.11	-0.6
GHW	5.75	25	P	15	58.53	0.4
FMW	5.86	29	Pd	15	59.68	-0.1
GSM	6.05	27	P	16	02.44	0.0
HDW	6.09	18	P	16	02.88	-0.1
RMW	6.27	26	P	16	06.16	0.7
EBG	6.28	35	P	16	05.41	-0.3
RSW	6.36	43	P	16	07.18	0.3
LNOR	6.76	51	P	16	08.39	-4.0X

S.D. = 0.4 on 44 of 45 obs.

& SEP 07, 1991 05h 23m 07.42s
59.242 N 152.247 W
DEPTH = 65.9km
SOUTHERN ALASKA (2)
<AEIC>.

HOM	0.52	36	iPc	23	19.79	-0.4
			eS	23	28.43	
AUE	0.59	282	iPd	23	20.30	-0.7
			eS	23	30.17	
CNPM	0.59	61	iPc	23	20.34	-0.7
			eS	23	30.26	
AUI	0.61	279	iPd	23	20.44	-0.8
			eS	23	30.11	
AUP	0.61	282	iPd	23	20.77	-0.6
			eS	23	31.31	
AGU	0.62	282	iPd	23	20.81	-0.6
AUL	0.63	284	iPd	23	20.76	-0.6
AUH	0.63	282	ePd	23	20.83	-0.6
SYI	0.64	187	iPd	23	20.92	-0.6
			eS	23	30.60	
AUW	0.64	282	iPd	23	20.88	-0.7
OPT	0.65	310	ePd	23	20.92	-0.8
CDD	0.79	247	ePd	23	22.40	-0.9
			eS	23	34.01	
BRLK	0.87	52	eP	23	23.80	-0.6
			eS	23	36.04	
NNL	0.94	31	ePc	23	25.51	0.3
MCNL	1.08	268	eP	23	25.91	-1.1
			S	23	39.63	
RED	1.21	348	iPd	23	28.02	-0.8
			S	23	43.83	
RS1	1.25	348	ePd	23	28.85	-0.6
			eS	23	46.20	
RSO	1.25	348	ePd	23	28.79	-0.7
			eS	23	46.06	
RS2	1.25	348	ePd	23	28.91	-0.6
			eS	23	45.50	
REF	1.27	350	ePd	23	29.19	-0.6
			eS	23	45.98	
RDW	1.28	347	ePd	23	29.11	-0.7
			eS	23	46.40	
RDN	1.30	349	ePd	23	29.52	-0.6
			eS	23	46.44	
RDT	1.34	357	ePd	23	29.85	-0.7
			eS	23	47.27	
NCT	1.37	346	ePd	23	30.42	-0.6
			eS	23	47.89	
DFR	1.37	351	eP	23	30.54	-0.5
			eS	23	48.32	
KDC	1.50	185	ePc	23	32.06	-0.6
SLKM	1.63	38	eP	23	34.70	0.2
SEW	1.66	57	eP	23	34.28	-0.6
SPU	1.95	3	eP	23	39.08	0.2
CKL	1.96	359	eP	23	38.99	-0.2
BGL	2.03	358	eP	23	40.55	0.5
PMS	2.41	33	eP	23	45.34	-0.1

32 obs. ossocioted

SEP 07, 1991 05h 39m 19.56± 0.44s
37.979 N ± 5.0km 15.519 E ± 3.8km
DEPTH = 26.6 ± 3.6 km
4.5mb (1 obs.)
SICILY (398)

ATN	0.19	346	Pc	39	23.40	-1.9
			eSg	39	28.00	
MSI	0.23	7	P	39	24.40	-1.3
			eSg	39	28.80	
GMB	0.33	55	P	39	25.00	-2.3
SOI	0.43	77	Pd	39	27.80	-0.9
			eSg	39	36 20	
GIO	0.52	218	P	39	31.44	1.2
MNO	0.65	266	Pd	39	31.80	-0.7
			eSg	39	41.60	
MEU	0.99	208	P	39	37.90	0.1
			eSg	39	53.30	
PZI	1.06	207	P	39	38.29	-0.5
GRI	1.10	40	P	39	40.13	0.9
GIB	1.18	271	Pd	39	40.90	0.4
			eSg	39	57.80	
CZI	1.33	21	P	39	42.60	0.2
ACI	1.47	21	P	39	44.40	-0.1
MCT	1.53	257	P	39	49.74	4.1X
ROI	1.79	27	P	39	51.10	1.9
			eSg	40	12.50	
TDS	1.80	21	P	39	49.40	0.2
			eSn	40	13.00	
CSI	1.89	18	P	39	52.10	1.4
			eSg	40	17.00	
MMN	1.94	11	P	39	51.40	0.1
			eSg	40	17.00	
USI	1.98	292	P	39	50.80	-1.1
MGR	2.16	1	P	39	53.90	-0.5
			eSn	40	19.70	
CVI	2.18	263	P	39	56.00	1.3
ERC	2.32	272	P	39	58.00	1.3
SGO	2.58	356	P	40	00.30	-0.1
LCI	3.02	38	P	40	08.20	1.6
			eSn	40	44.60	
PTS	3.04	248	P	40	07.50	0.5
BRT	3.18	24	P	40	10.10	1.2
BAI	3.31	18	P	40	12.00	1.3
DUI	3.77	348	P	40	18.70	1.4
SDI	3.95	341	P	40	20.00	0.2
IGT	4.07	66	ePc	40	20.98	-0.7
OHR	5.14	51	ePn	40	36.30	-0.6
HVAR	5.24	7	iPn	40	38.80	0.6
FNA	5.33	56	ePd	40	40.38	0.8
AGG	5.44	77	ePc	40	41.70	0.6
LIT	5.83	67	ePd	40	45.26	-1.2
SKO	6.05	47	ePn	40	48.00	-1.6
			e	41	49.50	
			i	41	59.50	
VAY	6.38	56	ePn	40	53.40	-0.9
KNT	6.53	59	ePc	40	56.70	0.4
PGF	6.76	315	eP	40	58.80	-0.9
	0.4s		13.75nm			5.2mb X
VBY	7.52	359	ePn	41	11.00	0.8
			eSn	42	43.30	
PTJ	7.92	2	e(P)	41	15.20	-0.7
SBF	8.48	316	eP	41	22.10	-1.6
	0.4s		4.60nm			5.0mb X
LMR	8.69	311	eP	41	24.30	-2.1
	0.4s		5.75nm			5.1mb X
LRG	8.84	311	eP	41	27.00	-1.6
	0.4s		3.45nm			4.9mb X
Z	20s		0.05um			5.1Msz
LPG	9.96	322	eP	41	48.50	4.2X
	0.6s		9.00nm			5.3mb X
LPL	9.99	322	eP	41	48.90	4.3X
	0.6s		7.20nm			5.2mb X
KHC	11.24	353	eP	42	03.00	1.6
PRU	12.03	357	eP	42	17.10	5.0X
CLL	13.45	353	eP	42	34.00	3.0X
EKA	21.46	330	P	44	09.00	1.3
	1.6s		32.80nm			4.5mb

S.D. = 1.2 on 44 of 49 obs.

? SEP 07, 1991 07h 06m 17.56± 1.59s
3.316 S ±18.4km 138.706 E ±14.5km
DEPTH = 33.0km (normal)
4.4mb (3 obs.)
IRIAN JAYA, INDONESIA (201)

PMG	10.35	126	eP	08	47.00	0.2
WR2	17.07	194	iPd	10	16.10	0.7
	0.3s		25.00nm			4.8mb
			i	10	19.00	
			iS	13	19.10	
OIS	17.16	177	eP	10	16.00	-0.6
	0.2s		6.00nm			4.4mb
			eS	13	21.70	
ASPA	20.76	193	eP	10	58.00	-0.3
	0.8s		8.90nm			4.2mb
			eS	14	48.50	
PSI	40.21	278	eP	13	53.00	0.0

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

SEP 07, 1991 07h 28m 50.29± 0.41s
45.507 N ± 4.1km 20.987 E ± 5.0km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
MG 3.5 (BEO).

TIM	0.28	36	iPc	28	56.00	-0.2
BEO	0.78	209	iPg	29	06.50	1.0
			iSg	29	18.70	
DEV	1.39	74	iPc	29	17.00	1.2
UZD	2.00	304	ePn	29	25.00	0.6
TNR	2.31	85	ePd	30	28.00	59.0X
BUD	2.40	326	iPn	29	30.20	0.0
MDB	2.46	74	ePc	28	33.50	-57.5X
PSZ	2.53	343	iPnd	29	31.40	-0.7
BMR	2.77	38	ePc	29	44.00	8.5X
SRO	2.95	322	iP	28	43.20	-54.8X
			i	29	03.50	
			i	29	29.70	
			i	30	27.70	
VTS	3.33	150	iP	30	31.00	47.5X
MLR	3.49	88	iPd	29	51.00	5.2X
PTJ	3.55	278	e(Pn)	29	46.10	-0.5
			eSn	30	30.60	
SKO	3.55	175	ePn	29	40.00	-6.6X
			e	29	52.00	
SPC	3.72	352	e(Pn)	29	49.90	0.8
			i	30	06.40	
			e	30	40.70	
ZST	3.79	317	iPn	29	49.00	-0.9
			i	29	56.10	
			i(Sn)	30	33.70	
PVL	3.87	125	eP	29	35.00	-16.0X
KKB	3.94	157	eP	29	41.00	-11.2X
VBY	4.03	272	ePn	30	10.00	16.7X
			e(Sn)	31	09.00	
VAY	4.34	164	ePn	30	08.40	10.6X
MMB	4.39	152	eP	29	58.00	-0.6
OHR	4.40	182	ePn	29	59.00	0.3
RZN	4.68	143	eP	30	02.00	-0.8
DIM	4.77	135	eP	30	13.00	9.1X
KDZ	5.02	139	eP	30	07.00	-0.4
KHC	6.20	308	Pn	30	24.30	0.2
			Sg	31	35.50	
PRU	6.24	318	Pn	30	46.00	21.4X
			Sn	32	32.30	
			Sg	32	48.00	

S.D. = 0.8 on 14 of 27 obs.

? SEP 07, 1991 08h 00m 11.21± 2.73s
9.051 S ±23.9km 124.392 E ±19.6km
DEPTH = 94.4 ± 28.5 km
4.7mb (6 obs.)
TIMOR REGION, INDONESIA (289)

KUPT	1.34	215	eP	00	36.00	0.5
MBL	12.81	200	eP	03	11.00	-0.1
	0.3s		2.00nm			4.3mb
			eS	05	23.00	
WR2	14.50	139	iPc	03	30.90	-2.2
	0.2s		14.50nm			4.9mb
			i	03	40.90	
			iS	06	02.90	
ASPA	17.15	149	iPc	04	06.50	0.1
	0.3s		15.00nm			4.7mb
			iS	07	08.20	
OIS	18.61	130	iPd	04	26.40	2.2
	0.4s		27.00nm			4.9mb
			eS	07	39.00	
STK	27.77	147	eP	05	56.50	3.4X
	0.3s		2.10nm			4.2mb
GUN	52.32	316	P	09	16.52	0.5
PKI	52.44	315	P	09	16.32	-0.6
	0.5s		18.00nm			5.4mb
KKN	52.66	315	P	09	17.98	-0.4
DMN	52.67	315	P	09	18.92	0.4
GKN	53.24	315	P	09	22.28	-0.3

S.D. = 1.4 on 10.of 11 obs.

? SEP 07, 1991 08h 27m 25.79± 5.09s
48.167 N ±15.3km 1.894 W ±39.6km

07d 08h

DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.2 (LDG).

LPF	0.59	103	Pg	27	37.20	-0.5
			Sg	27	50.60	
GRR	0.73	72	Pg	27	40.60	0.5
			Sg	27	56.20	
FLN	1.11	57	Pg	27	46.00	-0.7
			Sg	28	06.40	
LDF	1.26	69	Pg	27	49.60	0.5
			Sg	28	11.50	
MFF	1.97	142	Pg	27	59.60	0.1
			Sg	28	29.60	

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

& SEP 07, 1991 08h 36m 43.90s
62.999 N 149.135 W
DEPTH = 77.6km
CENTRAL ALASKA (1)
<AEIC>.

HUR	0.23	265	iPd	36	55.41	-0.3
			eS	37	04.45	
RND	0.43	17	eP	36	57.17	0.1
			S	37	06.83	
TRF	0.69	312	iPc	36	59.53	-0.2
			eS	37	11.17	
MCK	0.74	7	ePc	36	59.91	-0.2
			eS	37	11.60	
CUT	0.79	222	iPd	37	00.41	-0.2
KTH	0.98	305	iPc	37	02.85	-0.1
			eS	37	17.56	
BWN	1.19	353	ePc	37	04.87	-0.5
			eS	37	21.78	
GHO	1.24	175	ePc	37	06.06	-0.1
			S	37	24.00	
SML	1.25	162	ePc	37	06.03	-0.3
			eS	37	24.59	
PWA	1.40	195	ePd	37	08.13	0.0
PLRM	1.41	180	ePc	37	08.49	0.2
			S	37	28.55	
SCM	1.44	143	eP	37	08.81	0.0
SKT	1.51	228	iPd	37	09.24	-0.4
			eS	37	30.84	
WRH	1.55	17	iPd	37	09.23	-0.9
NEA	1.58	1	ePd	37	09.66	-1.0
THY	1.59	73	eP	37	11.89	1.1
			S	37	32.38	
KNK	1.62	168	iPc	37	11.47	0.3
TOA	1.64	122	ePc	37	12.30	0.8
PAX	1.67	89	iPc	37	12.20	0.2
			eS	37	32.82	
HDA	1.71	34	iPd	37	11.56	-0.8
			eS	37	34.31	
SUA	1.72	207	ePd	37	12.63	0.1
			eS	37	36.05	
SDG	1.72	104	ePc	37	12.72	0.2
			S	37	35.13	
CCB	1.76	19	iPd	37	11.79	-1.2
PMS	1.77	187	ePc	37	13.85	0.6
			S	37	37.98	
DJE	1.86	55	eP	37	13.88	-0.5
			S	37	39.43	
TZL	1.97	117	eP	37	16.34	0.5
FBA	2.00	17	iPd	37	15.29	-1.0
MDM	2.01	11	iPd	37	15.48	-0.9
KLU	2.13	134	iPc	37	17.51	-0.7
			eS	37	43.95	
NCG	2.14	223	ePc	37	18.09	-0.2
GLM	2.14	20	iPd	37	17.13	-1.1
			eS	37	44.58	
CGLM	2.17	220	eP	37	18.92	0.2
SPU	2.28	218	eP	37	20.79	0.6
			eS	37	49.83	
VLZ	2.29	144	iPc	37	19.12	-1.1
VZW	2.30	147	eP	37	19.32	-1.1
BGL	2.32	223	eP	37	20.95	0.2
GLI	2.34	155	ePc	37	19.83	-1.1
CKL	2.35	221	eP	37	21.46	0.2
NKA	2.47	205	eP	37	25.90	3.1
SLKM	2.55	192	iPc	37	24.70	0.8
FID	2.58	150	ePc	37	23.24	-1.1
KNIM	2.74	165	ePc	37	26.78	0.3
TMW	2.80	81	eP	37	26.43	-1.0
RDT	2.89	214	eP	37	29.45	0.8
SEW	2.91	183	eP	37	28.44	-0.4
GLB	2.94	120	ePc	37	28.77	-0.6
DFR	2.95	217	eP	37	30.56	1.1
LTI	3.03	168	ePc	37	29.48	-1.0
RDN	3.03	216	eP	37	31.47	0.8
REF	3.04	216	eP	37	31.59	0.8
NCT	3.04	218	eP	37	31.81	1.1
RDW	3.07	216	eP	37	32.67	1.4
RSO	3.07	216	eP	37	32.23	0.9
RS2	3.07	216	eP	37	32.22	0.9
RS1	3.08	216	eP	37	32.09	0.7
RED	3.11	215	eP	37	32.58	0.8
TTA	3.14	272	eP	37	30.80	-1.3
SVW	3.59	241	eP	37	37.46	-1.0
CROM	3.62	126	eP	37	37.92	-1.0
CNPM	3.63	197	ePc	37	38.48	-0.4
TGL	3.74	124	eP	37	38.93	-1.5

61 obs. associated

? SEP 07, 1991 10h 02m 27.03±10.75s
18.792 N ±41.6km 65.364 W ±74.6km
DEPTH = 27.8 ± 10.0 km
PUERTO RICO REGION (90)

LPR	0.68	225	iP	02	40.30	0.0
CPD	0.91	215	iP	02	44.00	0.0
SJG	1.01	228	iP	02	45.10	-0.2
APR	1.34	256	iP	02	50.00	0.0
CLLP	1.35	239	iP	02	50.30	0.2
LRS	1.49	251	iP	02	52.00	-0.2
MGP	1.81	245	iP	02	57.00	0.1

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

% SEP 07, 1991 10h 26m 14.40± 0.92s
39.116 N ± 8.6km 27.587 E ±11.1km
DEPTH = 33.0km (normal)
TURKEY (366)

IZM	0.76	200	iPg	26	28.60	-0.1
			iSg	26	40.80	
DST	0.94	58	iPn	26	31.50	0.1
EZN	1.21	306	ePn	26	35.40	0.4
EDC	1.25	10	ePn	26	36.00	0.4
MFT	1.68	352	ePn	26	41.20	-0.8

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

SEP 07, 1991 10h 40m 20.28± 0.28s
1.644 N ± 4.5km 126.312 E ± 7.5km
DEPTH = 36.6km (2 depth phases)
5.0mb (24 obs.) 4.1Msz (2 obs.)
NORTHERN MOLUCCA SEA (266)

AAI	5.62	160	eP	41	45.00	1.4
			eS	42	59.50	
CGP	6.95	347	eP	42	07.00	4.6X
TSM	8.83	288	iPd	42	32.50	4.0X
	0.8s		391.40nm			6.6mb X
KKM	10.98	294	ePd	43	03.00	4.8X
	0.9s		94.80nm			6.0mb
BAG	15.72	339	eP	44	03.10	2.1
TRT	16.50	236	ePc	44	15.10	4.3X
CVP	16.56	345	ePd	44	13.00	1.5
WR2	22.87	160	iPd	45	20.50	-1.3
	0.7s		236.90nm			5.8mb
			eS	49	25.20	
MBL	23.53	195	eP	45	28.50	0.3
	0.4s		4.00nm			4.3mb
QIZ	23.64	318	P	45	30.30	1.0
IPM	25.41	277	ePd	45	46.90	0.5
OIS	25.62	150	iPd	45	47.00	-1.3
	0.4s		14.00nm			4.9mb
ASPA	26.22	164	iPc	45	52.30	-1.5
	0.8s		63.90nm			5.3mb
Z	20s		0.40um			3.9Msz
			iS	50	28.10	
NANU	26.26	203	eP	45	55.00	0.9
PSI	27.39	273	eP	46	07.00	2.5
LOE	28.79	304	eP	46	17.00	-0.2
CTAO	29.14	139	eP	46	12.50	-7.8X
WHN	30.90	340	P	46	36.00	0.2
			sP	46	50.50	
NJ2	31.05	348	Pc	46	38.50	1.4
GYA	31.07	324	iPd	46	37.80	0.3
	1.0s		20.00nm			4.9mb
CHG	31.79	304	eP	46	43.50	-0.3
	0.8s		11.75nm			4.8mb
CHTO	31.79	304	iP	46	43.30	-0.5
	0.7s		8.26nm			4.7mb
FORR	32.36	177	eP	46	47.00	-1.5
KMI	32.59	318	Pd	46	52.00	1.0
	1.5s		50.00nm			5.2mb
MUN	34.78	195	eP	47	10.60	1.0
CD2	36.10	326	eP	47	20.00	-0.8
	1.2s		50.00nm			5.3mb
XAN	36.10	335	P	47	19.10	-1.7
STK	36.36	158	iPd	47	21.90	-1.0
	0.8s		3.60nm			4.3mb
MAT	36.43	16	(P)	47	21.00	-2.5
	1.3s		21.15nm			4.9mb
DL2	37.33	354	Pd	47	32.00	1.0
	0.8s		80.00nm			5.6mb
TIY	38.10	342	eP	47	36.40	-1.2
Z	28s		0.60um			4.3MszX
YAMJ	38.47	17	P	47	40.70	0.1
BJI	39.31	348	eP	47	46.50	-1.1
	0.7s		8.00nm			4.6mb
Z	22s		0.37um			4.2Msz
OFUJ	39.81	19	P	47	52.10	0.3
SNY	40.08	357	Pc	47	54.40	0.5
	0.8s		20.00nm			4.9mb
LZH	40.10	331	Pd	47	55.00	0.6
	1.5s		82.00nm			5.3mb
Z	25s		0.64um			4.4MszX
			pP	48	07.00	44km
COO	40.26	145	eP	47	56.00	0.4
HHC	41.25	343	eP	48	03.80	0.1
Z	26s		0.70um			4.4MszX
BWA	41.45	152	eP	48	06.10	0.8
CN2	41.98	359	eP	48	09.60	0.1
Z	26s		0.60um			4.4MszX
			sP	48	22.00	
CAN	42.46	152	eP	48	13.70	0.1
TOO	42.87	157	eP	48	23.20	6.3X
	0.7s		5.00nm			4.4mb
MDJ	42.89	3	eP	48	17.50	0.6
GTA	44.68	331	Pc	48	31.20	-0.5
	1.0s		10.00nm			4.6mb
Z	30s		0.70um			4.4MszX
			pP	48	40.00	29km
			PcP	50	14.00	
GUN	46.64	308	P	48	46.56	-1.1
PKI	46.86	307	P	48	48.50	-0.9
KKN	47.06	307	P	48	50.32	-0.5
DMN	47.12	307	P	48	50.72	-0.6
GKN	47.66	307	P	48	54.28	-1.2
KOD	49.27	282	eP	49	08.30	0.0
HYB	49.46	292	eP	49	09.00	-0.4
GBA	49.77	286	Pd	49	10.20	-1.5
	0.8s		21.00nm			5.2mb
NDI	53.93	305	eP	49	37.00	-5.8X
WMO	54.20	326	P	49	43.00	-1.6
	1.0s		30.00nm			5.3mb
YAK	60.28	2	iP	50	26.40	-0.8
QUE	62.91	303	eP	50	44.50	-1.3
CSY	68.72	187	eP	51	23.10	1.1
	0.7s		10.30nm			5.0mb
MAIO	70.45	308	eP	51	35.00	1.6
MAW	81.67	200	iPd	52	37.40	1.5
SVW	82.80	29	eP	52	43.20	1.2
TTA	82.94	27	eP	52	43.60	0.9
PMR	85.96	29	eP	52	59.00	1.2
	1.1s		12.10nm			5.0mb
OBN	88.50	325	eP	53	10.00	-0.2
KAF	93.24	332	iP	53	31.80	-0.3
NUR	94.31	331	eP	53	56.00	19.0X
SLR	97 95	244	iPc	53	34.50	-20.0X
HFS	99.66	332	eP	54	04.30	2.9X
	0.5s		1.00nm			4.6mb
NB2	100.45	333	Pdiff	54	03.40	-1.6
	1.0s		3.20nm			4.8mb
ZOBO	159.67	136	PKP	00	19.00	1.1

S.D. = 1.1 on 59 of 69 obs.

---

* SEP 07, 1991 11h 06m 39.53± 0.79s
0.269 S ±28.6km 124.609 E ±31.4km
DEPTH = 33.0km (normal)
4.5mb (6 obs.)
SOUTHERN MOLUCCA SEA (269)

AAI	4.94	133	eP	07	53.70	0.3
			eS	08	52.30	
WR2	21.77	155	eP	11	28.90	-1.6
	0.4s		13.40nm			4.7mb
OIS	24.93	145	iPd	12	01.40	0.0
	0.8s		35.00nm			5.0mb

ASPA 24.95 159 eP 12 02.30 0.8
0.4s 8.90nm 4.7mb
CHTO 31.54 308 eP 13 02.30 1.1
1.0s 4.25nm 4.3mb
pP 13 18.40 67kmX
STK 35.31 155 iPd 13 34.10 0.4
0.7s 1.70nm 4.1mb
GUN 46.51 310 P 15 06.96 0.7
PKI 46.70 310 P 15 07.50 -0.3
KKN 46.91 310 P 15 09.56 0.3
DMN 46.96 309 P 15 08.32 -1.4
GKN 47.51 310 P 15 13.34 -0.6
GBA 48.71 288 Pc 15 23.50 0.3
0.7s 2.70nm 4.4mb
S.D. = 0.9 on 12 of 12 obs.

SEP 07, 1991 11h 23m 40.61± 0.36s
1.762 N ± 6.8km 122.900 E ± 8.3km
DEPTH = 35.4km (6 depth phases)
4.5mb (10 obs.) 4.1Msz (1 obs.)
MINAHASSA PENINSULA, SULAWESI (265)

TSM 5.62 297 iPc 25 01.50 -2.4
DAV 5.92 27 eP 25 08.50 0.1
CVP 15.88 356 ePd 27 28.00 4.8X
1.0s 74.00nm 4.8mb
IPM 22.02 278 ePc 28 35.00 1.1
PSI 23.98 273 ePc 28 56.60 3.6X
WR2 24.33 153 eP 28 55.60 -0.8
0.9s 18.50nm 4.6mb
i 29 06.00 39km
ASPA 27.45 158 eP 29 24.50 -1.0
1.2s 6.90nm 4.2mb
i 29 34.50 36km
QIS 27.57 144 eP 29 25.30 -1.3
0.7s 8.00nm 4.5mb
i 29 35.40 37km
CHTO 28.95 307 eP 29 38.90 -0.2
1.0s 2.00nm 3.8mb
CD2 34.19 330 eP 30 24.80 -0.2
XAN 34.67 339 P 30 28.40 -0.7
STK 37.87 154 eP 30 55.60 -0.5
0.8s 1.50nm 3.9mb
i 31 05.30 33km
LZH 38.45 335 P 31 01.50 0.4
1.5s 34.00nm 5.0mb
Z 18s 0.25um 4.1Msz
BJI 38.59 352 eP 31 01.50 -0.5
SNY 39.89 1 eP 31 11.00 -1.8
HHC 40.24 347 eP 31 16.10 0.2
GTA 42.98 334 P 31 39.60 1.3
1.2s 10.00nm 4.4mb
Z 12s 0.20um 4.2MszX
BWA 43.24 149 eP 31 41.50 1.1
i 31 52.10 37km
GUN 43.91 310 P 31 46.86 0.5
PKI 44.10 309 P 31 48.06 0.1
CAN 44.24 149 eP 31 50.00 1.5
i 31 59.40 31km
KKN 44.31 309 P 31 49.14 -0.3
DMN 44.36 309 P 31 50.06 0.2
TOO 44.38 154 eP 32 00.30 10.7X
0.9s 17.00nm
CNB 44.42 149 iPc 32 01.20 11.2X
0.7s 19.00nm
GKN 44.91 309 P 31 54.52 0.3
GBA 46.47 287 Pd 32 06.80 0.3
0.6s 2.00nm 4.3mb
WMQ 52.25 328 P 32 51.50 0.8
1.5s 20.00nm 4.9mb
eS 40 14.50
QUE 60.01 304 eP 33 47.40 0.7
OBN 86.44 325 eP 36 21.00 0.2
ALQ 121.16 47 e(PKP) 42 33.00 0.8
S.D. = 1.0 on 27 of 31 obs.

& SEP 07, 1991 12h 13m 53.48s
59.193 N 152.874 W
DEPTH = 76.0km
SOUTHERN ALASKA (2)
<AEIC>.

AUE 0.31 303 ePd 14 04.90 -0.6
AUI 0.32 297 eP 14 04.75 -0.8
eS 14 13.33
AUP 0.33 301 ePd 14 05.25 -0.5
AGU 0.33 301 eP 14 05.41 -0.4
AUH 0.34 301 eP 14 05.67 -0.2
AUL 0.34 304 ePd 14 05.23 -0.5
AUW 0.35 300 iPd 14 05.44 -0.4
S 14 14.95
CDD 0.48 237 ePd 14 05.80 -1.1
eS 14 15.74
OPT 0.50 339 iPd 14 06.26 -0.8
eS 14 16.42
SYI 0.64 157 iPc 14 07.66 -0.7
eS 14 18.59
MCNL 0.75 270 ePc 14 08.93 -0.7
eS 14 20.34
HOM 0.78 53 iPd 14 09.59 -0.4
eS 14 21.49
CNPM 0.90 68 ePd 14 10.57 -0.8
eS 14 23.70
NNL 1.17 43 iPd 14 14.72 0.0
RED 1.23 2 iPd 14 14.34 -1.3
eS 14 30.41
RS1 1.27 3 iPd 14 15.15 -1.1
RSO 1.27 3 iPd 14 15.12 -1.2
iS 14 31.92
RS2 1.28 3 iPd 14 15.18 -1.1
iS 14 31.94
RDW 1.29 1 iPd 14 15.34 -1.2
iS 14 32.37
REF 1.30 4 iPd 14 15.46 -1.2
eS 14 32.57
RDN 1.33 2 iPd 14 15.81 -1.1
eS 14 32.85
NCT 1.37 359 iPd 14 16.35 -1.1
eS 14 34.09
RDT 1.41 9 iPd 14 16.60 -1.3
iS 14 34.52
DFR 1.41 4 iPd 14 16.84 -1.1
eS 14 35.02
KDC 1.46 172 eP 14 17.85 -0.7
SLKM 1.88 44 ePc 14 22.64 -1.6
S 14 46.15
SEW 1.96 61 ePc 14 23.28 -2.0
iS 14 46.69
CKL 2.03 7 ePd 14 25.28 -1.1
eS 14 49.54
SPU 2.04 11 iPd 14 25.42 -1.0
eS 14 49.99
BGL 2.09 6 ePd 14 26.32 -0.9
CGLM 2.17 11 ePd 14 27.35 -0.8
eS 14 53.39
NCG 2.25 9 ePd 14 28.47 -0.9
SVW 2.36 326 iPc 14 29.38 -1.5
eS 14 57.25
SUA 2.51 24 ePd 14 32.12 -0.9
eS 15 02.24
PMS 2.64 37 iPd 14 33.49 -1.2
eS 15 03.96
LTI 2.69 69 eP 14 33.21 -2.1
S 15 03.34
MTU 2.77 71 eP 14 34.76 -1.8
KNIM 2.85 64 ePd 14 34.87 -2.7
S 15 07.64
SKT 2.87 13 ePd 14 36.52 -1.4
PWA 2.88 30 ePc 14 36.96 -1.0
PLRM 3.04 36 ePd 14 37.99 -2.2
KNK 3.13 43 ePd 14 39.36 -2.1
eS 15 14.38
GHO 3.24 35 ePc 14 41.10 -2.0
S 15 18.45
GLI 3.36 57 ePd 14 41.27 -3.4
SML 3.45 39 eP 14 43.74 -2.3
CUT 3.47 20 ePc 14 44.65 -1.5
eS 15 24.95
FID 3.57 61 ePc 14 44.06 -3.6
VZW 3.67 57 ePd 14 46.33 -2.8
VLZ 3.80 56 eP 14 48.13 -2.7
HUR 4.11 21 eP 14 54.11 -1.1
KLU 4.15 53 ePd 14 53.24 -2.7
S 15 39.07
TOA 4.41 46 eP 14 57.46 -1.9
TRF 4.45 15 eP 14 58.92 -1.2
KTH 4.48 11 eP 14 59.56 -0.8
RND 4.65 23 eP 15 00.87 -2.0
TZL 4.65 49 eP 15 00.95 -1.8
SDG 4.90 44 eP 15 04.12 -2.1
MCK 4.93 21 eP 15 04.78 -1.9
GLB 5.04 60 ePc 15 05.04 -3.2
CROM 5.14 68 eP 15 06.47 -3.2
PAX 5.22 40 eP 15 08.58 -2.2
TGL 5.28 68 eP 15 08.47 -3.2
YAH 5.74 73 ePc 15 15.83 -2.4
WRH 5.76 21 eP 15 15.34 -2.9
HDA 5.93 26 eP 15 17.91 -2.7
CCB 5.97 21 eP 15 18.03 -3.1
MDM 6.18 19 eP 15 21.07 -3.0
67 obs. ossocioted

% SEP 07, 1991 12h 28m 15.49± 1.05s
39.340 N ± 7.2km 16.282 E ± 8.5km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

ACI 0.06 280 P 28 18.10 0.3
CZI 0.17 223 P 28 19.30 0.0
ROI 0.32 44 P 28 22.10 -0.1
TDS 0.32 8 P 28 21.70 -0.5
eSg 28 25.70
CSI 0.44 1 P 28 25.40 1.0
MMN 0.59 338 P 28 27.40 -0.1
eSg 28 35.50
MGR 0.97 325 P 28 33.70 -0.3
eSg 28 49.00
SGO 1.43 329 P 28 40.90 -0.5
eSg 29 01.10
S.D. = 0.6 on 8 of 8 obs.

SEP 07, 1991 12h 36m 38.61± 0.65s
18.800 S ± 7.4km 169.156 E ±10.9km
DEPTH = 245.8 ± 5.5 km
4.6mb (5 obs.)
VANUATU ISLANDS (186)

PVC 1.32 323 iPd 37 15.40 -0.1
iS 37 42.00
BKM 1.42 322 iP 37 16.00 -0.2
iS 37 44.00
DZM 4.13 218 iPd 37 45.10 0.8
iS 38 39.90
RMQ 20.31 244 eP 41 10.30 13.1X
MNG 22.41 167 P 41 17.80 0.2
0.3s 34.00nm 5.4mb
KIW 22.54 169 eP 41 18.90 0.2
TCW 22.77 170 eP 41 21.60 0.7
CAW 22.80 168 eP 41 21.00 -0.3
MRW 22.86 169 P 41 21.60 -0.2
BLW 23.13 168 P 41 24.10 -0.4
AMW 23.14 167 P 41 24.20 -0.2
MOW 23.14 168 eP 41 23.90 -0.6
STK 28.02 237 eP 42 09.80 0.6
0.5s 2.40nm 4.1mb
WR2 32.81 262 iPd 42 49.70 -1.4
0.3s 14.20nm 5.1mb
ASPA 33.16 255 iPc 42 53.50 -0.7
0.3s 113.90nm 6.0mb X
MBL 46.27 258 iPc 44 41.60 -0.1
0.4s 12.00nm 4.6mb
KMI 77.98 302 eP 48 12.50 0.7
CHG 78.40 295 eP 48 14.40 0.5
CHTO 78.40 295 iPc 48 14.00 0.1
0.7s 3.34nm 4.2mb
VAY 143.74 315 ePKP 55 42.40 -3.5X
KHC 143.91 333 ePKP 55 42.50 -3.6X
SKO 144.16 317 ePKP 55 44.40 -2.3X
DMU 144.84 356 ePKP 55 45.50 -1.9
DCN 145.41 356 ePKP 55 47.40 -1.0
ECP 146.50 355 ePKP 55 50.40 0.2
CDF 147.01 338 ePKP 55 52.40 1.1
0.6s 3.60nm
HAU 147.68 338 ePKP 55 54.20 1.9
0.6s 3.60nm
FLN 148.96 347 iPKPc 55 57.10 2.9X
0.4s 4.60nm
LOR 149.16 340 iPKPc 55 58.10 3.5X
0.8s 8.05nm
SSF 149.45 341 ePKP 55 58.90 3.8X
0.8s 5.35nm
LPL 149.63 335 ePKP 55 59.90 4.2X
0.8s 4.05nm
LPG 149.63 335 ePKP 55 59.90 4.1X
0.6s 2.70nm
SMF 149.71 340 ePKP 55 59.40 3.9X
0.8s 4.05nm
LPF 149.77 347 iPKPc 55 59.30 3.8X
0.6s 6.30nm
BGF 150.11 341 iPKPc 56 00.20 4.1X
0.7s 4.95nm

07d 12h

TCF	150.54	341	iPKPc	56	01.30		4.5X
	0.8s		2.70nm				
LSF	150.78	342	ePKP	56	01.50		4.4X
	0.8s		6.70nm				
MFF	150.91	345	iPKPc	56	02.10		4.9X
	0.6s		3.60nm				
PGF	150.96	329	iPKPc	56	02.40		4.8X
	0.6s		9.00nm				
FRF	151.26	333	ePKP	56	02.90		5.0X
	0.8s		5.35nm				
LMR	151.50	333	ePKP	56	03.40		5.2X
	0.4s		2.30nm				
	S.D. = 0.9		on 23 of 41 obs.				

SEP 07, 1991 14h 00m 07.66± 0.27s
43.690 N ± 3.0km 11.883 E ± 2.4km
DEPTH = 16.5 ± 2.9 km
CENTRAL ITALY (381)
ML 3.3 (LDG), 3.0 (GEN), 2.9 (ROM).

CRE	0.08	141	Pd	00	11.50		0.3
			eSg	00	13.80		
PGD	0.22	328	Pc	00	12.80		-0.2
			eSg	00	17.00		
SFI	0.23	354	Pc	00	12.30		-0.7
			eSg	00	15.40		
RSM	0.48	60	P	00	18.50		1.3
ARV	0.79	104	P	00	22.50		-0.1
			eSg	00	37.30		
ASS	0.84	137	P	00	23.50		0.0
			eSg	00	37.00		
PII	0.99	272	P	00	26.50		0.6
MME	0.99	301	P	00	26.90		0.7
			eSg	00	41.50		
BDI	1.00	292	P	00	26.50		0.3
			eSg	00	39.90		
MAO	1.38	203	P	00	32.90		0.7
MNS	1.43	156	P	00	32.60		-0.3
			eSg	00	51.00		
RMP	1.97	162	P	00	41.00		0.3
AZI	2.05	146	P	00	42.20		0.4
BOB	2.06	302	P	00	40.50		-1.5
			eSn	01	06.50		
SAL	2.15	334	P	00	43.00		-0.2
VVI	2.32	9	P	00	45.40		-0.4
			eSn	01	13.00		
CTI	2.36	356	P	00	46.50		0.1
			eSn	01	12.90		
PGF	2.40	243	Pn	00	47.00		0.1
			Sn	01	15.60		
TRI	2.42	33	e(Pn)	00	46.00		-1.1
			i(Sn)	01	16.90		
			i(Sg)	01	24.10		
			i	01	33.10		
SDI	2.44	144	P	00	47.80		0.3
PCP	2.55	291	P	00	51.22		2.2
CKI	2.70	287	P	00	50.90		-0.3
			eSn	01	21.10		
FIN	2.70	282	P	00	51.63		0.4
CEY	2.74	41	e(Pn)	00	51.50		-0.2
			eSn	01	24.30		
VOY	2.74	31	ePn	00	50.50		-1.3
			eSn	01	23.50		
			eSg	01	37.10		
IMI	2.90	276	P	00	54.19		0.2
FVI	2.97	12	P	00	54.60		-0.3
LJU	3.01	38	ePn	00	55.50		0.0
			eSn	01	28.50		
VBY	3.02	52	ePn	00	55.30		-0.3
			eSn	01	30.40		
SBF	3.23	275	Pn	00	58.20		-0.5
			Sn	01	34.40		
TMA	3.23	320	ePc	00	59.70		0.9
OSS	3.24	338	ePc	01	01.00		2.1
ENR	3.27	281	P	00	59.86		0.6
VDL	3.28	329	ePd	01	01.20		1.7
STV	3.34	281	P	01	00.24		0.0
HVAR	3.36	97	iPn	01	00.50		0.0
ORX	3.39	306	P	01	00.86		-0.2
DOI	3.44	285	P	01	01.00		-0.7
BHB	3.51	291	P	01	04.70		2.0
PZZ	3.54	285	P	01	02.50		-0.7
KBA	3.54	16	eP	01	03.00		-0.2
			i	01	09.50		
			i	01	19.00		
WTTA	3.58	357	iPd	01	05.50		1.7
			iSg	01	49.00		
ZAG	3.61	53	ePn	01	05.00		0.9
RSP	3.62	295	P	01	04.45		0.1
PTJ	3.65	51	e(P)	01	05.50		0.8
MMK	3.65	312	ePc	01	07.10		2.2
LLS	3.78	328	ePd	01	07.70		1.1
FRF	3.80	270	Pn	01	06.40		-0.4
			Sn	01	48.00		
LSD	3.81	299	P	01	03.63		-3.5X
RRL	3.86	290	P	01	07.42		-0.4
LMR	3.93	267	Pn	01	07.20		-1.3
			Sn	01	50.40		
BNI	3.97	292	P	01	06.00		-3.3X
DIX	3.98	308	ePc	01	12.20		2.7
LRG	4.02	269	Pn	01	09.60		-0.2
			Sn	01	54.00		
LPG	4.09	298	Pn	01	12.00		0.9
LPL	4.11	298	Pn	01	12.40		1.1
BSF	5.46	321	Pn	01	29.70		-0.7
			Sn	02	29.30		
KHC	5.57	12	ePn	01	30.50		-1.3
			eSn	02	33.00		
			e	03	30.50		
CDF	5.71	327	Pn	01	32.80		-1.0
			Sn	02	34.60		
HAU	5.79	320	Pn	01	34.40		-0.5
			Sn	02	37.00		
SMF	6.41	300	Pn	01	43.20		-0.4
LBF	6.47	303	Pn	01	43.60		-1.0
			Sn	02	52.00		
LOR	6.68	305	Pn	01	47.10		-0.4
			Sn	02	57.00		
BRG	7.32	10	e(P)	02	11.00		14.6X
			e	03	29.00		
			e	04	10.00		
	S.D. = 1.0		on 61 of 64 obs.				

* SEP 07, 1991 14h 19m 19.11± 0.79s
36.176 N ± 9.2km 140.173 E ± 9.8km
DEPTH = 112.5 ± 6.0 km
4.2mb (5 obs.)
NEAR EAST COAST OF HONSHU, JAPAN(228)

KAKJ	0.03	1	iPd	19	33.90		-0.8
			S	19	44.10		
CHJJ	0.96	263	iP+	19	40.10		-0.3
			S	19	56.00		
NIIJ	1.42	319	P	19	46.30		0.8
			S	20	06.70		
MAT	1.63	284	iPc	19	48.50		0.5
			iS	20	09.80		
MTMJ	1.95	283	iP+	19	53.00		0.8
IIDJ	1.96	250	iP+	19	52.60		0.3
			S	20	17.80		
YAMJ	2.00	357	P	19	53.30		0.7
			eS	20	18.90		
OFUJ	3.13	22	iPd	20	06.70		-0.9
			S	20	41.80		
TSRJ	3.46	261	P	20	12.20		0.1
WKYJ	4.23	244	P	20	22.10		-0.5
			S	21	08.50		
AOMJ	4.38	2	P	20	24.10		-0.5
CN2	13.61	309	eP	22	33.80		5.3X
8JI	19.26	289	eP	23	35.00		-2.2
XAN	25.60	274	eP	24	37.60		-1.9
YAK	26.68	349	eP	24	49.00		0.0
CHTO	40.11	256	e(P)	26	47.60		2.3
	1.0s		2.25nm			3.9mb	
WMO	40.34	298	eP	26	47.50		0.5
INK	55.60	27	eP	28	45.00		0.2
WR2	56.09	187	eP	28	46.30		-2.4
	0.8s		2.00nm			4.2mb	
			e	28	54.20		
MBC	57.63	16	eP	28	59.00		0.0
	0.7s		3.00nm			4.4mb	
ASPA	59.81	187	eP	29	16.20		1.5
	1.1s		3.10nm			4.3mb	
NB2	74.59	337	P	30	46.10		-1.0
	0.7s		2.00nm			4.0mb	
ALO	85.91	49	eP	31	48.80		0.9
ZOBO	147.98	59	ePKP	38	54.00		3.4X
LPB	148.18	59	ePKP	38	52.00		1.3
CNCB	148.45	60	PKP	38	56.00		4.7X
	S.D. = 1.3		on 23 of 26 obs.				

SEP 07, 1991 14h 32m 56.43± 0.15s
24.103 S ± 3.1km 179.836 W ± 3.7km
DEPTH = 534.1km (3 depth phases)
5.3mb (53 obs.)
SOUTH OF FIJI ISLANDS (171)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 21S, 42C
Centroid Location:
Origin Time 14:33: 0.8 0.8
Lat 24.11S 0.09 Lon 179.63W 0.06
Dep 541.2 3.0 Half-duration 2.1
Moment Tensor; Scale 10**17 Nm
Mrr= 0.33 0.06 Mtt=-0.45 0.10
Mff= 0.12 0.09 Mrt=-0.44 0.09
Mrf=-1.81 0.09 Mtf=-0.45 0.09
Principal Axes:

	Val=	Plg=	Azm=
T	2.04	47	90
N	-0.18	16	198
P	-1.87	39	301

Best Double Couple:Mo=2.0**17
NP1:Strike= 93 Dip=17 Slip= 166
NP2: 197 86 74

SVA	6.17	345	eP	34	36.20		-0.4
			eS	35	55.20		
VUN	6.27	345	eP	34	35.60		-2.0
OUZ	12.46	206	P	35	43.70		3.5X
DZM	12.79	276	iPd	35	45.00		1.2
			iS	38	06.50		
			ScP	43	20.20		
KUZ	13.17	196	P	35	49.70		2.2
WLZ	14.24	195	eP	36	00.70		2.4
URZ	14.35	190	eP	35	57.90		-1.4
			S	38	29.50		
NOZ	14.58	187	eP	36	02.40		0.7
PATZ	14.62	192	eP	36	03.70		1.6
MOZ	15.07	196	P	36	0B.80		2.3
NGZ	15.52	193	eP	36	11.60		0.5
RUZ	15.53	194	eP	36	11.80		0.7
CNZ	15.55	193	eP	36	11.20		-0.2
BSZ	16.26	195	eP	36	18.50		0.3
PGZ	16.79	190	eP	36	21.80		-1.6
MNG	16.93	192	eP	36	22.90		-1.9
	0.2s		59.00nm			5.9mb	
			eS	39	11.60		
KIW	17.28	194	eP	36	26.60		-1.6
			eS	39	22.30		
MTW	17.45	192	eP	36	28.00		-1.8
DIW	17.46	196	eP	36	29.70		-0.2
CAW	17.49	193	eP	36	28.70		-1.5
AMW	17.55	191	eP	36	29.50		-1.2
MRW	17.68	194	eP	36	30.70		-1.3
TCW	17.76	195	eP	36	31.40		-1.4
CCW	18.28	194	eP	36	38.50		0.6
THZ	18.62	197	eP	36	41.70		0.5
			eS	39	42.80		
KHZ	19.07	195	P	36	45.40		0.0
	0.3s		78.00nm			5.8mb	
			S	39	50.00		
LTZ	19.74	197	P	36	50.90		-0.9
WVZ	20.46	200	P	36	57.70		-0.6
MOZ	20.51	196	P	36	58.10		-0.6
			eS	40	14.20		
EWZ	20.82	199	P	37	01.30		-0.3
BWZ	22.04	200	P	37	11.10		-1.7
ODZ	22.28	198	eP	37	13.60		-1.4
LRCZ	22.69	200	P	37	17.50		-1.4
MHZ	22.71	200	P	37	17.60		-1.4
MSZ	22.82	203	eP	37	19.80		0.0
TUZ	23.40	199	P	37	25.30		0.2
BCZ	24.01	201	eP	37	30.00		-0.6
HNR	24.19	304	ePc	37	30.00		-2.4
BRS	24.87	257	iPc	37	39.00		0.5
	0.7s		43.00nm			5.2mb	
			i(pP)	37	52.60		56kmX
			iScP	43	47.00		
RMO	28.46	259	iPd	38	21.30		11.3X
	0.7s		193.00nm				
			epP	39	48.40		
			iPcP	41	16.20		
			iScP	44	08.50		
AFR	28.81	83	iP	38	11.80		-1.2
	0.8s		135.00nm			5.6mb	
CNB	28.88	240	iPc	38	15.00		1.4
	1.0s		292.00nm			5.8mb	
			iPcP	39	45.10		
PAE	28.95	83	iP	38	12.90		-1.3
	0.8s		60.00nm			5.2mb	

PPT	28.98	83	iP	38	13.40	-1.1	MTMJ	72.39	325	P	43	28.90	-0.9	NB2	142.30	351	PKP	51	24.50	-4.4X
	0.8s	110.00nm			5.5mb		OFUJ	72.44	329	P	43	29.00	-0.8		0.7s	5.90nm				
PPN	29.12	83	iP	38	14.60	-1.1	YAMJ	72.50	328	P	43	30.10	-0.1	HFS	142.77	349	ePKP	51	25.00	-4.7X
	0.8s	50.00nm			5.2mb		TSRJ	72.57	323	P	43	30.10	-0.6		0.7s	31.60nm				
CAN	29.17	240	iPd	38	17.40	1.3	HOOJ	74.40	333	eP	43	41.60	0.7	KAS	147.17	310	ePKP	51	41.00	3.3X
			iPcP	39	46.90		KUSJ	74.41	334	eP	43	40.50	-0.4	EDU	147.51	3	iPKPc	51	40.20	2.6X
TVO	29.21	83	iP	38	15.40	-1.1	ASAJ	76.10	333	eP	43	51.30	1.1		0.6s	46.00nm				
	0.8s	85.00nm			5.4mb		MAW	77.61	200	eP	44	00.00	1.9	ELO	147.54	4	iPKPc	51	40.30	2.6X
BWA	29.44	242	iPd	38	17.30	-1.1		1.1s	24.00nm				4.5mb		0.6s	29.00nm				
			ePcP	39	46.80		AIA	78.33	157	eP	44	03.90	1.9	BHL	147.60	296	PKP	51	42.00	3.3X
CMS	31.16	249	iPd	38	34.00	0.9	NJ2	80.90	311	Pc	44	16.60	0.7	EBH	147.78	4	iPKPc	51	41.20	3.1X
	0.1s	78.00nm			6.3mb		SYP	81.39	46	eP	44	19.00	0.5		0.5s	35.00nm				
PMO	31.37	79	iP	38	34.00	-0.9	PRS	81.58	44	iPc	44	19.97	0.6	EAB	147.78	5	iPKPc	51	41.00	2.9X
	0.8s	45.00nm			5.1mb		GCC	81.62	43	iPc	44	20.02	0.6		0.5s	25.00nm				
VAH	31.52	80	iP	38	35.10	-1.1	PCC	81.67	43	iPc	44	20.08	0.4	ESY	148.16	3	ePKPc	51	41.80	3.1X
	0.8s	40.00nm			5.1mb		SAO	81.80	44	eP	44	21.02	0.6		0.6s	34.00nm				
TPT	31.62	79	iP	38	36.30	-0.7	PRI	81.92	45	iPc	44	22.03	0.9	EAU	148.18	4	ePKPc	51	42.20	3.5X
	0.8s	90.00nm			5.4mb		BKS	82.00	42	ePc	44	22.10	0.7		0.6s	52.00nm				
CTAO	31.63	271	iPd	38	37.50	0.4		0.7s	61.00nm				5.2mb	EBL	148.28	3	ePKPc	51	42.30	3.4X
	0.8s	436.42nm			6.1mb		ZSP	82.03	42	iPc	44	22.20	0.7		0.7s	24.00nm				
			ipP	38	42.00	16kmX	PAS	82.37	47	eP	44	23.00	-0.3	EKA	148.71	4	PKP	51	41.00	1.5
			ePP	40	05.00		MWC	82.49	47	eP	44	25.00	0.8		1.0s	15.30nm				
			e	41	32.00		MDJ	82.52	326	eP	44	24.00	0.2	CSS	149.31	298	ePKP	51	46.00	4.8X
			iS	43	08.00			0.7s	40.00nm				5.1mb	DMU	149.77	8	ePKP	51	45.90	4.7X
RUV	31.76	80	iP	38	37.40	-0.8	FOX	82.63	40	iPc	44	25.90	1.5		0.6s	30.00nm				
	0.8s	80.00nm			5.4mb		PLM	82.80	49	iPd	44	26.00	0.3	DMU	149.77	8	ePKP	51	53.50	12.3X
TOO	32.46	237	iPd	38	45.40	1.4	FHC	82.81	39	iPc	44	26.17	0.7	KRA	149.86	334	iPKPd	51	41.50	0.1
	0.5s	97.00nm			5.7mb		RVR	82.82	48	eP	44	26.00	0.5	MLR	150.17	322	ePKP	51	49.00	6.7X
QLP	32.50	258	iPd	38	45.00	0.6	SBB	82.91	47	iPd	44	27.00	0.9	DCN	150.26	9	ePKP	51	47.00	5.1X
	0.3s	123.00nm			6.0mb		FRI	83.04	44	iPc	44	26.73	0.1		0.6s	30.00nm				
TAU	32.91	227	iPd	38	49.30	1.7	ISA	83.05	46	eP	44	27.00	0.2	SPC	150.41	333	iPKP	51	48.90	6.3X
BFD	34.67	239	iPd	39	04.00	1.5	WHN	83.24	308	iPd	44	28.60	0.9	KSP	150.53	339	iPKPc	51	48.60	6.1X
	0.9s	114.00nm			5.5mb			0.6s	30.00nm				5.0mb		0.6s	63.00nm				
PMG	34.70	289	iPd	39	02.00	-1.0	CMB	83.25	43	iPc	44	27.81	0.1				i	51	57.70	
STK	34.79	248	iPd	39	04.80	1.3	ORV	83.49	41	iPc	44	29.03	0.2				e	53	56.50	
	0.8s	40.90nm			5.1mb		WDC	83.52	40	eP	44	29.47	0.6	CLL	151.09	343	iPKP	51	49.60	6.3X
			iS	43	56.60		CLC	83.72	46	iP+	44	30.00	-0.1		0.7s	51.00nm				
LAT	36.23	293	iPd	39	15.10	-0.5	CWC	83.77	46	iP+	44	30.00	-0.5				i	51	58.90	
ADE	37.42	243	iPd	39	25.20	0.0	SNY	83.90	321	eP	44	29.60	-1.1				pPKP	53	53.00	
	0.8s	197.01nm			5.8mb			0.9s	20.00nm				4.7mb	BRG	151.22	342	ePKP	51	44.10	0.6
OIS	37.59	267	iPd	39	26.20	-0.5	MIN	83.92	41	eP	44	31.15	0.0				i	51	50.10	
	0.4s	22.00nm			5.1mb		GSC	83.95	47	eP	44	32.00	0.7				ePPKP	53	54.00	
			eS	44	33.00		GLA	84.04	50	iP+	44	33.00	1.3	ECP	151.52	8	ePKP	51	49.70	5.9X
RKT	40.99	98	iP	39	54.40	0.2	CN2	84.14	324	iPd	44	32.40	0.5	WTS	151.69	351	iPKPd	51	51.10	7.0X
	0.9s	55.00nm			5.1mb			1.5s	100.00nm				5.2mb		0.7s	35.00nm				
ASPA	42.15	261	iPd	40	03.50	0.0	TIA	84.48	314	P	44	34.00	0.2	PRU	151.83	340	PKP	51	45.50	1.1
	0.7s	264.90nm			5.9mb		NVL	85.03	184	(P)	44	38.00	2.1				e	51	50.30	
			iScP	44	47.70					e	46	35.00	533km				e	52	03.00	
			iS	45	43.10					e	54	21.00		MOX	152.05	344	iPKPd	51	52.00	7.3X
			iScS	49	06.50		SNA	85.83	179	iPd	44	40.90	1.2		1.3s	16.00nm				
WR2	42.52	266	iPc	40	05.60	-0.8		0.9s	36.97nm				5.1mb	ZST	152.46	335	e(PKP)	51	49.40	4.1X
	0.5s	344.70nm			6.1mb		LOE	86.89	290	eP	44	47.00	1.3				i	52	05.40	
			iScP	44	50.10		BJI	87.28	316	eP	44	47.00	-0.1	KHC	152.88	340	ePKP	51	45.50	-0.5
			eS	45	45.70			2.0s	76.00nm				5.1mb				i	51	53.80	
FORR	46.34	250	iPd	40	35.50	-0.4	PGC	88.19	34	eP	44	51.00	-0.1				i	52	08.80	
GUA	50.85	314	eP	41	08.40	-1.4	TIY	88.44	313	eP	44	53.00	0.4	ENN	153.01	352	ePKP	51	54.00	8.0X
	0.7s	213.70nm			5.7mb			0.8s	40.00nm				5.3mb		0.8s	8.00nm				
PJG	50.92	314	eP	41	08.70	-1.6	XAN	88.98	308	P	44	56.00	0.8				e	52	07.00	
COOL	52.28	249	iPd	41	19.00	-1.1		0.7s	20.00nm				5.1mb	GRF	153.03	344	ePKP	51	54.10	8.0X
	0.4s	15.00nm			4.7mb		KMI	89.49	298	Pd	44	59.00	1.0				e	52	08.50	
AAI	54.00	284	eP	41	31.10	-1.5		1.5s	83.00nm				5.4mb	WTTA	155.14	341	iPKP	51	58.30	9.1X
KLB	55.04	247	iPd	41	39.00	-0.7	CHG	89.89	291	iPd	45	01.10	1.5				i	52	17.30	
	0.4s	34.00nm			5.0mb			0.8s	35.45nm				5.3mb	LIC	161.54	163	PKP	51	57.70	0.5
RKG	55.26	244	iPd	41	40.80	-0.3				e	47	03.20	554kmX	KIC	161.74	164	PKP	51	57.80	0.4
NWAO	55.29	246	iPd	41	40.20	-1.2	CHTO	89.89	291	iPd	45	00.80	1.2	TIC	161.94	163	PKP	51	58.10	0.5
MBL	55.39	260	iPd	41	41.40	-0.9		1.2s	61.46nm				5.4mb		S.D. = 1.1		on 150 of 182 obs.			
	0.4s	45.00nm			5.2mb					pP	46	54.80	510kmX	---						
BAL	56.10	248	iPd	41	46.10	-0.9	PNT	90.58	35	eP	45	02.00	-0.1	?	SEP 07, 1991		17h 45m 04.42± 5.29s			
	0.3s	30.00nm			5.1mb			0.5s	6.00nm				4.8mb		3.701 N ±13.0km		77.048 W ±46.8km			
MUN	56.29	247	iPd	41	48.00	-0.3	HHC	90.67	315	P	45	03.90	1.0		DEPTH = 33.0km		(normol)			
	0.4s	189.00nm			5.8mb		ALQ	90.96	52	eP	45	04.50	0.0	NEAR WEST COAST OF COLOMBIA					(102)	
MRWA	56.96	250	iPd	41	52.00	-0.9		1.0s	9.75nm				4.8mb		MD 2.6 (UVC).					
	0.4s	45.00nm			5.2mb					e	47	02.00	527km							
NANU	58.88	257	iPd	42	06.40	0.3	CD2	91.32	303	eP	45	07.70	1.7	ANCC	0.26	136	iPc	45	11.72	0.0
CSY	60.00	206	iPc	42	13.10	0.3		1.2s	70.00nm				5.5mb				eS	45	16.30	
	0.5s	29.30nm			4.9mb		BTO	91.54	314	eP	45	05.00	-1.9	HOOC	0.47	119	eP	45	14.86	0.0
SPA	66.04	180	iPc	42	53.50	1.8	LZH	93.62	308	Pd	45	16.50	-0.1	CLMC	0.52	70	ePc	45	15.26	-0.2
	0.8s	27.08nm			4.9mb			1.5s	37.00nm				5.3mb	BUGC	0.81	76	iPc	45	19.78	0.2
			i	44	45.00	542km	BUL	128.02	215	iPKPc	51	03.90	0.1				eS	45	30.40	
TRT	66.41	272	ePc	42	55.10	0.6				i	53	33.80		HOBC	1.12	54	ePc	45	23.91	0.0
	0.8s	203.20nm			5.7mb		MTD	129.09	220	iPKPc	51	03.80	-2.0		S.D. = 0.2		on 5 of 5 obs.			
KKM	69.11	287	ePd	43	10.20	-0.8				i	53	36.00		---						
	0.7s	51.80nm			5.2mb		SOD	133.71	346	ePKP	51	17.00	4.0X		SEP 07, 1991		18h 09m 21.29± 0.22s			
CHJJ	71.36	326	P	43	22.80	-0.9	KAF	138.08	342	ePKP	51	12.10	-9.2X		46.229 N ± 2.0km		7.895 E ± 2.4km			
IIDJ	71.49	325	P	43	23.40	-1.1	NUR	139.85	341	iPKP	51	17.10	-7.4X		DEPTH = 10.0km		(geophysicist)			
MAT	72.15	326	iPd	43	26.90	-1.4				e	51	23.00		SWITZERLAND					(544)	
	0.9s	16.81nm			4.6mb		UPP	142.23	346	iPKP	51	23.90	-4.8X		ML 3.2 (LDG), 2.8 (STR).					

07d 18h

MMK	0.18	165	ePc	09	25.20	-0.4			Sg	10	59.21			DEPTH = 10.0km (geophysicist)			
DIX	0.37	246	ePd	09	28.90	0.0	LMR	3.06	199 Pn	10	11.40	0.9		GREECE			(364)
ORX	0.60	174	P	09	33.37	-0.1	SSF	3.14	287 Pn	10	13.00	1.3					
			S	09	39.78				Pg	10	21.20		AGG	0.53	128 iPd	49	12.38	-1.1
EMS	0.69	257	ePc	09	35.00	-0.1			Sg	11	00.50				eS	49	22.06	
TMA	0.69	100	ePc	09	33.70	-1.4	AVF	3.19	282 Pn	10	12.80	0.4	LIT	0.92	35 ePd	49	19.42	-1.0
LSD	0.93	214	P	09	38.65	-0.6			Sg	11	02.00				eS	49	34.70	
			S	09	49.93		AGO	3.32	269 Pn	10	12.40	-1.9	KZN	0.95	359 ePb	49	19.20	-1.9
LLS	0.99	50	ePc	09	39.30	-1.0	FVI	3.40	82 P	10	16.50	1.1			eSb	49	36.90	
LPL	1.08	229	Pg	09	41.60	-0.2			eSn	10	56.00		FNA	1.47	347 ePd	49	28.14	-1.2
			Sg	09	56.20		LBL	3.40	255 Pn	10	13.42	-2.2			iS	49	47.70	
LPG	1.08	228	Pg	09	41.60	-0.3	TOD	3.43	10 ePn	10	13.57	-2.3	PAIG	1.56	68 ePd	49	32.22	1.6
			Sg	09	56.20		PYM	3.44	264 Pn	10	16.70	0.6	THE	1.56	35 ePc	49	31.46	0.8
VDL	1.12	76	ePc	09	41.60	-0.8	GRC	3.48	290 Pn	10	17.57	1.0	KEK	1.59	284 ePn	49	31.60	0.5
RSP	1.17	203	P	09	42.55	-0.6	BGF	3.51	277 Pn	10	17.00	0.0	GRG	1.67	16 ePd	49	31.98	-0.3
			S	09	57.11				Sg	11	12.80		OHR	1.92	337 ePn	49	36.20	0.3
BBS	1.26	348	Pn	09	45.74	1.0	RUP	3.52	351 ePn	10	17.19	0.0	OUR	1.95	59 ePd	49	36.86	0.6
ZLA	1.30	15	ePc	09	45.90	0.5	SFI	3.63	128 P	10	18.70	0.0	KNT	1.99	25 iPc	49	36.94	0.0
LOMF	1.34	327	Pn	09	46.68	0.6	WLF	3.63	342 iP	10	31.00	12.3X	VAY	2.05	16 ePn	49	37.60	-0.2
			Sg	10	05.74		ABH	3.66	356 ePn	10	18.50	-0.7	SKO	2.63	354 ePn	49	47.90	1.8
BNI	1.46	216	P	09	48.20	0.5	MAF	3.70	272 Pn	10	20.00	0.3		S.D. = 1.2	on 13 of 13 obs.			
			eSg	10	06.20				Pg	10	31.70		----------					
BHB	1.46	198	P	09	46.44	-1.2	PGF	3.76	167 Pn	10	19.25	-1.5	* SEP 07, 1991 19h 51m 09.73± 2.57s					
			S	10	05.35		TCF	3.94	273 Pn	10	22.80	-0.4	39.299 N ±14.7km 21.762 E ±20.0km					
RRL	1.52	211	P	09	49.32	0.5			Pg	10	36.00		DEPTH = 10.0km (geophysicist)					
SLE	1.59	15	ePc	09	49.50	-0.1	GRF	4.12	32 e(Pg)	10	40.00	14.3X	GREECE					(364)
OSS	1.62	73	ePd	09	50.50	0.4			eSg	11	32.30							
FEL	1.65	3	ePn	09	50.29	-0.2	CAF	4.30	254 Pn	10	28.40	0.2	AGG	0.52	122 ePc	51	20.18	-0.1
MOF	1.70	342	Pn	09	51.44	0.1	LSF	4.42	273 Pn	10	29.60	-0.3			eS	51	29.86	
			Sg	10	16.70				Pg	10	44.60		LIT	0.98	35 ePd	51	27.30	-1.0
PCP	1.75	165	P	09	52.19	0.3	KHC	4.81	51 Pn	10	34.90	-0.6			eS	51	42.98	
			S	10	14.72				Pg	10	54.00		FNA	1.51	349 ePc	51	36.06	-0.9
BSF	1.77	335	Pg	09	55.54	3.3X			Sn	11	27.80				eS	51	56.58	
DOI	1.79	195	P	09	51.10	-1.4			eSg	11	53.50		PAIG	1.61	66 ePc	51	38.86	0.6
			eSg	10	15.50		MOX	5.07	28 ePg	10	55.00	16.0X	GRG	1.73	16 ePc	51	39.98	0.0
PZZ	1.81	198	P	09	51.78	-1.1			eSg	12	03.00		SOH	1.95	38 iPc	51	43.46	0.2
			S	10	14.23		MFF	5.57	277 Pn	10	46.00	-0.2	OUR	2.00	58 ePd	51	43.38	-0.5
BOB	1.83	143	P	09	55.40	2.4		S.D. = 1.0	on 72 of 77 obs.				KNT	2.05	25 iPd	51	43.90	-0.8
			eSn	10	18.60		----------						VAY	2.11	17 ePn	51	48.00	2.5
CKI	1.82	171	P	09	53.50	0.5	* SEP 07, 1991 18h 56m 47.74± 0.87s							S.D. = 1.2	on 9 of 9 obs.			
			eSn	10	18.00		6.844 S ± 9.6km 129.999 E ±12.1km						----------					
SAL	1.94	108	P	09	56.50	1.9	DEPTH = 33.0km (normal)						& SEP 07, 1991 19h 54m 28.20s					
			eSn	10	20.50		4.1mb (3 obs.)						61.472 N 157.118 W					
STV	2.03	192	P	09	54.54	-1.4	BANDA SEA					(280)	DEPTH = 16.6km					
			S	10	18.44								SOUTHERN ALASKA					(2)
ENR	2.03	190	P	09	54.84	-1.2	AAI	3.61	330 eP	57	43.20	0.4	<AEIC>. ML 3.5 (AEIC).					
			S	10	19.24				eS	58	31.20							
FIN	2.03	174	P	09	56.19	0.2	KUPT	7.13	242 eP	58	39.00	6.6X	SVW	0.81	116 eP	54	42.55	-0.9
ECH	2.05	346	Pn	09	56.12	-0.1	WR2	13.70	162 iPd	00	02.50	0.4			eS	54	53.46	
HAU	2.07	330	Pn	09	56.70	0.2		0.3s	26.20nm			5.5mb X	TTA	1.55	19 eP	54	53.17	-2.1
			Pg	10	01.00				iS	02	32.80				S	55	13.01	
			Sg	10	27.30		OIS	16.51	147 eP	00	39.20	0.7	NCT	2.23	112 eP	55	03.56	-1.6
CDF	2.22	349	Pn	09	57.57	-1.3		0.5s	9.00nm			4.2mb	BGL	2.29	93 eP	55	04.46	-1.4
			Sg	10	32.43				eS	03	33.30		CKL	2.32	95 iP	55	04.90	-1.5
OGA	2.25	72	ePn	10	02.50	3.1X	ASPA	17.14	168 eP	00	46.90	0.4	RDW	2.32	113 eP	55	04.87	-1.6
AUTN	2.26	189	Pn	09	57.97	-1.5		0.5s	7.90nm			4.1mb	RDN	2.33	112 eP	55	04.89	-1.6
TOUF	2.26	192	Pn	10	01.54	2.0			eS	03	55.10		DFR	2.33	110 eP	55	04.08	-2.4
IMI	2.32	180	P	10	00.59	0.4	PMG	17.17	100 eP	00	46.00	-0.9	RS2	2.36	114 eP	55	05.27	-1.7
AURF	2.38	190	Pn	10	00.46	-0.5	MBL	17.30	214 eP	00	47.50	-1.0	RS1	2.36	114 eP	55	05.25	-1.7
			Sg	10	39.66			0.3s	3.00nm			3.9mb	RSO	2.36	114 eP	55	05.12	-1.8
VITF	2.38	327	Pn	10	01.32	0.4			eS	03	52.00		REF	2.37	113 eP	55	05.68	-1.4
			Sg	10	38.11			S.D. = 0.9	on 6 of 7 obs.				RED	2.37	115 eP	55	05.18	-1.8
SBF	2.39	188	Pn	10	01.00	-0.2	----------								S	55	33.25	
			Sn	10	30.00		? SEP 07, 1991 19h 44m 33.59± 4.67s						NCG	2.38	89 eP	55	05.84	-1.4
MVIF	2.39	193	Pn	10	00.98	-0.3	46.754 N ±11.4km 4.580 E ±31.7km						SPU	2.46	95 iP	55	06.71	-1.5
SSB	2.53	249	Pn	10	03.26	0.1	DEPTH = 10.0km (geophysicist)						RDT	2.46	109 eP	55	06.42	-1.9
CALN	2.58	196	Pn	10	05.55	1.6	FRANCE					(538)			eS	55	36.84	
CTI	2.62	93	P	10	04.80	0.4	ML 2.2 (LDG).						CGLM	2.47	92 eP	55	07.18	-1.2
			eSn	10	37.50								OPT	2.65	132 eP	55	09.98	-1.0
GWF	2.76	356	Pn	10	05.05	-1.3	LBF	0.47	299 Pg	44	43.70	0.5	MCNL	2.68	148 iP	55	09.89	-1.5
WTTA	2.77	67	iPgd	10	08.50	1.8			Sg	44	56.40		SKT	2.71	77 eP	55	10.18	-1.6
			iSg	10	51.00		SMF	0.52	258 Pg	44	44.00	-0.1	SUA	3.06	87 eP	55	16.12	-0.7
LBF	2.80	287	Pn	10	07.20	0.1			Sg	44	57.10		CDD	3.08	144 eP	55	16.26	-0.8
			Pg	10	14.80		LOR	0.71	316 Pg	44	47.20	-0.5	NNL	3.20	114 eP	55	17.51	-1.2
			Sg	10	50.40				Sg	45	02.00		CUT	3.37	71 eP	55	19.49	-1.6
FRF	2.81	199	Pn	10	08.10	1.0	SSF	0.80	293 Pg	44	49.20	0.1	PWA	3.47	84 eP	55	21.15	-1.3
SMF	2.83	280	Pn	10	08.20	0.8			Sg	45	05.90		SLKM	3.50	103 eP	55	21.35	-1.6
			Pg	10	15.00		AVF	0.84	273 Pg	44	50.20	0.3	CNPM	3.50	121 eP	55	22.20	-0.9
			Sg	10	52.00				Sg	45	07.60		KTH	3.55	51 eP	55	22.70	-1.1
LOR	2.96	292	Pn	10	10.00	0.8	BGF	1.21	261 Pg	44	55.20	-0.9	PMS	3.65	90 eP	55	24.12	-1.0
			Pg	10	17.80				Sg	45	17.00		GHO	3.92	82 eP	55	28.73	-0.3
			Sg	10	55.00		MAF	1.49	250 Pg	45	01.00	0.6	KNK	4.16	87 eP	55	30.16	-2.2
CDR	2.97	211	eP	10	09.10	-0.2			Sg	45	24.80		IMA	4.86	17 eP	55	39.46	-2.9
			e	10	11.00			S.D. = 0.7	on 7 of 7 obs.				ANM	4.87	313 eP	55	38.58	-3.9
			e(Sn)	10	47.30		----------						GLI	4.89	93 eP	55	38.68	-4.0
LRG	2.98	202	Pn	10	10.50	1.1	SEP 07, 1991 19h 49m 02.84± 1.05s						TOA	5.23	78 eP	55	45.81	-1.8
PLDF	2.98	267	Pn	10	11.35	1.8	39.352 N ± 8.6km 21 800 E ± 7.9km						CCB	5.30	49 eP	55	44.03	-4.4

```
PAX      5.65  69 eP    55 50.11  -3.5
     37 obs. associated
-------------------------------------------
• SEP 07, 1991  19h 55m 29.31± 1.72s
  34.434 N ±14.6km   23.702 E ± 5.7km
  DEPTH =  39.2 ± 14.5  km
  4.3mb (  9 obs.)
 CRETE                            (370)
     MD 3.9 (ATH).

NPS      1.78  62 ePb   56 00.80   2.7
VLI      2.36 345 ePn   56 10.60   4.1X
VLS      4.50 327 ePn   56 37.90   1.0
YER      4.60  53 iP    56 39.00   0.7
AGG      4.71 347 ePc   56 40.70   0.9
PAIG     5.48 360 ePc   56 49.18  -1.5
ELL      5.56  64 iPn   56 52.50   0.6
LIT      5.74 351 ePd   56 52.94  -1.3
OUR      5.89   2 ePd   56 55.38  -1.1
KHL      6.09  49 ePn   56 59.00  -0.4
SOH      6.38 358 ePc   57 04.98   1.6
FNA      6.60 344 ePd   57 05.54  -0.9
SRS      6.67 359 ePc   57 06.58  -0.8
KNT      6.75 355 ePd   57 08.22  -0.2
VAY      6.93 353 ePn   57 10.30  -0.7
SOI      7.16 303 P     57 14.50   0.2
                  eSn   58 26.00
LCI      7.46 324 P     57 16.00  -2.3
                  eSn   58 32.60
MEU      7.61 293 P     57 20.20  -0.4
                  eSn   58 38.80
ATN      7.62 302 P     57 21.40   0.7
                  eSn   58 38.10
ROI      7.67 314 P     57 20.60  -0.8
CZI      7.72 310 P     57 21.90  -0.1
TDS      7.86 314 P     57 24.00  -0.1
                  eSn   58 41.80
CSS      7.95  83 eP    57 21.00  -4.3X
BRT      8.24 323 P     57 28.20  -1.1
                  eSn   58 52.00
MGR      8.63 314 P     57 33.70  -1.0
                  eSn   58 59.50
SGO      9.04 315 P     57 40.70   0.4
KHC     16.49 336 iPd   59 23.00   3.8X
        1.0s     6.10nm          3.7mb
                  e     59 46.00
PRU     16.94 339 eP    59 27.00   2.2
GRF     17.80 333 eP    59 38.10   2.5
        0.7s     8.00nm          4.0mb
CLL     18.57 339 e(P)  59 45.00   0.1
WLF     19.96 325 P     00 05.00   4.2X
LDF     22.64 316 eP    00 29.70   1.7
        0.4s     2.85nm          4.1mb
LPF     22.91 314 eP    00 33.70   3.1X
        0.4s     2.30nm          4.0mb
FLN     22.94 316 eP    00 33.30   2.5
        0.4s     2.30nm          4.0mb
HFS     26.53 349 eP    01 03.50  -1.4
        0.6s     8.30nm          4.5mb
     Z  17s     0.03um         2.9MszX
                 LR     12 05.00
GKN     51.83  79 P     04 35.58  -0.4
        0.6s    17.00nm          5.2mb
DMN     52.37  80 P     04 39.94  -0.2
KKN     52.44  79 P     04 39.98  -0.7
        0.6s    20.00nm          5.3mb
PKI     52.63  80 P     04 41.50  -0.7
        0.8s    13.00nm          5.0mb
GUN     52.88  79 P     04 42.02  -2.0
    S.D. = 1.3  on  35 of  40 obs.
-------------------------------------------
• SEP 07, 1991  20h 20m 37.36± 0.90s
  53.302 N ±15.3km  163.410 W ± 9.4km
  DEPTH =  33.0km  (normal)
  4 6mb ( 12 obs.)
 UNIMAK ISLAND REGION             ( 10)

SDN      2.66  39 iPd   21 22.10   3.3
KDC      7.63  50 eP    22 28.60  -0.3
ADK      8.21 265 eP    22 34.60  -2.4
SVW      8.89  25 eP    22 47.10   0.6
CNPM     9.18  42 eP    22 50.66   0.2
RDW      9.23  35 eP    22 52.65   1.3
RS1      9.24  35 eP    22 52.85   1.5
RS2      9.24  35 eP    22 52.83   1.4
RSO      9.24  35 eP    22 52.11   0 7
NCT      9.25  34 eP    22 52.33   0.8
RDN      9.27  35 eP    22 51.78  -0.1
REF      9.28  35 eP    22 52.73   0.8
DFR      9.36  34 eP    22 53.29   0.3
RDT      9.44  35 eP    22 54.78   0.7
CKL      9.92  33 eP    23 01.39   0.7
BGL      9.95  32 eP    23 02.12   1.0
SPU     10.00  33 eP    23 01.78   0.0
CGLM    10.11  33 eP    23 03.31   0.0
NCG     10.13  32 eP    23 04.29   0.7
SLKM    10.19  40 eP    23 04.30  -0.1
SEW     10.25  43 eP    23 04.10  -1.0
TTA     10.41  19 eP    23 07.30  -0.1
SUA     10.64  35 eP    23 09.54  -1.1
SKT     10.76  31 eP    23 12.97   0.8
LTI     10.88  45 eP    23 11.92  -1.8
PMS     10.91  38 eP    23 12.70  -1.5
KNIM    11.10  44 eP    23 14.91  -1.8
FID     11.84  44 eP    23 24.45  -2.2
VZW     11.97  43 eP    23 26.84  -1.7
VLZ     12.10  43 eP    23 28.33  -1.8
KLU     12.46  42 eP    23 33.34  -1.8
TOA     12.72  39 eP    23 37.70  -0.8
        0.5s    23.40nm          5.5mb
TGL     13.42  48 eP    23 47.63  -0.2
FBA     14.07  28 eP    23 54.80  -1.4
        0.5s     3.70nm          4.3mb
INK     20.61  32 eP    25 14.30  -1.5
YKA     26.88  51 eP    26 20.10   3.6X
        0.7s     6.10nm          4.3mb
PNT     27.34  80 eP    26 31.00  10.1X
MBC     28.37  20 eP    26 30.00   0.1
        0.5s     4.00nm          4.4mb
MAT     43.32 272 eP    28 39.00   1.4
        0.8s     7.46nm          4.5mb
ALO     43.54  91 eP    28 41.00   1.4
        1.0s     2.50nm          3.9mb
                  ePcP  30 31.00
FRB     46.07  38 eP    29 01.00   1.8
CN2     46.20 288 eP    29 00.80   0.3
                  pP    29 04.80  13kmX
HHC     55.90 294 eP    30 13.60  -0.5
BTO     56.92 295 eP    30 21.00  -0.5
SOD     59.41 356 eP    30 51.00  12.6X
GTA     63.20 300 eP    31 03.00  -1.4
        0.8s    10.00nm          5.0mb
KAF     64.67 355 iP    31 12.90  -0.7
        0.4s     3.20nm          4.8mb
WMQ     65.72 311 eP    31 20.10  -0.6
NB2     65.93   3 P     31 18.50  -3.2X
        1.3s     8.10nm          4.7mb
NUR     66.36 356 iP    31 23.90  -0.4
HFS     66.89   2 eP    31 26.50  -1.3
        0.6s     6.40nm          4.9mb
EKA     70.51  12 Pd    31 51.10   0.9
        1.0s     5.00nm          4.5mb
MOX     76.34   3 iP    32 25.50   1.2
        1.6s    20.00nm          4.9mb
KHC     77.91   2 eP    32 34.50   1.5
GUN     79.36 303 P     32 43.20   1.4
KKN     79.76 303 P     32 44.80   1.1
PKI     79.88 303 P     32 44 60   0.1
GKN     79.91 304 P     32 44.20  -0.3
DMN     80.00 303 P     32 46 00   0.9
CDR     82.95   8 eP    33 09.20   9.3X
                  e     33 20.10
SKO     85.01 356 eP    33 07.00  -3.3X
BUL    145.63 340 iPKPd 40 23.20   9.3X
SLR    151.11 338 iPKPc 40 29.00   6.7X
     S.D. = 1.2  on  55 of  63 obs
-------------------------------------------
   SEP 07, 1991  20h 23m 17.67± 0 50s
  39.359 N ± 3.8km   21.732 E ± 5 8km
  DEPTH =  11.2 ±  2.7 km
 GREECE                           (364)
     MD 3.3 (ATH).

AGG      0.57 126 ePd   23 28.80  -0.4
                  eS    23 37.56
LIT      0.94  38 ePc   23 35.60   0.0
                  eS    23 48.44
KZN      0.95   2 ePg   23 35.10  -0.5
FNA      1.45 349 ePc   23 44.48   0.7
                  eS    24 05 16
VLS      1.48 217 ePb   23 43 60  -0.6
KEK      1.54 284 ePn   23 48.00   3.0X
THE      1.59  36 iPc   23 46.48   0.8
                  eS    24 07.12
PAIG     1.61  69 ePc   23 45.72  -0.3
                  eS    24 05.84
GRG      1.68  18 ePc   23 47.04   0.0
OHR      1.89 338 ePn   23 50.00  -0.2
                  iSn   24 16.00
SOH      1.92  40 iPd   23 51.12   0.5
                  eS    24 15.80
OUR      1.99  60 iPc   23 51.76   0.2
KNT      2.01  26 ePc   23 52.34   0.5
                  eS    24 17.68
VAY      2.06  18 ePn   23 53.00   0.4
SRS      2.26  38 ePd   23 56.48   1.0
SKO      2.62 355 ePn   24 01.00   0.4
                  iPg   24 06.50
                  iSn   24 31.20
MMB      2.70  34 iPc   24 02.00   0.2
KKB      2.71  22 iP    24 02.00   0.1
VLI      2.80 160 ePn   24 04.60   1.4
RZN      3.25  43 eP    24 09.00  -0.8
RDO      3.42  57 ePn   24 15.50   3.6X
KDZ      3.62  50 eP    24 19.00   4.1X
     S.D. = 0.6  on  19 of  22 obs.
-------------------------------------------
% SEP 07, 1991  20h 24m 10.25± 2.73s
  44.172 N ±13.1km    8.546 E ±18.8km
  DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                   (545)
     ML 2.3 (GEN).

FIN      0.25 279 P     24 15.39  -0.1
                  S     24 19.60
PCP      0.37 360 P     24 17.85   0.0
                  S     24 24.11
IMI      0.54 241 P     24 21.03  -0.2
                  S     24 27.80
ENR      0.81 274 P     24 25.54  -0.5
                  S     24 36.93
SBF      0.86 249 Pg    24 27.00   0.2
                  Sg    24 39.20
STV      0.88 275 P     24 28.01   0.8
                  S     24 39.28
PZZ      1.09 288 P     24 30.67  -0.1
                  S     24 45.85
     S.D. = 0.5  on   7 of   7 obs.
-------------------------------------------
• SEP 07, 1991  20h 36m 58.98± 2.26s
  39.307 N ±12.9km   21.757 E ±18.3km
  DEPTH =  10.0km  (geophysicist)
 GREECE                           (364)
     MD 2.5 (THE).

AGG      0.53 122 ePc   37 09.64  -0.1
                  eS    37 18.12
LIT      0.97  35 ePc   37 16.56  -0.9
                  eS    37 31.04
FNA      1.50 349 ePc   37 25.40  -0.6
                  iS    37 46.32
PAIG     1.61  67 ePc   37 27.56   0.1
SOH      1.95  39 iPc   37 32.24  -0.2
KNT      2.05  25 ePc   37 34.88   1.0
VAY      2.11  17 ePn   37 35.40   0.7
     S.D. = 0.8  on   7 of   7 obs.
-------------------------------------------
   SEP 07, 1991  22h 07m 36.76± 1.63s
  21.139 S ± 6.5km  174.295 W ± 8.3km
  DEPTH =  58.8 ± 13.6 km
  5.2mb ( 19 obs.)  4.9Msz (  2 obs.)
 TONGA ISLANDS                    (173)

SVA      7.46 293 ePc   09 26.10   0.7
VUN      7.50 293 ePd   09 27.20   1.2
AFI      7.58  19 eP    09 10.00 -17.2X
                  eS    10 36.00
                  e     16 36.00
SGE      8.15 294 ePc   09 35.20   0.2
DZM     17.94 264 iPc   11 44.90   1.1
URZ     18.61 202 eP    11 51.60  -0.1
MOZ     19.70 206 eP    12 04.90   1.0
THZ     23.23 205 eP    12 38.10  -1.4
KHZ     23.55 203 eP    12 41.20  -1.3
PPN     23.73  86 iP    12 43.00  -1.4
        0.8s    15.00nm          4.5mb
TVO     23.84  86 iP    12 44.20  -1.4
        0.8s    40.00nm          5.0mb
LTZ     24.34 205 eP    12 49.90  -0.4
WVZ     25.20 206 eP    12 58.00  -0.4
EWZ     25.52 206 eP    13 02.20   0.9
```

07d 22h

BWZ 26.75 206 eP 13 13.40 0.8
BRS 30.60 252 eP 13 44.00 -3.5X
RMO 34.14 254 eP 14 26.60 8.3X
0.8s 24.00nm 5.2mb
CTAO 36.88 264 iP 14 40.00 -1.6
PMG 38.87 281 eP 14 56.00 -2.3
STK 40.66 245 eP 15 12.10 -0.8
0.6s 3.60nm 4.3mb
ASPA 47.75 257 iPd 16 08.10 -2.0
0.8s 32.10nm 5.4mb
Z 18s 0.80um 4.7Msz
WR2 47.92 262 eP 16 08.90 -2.5
0.9s 15.70nm 5.0mb
i 17 39.50
MBL 61.00 257 iPd 17 44.60 -2.1
0.4s 6.00nm 5.1mb
NANU 64.57 254 iPd 18 09.60 -0.8
CSY 64.88 206 eP 18 13.30 1.6
0.7s 12.70nm 5.0mb
CGP 66.72 290 eP 18 24.00 -0.2
1.0s 37.00nm 5.3mb
SPA 68.99 180 eP 18 40.00 2.1
1.2s 18.31nm 4.9mb
KAKJ 71.45 322 P 18 52.30 -0.6
CHJJ 72.02 322 P 18 55.70 -0.7
IIDJ 72.26 321 P 18 56.40 -1.5
OFUJ 72.71 325 P 18 59.50 -0.8
MAT 72.82 322 eP 19 00.00 -1.1
0.8s 27.61nm 5.2mb
YAMJ 72.93 324 P 19 01.50 -0.2
MTMJ 73.08 321 P 19 01.70 -1.0
KDC 80.67 12 eP 19 44.60 0.2
1.1s 36.40nm 5.2mb
MAW 82.12 199 eP 19 54.00 2.1
MDJ 83.06 323 eP 19 55.00 -2.1
PMS 84.48 12 eP 20 03.60 -0.4
CN2 84.95 321 P 20 06.80 0.1
1.2s 30.00nm 5.3mb
SNY 84.95 318 eP 20 06.80 0.1
TTA 85.02 8 eP 20 07.80 1.1
ALQ 85.13 50 eP 20 08.80 0.7
1.5s 22.22nm 5.0mb
WHN 85.63 305 Pd 20 12.00 1.6
TOA 85.94 13 eP 20 12.40 1.1
TIA 86.28 311 P 20 14.00 0.5
IPM 86.68 276 ePd 20 17.10 1.2
SNG 88.00 278 eP 20 25.50 3.3X
FBA 88.16 11 e(P) 20 22.00 0.1
BJI 88.80 314 eP 20 26.00 0.5
1.9s 130.00nm 5.9mb
GYA 89.99 298 P 20 34.00 2.4
TIY 90.30 311 eP 20 33.00 0.3
SES 90.38 35 eP 20 33.00 0.3
MEO 90.80 53 e(P) 20 35.50 0.5
XAN 91.29 306 P 20 38.50 1.2
1.0s 30.00nm 5.7mb
HHC 92.30 313 eP 20 43.60 1.8
CHG 93.72 289 ePc 20 50.50 1.8
1.0s 18.75nm 5.5mb
CHTO 93.72 289 iPc 20 49.90 1.2
1.0s 16.75nm 5.4mb
LZH 95.92 306 eP 20 59.50 0.8
1.5s 23.00nm 5.5mb
OUE 124.63 293 ePKP 26 33.00 1.1
HFS 140.63 354 ePKP 26 53.20 -7.7X
0.8s 2.80nm
ELO 144.03 9 ePKP 27 04.60 -2.4X
EAB 144.21 10 ePKP 27 04.70 -2.5X
EBH 144.27 9 ePKP 27 05.30 -2.1X
0.8s 53.00nm
EAU 144.67 9 ePKP 27 06.70 -1.3
0.7s 64.00nm
ESY 144.72 8 ePKP 27 06.30 -1.8
0.8s 33.00nm
EBL 144.80 9 ePKP 27 07.10 -1.2
0.7s 33.00nm
EKA 145.21 9 PKPd 27 08.70 -0.3
0.8s 19.10nm
DCN 146.34 14 ePKP 27 12.40 1.5
ETA 147.18 13 ePKP 27 15.00 2.7X
ECP 147.63 14 ePKP 27 12.00 -1.0
WIT 148.37 359 ePKP 27 19.00 4.9X
KAS 148.88 317 ePKP 27 21.00 5.5X
KRA 149.02 342 ePKP 27 19.80 4.5X
WTS 149.19 359 ePKP 27 21.00 5.6X
0.9s 26.00nm
KSP 149.21 347 iPKPc 27 21.00 5.4X
0.8s 37.00nm
CLL 149.35 351 iPKPc 27 20.90 5.1X
1.1s 43.00nm
BRG 149.63 350 iPKPc 27 21.70 5.5X
1.2s 36.00nm
i 27 25.40
SPC 149.70 341 ePKP 27 21.40 4.8X
MOX 150.19 352 iPKPc 27 23.10 6.0X
1.5s 36.00nm
BNS 150.21 358 ePKPc 27 22.80 5.8X
BBTK 150.33 315 ePKP 27 24.00 6.2X
PRU 150.37 348 PKPc 27 23.70 6.4X
0.8s 16.00nm
e 27 27.50
e 27 34.50
ENN 150.43 360 ePKP 27 23.50 6.1X
0.9s 12.00nm
HOF 150.48 352 iPKPc 27 23.30 5.8X
BHL 150.67 302 PKP 27 24.00 5.6X
PSZ 150.94 340 ePKP 27 25.00 6.6X
GRF 151.17 353 iPKPc 27 25.70 7.1X
KHC 151.37 349 ePKP 27 20.00 1.1
1.0s 11.40nm
i 27 26.10
SRO 151.51 342 iPKP 27 26.00 6.9X
WLF 151.53 359 iPKPd 27 27.09 8.1X
VKA 151.62 345 e(PKP) 27 26.00 6.7X
i 27 39.00
FLN 152.00 9 iPKPc 27 26.90 7.1X
0.9s 16.40nm
LDF 152.21 8 iPKPc 27 27.30 7.2X
0.8s 13.45nm
GRR 152.31 9 iPKPc 27 27.50 7.3X
0.6s 11.70nm
BZS 152.31 336 ePKP 27 27.50 7.2X
LPF 152.62 10 iPKPc 27 28.50 7.8X
0.8s 18.80nm
FUR 152.67 352 ePKP 27 28.80 8.0X
0.8s 27.00nm
CDF 152.76 358 ePKP 27 28.90 7.9X
0.8s 13.45nm
HAU 153.19 359 ePKP 27 29.80 8.2X
0.8s 10.75nm
BSF 153.36 358 ePKP 27 30.10 8.2X
0.8s 5.35nm
LOR 153.89 3 ePKP 27 31.40 8.9X
1.0s 8.00nm
Z 20s 0.22um 5.0Msz
SSF 154.08 3 iPKPc 27 32.00 9.2X
0.8s 6.70nm
LBF 154.18 3 iPKPc 27 32.00 9.0X
0.8s 5.35nm
AVF 154.34 4 ePKP 27 32.20 9.1X
0.8s 4.05nm
SMF 154.51 3 ePKP 27 32.70 9.3X
1.0s 6.00nm
BGF 154.54 5 ePKP 27 32.80 9.4X
0.8s 6.70nm
LSF 154.72 7 ePKP 27 32.80 9.2X
1.0s 8.00nm
TCF 154.75 6 ePKP 27 32.90 9.2X
1.0s 5.00nm
MAF 154.85 5 ePKP 27 33.50 9.7X
0.7s 4.40nm
LIT 156.29 327 ePKPc 27 37.32 11.3X
S.D. = 1.3 on 62 of 110 obs.

? SEP 07, 1991 22h 07m 55.05± 5.04s
36.726 N ±48.5km 5.287 E ±35.6km
DEPTH = 10.0km (geophysicist)
NORTHERN ALGERIA (396)

ABA 1.81 273 iPn 08 26.50 0.0
iSn 08 47.50
PGF 6.48 25 Pn 09 33.00 0.1
Sn 10 42.40
LMR 6.67 8 Pn 09 35.00 -0.4
Sn 10 48.00
LRG 6.77 7 Pn 09 37.20 0.4
Sn 10 51.60
FRF 6.91 8 Pn 09 39.00 0.3
Sn 10 54.00
SBF 7.32 12 Pn 09 44.20 -0.3
Sn 11 03.00
EPF 7.36 330 Pn 09 47.00 1.9X
Sn 11 06.20
LPL 8.85 7 Pn 10 07.50 1.4X
S.D. = 0.4 on 6 of 8 obs.

----

* SEP 07, 1991 22h 14m 23.98± 1.61s
39.330 N ±10.7km 21.883 E ±13.0km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 2.9 (THE).

AGG 0.46 131 ePc 14 33.16 -0.3
eS 14 42.00
LIT 0.90 31 iPd 14 40.08 -1.2
iS 14 55.44
FNA 1.50 345 ePc 14 48.96 -2.1
eS 15 09.60
PAIG 1.51 66 ePd 14 51.84 0.8
THE 1.54 32 ePc 14 51.32 -0.2
GRG 1.67 14 ePd 14 53.76 0.3
SOH 1.87 37 ePc 14 55.96 -0.4
OUR 1.90 57 ePc 14 56.80 0.1
OHR 1.96 335 ePn 14 58.80 1.1
KNT 1.99 23 ePd 14 57.48 -0.5
VAY 2.06 15 ePn 15 01.30 2.3
SRS 2.21 36 iPd 15 01.28 0.0
S.D. = 1.2 on 12 of 12 obs.

% SEP 07, 1991 22h 31m 46.73± 1.43s
32.846 S ±10.0km 70.534 W ±16.7km
DEPTH = 33.0km (normal)
CHILE-ARGENTINA BORDER REGION (127)

JACH 0.17 343 iPc 31 53.00 -0.2
iS 32 08.00
PEL 0.32 203 iPc 31 56.80 2.0
iS 32 14.20
ROCH 0.42 253 iPc 31 57.00 0.6
iS 32 15.50
PCH 0.77 179 iP 32 01.40 0.1
iS 32 23.00
TACH 0.87 203 iPc 32 02.70 0.1
iS 32 26.00
LCCH 1.07 234 eP 32 05.00 -0.5
iS 32 28.50
CHCH 1.09 185 iPc 32 05.20 -0.6
iS 32 29.50
LNV 1.33 213 iPc 32 07.50 -1.6
iS 32 34.01
S.D. = 1.2 on 8 of 8 obs.

& SEP 07, 1991 22h 41m 19.40s
60.240 N 150.734 W
DEPTH = 48.3km
KENAI PENINSULA, ALASKA (14)
<AEIC>. ML 2.5 (AEIC).

NNL 0.34 235 eP 41 29.20 0.3
SLKM 0.37 43 iP 41 28.84 -0.3
iS 41 36.27
SEW 0.66 101 iP 41 31.87 -0.7
eS 41 42.00
HOM 0.74 218 eP 41 33.44 -0.3
eS 41 44.49
CNPM 0.76 200 iP 41 33.42 -0.6
iS 41 44.25
RDT 0.90 293 iP 41 35.06 -0.8
S 41 47.64
REF 1.01 285 iP 41 36.76 -0.8
eS 41 50.46
RSO 1.03 283 eP 41 37.16 -0.7
eS 41 51.05
RED 1.03 281 iP 41 36.86 -0.9
iS 41 51.01
RS1 1.03 283 eP 41 37.05 -0.8
S 41 51.60
DFR 1.03 291 iP 41 36.88 -0.9
iS 41 50.87
RS2 1.03 283 eP 41 37.04 -0.9
eS 41 51.29
RDN 1.04 286 iP 41 36.98 -1.1
eS 41 51.01
RDW 1.06 284 eP 41 37.32 -1.0
NCT 1.14 287 eP 41 38.35 -0.9
eS 41 53.64
SPU 1.15 326 eP 41 38.81 -0.6
iS 41 53.57
PMS 1.16 29 eP 41 39.27 -0.3
eS 41 54.67
SUA 1.23 360 eP 41 40.25 -0.3

```
CKL      1.24 321 eP     41 40.30   -0 5
                  iS     41 56.70
BGL      1.31 322 eP     41 41.52   -0.2
NCG      1.36 330 eP     41 42.43    0.0
OPT      1.39 246 eP     41 42.59   -0.2
                  eS     42 00.42
LTI      1.45  97 eP     41 42.27   -1.4
KNIM     1.50  85 eP     41 42.32   -1.9
MTU      1.56  98 eP     41 43.97   -1.2
PLRM     1.57  29 iP     41 44.45   -0.8
KNK      1.62  43 eP     41 45.30   -0.7
AUI      1.64 237 eP     41 46.32    0.1
CDD      1.98 230 eP     41 51.15    0.1
       29 obs. associated
-----------------------------------------
*  SEP 07, 1991  22h 57m 47.46± 0.88s
   36.338 N ± 9.8km   25.449 E ± 9.0km
   DEPTH =  33.0km  (normal)
 DODECANESE ISLANDS                (369)
      ML 3.4 (ATH).

NPS      1.08 173 ePb    58 06.80    0.5
VLI      2.06 281 ePn    58 19.40   -1.0
ATH      2.14 320 ePn    58 22.50    1.0
YER      2.41  70 ePn    58 25.00   -0.5
IZM      2.51  35 ePn    58 27.00    0.1
     S.D. = 1.1  an   5 of   5 obs.
-----------------------------------------
*  SEP 08, 1991  00h 00m 18.12± 1.69s
   29.327 S ± 6.3km   72.838 W ±29.6km
   DEPTH =  33.0km  (normal)
 OFF COAST OF CENTRAL CHILE        (134)

JACH     3.86 151 eP     01 17.00    0.3
ROCH     3.96 157 eP     01 19.20    1 0
                  iS     02 14.50
PEL      4.23 155 P      01 21.50   -0.4
                  i      02 06.50
                  i(S)   02 18.00
LCCH     4.28 166 iP     01 23.00    0.5
SAN      4.51 156 eP     01 26.50    0.5
TACH     4.61 160 eP     01 27.00   -0.3
                  iS     02 32.00
PCH      4.72 156 iPd    01 28.50   -0.4
                  iS     02 23.00
LNV      4.77 166 eP     01 29.00   -0.5
MDZ      4.93 137 e(P)   01 31.70   -0.1
CHCH     4.96 158 iPd    01 31.80   -0.5
ANT      6.00  22 e(P)   01 47.00    0.0
CNCB    13.23  21 P      03 32.00    5.2X
LPB     13.46  20 P      03 26.00   -3.6X
ZOBO    13.70  19 P      03 36.00    3.0X
     S.D. = 0.5  on  11 of  14 obs.
-----------------------------------------
%  SEP 08, 1991  00h 12m 38.32± 1.10s
   39.296 N ± 9.8km   21.764 E ± 8.4km
   DEPTH =  10.0km  (geophysicist)
 GREECE                            (364)
      MD 2.4 (THE).

AGG      0.52 122 ePd    12 48.78    0.0
                  eS     12 58.18
LIT      0.98  35 ePc    12 55.74   -1.2
                  eS     13 10.34
IGT      1.13 282 ePd    12 59.54    0.0
FNA      1.52 349 ePd    13 04.78   -0.8
                  iS     13 25.26
GRG      1.73  16 ePc    13 09.70    1.1
KNT      2.06  25 ePd    13 14.30    1.0
     S.D  = 1.2  on   6 of   6 obs.
-----------------------------------------
   SEP 08, 1991  00h 59m 32.38± 0.19s
   51.905 N ± 5.4km   29.964 W ± 2.5km
   DEPTH =  10.0km  (geophysicist)
   4.8mb ( 51 obs.) 4.5Msz ( 13 obs.)
 NORTHERN MID-ATLANTIC RIDGE       (403)

VAL     12.18  82 iP     02 24.90   -3.7X
                  S      04 31.50
DCN     13.85  75 eP     02 49.20   -1.6
DMU     14.04  73 eP     02 51.00   -2.4
ECP     14.51  80 eP     02 58.20   -1.3
ETA     14.54  78 eP     02 59.00   -0.9
AKU     15.08  19 iP     03 16.50    9.7X
       1.5s   88.89nm          5.0mb
EKA     16.23  67 P      03 21.00   -0.7
       1.2s    18.80nm          4.1mb

PTO     18.15 118 eP     03 47.00    1.1
GRR     18.92  89 eP     03 54.80   -0.5
       0.8s     8.05nm          4.0mb
LPF     18.94  90 eP     03 55.10   -0.5
       1.4s    87.15nm          4.8mb
FLN     19.02  88 eP     03 56.10   -0.4
       1.2s    35.70nm          4.5mb
     Z  16s     0.17um
MFF     20.09  93 eP     04 07.90   -0.7
       1.4s   139.40nm          5.1mb
EPLA    20.28 116 eP     04 11.00    0.2
GDH     20.64 336 ePd    04 05.00   -9.1X
                  i      04 22.00
                  e      08 05.00
GUD     20.98 112 eP     04 18.00   -0.1
BER     21.18  53 eP     04 19.50   -0.2
DOMF    21.25  81 P      04 18.66   -1.9
LSF     21.28  93 eP     04 20.20   -0.8
       1.4s    82.75nm          4.9mb
LFF     21.42  97 eP     04 21.80   -0.5
       1.4s    87.15nm          5.0mb
DBN     21.51  76 eP     04 24.00    0.9
     Z  20s     1.70um          4.4Msz
                  eS     08 22.00
TOL     21.55 114 iPc    04 23.80    0.1
TCF     21.69  92 eP     04 24.60   -0.5
       1.3s    68.60nm          4.9mb
RJF     21.72  95 eP     04 24.70   -0.7
       1.1s    34.20nm          4.7mb
     Z  20s     0.32um          3.7Msz
BTH     21.81 102 iPc    04 28.40    2.2
                  e      04 30.00
                  e      04 35.00
                  e      05 09.00
                  eS     08 34.00
LPO     21.82  97 eP     04 25.70   -0.7
       1.0s    26.00nm          4.6mb
MAF     21.94  92 eP     04 27.20   -0.4
       1.2s    26.80nm          4.5mb
BGF     21.96  91 eP     04 27.40   -0.4
       0.9s    44.20nm          4.9mb
SCH     22.00 292 ePc    04 26.80   -1.3
       1.0s    51.00nm          4.9mb
ETOR    22.08 109 eP     04 29.00   -0.1
SSF     22.15  89 eP     04 29.30   -0.4
       1.2s    41.65nm          4.8mb
AVF     22.17  90 eP     04 29.30   -0.6
       1.0s    32.00nm          4.7mb
EPF     22.19 102 eP     04 31.10    1.0
       1.4s    30.50nm          4.6mb
WIT     22.24  73 eP     04 32.00    1.6
CAF     22.24  96 eP     04 30.00   -0.6
       1.4s    32.65nm          4.6mb
LOR     22.28  89 eP     04 30.60   -0.4
       1.4s    91.50nm          5.0mb
     Z  18s     0.25um          3.7Msz
ENN     22.31  79 eP     04 29.50   -1.7
       1.1s    53.00nm          4.9mb
MEM     22.41  79 iPc    04 31.29   -0.9
LBF     22.48  89 eP     04 32.50   -0.4
       1.0s    24.00nm          4.6mb
WTS     22.52  75 eP     04 33.00   -0.2
       0.9s    29.00nm          4.8mb
SMF     22.54  90 eP     04 33.00   -0.5
       1.1s    24.40nm          4.6mb
WLF     22.80  81 iPc    04 27.92   -8.1X
                  id     04 36.20
BNS     23.02  78 iPc    04 43.40    5.3X
       0.8s    20.00nm          4.7mb
     Z  14s     1.40um          4.6MszX
VITF    23.22  85 P      04 40.48    0.3
EJIF    23.23 122 eP     04 44.00    3.6X
EVIA    23.27 114 eP     04 43.00    2.1
FRB     23.30 315 eP     04 45.00    4.3X
ECHE    23.51 110 eP     04 45.00    1.9
HAU     23.53  85 eP     04 43.10   -0.1
       1.2s    29.75nm          4.7mb
EROO    23.54 106 eP     04 44.00    0.7
EBR     23.59 106 eP     04 45.00    1.3
                  e      09 06.00
ECOG    23.64 118 eP     04 46.00    1.5
AFC     23.67 118 eP     04 46.00    1.2
EHUE    23.80 116 eP     04 47.50    1.6
BSF     23.87  85 eP     04 46.80    0.2
       1.2s    32.75nm          4 8mb
CDF     23.94  84 P      04 48.06    0.8
GWF     23.94  82 P      04 48.22    1.1

ECH     23.94  84 P      04 48.22    1.0
MOF     24.07  85 P      04 49.58    1.1
FEL     24.60  84 P      04 53.93    0.2
LPL     24.84  90 eP     04 56.40    0.2
       1.0s     6.00nm          4.2mb
LPG     24.87  90 eP     04 56.80    0.3
       0.8s     4.05nm          4.2mb
HFS     25.32  54 eP     05 00.20   -0.1
       0.8s    10.80nm          4.6mb
     Z  17s     0.71um          4.3MszX
                  LR     11 33.00
MOX     25.79  76 iP     05 04.70   -0.1
       1.8s    40.00nm          4.8mb
     Z  18s     1.20um          4.5Msz
                  S      09 47.00
GRF     25.88  78 iPc    05 05.80    0.1
       1.6s    37.00nm          4.8mb
     Z  22s     1.40um          4.4Msz
CLL     26.41  74 iPc    05 10.20   -0.3
       1.3s    26.00nm          4.8mb
     Z  17s     1.00um          4.4MszX
                  e      06 15.00
BRG     27.11  75 iPc    05 16.60   -0.4
       1.4s    25.00nm          4.7mb
UPP     27.31  54 iP     05 17.70   -0.9
KHC     27.52  78 P      05 20.50   -0.2
       1.3s     7.20nm          4.3mb
     Z  22s     1.70um          4.6Msz
     N  12s     0.30um
     E  20s     1.00um
PRU     27.78  76 eP     05 22.50   -0.5
     Z  17s     0.50um          4.2MszX
     N  16s     0.40um
     E  16s     0.90um
KSP     28.52  74 eP     05 27.00   -2.7
ZST     30.03  78 eP     05 41.80   -1.5
NUR     30.72  52 iP     05 48.30   -0.9
SRO     30.93  78 eP     05 49.80   -1.4
SOD     31.15  39 iP     05 52.00   -0.9
KAF     31.29  49 eP     05 53.30   -0.9
       0.7s    17.80nm          5.1mb
SPC     31.51  75 eP     05 56.30   -0.2
BZS     33.97  80 ePc    06 16.00   -1.7
SKO     35.79  85 eP     06 32.00   -1.4
     Z  15s     2.12um          5.0MszX
     N  15s     1.14um
     E  15s     1.22um
                  e      12 05.00
                  eSSS   14 50.00
CVL     36.34 267 P      06 39.00    0.9
OBN     38.37  58 eP     06 55.00    0.1
     Z  18s     0.80um          4.6Msz
                  e      07 01.00
                  eS     12 52.00
MBC     40.21 338 eP     07 11.00    1.1
       1.4s    34.00nm          4.8mb
JSC     40.46 265 P      07 13.10    0.6
GBTN    41.37 269 P      07 19.40   -0.6
FVM     43.75 276 P      07 38.70   -0.6
YKA     43.77 318 eP     07 39.10   -0.1
       1.3s    25.80nm          4.9mb
POW     45.38 275 P      07 53.00    0.5
INK     47.57 331 ePd    08 09.00   -0.3
SES     48.35 302 eP     08 16.00    0.3
TUL     48.37 278 iPc    08 13.90   -2.1
       0.6s    11.10nm          5.1mb
     Z  18s     1.14um          4.9Msz
     N  18s     0.68um
     E  18s     0.61um
                  eS     15 16.00
                  LR     22 33.00
TIC     49.59 147 P      08 25.90    0.3
ACO     49.91 281 iPd    08 27.10   -0.8
KIC     49.95 146 P      08 30.20    1.9
LIC     49.98 147 P      08 28.00   -0.6
     Z  20s     0.55um          4.6Msz
MEO     50.83 279 iPd    08 33.60   -1.3
GLD     51.58 288 P      08 40.80    0.1
       1.3s    25.86nm          5.0mb
GOL     51.70 288 P      08 40.60   -1.2
       1.2s    11.27nm          4.7mb
BW06    52.15 293 P      08 43.70   -1.4
       1.6s    27.41nm          4.9mb
IMW     52.22 295 P      08 46.30    0.6
NEW     52.80 303 P      08 48.60   -1.1
       1.4s    23.10nm          4.9mb
PNT     53.42 305 eP     08 56.00    1.8
```

08d 01h

	0.6s	4.00nm		4.6mb			
FBA	54.08	332 P	08	59.20	0.4		
	1.2s	22.73nm		5.1mb			
ANMO	55.50	284 P	09	09.70	-0.1		
	1.5s	173.61nm		5.9mb	X		
ALQ	55.50	284 eP	09	09.10	-0.7		
	1.3s	29.81nm		5.2mb			
	Z 18s	1.48um		5.1Msz			
KLU	56.04	329 P	09	13.00	-0.2		
MSU	56.45	291 P	09	15.70	-1.0		
PMR	56.98	330 eP	09	20.10	0.3		
	1.5s	56.70nm		5.4mb			
KVN	59.46	295 P	09	37.00	-0.7		
TNP	59.63	294 P	09	40.70	1.7		
HOBC	60.86	235 ePd	09	45.53	-1.9		
GSC	61.35	291 eP	09	50.00	-0.5		
CLMC	61.48	236 ePd	09	50.50	-1.2		
GLA	61.79	288 P	09	53.20	-0.3		
HOOC	61.87	235 eP	09	52.99	-1.5		
ANCC	61.95	236 eP	09	52.95	-1.8		
ISA	62.05	293 eP	09	55.00	-0.3		
SBB	62.37	292 eP	10	00.00	2.6		
SILC	62.38	235 eP	09	57.45	-0.6		
PURC	62.71	235 ePd	10	00.12	-0.2		
PLM	62.77	290 eP	10	03.00	2.8		
CUMC	64.64	235 eP	10	12.35	-0.7		
YAK	65.28	10 eP	10	16.60	0.7		
IRK	69.30	28 eP	10	42.00	0.6		
WMO	70.52	43 eP	10	45.00	-4.1X		
ZOBO	75.56	218 P	11	19.20	-0.3		
	1.2s	16.22nm		5.0mb			
	Z 22s	0.16um		4.3Msz			
		LR	35	28.00			
LPB	75.79	218 P	11	20.00	-0.6		
CCH	75.85	216 P	11	20.80	0.0		
CNCB	76.00	217 P	11	21.60	-0.3		
GTA	79.09	37 Pc	11	39.50	1.2		
	1.2s	20.00nm		5.0mb			
	Z 20s	0.40um		4.8Msz			
		pP	11	45.00	18kmX		
		i	12	07.00			
BTO	81.52	30 eP	11	53.00	1.8		
HHC	81.75	28 eP	11	55.00	2.6		
GKN	82.04	54 P	11	55.40	1.2		
KKN	82.53	54 P	11	58.22	1.4		
DMN	82.59	54 P	11	57.96	0.7		
GUN	82.73	53 P	11	59.62	1.6		
	0.8s	9.00nm		5.0mb			
LZH	83.52	36 eP	12	02.40	0.7		
	2.0s	35.00nm		5.2mb			
	Z 18s	0.29um		4.7Msz			
	N 12s	0.28um					
		pP	12	09.00	21kmX		
BJI	83.80	25 eP	12	03.00	0.2		
TIY	84.90	29 eP	12	11.00	2.5		
	Z 14s	0.50um		5.1MszX			
XAN	87.15	33 eP	12	20.30	0.6		
TIA	87.65	26 eP	12	24.10	2.1		
CD2	88.10	38 P	12	26.00	1.7		
GBA	89.81	68 Pd	12	32.50	0.0		
	0.9s	6.60nm		4.9mb			
SPA	141.72	180 ePKP	19	04.80	0.3		
	1.0s	10 00nm					
WR2	145.83	27 ePKP	19	13.90	1.1		
	0.7s	6 30nm					
ASPA	149.20	30 ePKPd	19	22.40	4.3X		
	1.7s	9.90nm					
	S.D. = 1.1	on 135 of 144 obs.					

& SEP 08, 1991 02h 47m 06.95s
62.821 N 150.866 W
DEPTH = 95.1km
CENTRAL ALASKA (1)
<AEIC>.

CUT	0.50	146 iPc	47	22.43	0.0		
HUR	0.58	74 iPd	47	23.05	-0.1		
		eS	47	35.23			
TRF	0.68	22 iPd	47	24.01	-0.2		
		eS	47	37.44			
KTH	0.74	358 iPd	47	24.28	-0.3		
SKT	0.90	200 iPc	47	25.73	-0.5		
		iS	47	40.04			
RND	1.09	56 iPd	47	28.15	-0.2		
		iS	47	44.11			
PWA	1.26	158 iP	47	30.50	0.2		
MCK	1.26	43 iPd	47	30.19	-0.2		
SUA	1.36	178 ePc	47	31.90	0.1		
		eS	47	51.98			
GHO	1.39	138 ePc	47	32.27	0.2		
PLRM	1.48	146 ePc	47	32.68	-0.3		
PMR	1.48	146 iPc	47	33.20	0.2		
BWN	1.49	24 iPd	47	33.24	0.0		
NCG	1.55	204 ePc	47	33.19	-0.9		
		eS	47	54.82			
SML	1.56	130 eP	47	33.99	-0.2		
CGLM	1.61	200 eP	47	34.78	-0.1		
PMS	1.70	158 ePd	47	35.70	-0.2		
BGL	1.72	205 eP	47	35.98	-0.3		
SPU	1.74	199 ePd	47	35.71	-0.8		
CKL	1.77	204 eP	47	36.68	-0.3		
KNK	1.81	140 ePc	47	36.84	-0.6		
NEA	1.93	24 iPd	47	38.12	-0.9		
WRH	2.07	36 iPd	47	39.99	-0.8		
NKA	2.09	185 eP	47	43.00	1.9		
CCB	2.28	35 iPd	47	42.67	-0.9		
TOA	2.30	106 eP	47	44.80	0.9		
SLKM	2.34	172 eP	47	44.46	0.0		
TTA	2.36	275 eP	47	43.90	-0.9		
HDA	2.36	46 iPd	47	43.77	-1.0		
RDT	2.37	199 eP	47	44.42	-0.5		
DFR	2.40	202 eP	47	44.56	-0.7		
THY	2.40	73 eP	47	45.71	0.5		
MDM	2.44	27 iPd	47	44.94	-0.9		
NCT	2.47	204 eP	47	45.27	-1.0		
SDG	2.47	94 eP	47	46.06	-0.2		
PAX	2.48	84 ePc	47	46.41	0.1		
RDN	2.49	202 eP	47	45.64	-0.9		
FBA	2.49	32 iPd	47	46.00	-0.4		
REF	2.50	201 ePc	47	46.09	-0.6		
RDW	2.52	202 eP	47	46.47	-0.6		
RS2	2.53	202 eP	47	46.92	-0.3		
RSO	2.53	202 eP	47	46.71	-0.5		
RS1	2.54	202 eP	47	47.44	0.2		
DJE	2.63	60 eP	47	47.74	-0.6		
GLI	2.64	136 ePc	47	47.33	-1.2		
		eS	48	20.01			
TZL	2.65	105 eP	47	48.72	0.1		
GLM	2.66	34 iPd	47	47.94	-0.9		
KLU	2.68	118 iPc	47	47.57	-1.5		
		eS	48	20.22			
VLZ	2.73	126 eP	47	47.90	-1.7		
SEW	2.81	165 eP	47	50.06	-0.7		
SVW	2.83	235 iPd	47	50.40	-0.7		
KNIM	2.90	148 ePc	47	49.51	-2.5		
		eS	48	23.17			
LTI	3.14	151 eP	47	53.18	-2.1		
MTU	3.24	150 eP	47	54.80	-1.8		
CNPM	3.31	183 ePd	47	57.22	-0.5		
OPT	3.38	201 eP	48	00.11	1.5		
IMA	3.48	341 eP	47	59.39	-0.7		
GLB	3.59	110 eP	47	59.96	-1.6		
FYU	4.47	30 eP	48	12.89	-0.7		
KDC	5.15	190 e(P)	48	20.50	-2.5		
	60 obs. associated						

SEP 08, 1991 03h 48m 00.91± 0.68s
39.322 N ± 6.6km 21.778 E ± 4.6km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 3.3 (ATH), 3.0 (THE).

AGG	0.52	125 ePc	48	11.12	-0.4		
		eS	48	18.96			
LIT	0.95	35 ePc	48	18.00	-1.1		
		eS	48	32.20			
KZN	0.98	360 ePb	48	15.90	-3.7X		
		eSb	48	34.90			
IGT	1.14	281 ePc	48	21.28	-1.0		
FNA	1.49	348 ePc	48	26.80	-1.0		
		iS	48	47.84			
KEK	1.58	285 ePn	48	30.10	1.1		
PAIG	1.59	67 ePc	48	29.72	0.6		
THE	1.60	35 ePc	48	29.60	0.4		
GRG	1.70	16 ePd	48	30.64	-0.2		
SOH	1.93	38 ePc	48	34.12	0.1		
OHR	1.94	338 ePn	48	35.00	0.7		
OUR	1.98	59 ePc	48	35.08	0.3		
KNT	2.03	25 ePd	48	35.92	0.4		
VAY	2.09	17 ePn	48	36.30	0.0		
SRS	2.27	37 ePc	48	38.96	-0.1		
SKO	2.66	355 ePn	48	49.00	4.4X		
		e	48	53.00			
	S.D. = 0.7	on 14 of 16 obs.					

SEP 08, 1991 04h 20m 35.05± 0.58s
35.326 N ± 8.2km 53.314 E ± 4.2km
DEPTH = 66.1 ± 6.3 km
4.5mb (11 obs.)
NORTHERN IRAN (348)
Felt in the Semnan area.

TEH	1.63	285 iPd	21	02.00	-0.2		
IR4	1.98	268 iPc	21	07.50	0.5		
IR1	2.15	273 iPc	21	09.20	-0.2		
IR7	2.24	280 iPc	21	10.70	0.0		
IR5	2.24	268 eP	21	10.50	-0.2		
TAB	6.24	298 eP	22	20.00	13.2X		
		e	22	28.00			
SLY	6.38	275 eP	22	48.00	39.4X		
		e	24	11.00			
		e	25	04.00			
BHD	7.67	257 eP	22	14.00	-12.3X		
		eS	24	34.00			
		eSS	24	53.00			
		e	26	23.00			
MSL	8.32	280 ePd	22	32.00	-3.4X		
		eS	25	01.50			
		eSS	25	25.50			
NDI	21.30	101 eP	25	22.00	4.0X		
OBN	22.90	335 eP	25	34.50	0.9		
	1.2s	*******nm			7.7mb X		
MLR	23.08	304 eP	25	41.00	5.3X		
VAY	24.77	293 eP	25	52.70	0.9		
GKN	27.56	97 P	26	17.18	-0.7		
DMN	28.10	97 P	26	23.22	0.3		
	1.0s	38.00nm		5.0mb			
KKN	28.17	96 P	26	23.24	-0.2		
PKI	28.36	97 P	26	25.64	0.3		
GUN	28.61	96 P	26	27.76	0.2		
KAF	31.72	336 eP	26	54.10	-0.3		
CLL	32.91	312 iP	27	05.00	0.2		
	1.0s	10.00nm		4.6mb			
		i	27	08.40			
HFS	35.55	327 eP	27	27.10	-0.3		
	0.7s	5.50nm		4.6mb			
SOD	35.56	343 iP	27	28.20	0.8		
LPG	36.43	301 eP	27	34.50	-0.8		
	0.8s	2.70nm		4.2mb			
LPL	36.44	301 eP	27	34.40	-0.9		
	0.6s	1.80nm		4.2mb			
SMF	38.44	303 eP	27	51.20	-0.6		
	0.8s	6.05nm		4.6mb			
AVF	38.77	303 eP	27	53.90	-0.7		
	0.8s	4.05nm		4.4mb			
MAF	39.33	302 eP	27	59.30	0.0		
	0.8s	4.05nm		4.4mb			
TCF	39.57	302 eP	28	01.00	-0.3		
	1.0s	10.00nm		4.7mb			
EKA	43.07	316 Pd	28	30.00	0.2		
	0.7s	3.00nm		4.2mb			
CHG	43.43	100 ePc	28	33.00	-0.2		
	0.7s	7.88nm		4.6mb			
CHTO	43.43	100 eP	28	32.60	-0.5		
KMI	43.52	90 Pc	28	34.50	0.5		
KIC	60.44	256 Pc	30	40.60	0.4		
TIC	60.49	256 P	30	41.10	0.5		
LIC	60.75	256 Pc	30	42.70	0.4		
	S.D. = 0.5	on 29 of 35 obs.					

? SEP 08, 1991 05h 04m 28.20± 1.02s
44.449 N ± 7.0km 7.326 E ±13.5km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.6 (GEN).

PZZ	0.17	289 P	04	32.22	0.1		
		S	04	34.66			
STV	0.20	180 P	04	32.54	-0.2		
		S	04	35.59			
ENR	0.23	163 P	04	33.40	0.2		
		S	04	36.72			
BHB	0.40	354 P	04	36.27	0.0		
		S	04	42.56			
	S.D. = 0.3	on 4 of 4 obs.					

• SEP 08, 1991 05h 13m 38.63± 0.98s
12.350 N ±10.2km 144.604 E ±21.4km
DEPTH = 33.0km (normal)
4.6mb (5 obs.) 4.1Msz (1 obs.)
SOUTH OF MARIANA ISLANDS (210)

```
GUA      1.22   14 iPc    13 59.20  -0.2
                  eS     14 15.00
PJG      1.26   12 iPc    13 59.10  -0.9
BAG     23.61  283 eP     18 46.80  -1.1
MAT     24.77  348 eP     19 00.00   1.3
        1.2s     18.75nm          4.5mb
OIS     33.07  189 eP     20 22.00   8.4X
        1.1s     14.00nm          4.8mb
WR2     33.64  198 iPc    20 18.10  -0.5
        0.5s      4.00nm          4.6mb
BJI     37.26  323 eP     20 50.00   0.9
        1.5s     25.00nm          4.9mb
     Z  18s      0.30um          4.1Msz
ASPA    37.29  196 eP     20 50.10   0.5
        1.8s      6.50nm          4.2mb
ZOBO   148.07  101 PKP    33 26.00   5.2X
CNCB   148.18  102 PKP    33 30.00   9.0X
     S.D. = 1.1   on   7 of  10 obs.
-------------------------------------
*  SEP  08, 1991  05h 45m 35.05± 0.81s
   12.585 N ± 8.5km  144.649 E ±21.5km
   DEPTH =  33.0km  (normal)
   4.6mb (  5 obs.) 4.5Msz (  1 obs.)
 SOUTH OF MARIANA ISLANDS          (210)

GUA      0.98   15 eP     45 52.50   0.0
                  eS     46 14.40
PJG      1.02   12 iPc    45 52.60  -0.4
MAT     24.55  347 eP     50 54.00   1.0
        1.2s     20.31nm          4.6mb
OIS     33.31  189 eP     52 12.60   0.6
        0.7s      6.00nm          4.6mb
BJI     37.10  323 eP     52 44.00  -0.2
        1.5s     18.00nm          4.7mb
     Z  24s      0.64um          4.3MszX
ASPA    37.53  196 eP     52 47.40  -0.6
        1.8s      7.30nm          4.2mb
LZH     43.49  310 eP     53 37.00  -0.3
        1.8s     25.00nm          4.7mb
     Z  20s      0.59um          4.5Msz
     N  10s      0.29um
                  pP     53 42.50  18kmX
ZOBO   148.07  101 PKP    05 21.00   3.7X
     Z  24s      0.08um          4.4MszX
                  LR     55 14.00
LPB    148.08  101 PKP    05 28.00  10.9X
CNCB   148.18  102 PKP    05 22.00   4.6X
     S.D. = 0.7   on   7 of  10 obs.
-------------------------------------
*  SEP  08, 1991  07h 49m 13.24± 0.63s
   5.226 N ± 7.8km   31.898 E ±14.4km
   DEPTH =  10.0km  (geophysicist)
   4.5mb (  6 obs.)
 SUDAN                             (557)

HOI      3.82  188 eP     50 03.00 -10.6X
                  eS     51 08.50
ENT      5.16  174 eP     50 32.00  -0.6
                  eS     51 58.00
KIL      5.34  201 eP     50 35.00  -0.1
                  eS     52 14.50
AAE      7.79   61 ePn    51 10.00   0.3
NAI      8.11  143 iPnd   51 15.00   1.0
                  Pg     51 33.00
                  iSn    52 21.00
                  Sg     53 01.00
MTD     21.87  181 iPc    54 08.10  -0.2
                  iS     58 46.00
                  iLR    00 33.90
KRI     22.03  186 iPc    54 14.00   4.0X
                  iLR    00 38.80
BUL     25.42  187 iPc    54 46.20   3.3X
                  iLR    02 35.20
KHC     46.43  343 eP     57 43.00   1.1
SMF     47.85  334 eP     57 55.60   2.4X
        1.0s      7.00nm          4.7mb
MAF     48.09  333 eP     57 56.80   1.7
        0.7s      3.30nm          4.5mb
AVF     48.18  334 eP     57 55.70   0.1
        1.0s      4.00nm          4.5mb
TCF     48.31  333 eP     57 58.60   1.9
        0.8s      2.70nm          4.4mb
CLL     48.56  344 e(P)   58 02.00   3.5X
NUR     55.43  356 eP     58 48.00  -1.9
KAF     56.91  357 eP     58 59.70  -0.9
        0.7s      5.60nm          4.7mb
NB2     57.83  348 P      59 04.80  -2.3
        0.9s      2.20nm          4.2mb
     S.D. = 1.4   on   12 of  17 obs.
-------------------------------------
%  SEP  08, 1991  08h 12m 47.51± 1.18s
   61.875 N ±10.2km    5.355 E ± 9.0km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN NORWAY                   (535)
     MD 1.9 (BER).

FRO      0.25  242 iP     12 53.00   0.1
                  iSg    12 56.94
FOO      0.32  208 iP     12 55.29   1.2
                  iSg    13 00.88
HYA      0.82  150 iP     13 04.35   1.1
                  iSg    13 18.37
SUE      0.87  199 iP     13 03.29  -0.9
                  iSg    13 15.19
MOL      1.24   55 eP     13 10.65   0.1
                  iSg    13 28.59
EGD      1.61  182 eP     13 15.15  -0.9
ODD1     2.07  162 eP     13 21.97  -0.7
                  eSg    13 48.25
     S.D. = 1.1   on   7 of   7 obs.
-------------------------------------
?  SEP  08, 1991  08h 18m 04.22± 3.26s
   3.700 N ±14.0km   76.967 W ±32.4km
   DEPTH =  33.0km  (normal)
 COLOMBIA                          (103)
     MD 2.7 (UVC).

ANCC     0.21  151 iPc    18 10.94   0.0
                  eS     18 15.40
HOQC     0.41  125 iPd    18 13.54  -0.1
                  eS     18 20.00
CLMC     0.44   66 ePd    18 13.96  -0.2
BUGC     0.73   75 eP     18 18.55   0.3
HOBC     1.05   52 ePc    18 22.75  -0.1
                  eS     18 36.10
     S.D. = 0.3   on   5 of   5 obs.
-------------------------------------
%  SEP  08, 1991  08h 33m 22.94± 0.88s
   44.941 N ± 6.8km    7.033 E ± 7.2km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                    (545)
     ML 1.8 (GEN).

RRL      0.18  263 P      33 27.23   0.1
                  S      33 29.59
BHB      0.19  121 P      33 27.64   0.4
                  S      33 30.31
RSP      0.26   37 P      33 28.42  -0.1
                  S      33 31.95
PZZ      0.44  174 P      33 32.05   0.1
                  S      33 38.30
STV      0.73  163 P      33 36.74  -0.6
     S.D. = 0.5   on   5 of   5 obs.
-------------------------------------
?  SEP  08, 1991  08h 50m 34.46± 1.56s
   12.830 N ±15.5km  146.592 E ±23.3km
   DEPTH =  25.8km  (  2 depth phases)
   4.5mb (  4 obs.) 4.2Msz (  1 obs.)
 SOUTH OF MARIANA ISLANDS          (210)

GUA      1.78  293 iPc    51 04.70   0.7
                  eS     51 20.80
PJG      1.84  294 eP     51 04.50  -0.4
MAT     24.78  344 (P)    55 56.00   0.4
        1.0s     12.00nm          4.5mb
WR2     34.72  200 iPc    57 23.20  -1.5
        0.6s      3.90nm          4.5mb
                  ipP    57 31.00  27km
ASPA    38.34  199 eP     57 56.80   1.6
        1.2s      4.30nm          4.1mb
LZH     44.80  309 eP     58 47.50  -0.8
        1.8s     35.00nm          5.0mb
     Z  18s      0.29um          4.2Msz
                  pP     58 55.00  25km
ZOBO   146.25  100 PKP    10 32.00  17.1X
CNCB   146.37  101 PKP    10 33.00  18.0X
     S.D. = 1.4   on   6 of   8 obs.
-------------------------------------
*  SEP  08, 1991  09h 32m 42.30± 0.33s
   25.919 N ± 8.8km  141.117 E ± 8.6km
   DEPTH =  55.9km  (  2 depth phases)
   4.9mb ( 24 obs.)
 VOLCANO ISLANDS REGION            (213)

YAK     36.90  351 iP     39 40.60  -6.4X
CHTO    39.51  269 eP     40 11.00   1.6
        0.9s      2.56nm          4.1mb
WR2     46.06  189 iPd    41 03.50   1.1
        0.3s     62.40nm          6.0mb X
                  eS     47 15.30
OIS     46.22  182 eP     41 05.20   1.5
GUN     48.94  285 P      41 27.00   1.6
PKI     49.42  285 P      41 29.28   0.2
KKN     49.49  285 P      41 30.02   0.6
DMN     49.67  285 P      41 31.34   0.4
ASPA    49.79  189 iPc    41 31.20  -0.2
        0.7s      7.90nm          4.9mb
                  eS     48 06.60
GKN     50.00  286 P      41 33.56   0.2
BRS     54.18  167 iP     42 05.30   1.0
KDC     55.92   36 P      42 19.00   2.4
        0.8s     37.93nm          5.5mb
IMA     56.57   26 P      42 23.40   2.1
        0.7s     12.72nm          5.1mb
                  pP     42 38.80  57km
STK     57.48  180 eP     42 27.30  -0.5
        0.6s      5.40nm          4.8mb
FORR    57.81  193 eP     42 28.20  -2.0
PMR     57.94   32 P      42 31.70   0.9
        0.7s     19.62nm          5.3mb
FBA     58.82   28 P      42 37.90   0.9
        0.8s     27.59nm          5.4mb
                  pP     42 52.70  55km
KLU     59.47   32 P      42 43.20   1.6
GBA     60.67  272 Pc     42 47.90  -2.5
        0.5s      1.10nm          4.2mb
INK     64.49   24 ePd    43 15.00   0.0
MBC     67.27   15 ePd    43 32.30  -0.3
        0.7s     15.00nm          5.1mb
YKA     73.63   28 eP     44 10.10  -1.1
        0.7s     11.00nm          4.9mb
PGC     74.40   43 eP     44 16.00   0.1
GMW     75.23   44 P      44 21.80   1.0
BMW     75.35   45 P      44 22.50   0.9
RMW     75.88   44 P      44 24.90   0.3
LON     76.15   45 P      44 26.30   0.2
PNT     76.48   42 ePd    44 28.00   0.2
        0.6s      6.00nm          4.7mb
DPW     77.93   43 P      44 36.00   0.1
KAF     78.11  334 iP     44 33.60  -2.9
        0.3s      2.60nm          4.7mb
LBFM    78.26   50 P      44 38.40   0.4
NEW     78.42   42 P      44 38.30  -0.3
        1.1s     33.18nm          5.2mb
ORV     79.26   51 P      44 44.80   1.5
NUR     79.68  333 eP     44 37.00  -8.0X
ARN     80.17   53 P      44 48.00  -0.2
CMB     80.70   52 P      44 51.00  -0.1
        0.8s      8.67nm          4.7mb
SES     80.94   38 iPd    44 51.50  -0.6
        0.7s     28.00nm          5.3mb
KVN     81.86   51 P      44 57.20  -0.1
LRM     82.38   43 ePd    44 59.50  -0.4
FFC     83.24   31 iPd    45 02.70  -1.1
        0.8s     53.00nm          5.6mb
PTI     83.89   45 P      45 07.90   0.3
HFS     84.12  336 eP     45 03.20  -5.0X
        0.4s      1.10nm          4.2mb
NB2     84.34  338 P      45 05.20  -4.2X
        0.8s      5.10nm          4.6mb
PEC     84.89   55 P      45 13.00   0.4
DUG     84.92   48 P      45 13.00   0.2
        0.7s      8.44nm          5.0mb
PLM     85.36   55 P      45 14.40  -0.8
BW06    85.71   44 P      45 15.30  -1.6
        1.0s      5.00nm          4.6mb
DAU     85.84   47 P      45 17.40  -0.2
MSU     86.19   49 P      45 18.50  -0.8
GLA     87.00   55 P      45 25.00   1.9
RSSD    88.34   41 P      45 27.50  -2.0
        0.7s      4.33nm          4.8mb
GOL     90.03   45 P      45 36.10  -1.6
        0.9s      4.26nm          4.8mb
GLD     90.10   45 P      45 37.60  -0.3
        1.0s      7.50nm          5.0mb
KHC     91.87  329 eP     45 41.50  -4.2X
ANMO    91.97   49 P      45 44.40  -2.2
        1.0s     26.25nm          5.6mb
ALO     91.97   49 eP     45 45.10  -1.5
     S.D. = 1.2   on   51 of  56 obs.
-------------------------------------
```

08d 09h

% SEP 08, 1991 09h 48m 01.76± 2.71s
62.439 N ±22.0km 5.539 E ±18.6km
DEPTH = 10.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 2.4 (BER).

FRO	0.75	205	iPc	48	17.02	0.6
			iSg	48	28.68	
FOO	0.88	196	iP	48	19.41	0.9
			iSg	48	33.26	
MOL	0.94	81	eP	48	19.85	0.2
			eSg	48	34.91	
HYA	1.31	166	iP	48	26.84	0.8
			eSg	48	47.35	
SUE	1.44	195	iP	48	27.74	0.0
			eSg	48	48.36	
ASK	1.97	185	eP	48	35.52	0.0
EGD	2.18	184	eP	48	37.90	-0.6
			eSg	49	12.12	
ODD1	2.59	168	eP	48	43.92	-0.5
KMY	3.24	183	eP	48	51.95	-1.7

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

---

* SEP 08, 1991 09h 49m 12.65± 0.56s
49.608 S ± 8.0km 125.744 E ± 9.5km
DEPTH = 10.0km (geophysicist)
4.6mb (9 obs.)
SOUTH OF AUSTRALIA (437)

TAU	16.33	74	eP	53	03.00	-0.3
RKG	16.35	334	eP	53	02.50	-1.2
BFD	17.37	51	eP	53	19.00	2.4
			eTT	09	07.00	
ADE	17.46	38	ePc	53	18.60	0.9
	0.8s		71.64nm			4.9mb
CSY	18.48	200	eP	53	28.70	-1.3
	0.5s		8.00nm			4.2mb
DRV	18.60	162	P	53	32.00	0.5
			S	57	14.00	
TOO	18.62	57	eP	53	32.30	0.2
	0.9s		35.00nm			4.6mb
			eTT	09	52.00	
MUN	19.01	334	eP	53	37.00	0.3
STK	21.32	40	eP	54	00.00	-1.7
	0.8s		7.00nm			4.1mb
			iS	57	58.50	
CAN	22.20	59	eP	54	10.20	-0.4
CNB	22.41	59	eP	54	16.00	3.3X
	1.1s		29.00nm			4.7mb
BWA	22.55	56	eP	54	12.80	-1.2
CMS	23.55	47	eP	54	24.00	0.2
ASPA	26.67	17	iPd	54	52.10	-1.4
	1.2s		36.70nm			4.9mb
COO	27.37	56	eP	55	08.00	8.1X
WR2	30.38	16	iPd	55	24.90	-2.1
	0.7s		5.20nm			4.5mb
NVL	51.01	203	(P)	58	16.00	-0.1
			e	58	19.00	
			e	58	24.00	
			e	58	46.00	
CHG	72.15	333	eP	00	41.00	1.8
CHTO	72.15	333	eP	00	41.30	2.1
	0.9s		2.56nm			4.3mb
MAT	86.48	10	eP	02	05.00	8.7X
LZH	87.50	342	e(P)	02	02.00	0.5
	2.0s		32.00nm			5.3mb
MBC	143.41	21	ePKP	08	46.50	-0.8
SES	144.25	66	ePKP	08	50.00	0.4
MEO	144.52	98	e(PKP)	08	44.50	-6.0X
YKA	145.29	45	ePKP	08	52.00	1.1
	0.8s		6.80nm			
ACO	145.32	95	iPKPd	08	54.10	2.3X
TUL	147.01	99	ePKP	09	00.20	5.7X
	1.0s		16.30nm			
EKA	148.95	300	PKPc	09	02.80	5.8X
	0.8s		3.20nm			
FFC	150.75	61	ePKP	09	07.00	7.3X
	0.7s		6.00nm			

S.D. = 1.3 on 21 of 29 obs.

---

* SEP 08, 1991 09h 57m 41.46± 1.57s
40.414 N ± 8.7km 20.893 E ±15.6km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)

FNA	0.52	45	P	57	51.80	-0.2
OHR	0.70	354	ePg	57	55.00	-0.3
			iSg	58	07.30	
VAY	1.56	54	ePn	58	09.40	0.1
SKO	1.61	15	eP	58	10.50	0.5
AGG	1.78	141	P	58	12.40	-0.1

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

SEP 08, 1991 10h 14m 50.30± 1.59s
43.622 N ±10.3km 7.804 E ±10.3km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
ML 1.8 (LDG), 1.8 (GEN).

IMI	0.29	12	P	14	56.99	0.5
			S	15	00.47	
SBF	0.36	312	Pg	14	58.50	0.8
			Sg	15	02.60	
FIN	0.66	26	P	15	03.35	0.0
			S	15	11.34	
ENR	0.66	335	P	15	02.94	-0.7
			S	15	10.52	
STV	0.71	331	P	15	03.76	-0.6
			S	15	12.06	
FRF	0.84	266	Pg	15	06.60	0.0
			Sg	15	17.80	
LMR	0.99	253	Pg	15	08.80	-0.2
			Sg	15	20.80	
LRG	1.06	261	Pg	15	10.50	0.2
			Sg	15	24.00	

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

SEP 08, 1991 10h 14m 58.83± 0.78s
36.264 N ± 4.4km 71.324 E ± 2.8km
DEPTH = 132.8 ± 8.0 km
5.0mb (64 obs.)
AFGHANISTAN-TAJIKISTAN BORD REG.(717)
Felt at Kabul, Afghanistan.

KSH	4.87	48	Pg	16	09.50	-1.8
QUE	7.08	212	iPd	16	38.60	-2.8
			eS	17	55.60	
NDI	9.05	145	iPd	17	08.00	0.4
	0.5s		161.97nm			6.0mb
			eS	18	42.00	
GKN	13.96	122	P	18	07.16	-4.9X
DMN	14.53	123	P	18	14.56	-4.9X
KKN	14.53	122	P	18	14.54	-4.9X
WMQ	14.62	54	P	18	15.20	-5.2X
PKI	14.76	122	P	18	17.46	-4.9X
GUN	14.87	120	P	18	19.04	-4.8X
IR4	16.61	272	ePc	18	46.20	0.9
IR1	16.76	273	ePc	18	48.00	0.9
IR7	16.78	274	ePc	18	48.50	1.2
IR5	16.88	273	eP	18	48.70	0.2
SHI	17.09	253	eP	18	50.00	-1.2
POO	17.80	172	iPd	19	04.50	4.7X
			iS	22	27.00	
LSA	17.86	106	iPd	18	59.00	-1.8
HYB	19.84	159	eP	19	21.00	-0.4
	1.0s		80.00nm			5.1mb
			e	19	59.00	
			eS	22	51.00	
TAB	19.99	283	eP	19	25.00	2.0
SLY	20.91	276	eP	19	34.00	1.9
			e	19	57.00	
BHD	22.30	270	ePd	19	47.50	1.6
			eS	23	46.00	
MSL	22.67	279	eP	19	50.00	0.6
GTA	22.68	73	eP	19	50.00	0.4
	0.8s		30.00nm			4.7mb
LZH	26.19	81	eP	20	23.50	0.7
	2.0s		53.00nm			4.8mb
	Z 25s		0.32um			3.8MszX
			sP	20	41.00	
KOD	26.51	166	eP	20	27.20	1.2
			ePP	20	52.10	
CD2	27.46	92	eP	20	34.40	0.1
	1.0s		30.00nm			4.9mb
CHG	29.88	118	eP	20	57.00	1.1
			e	21	21.00	
CHTO	29.88	118	eP	20	56.70	0.8
OBN	30.27	319	iPc	20	58.80	-0.1
	1.0s		102.00nm			5.5mb
			e	21	41.50	
			e	24	30.50	
BTO	30.45	70	P	21	01.30	0.4
XAN	30.70	83	P	21	02.40	-0.6
GYA	31.57	98	P	21	11.00	0.2
	1.0s		8.00nm			4.4mb
HHC	31.60	69	P	21	11.40	0.5
LOE	32.79	117	eP	21	21.50	0.1
NST	32.83	121	eP	21	23.80	2.1
ELL	33.11	283	iP	21	23.50	-0.6
KHL	33.12	286	eP	21	23.00	-1.1
CFR	33.57	299	eP	21	28.00	0.2
VRI	34.57	300	ePd	21	34.00	-2.4
MLR	35.13	300	iPd	21	44.00	2.7
BJI	35.19	70	eP	21	42.00	0.3
	0.8s		9.00nm			4.6mb
WHN	36.15	86	ePc	21	51.20	1.4
	0.6s		20.00nm			5.1mb
TIA	36.67	76	P	21	54.90	0.7
BMR	36.80	303	ePd	21	53.00	-2.1
KAF	37.97	327	iP	22	04.40	-0.3
	0.2s		3.80nm			4.8mb
BZS	38.16	300	ePc	22	07.50	1.0
NUR	38.17	324	iP	22	06.20	-0.3
	0.7s		76.10nm			5.6mb
SKO	38.68	294	eP	22	10.00	-0.9
SPC	38.96	306	eP	22	14.50	1.0
			e	22	40.50	
			i	22	51.80	
KRA	39.16	307	eP	22	15.50	0.7
	0.7s		56.00nm			5.4mb
PSZ	39.22	304	iP	22	16.90	1.4
NJ2	39.25	82	Pd	22	16.50	0.7
BUD	39.83	303	eP	22	22.00	1.7
SOD	40.06	335	iP	22	21.00	-1.0
UZD	40.19	302	e(P)	22	25.00	1.7
SRO	40.29	304	eP	22	24.50	0.4
			i	24	36.60	
SNY	40.44	66	Pd	22	25.20	-0.2
	0.8s		9.00nm			4.6mb
ZST	41.08	304	iP	22	31.70	1.1
			i	24	08.00	
UPP	41.42	322	iPc	22	32.20	-1.0
	1.2s		200.00nm			5.7mb
SSE	41.45	82	Pc	22	35.20	1.4
	1.0s		15.00nm			4.6mb
	Z 16s		0.50um			4.5MszX
KSP	41.49	308	iPd	22	34.30	0.4
			i	23	21.80	
			e	24	08.70	
IPM	41.71	132	ePc	22	37.30	1.2
KTK1	41.94	336	iPc	22	37.05	-0.3
PTJ	42.07	301	eP	22	39.10	0.2
BSD	42.36	315	iPc	22	40.10	-0.9
	0.8s		31.00nm			5.1mb
PRU	42.64	307	P	22	44.80	1.4
			e	23	07.00	
			e	24	21.80	
BRG	42.97	308	iP	22	47.90	1.9
	1.2s		48.00nm			5.1mb
			e	24	34.00	
CZI	43.18	291	P	22	48.70	0.9
KHC	43.33	306	eP	22	49.50	0.5
	1.2s		13.00nm			4.5mb
			e	24	28.50	
MGR	43.39	293	P	22	50.00	0.4
HFS	43.41	322	eP	22	48.60	-0.9
	0.6s		47.40nm			5.4mb
	Z 17s		0.09um			3.8MszX
			LR	36	46.00	
SGO	43.48	293	P	22	32.40	-17.8X
CLL	43.54	309	iP	22	51.40	0.8
	1.4s		49.00nm			5.0mb
TRO	43.59	336	eP	22	50.70	0.0
KBA	43.72	303	iPd	22	52.50	0.2
WET	43.79	306	eP	22	54.30	1.6
COP	43.79	316	iPc	22	52.30	-0.3
	0.7s		35.62nm			5.2mb
BHG	43.95	304	eP	22	55.10	1.1
MOR7	44.06	331	iP	22	54.46	-0.2
FVI	44.17	302	P	22	55.90	0.2
MOX	44.47	308	eP	22	59.00	0.9
GRF	44.81	307	iPc	23	01.50	0.7
			e	23	03.30	
LOF	44.97	333	iP	23	00.80	-1.0
CTI	45.02	302	P	23	01.90	-0.8
OGA	45.32	303	eP	23	04.20	-0.9
MME	46.03	299	P	23	12.50	1.7
BOB	46.79	300	P	23	17.50	0.9
FEL	47.17	305	P	23	19.78	0.2
GWF	47.24	306	P	23	19.95	-0.1
WTS	47.32	311	eP	23	21.50	1.0

0.9s 28.00nm 5.0mb
e 24 49.50
e 25 14.00
CDF 47.56 306 P 23 22.84 0.2
BER 47.59 322 eP 23 22.10 -0.4
ECH 47.67 305 P 23 25.40 2.0
MOF 47.76 305 P 23 24.46 0.3
BSF 47.99 305 eP 23 24.60 -1.3
0.8s 32.25nm 5.1mb
ENN 48.04 309 eP 23 26.50 0.4
0.8s 14.00nm 4.8mb
WLF 48.08 308 iPd 23 26.52 0.1
HAU 48.25 305 eP 23 27.10 -0.7
0.6s 7.20nm 4.6mb
SBF 48.40 300 eP 23 28.80 -0.3
1.0s 20.00nm 4.8mb
VITF 48.44 306 P 23 29.90 0.6
LPG 48.49 302 eP 23 29.80 -0.3
0.8s 16.10nm 4.9mb
LPL 48.50 302 eP 23 29.90 -0.2
1.0s 24.00nm 4.9mb
RSL 48.54 302 P 23 30.58 0.3
BNI 48.65 301 P 23 31.80 0.7
KBS 48.90 347 eP 23 32.50 0.1
LBF 50.03 304 eP 23 40.60 -0.9
1.0s 18.00nm 4.9mb
LOR 50.05 305 eP 23 40.80 -0.8
1.2s 22.30nm 4.9mb
SMF 50.20 304 eP 23 42.20 -0.6
0.9s 34.40nm 5.2mb
SSF 50.33 305 eP 23 43.00 -0.7
1.0s 23.00nm 5.0mb
AVF 50.49 304 eP 23 44.40 -0.5
1.0s 49.00nm 5.3mb
PLDF 50.51 303 P 23 45.73 0.5
GRC 50.56 305 P 23 45.88 0.4
AGO 50.82 303 P 23 48.29 0.8
KKM 50.87 115 ePc 23 49.80 1.5
BGF 50.89 304 eP 23 47.20 -0.8
0.8s 11.40nm 4.8mb
LBL 50.96 302 P 23 49.40 0.8
PYM 50.98 303 P 23 49.26 0.5
MAF 51.16 304 eP 23 49.60 -0.5
0.9s 26.20nm 5.1mb
TCF 51.38 304 eP 23 51.30 -0.5
1.0s 32.00nm 5.1mb
CAF 51.84 302 eP 23 55.20 -0.1
0.8s 10.05nm 4.7mb
LSF 51.85 304 eP 23 54.10 -1.1
0.8s 17.45nm 4.9mb
RJF 52.11 303 eP 23 57.10 -0.1
0.8s 8.05nm 4.6mb
LDF 52.33 307 eP 23 57.70 -1.0
1.0s 32.00nm 5.1mb
LPO 52.51 302 eP 23 59.60 -0.6
0.6s 5.40nm 4.6mb
FLN 52.52 308 eP 23 59.00 -1.1
0.7s 22.05nm 5.1mb
EKA 52.64 316 Pd 23 59.80 -1.1
1.0s 44.70nm 5.3mb
LFF 52.74 303 eP 24 01.50 -0.3
0.6s 10.80nm 4.9mb
MAT 52.80 68 iPc 24 00.90 -1.5
0.7s 19.18nm 5.1mb
GRR 52.86 307 eP 24 01.50 -1.1
0.8s 28.20nm 5.2mb
MFF 52.87 305 eP 24 01.90 -0.8
0.9s 14.80nm 4.9mb
LPF 53.07 307 eP 24 03.40 -0.7
1.0s 16.00nm 4.9mb
EPF 53.59 301 eP 24 07.30 -0.9
0.8s 6.70nm 4.6mb
ETA 55.01 313 eP 24 18.10 -0.2
DMU 55.09 315 eP 24 18.40 -0.5
0.8s 40.00nm 5.4mb
ECP 55.24 313 eP 24 19.50 -0.4
0.8s 103.00nm 5.8mb
DCN 55.45 314 eP 24 21.10 -0.4
0.8s 40.00nm 5.4mb
AKU 57.36 331 eP 24 35.50 0.7
0.8s 26.87nm 5.3mb
MTD 64.76 223 iPc 25 22.90 -2.4
KRI 65.90 224 iPc 25 34.10 1.5
MBC 67.56 3 iPc 25 41.60 -0.6
0.9s 21.00nm 5.0mb
BUL 69.12 223 iPc 25 52.70 0.0
NANU 71.89 137 eP 26 09.00 -0.2

MBL 73.24 133 iPd 26 17.50 0.4
0.4s 6.00nm 4.7mb
SLR 73.83 220 iPc 26 19.00 -1.7
INK 74.10 9 iPc 26 21.00 -0.4
0.4s 11.00nm 5.0mb
FBA 74.62 16 eP 26 24.10 -0.5
KIC 75.03 267 Pc 26 25.94 -1.8
TIC 75.09 267 P 26 26.08 -2.0
LIC 75.34 267 Pc 26 27.46 -2.0
FRB 75.37 343 eP 26 29.00 0.2
PMR 77.11 19 eP 26 37.60 -0.9
0.8s 10.50nm 4.7mb
TOA 77.40 17 eP 26 40.60 0.3
FRS 78.61 220 iPc 26 47.10 0.0
0.5s 73.94nm 5.7mb
KDC 79.38 22 e(P) 26 42.70 -8.2X
MUN 79.85 142 iPd 26 53.50 -0.3
YKA 81.47 3 eP 27 01.40 -0.5
0.8s 11.10nm 4.7mb
WR2 81.66 122 iPd 27 03.00 -0.6
0.4s 17.10nm 5.2mb
i 27 33.30
SCH 82.41 337 eP 27 07.00 0.0
ASPA 83.90 125 iPc 27 14.70 -0.3
0.7s 9.60nm 4.8mb
i 27 44.40
OIS 85.72 119 eP 27 23.10 -1.0
FFC 89.19 356 ePc 27 40.20 -0.2
0.8s 16.00nm 5.1mb
CTAO 90.20 115 iPc 27 45.50 0.0
0.9s 12.98nm 5.0mb
SES 93.69 2 eP 28 02.00 0.7
PNT 94.24 7 eP 28 03.00 -0.8
0.6s 6.00nm 5.1mb
ZOBO 138.92 288 PKP 34 10.00 -2.3X
LR 43 44.00
LPB 139.05 288 ePKP 34 11.00 -1.3
CNCB 139.13 287 PKP 34 12.00 -0.6
PCH 148.74 263 iPKP 34 31.50 3.6X
PEL 148.74 264 ePKP 34 31.00 3.1X
CHCH 148.93 263 ePKP 34 32.00 3.8X
LNV 149.55 263 ePKP 34 33.00 4.0X
S.D. = 1.0 on 156 of 170 obs.

% SEP 08, 1991 13h 13m 06.40± 1.92s
37.431 N ±14.1km 15.866 E ±13.2km
DEPTH = 10.0km (geophysicist)
SICILY (398)

SOI 0.66 13 P 13 20.50 1.0
eSg 13 29.80
ATN 0.80 336 P 13 22.20 0.3
eSg 13 32.40
MEU 0.82 246 Pc 13 22.40 0.1
eSg 13 32.80
MNO 1.05 299 P 13 26.50 0.1
eSg 13 40.20
GIB 1.56 291 P 13 34.30 0.0
eSg 13 53.00
CZI 1.80 7 P 13 37.60 0.0
eSg 14 00.20
ROI 2.21 14 P 13 43.50 -0.1
MGR 2.71 355 P 13 49.40 -1.4
eSn 14 21.40
S.D. = 0.8 on 8 of 8 obs.

SEP 08, 1991 13h 50m 30.87± 0.20s
40.250 S ± 2.9km 175.053 E ± 3.3km
DEPTH = 87.5 ± 2.1 km
5.6mb (31 obs.)
NORTH ISLAND, NEW ZEALAND (159)
Damage to many buildings at
Wellington and Wanganui. Felt
from Auckland to Christchurch,
South Island.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 24S, 56C
Centroid Location:
Origin Time 13:50:33.9 0.3
Lat 40.69S 0.02 Lon 174.94E 0.03
Dep 70.1 2.2 Half-duration 2.1
Moment Tensor: Scale 10**17 Nm
Mrr= 1.62 0.06 Mtt=-2.14 0.13
Mff= 0.51 0.12 Mrt= 2.04 0.07
Mrf=-0.33 0.07 Mtf=-0.67 0.08
Principal Axes:
T Val= 2.67 Plg=61 Azm= 33
N 0.42 17 269
P -3.10 23 172
Best Double Couple:Mo=2.9*10**17
NP1:Strike=232 Dip=27 Slip= 50
NP2: 95 70 108

BSZ 0.46 348 Pd 50 46.10 0.9
MNG 0.49 138 Pc 50 45.70 0.2
S 50 55.30
KIW 0.62 190 P 50 46.90 0.3
CAW 0.86 179 Pc 50 49.40 0.3
MTW 0.97 160 Pc 50 50.30 0.0
PGZ 1.00 112 P 50 50.40 -0.3
MRW 1.02 195 Pc 50 51.10 0.3
DIW 1.02 237 Pd 50 51.10 0.1
DRZ 1.05 22 Pc 50 52.10 0.5
WEL 1.06 192 Pc 50 51.50 0.2
eS 51 07.00
CNZ 1.12 20 Pc 50 52.60 0.4
TCW 1.13 211 Pc 50 52.60 0.4
WAHZ 1.14 62 Pd 50 52.00 -0.4
RUZ 1.14 11 Pd 50 52.90 0.5
NGZ 1.15 22 P 50 53.10 0.4
BLW 1.16 164 P 50 52.60 0.0
MOW 1.18 173 Pc 50 52.90 0.0
AMW 1.19 153 Pd 50 52.80 -0.1
NRZ 1.26 316 P 50 55.40 1.6
TEHZ 1.37 80 Pc 50 54.70 -0.6
TTH 1.54 63 P 50 56.70 -0.7
CCW 1.63 203 Pc 50 59.10 0.6
MOZ 1.75 354 Pd 51 00.80 0.6
eS 51 22.80
WHH 1.76 40 Pc 50 59.30 -1.1
MOH 1.96 56 Pc 51 01.80 -1.3
PAHZ 2.08 49 P 51 03.40 -1.2
THZ 2.22 226 Pc 51 06.30 -0.3
eS 51 34.20
UTU 2.25 24 P 51 06.40 -0.6
TAZ 2.31 30 Pd 51 06.80 -0.9
WLZ 2.44 10 P 51 09.20 -0.3
S 51 38.00
KHZ 2.45 207 P 51 09.00 -0.5
eS 51 36.60
URZ 2.55 39 Pd 51 08.60 -2.4
S 51 38.70
NOZ 2.83 56 Pd 51 12.40 -2.4
LTZ 3.28 219 P 51 19.60 -1.5
KUZ 3.54 9 Pd 51,23.60 -1.0
HBZ 3.66 45 P 51 23.20 -3.1X
MQZ 3.89 207 Pc 51 26.10 -3.4X
eS 52 07.80
WVZ 4.29 227 P 51 32.30 -2.8
eS 52 21.00
WCZ 4.34 352 P 51 35.20 -0.5
EWZ 4.52 223 P 51 34.90 -3.3X
OUZ 5.15 347 eP 51 46.20 -0.8
BWZ 5.74 220 P 51 50.20 -5.0X
ODZ 5.79 213 P 51 51.90 -4.0X
MSCZ 6.38 219 eP 51 59.30 -4.8X
LSCZ 6.42 219 eP 51 59.00 -5.6X
MHZ 6.42 220 P 51 59.40 -5.3X
SBCZ 6.43 219 eP 51 59.00 -5.7X
CMCZ 6.49 219 eP 52 00.00 -5.6X
TLC 6.62 220 eP 52 02.00 -5.4X
MSZ 6.88 228 eP 52 07.10 -3.8X
TUZ 6.95 213 eP 52 07.90 -3.9X
BCZ 7.80 220 eP 52 18.20 -5.4X
SIZ 8.31 215 eP 52 27.20 -3.3X
DZM 19.54 335 iPc 54 54.30 0.1
RIV 20.09 281 eP 55 06.00 6.3X
CNB 20.86 275 iPd 55 09.90 2.3
epP 55 30.00 97kmX
eS 59 36.20
eTT 12 37.70
TAU 20.88 254 eP 55 07.00 -0.6
CAN 21.14 275 eP 55 12.20 1.8
e 55 25.30
iPP 55 33.10
eTT 11 08.00
COO 21.15 290 eP 55 13.00 2.5X
0.5s 22.00nm 4.8mb
e 59 22.00
eS 02 40.00
BWA 21.92 277 eP 55 18.00 -0.1
ePP 55 38.20
eTT 12 29.10

08d 13h

SVA	22.25	9	eP	55	21.60	0.2	PJG	60.46	326	eP	00	32.20	-1.4	DLA	124.50	60	PKP	09	20.20	-0.7
BRS	22.44	298	iPc	55	26.50	3.2X	MAW	61.07	204	P	00	37.10	-0.1	ELF	124.81	60	PKP	09	20.70	-0.8
	1.0s	17.50nm			4.4mb X		TRT	64.09	282	iPc	00	59.10	1.2	LDN	124.83	60	PKP	09	20.60	-1.0
			i(pP)	55	35.50	32kmX		0.9s	328.10nm				6.3mb	NA2	125.04	67	PKP	09	21.20	-0.9
			i(PP)	55	44.00		AIA	65.21	156	eP	01	06.50	2.1	LVNJ	128.27	65	PKP	09	26.70	-1.6
			iS	00	02.00		BIP	65.95	305	ePd	01	07.00	-2.8X	MAIO	130.25	287	ePKP	09	31.00	-1.3
TOO	23.11	267	iPc	55	32.30	2.5X	CGP	67.10	304	ePd	01	16.00	-1.2				i	12	44.00	
	0.4s	35.00nm			5.1mb		TSM	68.54	296	ePc	01	26.00	-0.2	BNH	132.07	62	PKP	09	35.40	0.0
			eS	59	38.70		NVL	68.63	186	eP	01	26.00	0.1	SCH	137.22	49	ePKP	09	30.00	-14.9X
			eScP	02	43.40					e	01	35.00		AKSR	144.09	254	iPKPc	09	56.00	-2.0X
			eTT	13	09.20					e	01	45.00		AGMR	144.38	254	ePKP	09	58.00	-0.5
PVC	23.18	343	iPc	55	32.20	1.8				ePSP	01	48.00		KEV	146.04	341	iPKP	09	59.10	-0.8
BKM	23.26	343	iPd	55	33.50	2.2				e	02	00.00		LIC	146.12	180	PKP	10	02.34	0.6
CMS	25.16	281	eP	55	53.00	3.6X				e	02	20.00			Z 20s		0.15um			4.8Msz
BFD	25.47	266	iPc	55	53.50	1.2				e	04	30.00		KIC	146.26	180	PKP	10	02.82	0.9
			e	59	45.00					e	04	39.00		TIC	146.54	180	PKP	10	03.74	1.4
			e	02	50.00					eS	10	22.00		BHL	147.21	272	PKP	10	04.00	1.0
STK	28.18	277	iPc	56	18.10	1.2				eP$	10	50.00		KTK1	147.50	342	iPKPd	10	02.93	0.6
	1.0s	6.50nm			4.2mb X					e	11	08.00		SOD	147.76	338	iPKP	10	02.50	-0.2
			ipP	56	40.70	102kmX				eSSS	11	14.00		TRO	147.98	344	ePKP	10	04.00	1.0
			PcP	59	50.70					e	12	00.00		HLW	148.73	262	ePKP	10	09.00	3.6X
			eS	00	59.20					e	16	36.00		OBN	148.86	313	iPKPd	10	03.50	-1.3
			iScS	06	48.50					eSSS	18	30.00			1.2s	151.00nm				
OLP	28.95	289	eP	56	24.70	0.8				e	19	28.00					e	10	25.00	
			epP	56	48.00	105kmX	MAP	68.98	305	ePc	01	27.00	-1.8	CSS	149.39	272	ePKP	10	10.00	3.7X
ADE	29.13	269	eP	56	25.90	0.3	SNA	69.73	181	eP	01	33.20	0.6	PPCY	150.11	272	ePKP	10	11.00	3.6X
	0.9s	77.31nm			5.3mb			0.9s	53.78nm				5.4mb	LOF	150.30	346	ePKP	10	09.68	3.1X
CTAO	31.77	301	iPc	56	50.00	1.1	KKM	70.94	296	ePc	01	39.50	-1.4	KAS	150.84	285	ePKP	10	22.50	14.1X
	1.0s	90.00nm			5.5mb			0.8s	109.40nm				5.8mb	KAF	151.12	330	iPKP	10	11.90	3.9X
			ipP	57	13.50	105kmX	IPM	80.86	284	ePc	02	35.80	-0.9		0.3s	8.40nm				
			e	59	19.00			0.9s	43 70nm				5.3mb	ELL	152.60	274	iPKP	10	18.00	6.8X
DRV	32.87	205	P	56	58.30	0.4	SNG	82.88	286	eP	02	47.50	0.3	NUR	152.69	328	iPKP	10	15.80	5.5X
			S	14	02.00		QZH	83.46	310	Pc	02	50.00	0.1		0.9s	76.00nm				
HNR	33.50	332	ePc	57	05.00	1.1	MAT	83.58	331	eP	02	50.00	-0.3	KHL	153.35	277	ePKP	10	18.00	5.9X
OIS	36.01	292	iPc	57	25.30	0.0		1.5s	58.33nm				5.3mb	AKU	153.43	12	iPKP	10	19.10	7.9X
	1.0s	35.00nm			5.2mb		YAMJ	84.38	333	eP	02	54.10	-0.1		1.0s	36.00nm				
			e	57	50.40		OFUJ	84.64	335	P	02	55.70	0.2	APO	156.56	336	ePKP	10	23.90	8.3X
			eS	03	23.50		MDZ	86.30	131	e(P)	03	07.90	3.6X		0.4s	2.60nm				
AFR	37.84	64	iP	57	42.20	1.5	NJ2	88.76	315	eP	03	15.50	-0.2	NB2	156.93	340	PKP	10	13.60	-2.5X
	1.1s	130.00nm			5.8mb		NST	88.91	292	eP	03	18.50	1.8		1.3s	6.60nm				
PAE	37.89	64	iP	57	42.70	1.6	ASAJ	88.92	337	P	03	17.90	1.7	BZS	159.87	294	iPKPc	10	21.00	1.1
	1.1s	155.00nm			5.8mb		WHN	90.13	311	eP	03	22.00	-0.2	SPC	160.07	305	e(PKP)	10	20.00	-0.3
PPT	37.96	64	iP	57	43.20	1.5		1.0s	50.00nm				5.7mb				e	11	34.80	
	1.1s	185.00nm			5.9mb					PP	07	02.50		KSP	161.80	313	ePKP	10	20.60	-1.1
TVO	38.04	64	iP	57	43.90	1.5				SKS	13	44.00			1.1s	26.00nm				
	1.1s	110.00nm			5.7mb					S	14	08.00					i	11	07.70	
PPN	38.09	64	iP	57	44.40	1.7	BDT	90.76	292	eP	03	24.50	-0.8				e	11	32.00	
	1.1s	115.00nm			5.7mb		CHG	91.85	293	ePc	03	31.00	0.6	ZST	162.35	304	ePKP	10	20.70	-1.6
ASPA	38.25	283	iPc	57	43.90	-0.2		1.3s	28.85nm				5.5mb				e	15	30.30	
	0.4s	109.90nm			6.1mb					e	07	08.00		BRG	163.08	315	ePKP	10	21.80	-1.1
Z	23s	0.70um			4.4MszX		CHTO	91.85	293	iPc	03	30.40	0.1		1.4s	13.00nm				
			i	57	51.70			1.3s	20.42nm				5.3mb				e	10	47.00	
			ipP	58	07.50	102kmX				pP	03	54.30	88kmX				i	11	12.40	
			iPcP	00	18.60		TIA	92.86	317	eP	03	34.20	-0.4	PRU	163.19	312	ePKP	10	21.50	-1.6
			eS	03	28.70		KMI	93.49	300	eP	03	39.00	0.9				e	11	13.50	
			eScS	07	35.60		MDJ	93.85	329	eP	03	38.50	-0.4	CLL	163.34	318	ePKP	10	21.00	-2.2X
FORR	38.95	269	iPc	57	50.00	0.2	CN2	94.86	326	eP	03	43.40	-0.2				e	11	14.00	
	0.3s	51.00nm			5.9mb		SYP	95.49	49	eP	03	48.00	1.0	KHC	164.15	310	ePKP	10	23.00	-1.1
PMG	39.47	313	iPc	57	55.60	1.4	XAN	95.82	310	eP	03	47.30	-1.1				e	11	18.50	
	1.2s	531.25nm			6.3mb		BJI	96.24	319	eP	03	47.00	-3.0X				e	11	48.80	
WR2	40.16	288	iPc	57	59.70	-0.2	TIY	96.48	315	Pd	03	51.00	-0.3	MOX	164.44	317	e(PKP)	10	31.00	6.7X
	0.4s	49.30nm			5.7mb		PLM	96.49	51	eP	03	53.00	1.4	FIR	167.44	292	ePKP	10	12.00	-14.9X
			ipP	58	22.00	94kmX	SBB	96.86	50	eP	03	54.00	0.9	LBF	170.67	319	ePKP	10	27.20	-1.6X
			iScP	03	40.30		GLA	97.51	53	eP	03	58.00	2.0		1.1s	7.35nm				
			eS	03	58.00		ALQ	103.97	56	e(Pdif	04	25.00	-0.3	SSF	170.85	321	ePKP	10	28.40	-0.4
PMO	40.90	63	iP	58	07.80	1.9	ANMO	103.98	56	e(Pdif	04	25.00	-0.3		1.1s	7.35nm				
	1.1s	90.00nm			5.5mb					PP	08	40.70		SMF	170.96	318	ePKP	10	27.10	-1.8
VAH	40.92	63	iP	58	07.40	1.3	NEW	106.61	40	PKP	08	50.20	3.5X		1.1s	7.35nm				
	1.1s	65.00nm			5.4mb		BW06	107.06	48	e(PKP)	08	50.00	2.0	BGF	171.52	321	ePKP	10	27.80	-1.3
TPT	41.10	63	iP	58	09.30	1.7	LRM	107.40	44	ePKP	08	49.10	0.5		1.2s	11.90nm				
	1.1s	90.00nm			5.5mb		RSSD	111.06	50	ePKP	08	53.50	-2.0X	EPF	175.16	307	ePKP	10	31.70	1.1
RUV	41.12	64	iP	58	09.20	1.4				PP	09	32.50			1.1s	9.75nm				
	1.1s	105.00nm			5.6mb		TUL	111.51	61	e(PKP)	08	56.00	-0.3	TOL	179.22	242	ePKP	10	33.00	1.8
CSY	43.80	212	iPd	58	29.10	0.1	WMQ	114.74	307	ePKP	09	01.50	-0.9		S.D. = 1.1		on 150 of 195 obs.			
	0.5s	142.80nm			6.1mb		INK	114.84	19	ePKP	09	00.00	-1.7	---						
RKG	45.75	258	eP	58	45.00	0.0	YKA	116.77	29	ePKP	09	03.80	-1.7	& SEP 08, 1991 16h 00m 40.85s						
KLB	46.49	262	iPd	58	49.60	-1.4		0.8s	11.90nm					58.241 N 142.719 W						
	0.4s	42.00nm			5.7mb		FFC	118.03	41	iPKPc	09	06.80	-1.4	DEPTH = 10.0km (geophysicist)						
MUN	47.49	261	iPd	58	57.70	-1.1		0.6s	10.00nm					GULF OF ALASKA (15)						
SPA	49.94	180	iPd	59	18.90	1.4	GBTN	119.32	67	PKP	09	10.10	-1.1	<AEIC>. ML 2.8 (AEIC).						
	1.0s	105.00nm			5.8mb		TKL	119.62	67	PKP	09	11.20	-0.6							
			i	05	07.50		JSC	120.72	69	ePKP	09	13.20	-0.7	YKU	2.03	48	eP	01	10.97	-4.5
MBL	50.32	275	eP	59	19.00	-1.7	QUE	121.86	284	ePKP	09	13.30	-3.2X				S	01	33.95	
	0.4s	25.00nm			5.6mb		MBC	123.31	15	ePKP	09	15.50	-2.1X	YAH	2.19	13	iP	01	12.99	-5.0
NANU	52.82	271	iPd	59	38.70	-0.7		1.0s	24.00nm					MID	2.23	304	eP	01	12.63	-5.7
GUA	60.39	326	eP	00	32.40	-0.8				pP	09	43.00		PNL	2.24	49	iP	01	13.08	-5.5
	1.2s	262.50nm			6.2mb		CVL	124.47	67	PKP	09	20.10	-1.0				S	01	38.50	

HON	2.34	57	iP	01	14.44	-5.5
			S	01	40.41	
BCPM	2.34	42	eP	01	14.62	-5.4
TGL	2.52	359	eP	01	17.34	-5.3
			eS	01	44.98	
CROM	2.53	355	eP	01	17.97	-4.9
CTGM	2.82	14	eP	01	21.59	-5.4
FID	3.16	324	eP	01	26.45	-5.2
LTI	3.20	306	eP	01	26.23	-5.9
GLB	3.26	351	eP	01	27.07	-6.0
KNIM	3.33	312	eP	01	27.69	-6.3
VLZ	3.43	329	eP	01	29.44	-5.9
VZW	3.43	327	eP	01	29.42	-6.1
GLI	3.46	322	eP	01	29.60	-6.2
KLU	3.64	335	eP	01	32.68	-5.8
TZL	4.05	342	eP	01	38.36	-5.8
SIT	4.15	103	eP	01	39.72	-5.8
TOA	4.24	337	eP	01	41.99	-5.0
KNK	4.30	320	eP	01	42.55	-5.3
GHO	4.72	321	eP	01	47.60	-6.2

22 obs. associated

% SEP 08, 1991 16h 41m 33.79± 6.84s
62.870 N ±47.0km 4.812 E ±35.8km
DEPTH = 10.0km (geophysicist)
NORWEGIAN SEA (642)
MD 2.4 (BER).

FRO	1.12	178	iPc	41	55.36	0.7
			iSg	42	07.00	
FOO	1.28	175	iP	41	57.76	0.2
			iSg	42	11.83	
MOL	1.30	102	iP	41	58.09	0.3
			eSg	42	13.31	
SUE	1.82	181	eP	42	05.44	0.1
			eSg	42	26.81	
HYA	1.83	159	iP	42	05.13	-0.3
			iSg	42	25.68	
ASK	2.40	175	eP	42	14.06	0.3
			iSg	42	42.73	
EGD	2.62	175	eP	42	16.25	-0.5
			eSg	42	49.97	
ODO1	3.09	163	eP	42	22.74	-0.8
			eS	42	56.26	

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

SEP 08, 1991 16h 57m 18.74± 0.35s
41.111 N ± 3.1km 22.451 E ± 3.3km
DEPTH = 13.5 ± 3.0 km
NORTHWESTERN BALKAN REGION (383)
ML 3.3 (SKO). MD 3.1 (THE). Felt (IV) in the Gevgelija area.

GRG	0.16	194	ePd	57	22.56	-0.2
VAY	0.23	23	iPg	57	24.00	0.1
			iSg	57	27.60	
KNT	0.34	81	ePc	57	26.20	0.2
THE	0.62	141	ePd	57	30.16	-0.7
			eS	57	37.84	
SOH	0.74	113	ePd	57	33.00	0.0
			eS	57	41.40	
SRS	0.86	89	ePc	57	35.20	0.2
			eS	57	46.60	
FNA	0.88	248	ePc	57	35.64	0.3
			eS	57	45.72	
KKB	0.89	32	iPg	57	36.00	0.5
LIT	1.01	178	ePc	57	37.64	0.1
			eS	57	52.12	
MMB	1.07	63	iPg	57	39.00	0.4
SKO	1.15	319	ePg	57	40.50	0.6
			iSg	57	56.00	
OHR	1.25	271	iPg	57	42.20	0.6
			iSg	57	58.80	
OUR	1.40	123	ePd	57	44.80	1.0
			eS	58	03.36	
PAIG	1.51	141	ePc	57	46.60	1.2
			iS	58	05.44	
RZN	1.80	71	iPc	57	51.00	1.2
AGG	2.09	183	ePc	57	53.20	-0.6
KDZ	2.30	75	eP	57	56.00	-0.8
PVL	3.00	45	eP	58	06.00	-0.7
BZS	4.54	353	eP	58	28.00	-0.6
VRI	5.68	32	ePd	58	45.00	0.2

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

? SEP 08, 1991 18h 02m 00.68± 5.57s
23.257 N ±35.9km 121.814 E ±30.0km
DEPTH = 10.0km (geophysicist)
TAIWAN (244)

TWF1	0.48	281	iPc	02	10.60	0.1
			eS	02	14.70	
TWD	0.84	346	iPc	02	17.40	0.5
			eS	02	27.50	
TWK	1.22	271	ePd	02	23.70	0.3
			eS	02	38.00	
TWC	1.35	1	iPc	02	26.30	0.9
TWO	1.35	319	ePc	02	25.00	-0.6
SSE	7.83	356	ePn	03	56.20	-1.1
			Sg	06	02.00	

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

SEP 08, 1991 18h 20m 10.28± 0.21s
6.190 N ± 4.1km 94.835 E ± 3.9km
DEPTH = 29.2km (4 depth phases)
5.0mb (45 obs.) 4.2Msz (6 obs.)
NICOBAR ISLANDS, INDIA (704)

SNG	5.83	80	eP	21	34.10	-2.9
	0.9s	121.01nm			5.5mb	
IPM	6.37	104	ePd	21	41.50	-3.2X
	0.6s	80.70nm			5.7mb	
NST	10.76	28	eP	22	45.00	-0.6
BDT	11.72	20	eP	22	58.00	-0.6
CHG	13.17	17	eP	23	18.00	-0.1
	1.0s	10.00nm			4.8mb	
			e	27	14.50	
CHTO	13.17	17	ePn	23	18.00	0.0
			e	23	29.70	
			e	27	14.10	
KOD	17.65	284	eP	24	18.90	2.8
GBA	18.65	295	Pc	24	28.80	0.7
	1.1s	41.10nm			4.5mb	
OIZ	19.40	48	eP	24	37.70	0.5
N	14s	3.30um				
E	12s	1.40um				
			eS	28	08.00	
			sS	28	17.50	
HYB	19.43	306	ePd	24	38.00	0.4
	1.0s	80.00nm			4.9mb	
KMI	20.29	21	eP	24	48.50	1.6
KMI	20.29	21	Pd	24	50.00	3.1X
	1.5s	150.00nm			5.1mb	
Z	10s	1.90um			4.7MszX	
E	11s	0.80um				
			S	28	44.00	
			iS	28	48.00	
KKM	21.26	89	ePd	24	57.00	0.3
TRT	22.49	128	ePd	25	11.70	2.9X
PKI	23.07	338	P	25	13.08	-1.8
GYA	23.10	28	P	25	18.00	3.1X
	3.0s	600.00nm			5.6mb	
Z	20s	1.30um			4.4Msz	
N	13s	1.20um				
E	13s	1.40um				
			sP	25	30.00	
			ScP	32	35.00	
GUN	23.21	340	P	25	16.18	-0.1
DMN	23.22	338	P	25	15.34	-0.9
KKN	23.32	338	P	25	15.76	-1.4
LSA	23.64	352	eP	25	20.00	-0.6
GKN	23.75	337	P	25	20.40	-0.9
POO	23.85	303	eP	25	24.50	2.3
CD2	25.98	18	eP	25	42.00	-0.4
	1.0s	80.00nm			5.3mb	
E	12s	1.00um				
NDI	27.90	325	iPd	26	04.50	4.6X
	1.0s	20 00nm			4.8mb	
WHN	30.38	35	eP	26	24.00	1.9
Z	10s	0.60um			4.5MszX	
N	15s	1.20um				
E	15s	1.23um				
			pP	26	33.00	31km
XAN	30.63	23	P	26	23.30	-1.0
LZH	30.88	14	eP	26	26.00	-0.7
	1.2s	40.00nm			5.1mb	
Z	16s	0.44um			4.2MszX	
E	12s	0.72um				
			pP	26	32.50	23km
			PcP	29	23.00	
GTA	33.38	7	Pd	26	48.00	-0.4
	0.6s	10.00nm			4.9mb	
Z	14s	0.40um			4.3MszX	
E	10s	0.40um				
			pP	26	55.60	26km
			sP	27	07.00	
			PcP	29	30.00	
NJ2	34.13	38	Pc	26	56.50	1.6
Z	13s	0.70um			4.6MszX	
N	13s	1.60um				
E	12s	1.20um				
SSE	34.98	42	eP	27	03.50	1.3
Z	13s	1.80um			5.0MszX	
N	12s	0.90um				
E	11s	0.50um				
TIY	35.23	25	eP	27	04.10	-0.2
Z	13s	1.20um			4.8MszX	
E	20s	1.50um				
QUE	35.46	316	eP	27	07.10	0.6
TIA	36.20	31	eP	27	13.90	1.5
Z	12s	0.70um			4.7MszX	
E	12s	0.70um				
BTO	36.86	19	eP	27	18.00	-0.1
N	12s	0.50um				
E	12s	0.50um				
HHC	37.62	21	eP	27	25.20	0.8
	1.0s	40.00nm			5.2mb	
Z	18s	0.60um			4.4Msz	
N	15s	0.50um				
E	14s	1.30um				
WMQ	38.00	352	eP	27	27.00	-0.6
BJI	38.78	26	eP	27	35.50	1.5
	1.0s	27.00nm			5.0mb	
Z	14s	0.94um			4.8MszX	
DL2	40.58	33	P	27	51.00	2.0
	1.0s	100.00nm			5.5mb	
SNY	43.72	31	Pd	28	15.60	1.0
	1.0s	50.00nm			5.3mb	
MAIO	44.08	318	eP	28	17.00	-0.8
CN2	46.10	31	eP	28	33.60	0.0
Z	14s	1.50um			5.1MszX	
			pP	28	44.40	37km
WR2	46.76	125	iPc	28	37.60	-1.5
	0.7s	27.50nm			5.4mb	
			iPcP	30	12.60	
ASPA	48.32	129	iPd	28	50.40	-1.0
	1.3s	26.70nm			5.1mb	
			i	30	19.10	
MDJ	48.83	33	eP	28	55.00	0.1
	1.0s	70.00nm			5.6mb	
MAT	49.80	46	eP	29	04.00	1.4
	1.0s	12.00nm			4.9mb	
OIS	51.39	122	eP	29	13.40	-1.5
	1.0s	23.00nm			5.1mb	
			ePcP	30	29.80	
CTAO	56.89	119	eP	29	54.00	-1.4
QLP	57.88	127	iPd	30	02.90	0.8
STK	58.45	133	iPd	30	05.30	-0.8
	1.5s	7.10nm			4.5mb	
YAK	61.37	18	eP	30	12.10	-13.5X
CMS	61.38	131	eP	30	27.00	0.8
RMO	61.49	124	eP	30	37.00	9.9X
	1.0s	20.00nm			5.2mb	
BFD	61.97	138	eP	30	31.00	0.9
TOO	64.16	137	iPd	30	45.30	0.7
	0.9s	35.00nm			5.5mb	
BWA	64.68	133	eP	30	48.30	0.2
CAN	65.52	133	eP	30	53.30	-0.1
COO	65.66	127	eP	30	55.30	0.8
	1.0s	14.00nm			5.0mb	
CNB	65.78	133	eP	30	55.60	0.5
MTD	66.55	249	iPd	30	59.90	-0.5
OBN	67.14	328	iPd	31	02.50	-0.9
	1.4s	********	nm		8.7mb X	
Z	16s	0.40um			4.7MszX	
			i	31	08.50	
			e	31	37.50	
			e	32	30.50	
BUL	70.12	246	iPd	31	21.00	-1.6
VRI	70.39	317	ePd	31	23.00	-0.7
KAF	74.59	333	eP	31	47.80	-0.4
NUR	74.94	331	iP	31	47.80	-2.4
	0.8s	26.40nm			5.3mb	
SPC	75.28	319	eP	31	52.20	-0.4
KRA	75.59	320	eP	31	53.90	-0.2
SOD	76.02	338	iP	31	56.20	-0.1
SRO	76.39	318	eP	31	57.80	-0.9
ZST	77.24	318	iPd	32	03.40	0.0
KSP	77.99	321	eP	32	07.80	0.3
UPP	78.25	330	iP	32	07.30	-1.4
VBY	78.31	315	eP	32	09.70	0.3

08d 18h

LJU	78.84	316	eP	32	12.00	-0.3	LRG	1.29	115	Pg	06	02	10	0.4	MMB	3.76	97	iPc	46	22.00	0.4
PRU	79.05	320	eP	32	12.50	-0.8				Sg	06	15	60		SRS	3.78	104	iPc	46	22.34	0.5
			e	32	34.00		FRF	1.44	108	Pg	06	04	10	0.1				iS	47	07.82	
VOY	79.29	316	eP	32	14.50	-0.3				Sg	06	19	00		AZI	3.96	269	P	46	26.90	2.5
BRG	79.48	320	iP	32	16.00	0.4	LMR	1.44	118	Pg	06	04	70	0.7	AQU	3.97	275	Pd	46	27.50	2.9X
	1.2s	14.00nm			4.9mb					Sg	06	19	50		TIM	3.99	26	iPd	46	28.00	3.2X
KHC	79.63	319	P	32	16.50	-0.1	MVIF	1.73	93	Pn	06	08	42	0.1	BZS	4.03	30	iPc	46	25.50	0.2
KBA	79.70	317	iPd	32	16.50	-0.7	TOUF	1.80	89	Pn	06	09	39	0.1	SRE	4.10	51	ePd	46	28.00	1.7
WET	80.09	319	eP	32	19.50	0.5				Sg	06	30	35		AGG	4.15	138	ePc	46	26.90	-0.3
	1.0s	11.00nm			4.8mb		AURF	1.86	93	Pn	06	10	00	-0.1	ZAG	4.16	332	iPn	46	29.20	2.0
CLL	80.09	321	eP	32	18.00	-0.9				Sg	06	31	50					iSn	47	19.50	
	1.3s	9.00nm			4.6mb		AUTN	1.93	90	Pn	06	11	22	0.0				iSg	47	39.50	
HFS	80.25	330	eP	32	18.50	-1.0				Sg	06	33	82		VBY	4.19	324	ePnc	46	29.60	2.0
	1.3s	38.00nm			5.2mb		SBF	1.94	94	Pn	06	11	20	0.0				iSn	47	20.30	
	Z 19s	0.14um			4.3Msz					Pg	06	12	80		VLS	4.22	160	ePn	46	26.50	-1.6
		LR	07	58.00						Sg	06	33	00		PTJ	4.25	333	iPnc	46	29.90	1.4
MOX	80.95	320	iP	32	23.70	0.2	SAOF	2.02	90	Pn	06	12	23	-0.1				eSn	47	19.50	
OGA	81.29	316	eP	32	25.70	0.1	PGF	3.43	114	Pn	06	31	43	-1.0	PAIG	4.34	119	iPd	46	29.14	-0.7
	0.9s	12.00nm			4.9mb		S.D. = 0.5 on 11 of 11 obs.								OUR	4.35	113	ePd	46	29.90	0.0
NB2	81.53	331	P	32	25.70	-0.6	----------								UZD	4.43	358	iPnd	46	32.10	1.0
	1.0s	10.80nm			4.8mb		SEP 08, 1991 19h 45m 22.30± 0.19s								RZN	4.48	94	iPc	46	33.00	1.1
CDF	83.79	318	eP	32	37.90	-0.5	42.162 N ± 2.4km 18.751 E ± 1.8km								ARV	4.48	289	P	46	33.20	1.5
SBF	83.88	313	eP	32	39.00	0.1	DEPTH = 10.0km (geophysicist)											eSn	47	25.00	
	0.7s	11.00nm			5.2mb		4.3mb (10 obs.)								RIY	4.49	317	ePn	46	33.30	1.5
EWZ	84.19	135	P	32	41.20	1.0	NORTHWESTERN BALKAN REGION (383)											iSn	47	27.20	
LPG	84.29	315	eP	32	41.40	0.2	ML 4.9 (ZAG), 4.3 (ROM). MD 4.9								MNS	4.51	275	P	46	34.00	1.8
	0.7s	6.60nm			4.9mb		(TRI), 4.3 (ATH), 4.2 (THE).								RDP	4.52	267	P	46	34.40	2.0
LPL	84.30	315	eP	32	41.50	0.3	Felt (VI) at Budvo and Petravoc,								RMP	4.52	268	P	46	33.80	1.4
	1.1s	18.30nm			5.2mb		(V) elsewhere along the coast of								SOI	4.58	208	Pd	46	32.10	-1.0
HAU	84.43	318	eP	32	41.10	-0.4	Montenegro ond (IV) at Titagrod.								ASS	4.59	283	P	46	35.80	2.5
	0.7s	5.50nm			4.9mb													eSn	47	29.50	
FRF	84.47	313	eP	32	42.20	0.5	BDV	0.13	25	iPg	45	25	90	0.4	ATN	4.72	213	P	46	34.40	-0.9
	0.7s	6.60nm			4.9mb					iSg	45	27	40		DRA	4.73	56	ePd	46	58.00	22.6X
LMR	84.58	313	eP	32	42.60	0.3	HCY	0.34	327	iPg	45	30	60	1.2	CEY	4.75	320	iPnc	46	37.40	1.8
LRG	84.68	313	eP	32	43.30	0.5				iSg	45	36	60					iSn	47	36.00	
	1.1s	34.20nm			5.5mb		ULC	0.42	118	iPg	45	30	00	-0.9	DEV	4.78	37	iPd	46	38.00	2.0
	Z 21s	0.08um			4.1Msz					iSg	45	36	80		LJU	4.93	323	ePn	46	40.00	1.9
THZ	85.26	133	eP	32	46.10	0.3	TTG	0.46	54	iPg	45	30	40	-1.3				ePg	46	55.80	
LBF	86.11	317	eP	32	49.70	-0.2				iSg	45	37	40					eSn	47	39.40	
	0.9s	6.55nm			4.9mb		NKY	0.68	16	iPg	45	35	00	-0.8	PVL	4.96	76	iPc	46	38.00	-0.6
LOR	86.16	317	eP	32	50.00	-0.2	BRY	0.75	348	iPg	45	37	40	0.2	KDZ	5.00	94	iP	46	38.00	-1.2
	0.8s	5.35nm			4.8mb		PVY	1.00	64	iPg	45	40	30	-1.1	DIM	5.05	89	eP	46	42.00	2.2
	Z 21s	0.08um			4.1Msz		IVA	1.11	50	iPg	45	40	30	-2.8	TRI	5.05	316	iPnc	46	40.60	0.7
SMF	86.23	316	eP	32	50.30	-0.2	PLE	1.26	22	iPg	45	46	20	0.4				iPg	46	58.20	
	0.8s	6.05nm			4.9mb		BRT	1.73	223	P	45	53	80	1.2				iSn	47	40.00	
AVF	86.55	317	eP	32	52.00	0.0				eSn	46	19	00					iSb	48	02.20	
	0.9s	3.30nm			4.6mb		BAI	1.75	234	P	45	53	60	0.7				iSg	48	11.10	
BGF	86.92	316	eP	32	54.10	0.3	OHR	1.86	124	iPn	45	55	10	0.6	COZ	5.14	50	eP	46	42.30	1.1
	1.1s	9.75nm			4.9mb					iSn	46	21	80		RDO	5.18	99	ePn	46	41.50	-0.2
MAF	87.15	316	eP	32	55.20	0.2	LCI	1.92	198	P	45	55	30	0.0	CRE	5.21	289	P	46	43.90	1.7
CAF	87.64	315	eP	32	58.10	0.7				eSn	46	19	50					eSn	47	42.00	
	1.0s	7.00nm			4.9mb		HVAR	1.98	302	iPn	45	58	60	2.4	VOY	5.22	320	iPnc	46	43.40	1.1
RJF	87.98	315	eP	32	59.70	0.7				iSn	46	25	30					eSn	47	47.50	
	Z 21s	0.08um			4.1Msz		SKO	2.01	95	iPn	45	58	00	1.3	MNO	5.25	218	P	46	43.80	0.9
LPO	88.28	315	eP	33	01.10	0.7				iPg	46	01	00		TNR	5.30	47	iPc	47	38.00	54.6X
	0.7s	4.40nm			4.9mb					iSn	46	24	30		BUD	5.33	2	iPnd	46	44.00	0.3
EKA	89.49	326	Pc	33	05.80	-0.1				iSg	46	26	40		SFI	5.35	291	P	46	46.40	2.3
	0.7s	4.00nm			4.8mb		FNA	2.41	124	iPc	46	03	82	1.4	PGD	5.43	291	P	46	47.70	2.3
NEW	118.95	24	e(PKP)	38	58.20	0.3				eS	46	34	78		MTUR	5.51	54	eP	46	48.50	2.1
BW06	126.46	22	ePKP	39	11.50	-1.3	KEK	2.57	162	ePn	46	04	00	-0.7	GIB	5.52	223	P	46	46.30	-0.3
	1.0s	6.17nm					IGT	2.89	155	ePc	46	10	10	0.9	ALN	5.62	101	ePd	46	46.90	-1.0
RSSD	127.11	17	ePKPc	39	12.80	-1.1	BEO	2.93	24	iPn	46	10	30	0.5	MAO	5.64	275	P	46	49.40	1.1
	1.0s	10.85nm								iPg	46	18	00		SRO	5.66	357	e(Pn)	46	48.40	0.0
PEC	129.94	35	e(PKP)	39	20.00	0.6				iSg	46	56	00					i	47	54.50	
GOL	130.67	21	ePKP	39	20.00	-0.9	KZN	2.94	128	ePb	46	11	00	1.1				i	48	02.10	
	1.0s	3.75nm					GRG	2.99	113	ePc	46	11	90	1.2				i	48	09.20	
ANMO	134.42	25	ePKP	39	29.30	1.2	CSI	3.03	219	P	46	11	20	0.1	MDB	5.68	44	ePc	46	51.00	2.3
	1.0s	4.50nm								eSn	47	01	50		BUC	5.81	65	ePd	46	48.00	-2.6
ALQ	134.43	25	ePKP	39	29.00	0.9	SGO	3.05	239	P	46	12	50	1.1	PSZ	5.81	8	iPnc	46	50.60	-0.1
PPD	143.71	241	ePKP	39	44.10	-1.0				eSn	46	49	90		JMB	5.82	84	iP	46	50.00	-0.6
			e	39	48.30		MMN	3.08	224	P	46	14	20	2.3	MEU	5.85	212	P	46	51.00	-0.2
MDZ	149.40	208	e(PKP)	39	55.50	1.3				eSn	46	57	50		PZI	5.92	211	P	46	51.61	-0.5
CNCB	160.15	236	PKP	40	15.00	5.6X	TDS	3.10	217	P	46	13	90	1.8	VVI	5.95	312	Pc	46	52.90	0.4
			i	40	53.00		MGR	3.15	231	P	46	13	30	0.5				eSn	47	58.50	
LPB	160.38	237	ePKP	40	24.00	14.5X				eSn	46	53	80		ZST	6.15	350	eP	46	55.40	0.2
			e	40	52.00		KKB	3.24	94	iP	46	16	00	1.8				i	47	03.30	
ZOBO	160.53	238	PKP	40	11.00	1.2	DUI	3.24	263	P	46	16	70	2.4				i	48	09.40	
S.D = 1.0 on 107 of 116 obs.							KNT	3.26	106	ePd	46	15	06	0.5	FVI	6.16	318	P	46	56.30	0.9
----------							VTS	3.33	81	iPc	46	17	00	1.4				eSn	48	02.00	
? SEP 08, 1991 19h 05m 37.80± 7.17s							LIT	3.49	125	ePc	46	17	86	0.1	MLR	6.18	55	iPc	46	57.00	1.2
44.016 N ±15.2km 4.756 E ±56.1km										eS	46	59	86		MME	6.23	292	P	46	57.70	1.0
DEPTH = 10.0km (geophysicist)							THE	3.52	114	ePc	46	18	34	0.3				eSn	48	09.00	
FRANCE (538)										eS	47	00	18		PII	6.24	287	P	46	55.70	-0.9
ML 2.8 (LDG), 2.3 (STR).							CZI	3.55	215	P	46	18	90	0.4				eSn	48	06.50	
							SOH	3.71	110	ePd	46	21	34	0.4	KBA	6.25	324	iPnc	46	57.50	0.6
CDR	0.81	115	ePgc	05	53.10	-0.4	SDI	3.71	265	P	46	23	40	2.5		1.0s	251	.00nm		6.0mb X	
			i(Sg)	06	00.90					eSn	47	08	00					i	48	05.50	

			i	48	41.50				0.8s	40.30nm		5.9mb X	KIC	41.29	217	P	53	09.60	0.1
			i	49	01.00			LPL	9.31	295	eP	47 37.70 -2.0	WMQ	49.10	63	eP	54	11.00	-0.7
BDI	6.26	290	P	46	57.00	-0.1			0.5s	20.05nm		5.8mb X	GKN	54.48	83	P	54	49.92	-2.6
			eSn	48	08.10			BRG	9.32	341	iP	47 40.00 0.4	DMN	55.05	83	P	54	53.94	-2.9X
VLI	6.33	148	ePn	46	55.50	-2.4			1.2s	24.00nm		5.5mb X	KKN	55.08	82	P	54	53.90	-3.1X
VKA	6.34	345	iPn	47	00.00	1.9		RSL	9.43	296	P	47 40.83 -0.5	PKI	55.29	83	P	54	56.24	-2.4
			iSn	48	11.70			HOF	9.44	332	eP	47 40.70 -0.5	GUN	55.45	82	P	54	57.42	-2.4
PRK	6.41	115	ePn	46	59.00	-0.1		FEL	9.51	311	P	47 40.76 -1.6	LSA	58.31	77	P	55	18.00	-2.3
CTI	6.42	310	P	46	59.30	0.0		MOX	9.81	332	iPc	47 45.90 -0.4	MBC	58.88	349	eP	55	22.00	-1.1
			eSn	48	09.20				1.2s	33.00nm		5.6mb X	XAN	68.24	63	eP	56	24.00	-1.3
BMR	6.46	30	ePc	47	06.00	6.3X				S	50	48.00	YKA	69.19	339	eP	56	29.10	-1.5
MFT	6.55	99	eP	47	04.00	2.8X		LOMF	9.94	306	P	47 46.30 -2.0		0.7s		2.10nm			4.4mb
DMK	6.72	90	eP	47	05.00	1.6		CLL	9.96	339	ePn	47 48.00 -0.4	CHG	70.47	82	eP	56	37.00	-2.1
KMR	6.74	333	ePn	47	05.00	1.3			1.5s	14.00nm		5.2mb X	CHTO	70.47	82	eP	56	36.90	-2.2
			i	47	06.70					eSg	50	55.00		0.9s		3.84nm			4.5mb
			iSn	48	29.80			MOF	10.00	309	P	47 48.41 -0.7		S.D. = 1.4 on 199 of 214 obs.					
VRI	6.84	54	ePd	47	05.00	-0.1		ECH	10.17	310	P	47 50.07 -1.3							
SAL	6.87	303	P	47	05.70	0.2		BSF	10.19	308	eP	47 49.60 -2.1		SEP 08, 1991 20h 53m 24.38± 0.58s					
BHG	6.95	325	iPc	47	07.70	1.1			0.6s	16.25nm		5.6mb X		37.408 N ± 7.2km 134.554 E ± 5.6km					
SCE	7.00	317	ePn	47	07.70	0.2		CDF	10.21	312	P	47 50.17 -1.9		DEPTH = 397.6 ± 6.2 km					
PSN	7.09	74	iP	47	08.00	-0.6		GWF	10.35	315	P	47 51.82 -2.0		4.6mb (23 obs.)					
SPC	7.11	8	iP	47	10.90	1.9		HAU	10.53	308	eP	47 54.80 -1.5		SEA OF JAPAN					(660)
TLB	7.19	67	eP	47	10.50	0.6			0.6s	10.80nm		5.4mb X							
WTTA	7.19	318	iPnc	47	10.30	0.2		TNS	10.76	322	ePc	47 58.80 -0.7	MAT	3.05	105	iPd	54	27.50	-0.8
			iSn	48	32.80			VITF	10.85	308	P	47 59.05 -1.6				eS	55	18.00	
PGF	7.23	276	eP	47	10.90	0.2		WLF	11.54	315	P	48 11.00 1.1	MDJ	8.12	334	Pc	55	21.20	-0.1
	1.1s	102.55nm				5.9mb X		SMF	11.57	298	eP	48 07.90 -2.5		1.0s		50.00nm			4.7mb
BOB	7.25	294	P	47	12.30	1.3			0.6s	17.15nm		5.5mb X	CN2	9.42	316	eP	55	36.80	0.4
			eSn	48	30.00			LOR	11.76	301	eP	48 10.70 -2.3	SNY	9.55	301	Pc	55	39.20	1.2
OGA	7.25	313	iPnc	47	11.00	-0.1			0.7s	13.80nm		5.4mb X		1.0s		20.00nm			4.5mb
CTT	7.32	95	eP	47	12.20	0.4		BNS	11.86	322	ePd	48 21.50 7.2X	DL2	10.29	282	P	55	47.50	0.8
IZM	7.51	117	eP	47	14.60	0.0			0.9s	29.00nm		5.6mb X		1.0s		100.00nm			5.2mb
PPE	7.55	55	eP	47	17.60	2.6				eS	50	25.50	SSE	12.72	244	Pd	56	15.00	0.3
OSS	7.64	309	ePd	47	16.90	0.4				ic	51	46.00		1.0s		49.00nm			4.9mb
PCP	7.81	291	P	47	17.30	-1.4		SSF	11.91	299	eP	48 12.80 -2.3	NJ2	13.97	252	Pd	56	28.20	0.2
KHC	7.85	334	P	47	19.60	0.3			0.6s	6.75nm		5.1mb X		1.2s		100.00nm			5.1mb
			e	48	43.50			AVF	11.93	298	eP	48 12.90 -2.4	TIA	14.02	270	eP	56	28.40	-0.2
DST	7.91	106	eP	47	20.50	0.4			0.7s	6.60nm		5.0mb X	BJI	14.59	286	eP	56	34.00	-0.6
RAC	7.93	357	eP	47	23.00	2.7		BGF	12.20	297	eP	48 16.70 -2.3		1.0s		13.00nm			4.3mb
			e	48	52.00				0.4s	8.00nm		5.3mb X				eS	59	10.00	
VDL	7.93	306	ePc	47	21.70	1.1		MAF	12.30	295	eP	48 19.00 -1.4	TIY	17.54	278	Pc	57	04.50	-0.7
KRA	7.94	6	iP	47	22.00	1.6			0.5s	2.20nm		4.7mb X	WHN	18.08	254	eP	57	10.70	0.2
Z	10s	2.40um						ENN	12.33	319	eP	48 21.00 0.4	HHC	18.15	288	P	57	10.80	-0.5
E	12s	3.20um							1.1s	22.00nm		5.3mb X	BTO	19.32	287	P	57	22.00	-0.7
			i	47	30.00					e	51	39.00	XAN	21.06	269	P	57	39.00	-0.5
			iS	48	55.10			TCF	12.56	295	eP	48 21.80 -2.0		0.8s		60.00nm			5.1mb
CkI	7.97	290	P	47	19.50	-1.4			0.5s	2.90nm		4.8mb X	LZH	24.59	276	Pc	58	12.30	0.0
FIN	7.97	288	P	47	19.56	-1.4		WTS	12.75	325	eP	48 39.00 12.8X		1.4s		50.00nm			4.7mb
FUR	7.99	321	eP	47	20.50	-0.7			1.0s	40.00nm			GYA	25.97	253	iPd	58	24.20	-0.5
WET	8.10	332	eP	47	22.70	-0.1		MFF	14.22	295	eP	48 43.70 -2.0		0.8s		40.00nm			4.9mb
TMA	8.12	302	ePc	47	22.30	-1.0		LDF	14.72	302	eP	48 52.60 0.3	CD2	26.22	265	eP	58	25.20	-1.6
IMI	8.15	286	P	47	23.35	-0.1			0.7s	11.00nm		4.5mb X		0.6s		60.00nm			5.2mb
PRU	8.36	341	P	47	28.90	2.6		FLN	15.00	303	eP	48 55.30 -0.6	GTA	27.20	285	Pd	58	34.80	-0.7
	1.6s	29.90nm				5.3mb X			0.7s	9.90nm		4.4mb		0.6s		20.00nm			4.7mb
N	10s	1.00um						Z	22s	0.13um			KMI	29.68	255	eP	58	52.00	-5.5X
E	10s	0.60um						GRR	15.13	301	eP	48 56.80 -0.7		1.5s		30.00nm			4.4mb
			S	49	12.00				0.7s	8.80nm		4.3mb	CHG	36.18	249	iPd	59	53.90	1.4
LLS	8.41	307	ePc	47	28.10	0.9		LPF	15.14	300	eP	48 56.70 -1.1		0.7s		14.55nm			4.4mb
SBF	8.47	285	eP	47	27.10	-0.8			0.7s	9.90nm		4.3mb	CHTO	36.18	249	iPd	59	53.70	1.2
	0.6s	27.95nm				5.7mb X		TOL	17.35	270	eP	49 29.50 3.5X		0.7s		11.28nm			4.3mb
ORX	8.51	298	P	47	25.81	-2.8		OBN	17.45	36	eP	49 25.00 -2.0	GUN	41.67	271	P	00	37.68	-0.1
ENR	8.53	288	P	47	28.78	-0.1			1.8s	*******	nm	7.4mb X		0.5s		58.00nm			5.2mb
STV	8.60	288	P	47	28.78	-1.1		Z	11s	0.50um			PKI	42.19	271	P	00	42.16	0.2
MMK	8.68	300	ePc	47	31.30	0.2		N	11s	0.40um			KKN	42.20	272	P	00	42.42	0.5
DOI	8.71	289	P	47	29.80	-1.5		E	11s	0.40um				0.8s		96.00nm			5.2mb
BHB	8.77	292	P	47	30.63	-1.4				e	49	36.50	DMN	42.42	272	P	00	43.92	0.2
PZZ	8.81	289	P	47	31.04	-1.7				LR	56	07.00	GKN	42 62	272	P	00	45.60	0.4
KSP	8.85	350	eP	47	33.50	0.4		UPP	17.73	358	iP	49 29.60 -1.0		0.6s		85.00nm			5.2mb
KSP	8.85	350	iP	47	42.60	9.5X		HFS	18.26	352	eP	49 35.70 -1.5	FBA	51.70	32	eP	01	55.30	1.2
	1.0s	25.00nm				5.5mb X			1.0s	43.20nm		4.6mb		1.2s		2.30nm			3.4mb X
RSP	8.85	294	P	47	29.71	-3.6X		Z	16s	0.14um			GBA	55.82	261	Pd	02	24.30	0.1
FRF	9.00	283	eP	47	35.30	0.1				LR	55	32.00		1.0s		6.90nm			3.9mb
	0.6s	19.85nm				5.6mb X		NUR	18.72	9	eP	49 42.00 -0.8	WR2	57.05	180	iPd	02	32.30	-0.3
LSD	9.01	295	P	47	31.96	-3.6X			0.6s	15.60nm		4.4mb		0.6s		6.60nm			4.2mb
DIX	9.05	299	ePd	47	35.60	-0.6		EKA	19.45	320	Pc	49 51.00 -0.6	MBC	57.69	16	ePc	02	36.00	-0.5
ZLA	9.08	309	ePd	47	36.80	0.4			1.2s	11.10nm		4.0mb		0.7s		6.00nm			4.1mb
LMR	9.09	282	eP	47	36.60	0.2		NB2	19.45	349	P	49 49.30 -2.5	YKA	66.16	28	eP	03	31.40	-0.6
	0.6s	8.10nm				5.3mb X			1.1s	13.80nm		4 1mb		0.8s		1.90nm			3.9mb
RRL	9.12	292	P	47	35.14	-2.0		KAF	20.49	10	eP	49 59.60 -3.0X	HFS	71.38	333	eP	04	02.70	-0.9
GRF	9 17	328	iPnd	47	36.50	-1.1			0.6s	5.90nm		4.1mb		0.4s		1.20nm			3.9mb
	1.1s	30.00nm				5.6mb X		DCN	20.65	312	eP	50 04.00 -0.4	NB2	71.61	335	P	04	04.80	-0.3
Z	19s	0.40um						DMU	20.66	313	eP	50 05.00 0.4		0.8s		1.30nm			3.6mb
SLE	9 18	311	ePc	47	37.20	-0.5		TIO	23.63	250	iP	50 37.00 2.6	LRM	77.59	41	ePc	04	40.70	1.5
LRG	9.20	282	eP	47	38.30	0.3		SOD	25.63	7	iP	50 55.40 2.3	ZOBO	150.94	50	PKP	12	34.00	7.2X
	0.9s	34.40nm				5.7mb X		MAIO	31.87	87	eP	51 48.00 -1.8	LPB	151.16	50	ePKP	12	30.00	3.1X
BNI	9.23	292	P	47	39.40	0.9		QUE	40.21	91	eP	52 58 80 -2.0	CNCB	151.44	50	PKP	12	36.20	8.7X
LPG	9.29	295	eP	47	37.60	-1.9		TIC	41.17	217	P	53 09.20 0.7		S.D. = 0.8 on 33 of 37 obs.					

---

* SEP 08, 1991 21h 21m 22.97± 2.43s
23.981 N ±11.9km 122.971 E ±20.3km
DEPTH = 10.0km (geophysicist)
TAIWAN REGION (243)

TWC	1.20	302	iPd	21 45.80	0.5
			eS	21 59.50	
TWD	1.26	275	ePc	21 45.80	-0.6
TWF1	1.66	248	ePd	21 52.50	0.3
TWG	2.09	237	ePd	21 58.50	0.0
SSE	7.26	348	ePn	23 11.50	-0.2
Z	16s	0.40um			
			eSg	25 20.00	

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

---

* SEP 08, 1991 21h 57m 01.98± 0.77s
53.514 N ±14.3km 158.127 E ±14.5km
DEPTH = 130.0km (geophysicist)
4.2mb (18 obs.)
NEAR EAST COAST OF KAMCHATKA (218)

MAT	21.92	227	eP	01 44.00	-1.4
	1.0s	13.00nm		4.3mb	
FBA	28.97	46	eP	02 50.00	-0.7
	0.6s	1.30nm		3.8mb	
CHTO	56.84	256	e(P)	06 36.10	1.1
	0.6s	0.56nm		3.7mb	
BW06	58.33	60	eP	06 46.20	0.7
	1.0s	1.25nm		3.9mb	
NB2	62.80	343	P	07 13.60	-1.6
	0.6s	1.30nm		4.0mb	
HFS	63.18	341	eP	07 16.20	-1.4
	0.4s	2.20nm		4.4mb	
EKA	70.43	349	Pd	08 02.30	-0.9
	0.5s	1.90nm		4.2mb	
GBA	73.66	271	Pd	08 23.30	0.5
	0.7s	1.50nm		3.9mb	
CDF	75.49	340	eP	08 33.10	0.1
HAU	76.06	341	eP	08 36.20	0.0
BSF	76.14	341	eP	08 36.60	-0.1
FLN	76.50	346	eP	08 37.30	-1.3
LDF	76.61	345	eP	08 38.20	-1.0
GRR	76.92	346	eP	08 40.40	-0.5
LOR	77.24	342	eP	08 42.60	-0.1
	0.7s	3.30nm		4.2mb	
LPF	77.30	346	eP	08 42.60	-0.3
SSF	77.50	343	eP	08 44.20	0.1
	0.7s	2.20nm		4.0mb	
AVF	77.79	343	eP	08 45.90	0.2
	0.7s	3.30nm		4.2mb	
SMF	77.84	342	eP	08 46.10	0.1
LPL	78.36	340	eP	08 50.40	1.2
	0.7s	4.95nm		4.4mb	
LPG	78.38	340	eP	08 50.70	1.4
	0.7s	6.60nm		4.5mb	
TCF	78.48	343	eP	08 49.70	0.2
	0.5s	1.45nm		4.0mb	
MAF	78.48	343	eP	08 50.10	0.6
	0.7s	3.85nm		4.3mb	
MFF	78.56	345	eP	08 49.90	0.0
LSF	78.63	344	eP	08 50.40	0.1
	0.7s	3.85nm		4.3mb	
RJF	79.55	343	eP	08 55.90	0.6
CAF	79.82	343	eP	08 57.80	1.0
	0.7s	3.30nm		4.2mb	
LFF	80.03	344	eP	08 58.50	0.7
LPO	80.21	344	eP	08 59.50	0.7
	0.7s	4.40nm		4.3mb	

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

? SEP 08, 1991 22h 09m 23.67± 2.86s
16.579 N ±15.9km 147.616 E ±23.3km
DEPTH = 84.3 ± 24.3 km
4.3mb (3 obs.)
MARIANA ISLANDS REGION (215)

PJG	3.99	222	eP	10 23.70	0.0
			eS	11 12.00	
MAT	21.56	339	eP	14 08.00	0.2
		(S)		14 20.00	
WR2	38.56	200	iPc	16 40.30	0.3
	0.6s	4.40nm		4.5mb	
CHTO	46.31	280	eP	17 40.70	-2.4
	0.8s	2.20nm		4.1mb	
GUN	57.73	293	P	19 09.60	0.9
PKI	58.16	292	P	19 12.16	0.4
KKN	58.27	293	P	19 12.02	-0.3
DMN	58.43	292	P	19 14.14	0.6
GKN	58.82	293	P	19 16.90	0.8
GBA	67.52	278	Pc	20 24.90	11.5X
	0.5s	1.60nm			
YKA	79.00	28	eP	21 19.00	-0.5
	0.6s	2.30nm		4.2mb	

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

SEP 08, 1991 22h 43m 49.40± 0.49s
41.080 N ± 4.4km 22.462 E ± 4.2km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 1.7 (SKO). MD 2.4 (THE).

GRG	0.13	200	ePc	43 53.36	0.8
VAY	0.25	19	iPg	43 54.60	-0.2
			iSg	43 58.20	
KNT	0.34	76	ePd	43 56.88	0.5
			eS	44 01.64	
THE	0.59	139	iPc	44 00.89	-0.4
			eS	44 08.84	
SOH	0.72	111	ePc	44 03.52	-0.1
			eS	44 13.32	
SRS	0.86	87	iPc	44 05.88	0.0
			eS	44 17.40	
FNA	0.87	251	ePc	44 06.28	0.0
			eS	44 18.44	
LIT	0.98	179	ePc	44 07.40	-0.6
SKO	1.18	320	ePg	44 11.20	-0.2
			eSg	44 27.00	
OUR	1.37	122	ePc	44 14.80	0.2

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

SEP 08, 1991 23h 54m 41.57± 1.03s
36.626 N ± 4.9km 98.553 E ± 5.1km
DEPTH = 22.5 ± 8.3 km
4.8mb (18 obs)
QINGHAI, CHINA (325)

GTA	2.95	19	iPn	55 30.60	2.4
			iPg	55 33.60	
			Sg	56 06.00	
LZH	4.30	96	iPnd	55 47.50	0.0
	1.0s	120.00nm			
			Pg	55 59.50	
			Sn	56 37.50	
			Sg	56 52.50	
CD2	7.16	141	eP	56 29.70	2.1
XAN	8.86	104	P	56 46.40	-4.8X
LSA	9.28	224	iPd	57 01.00	3.5X
			eS	58 44.00	
BTO	9.81	63	P	57 02.00	-2.5
WMO	10.97	314	P	57 19.00	-1.3
	1.0s	40.00nm		5.6mb	
Z	10s	1.20um		4.5Msz	
			eS	59 21.00	
HHC	11.00	64	eP	57 17.70	-3.1X
	1.2s	300.00nm		6.4mb X	
TIY	11.13	80	eP	57 16.80	-5.7X
	1.0s	60.00nm		5.8mb	
Z	11s	1.00um		4.4Msz	
N	14s	1.90um			
GYA	12.26	143	P	57 36.80	-1.1
Z	12s	0.80um			
N	10s	0.80um			
E	10s	0.70um			
GUN	13.79	235	P	57 57.72	-0.6
	0.9s	110.00nm		5.7mb	
BJI	14.25	71	eP	58 04.50	0.6
KKN	14.27	236	P	58 02.56	-1.9
PKI	14.33	235	P	58 04.40	-1.0
	0.9s	119.00nm		5.5mb	
DMN	14.50	236	P	58 06.28	-1.3
GKN	14.56	238	P	58 08.00	-0.3
IRK	16.16	13	eP	58 31.00	2.2
			e	02 56.00	
			e	03 14.20	
			e	03 39.00	
CHG	17.75	179	eP	58 51.00	2.1
	1.0s	18.50nm		4.2mb	
CHTO	17.75	179	eP	58 50.90	2.0
	1.1s	18.55nm		4.1mb	
SSE	19.57	100	eP	59 09.50	-1.4
NDI	19.61	252	iPd	59 16.00	4.7X
QIZ	20.14	147	eP	59 15.40	-1.7
CN2	21.69	62	eP	59 31.40	-1.3
HYB	26.05	228	eP	00 16.00	1.0
QUE	27.07	266	eP	00 26.50	1.9
GBA	29.72	225	Pc	00 48.60	0.3
	0.5s	2.40nm		4.3mb	
MAIO	31.27	281	iPc	01 04.80	2.8X
KEV	49.80	334	eP	03 23.00	-11.1X
SOD	49.89	331	iP	03 34.40	-0.4
KAF	50.24	324	iP	03 37.60	0.1
	0.5s	3.00nm		4.5mb	
NUR	51.20	322	eP	03 44.70	-0.2
UPP	54.77	322	iP	04 11.20	-0.2
HFS	56.61	323	eP	04 23.70	-1.0
	0.5s	4.70nm		4.8mb	
NB2	57.51	325	P	04 30.20	-1.0
	0.6s	3.70nm		4.6mb	
PRU	59.48	312	Pc	04 45.20	0.3
BRG	59.50	313	iP	04 45.30	0.2
	0.8s	9.00nm		5.0mb	
CLL	59.89	314	eP	04 48.00	0.2
KHC	60.38	311	eP	04 51.80	0.6
GRF	61.57	312	iPc	05 00.10	0.8
	0.8s	6.00nm		4.8mb	
WLF	64.56	314	Pc	05 19.00	0.1
MBC	64.86	9	eP	05 20.00	-0.5
	1.0s	6.00nm		4.7mb	
WR2	65.65	143	iPc	05 25.90	-0.4
	0.6s	10.90nm		5.2mb	
			i	07 14.70	
EKA	66.79	322	P	05 33.00	-0.1
	0.2s	2.50nm		5.0mb	
INK	68.43	18	eP	05 43.00	-0.3
ASPA	68.62	145	iPd	05 45.20	0.2
	1.6s	10.80nm		4.7mb	
TOL	75.86	309	P	06 29.00	1.1
YKA	77.68	15	eP	06 36.60	-0.9
	0.9s	2.90nm		4.3mb	
RMO	78.58	135	eP	06 54.60	11.6X
FFC	87.32	12	eP	07 27.00	-0.6
	0.8s	10.00nm		5.1mb	
KIC	96.81	283	P	08 13.00	0.8
CNCB	156.93	325	PKPc	14 38.20	0.7

S.D. = 1.2 on 43 of 51 obs.

SEP 09, 1991 00h 11m 26.64± 0.51s
29.608 N ± 4.7km 128.619 E ± 4.8km
DEPTH = 238.7 ± 5.1 km
4.8mb (36 obs.)
NORTHWEST OF RYUKYU ISLANDS (234)

KAGJ	2.51	51	P	12 12.00	-1.6
			S	12 46.50	
KUMJ	3.48	32	iP+	12 24.70	0.4
SHNJ	4.98	25	iP+	12 42.40	0.1
SSE	6.59	285	P	13 02.50	-0.1
	1.0s	140.00nm		5.0mb	
			S	14 20.00	
NJ2	8.74	289	Pc	13 30.00	-0.2
QZH	10.06	245	Pc	13 47.00	0.1
	0.7s	100.00nm		5.1mb	
MAT	10.60	47	(P)	13 53.00	-0.9
	1.1s	21.52nm		4.3mb	
			eS	16 08.00	
DL2	10.93	330	P	13 58.80	0.9
	1.2s	70.00nm		4.7mb	
WHN	12.40	278	eP	14 16.50	0.1
SNY	12.86	343	Pc	14 24.00	1.9
	1.2s	200.00nm		5.3mb	
CVP	13.38	209	iPc	14 30.00	1.3
	0.5s	15.00nm		4.6mb	
PIP	13.39	215	iPd	14 27.50	-1.3
SZP	14.13	214	ePd	14 39.50	1.5
CN2	14.39	351	Pc	14 43.20	2.2
	3.0s	400.00nm		5.3mb	
			eS	17 22.00	
BJI	14.57	319	eP	14 44.50	1.3
	1.2s	170.00nm		5.3mb	
MDJ	15.00	3	eP	14 47.70	-0.7
	1.4s	100.00nm		5.1mb	
BAG	15.07	211	eP	14 48.50	-1.1
	1.0s	422.00nm		5.8mb	
TIY	15.70	305	iPc	14 57.20	0.2
	0.8s	100.00nm		5.3mb	
XAN	17.31	290	iPd	15 14.00	-1.0
	0.8s	60.00nm		5.1mb	
			S	18 21.00	
HHC	17.85	313	eP	15 20.30	-0.4
	1.0s	100.00nm		5.3mb	

BTO	18.72	311	P	15 29.00	-0.7
GYA	19.63	266	P	15 40.00	1.0
	1.0s	10.00nm		4.3mb	
DIZ	20.06	243	eP	15 43.80	0.6
CGP	21.36	191	eP	15 56.00	0.0
CD2	21.51	280	eP	15 56.50	-0.9
LZH	21.76	294	Pd	15 59.80	-0.1
	1.5s	60.00nm		4.9mb	
		PP		16 45.00	
GTA	25.58	300	Pd	16 34.60	-1.1
	0.8s	20.00nm		4.8mb	
		PcP		20 00.00	
CHTO	29.04	255	eP	17 06.00	-0.8
	1.0s	4.25nm		4.1mb	
WMO	35.37	305	eP	17 59.50	-1.8
		PP		19 26.50	
PSI	38.87	232	iPd	18 32.50	2.0
		e		21 50.00	
WR2	49.58	173	iPc	19 54.80	-0.8
	0.7s	3.90nm		4.0mb	
ASPA	53.21	174	iPc	20 21.90	-0.7
	0.3s	5.50nm		4.5mb	
RSO	59.20	34	P	21 03.80	-1.0
FBA	60.92	29	P	21 14.80	-1.4
	0.7s	26.16nm		5.0mb	
INK	65.67	24	iPd	21 46.10	-0.9
	0.7s	22.00nm		5.0mb	
MBC	66.48	14	ePd	21 50.40	-1.6
	0.6s	9.00nm		4.7mb	
YKA	75.33	25	eP	22 44.60	-0.3
	0.8s	15.60nm		4.8mb	
HFS	76.00	332	eP	22 46.50	-2.2
	0.9s	9.20nm		4.5mb	
KSP	80.19	323	eP	23 11.30	-0.2
PNT	80.77	38	eP	23 15.00	0.4
	0.8s	14.00nm		4.7mb	
CLL	81.59	325	iPd	23 18.30	-0.5
	0.9s	14.00nm		4.7mb	
PRU	81.60	323	eP	23 19.00	0.1
KHC	82.62	323	eP	23 24.30	0.1
NEW	82.73	38	P	23 24.40	-0.4
	0 8s	17.50nm		4.8mb	
GRF	83.48	325	iPd	23 29.10	0.5
	1.0s	17.00nm		4.8mb	
WTS	84.12	328	eP	23 31.50	-0.1
	0.8s	8.00nm		4.6mb	
SES	84.48	34	ePd	23 34.20	0.6
ENN	85.35	328	eP	23 38.00	0.2
	0.8s	6.00nm		4.5mb	
FFC	85.43	27	iPd	23 38.50	0.3
	0.7s	35.00nm		5.3mb	
EKA	85.88	335	Pc	23 39.50	-0.9
	1.5s	24.70nm		4.8mb	
LRM	86.75	38	ePd	23 46.00	0.9
CMB	86.84	48	P	23 46.00	0.6
	0.7s	15.02nm		4.9mb	
BW06	90.32	39	P	24 01.90	-0.1
	1.0s	5.00nm		4.4mb	
PEC	91.40	49	P	24 06.90	0.1
PLM	91.92	50	P	24 09.10	-0.4
RSSD	92.26	35	P	24 11.00	0.1
	0.9s	16.26nm		5.1mb	
PV09	93.43	42	P	24 17.00	0.5
GOL	94.72	39	P	24 25.00	2.7
	0.7s	1.82nm		4.4mb	
ANMO	97.43	43	P	24 36.00	1.4
ALO	97.43	43	eP	24 36.00	1.4
KIC	122.70	301	PKP	29 55.40	-0.6
TIC	122.72	301	PKP	29 55.40	-0.6
ZOBO	159.69	53	PKP	31 00.80	1.9
		i		35 27.00	
LPB	159.89	53	ePKP	31 06.00	7.1X
CNCB	160.16	54	PKP	31 03.40	4.1X
		i		31 55.60	

S.D. = 1.1 on 63 of 65 obs.

? SEP 09, 1991 01h 56m 55.00± 11.26s
3.283 N ±12.7km 77.975 W ±94.6km
DEPTH = 33.0km (normal)
NEAR WEST COAST OF COLOMBIA (102)
MD 3.9 (UVC).

ANCC	1.13	78	iPc	57 14.82	0.2
			eS	57 31.20	
HOOC	1.35	82	eP	57 17.94	0.0
			eS	57 36.70	
CLMC	1.53	67	eP	57 20.22	-0.3
SILC	1.74	110	eP	57 23.28	-0.4
			eS	57 46.00	
BUGC	1.82	70	eP	57 25.00	0.4
PURC	1.87	121	eP	57 26.05	0.3
HOBC	2.12	60	eP	57 28.85	-0.1

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

? SEP 09, 1991 02h 20m 07.07± 5.65s
22.651 N ±48.0km 120.906 E ±12.0km
DEPTH = 10.0km (geophysicist)
TAIWAN (244)

TWG	0.23	42	iPc	20 11.30	-0.7
			eS	20 14.30	
TWM1	0.48	291	iPc	20 16.30	-0.5
			eS	20 23.00	
TWK	0.72	328	iPc	20 20.60	-0.7
			eS	20 30.50	
TWF1	0.79	27	iPc	20 20.60	-1.8
TWD	1.56	24	eP	20 34.90	0.1
TWQ	1.62	358	ePc	20 36.00	0.3
TWC	2.13	24	eP	20 44.10	0.9
SSE	8.41	2	ePn	22 14.20	2.3
	Z 10s		0.40um		
			eSg	24 31.50	

S.D. = 1.5 on 8 of 8 obs.

SEP 09, 1991 02h 21m 30.03± 0.88s
7.045 S ± 5.0km 150.523 E ± 6.6km
DEPTH = 47.8 ± 8.2 km
4.9mb (9 obs.)
NEW BRITAIN REGION, P.N.G. (192)

RAB	3.27	30	eP	22 20.00	-0.1
LAT	3.52	276	eP	22 22.60	-1.0
			eS	23 03.10	
PMG	4.08	235	eP	22 33.00	1.5
QIS	17.10	217	iPc	25 27.20	-0.1
	0.8s	87.00nm		4.9mb	
RMQ	19.41	185	eP	26 05.20	9.9X
	0.7s	25.00nm		4.6mb	
WR2	20.26	229	iPc	26 03.40	-0.9
	0.7s	85.20nm		5.2mb	
			eS	29 09.10	
OLP	20.33	196	iPc	26 04.70	-0.3
	0.3s	17.00nm		4.9mb	
BRS	20.35	174	eP	26 05.00	-0.2
DZM	21.43	136	iPc	26 16.40	0.1
ASPA	22.98	222	iPc	26 32.00	0.5
	0.9s	41.30nm		4.9mb	
			eS	30 34.00	
STK	26.08	197	eP	27 00.80	-0.2
	0.7s	7.70nm		4.4mb	
BWA	27.32	184	eP	27 12.00	-0.4
CAN	28.18	183	eP	27 19.80	-0.3
WARB	29.66	227	iPc	27 34.20	0.6
FORR	31.65	219	eP	27 51.00	0.0
KLB	39.12	227	eP	28 54.50	-0.3
MUN	40.45	228	eP	29 06.00	0.3
PSI	52.40	279	ePc	30 41.50	1.3
			e	33 00.00	
CHTO	56.96	298	eP	31 14.20	0.8
	1.0s	3.25nm		4.3mb	
GUN	71.37	302	P	32 48.50	0.6
PKI	71.66	302	P	32 49.96	0.4
	0.8s	21.00nm		5.1mb	
KKN	71.84	302	P	32 49.52	-1.0
DMN	71.93	302	P	32 50.00	-1.1
GKN	72.44	302	P	32 52.94	-1.1
	0.6s	19.00nm		5.2mb	
HYB	75.11	290	eP	33 09.00	-0.4
INK	91.35	21	eP	34 32.00	0 4
			pP	34 42.00	31kmX
MBC	96.82	14	eP	34 57.50	0.9

S.D. = 0.8 on 26 of 27 obs.

SEP 09, 1991 02h 32m 42.41± 0.38s
39.452 N ± 3.6km 21.600 E ± 3.7km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 3.1 (THE), 3.1 (ATH).

AGG	0.71	127	ePc	32 55.78	-0.7
			iS	33 05.82	
KZN	0.86	9	ePn	32 58.80	-0.3
LIT	0.94	46	ePc	33 00.54	0.1
			eS	33 14.54	
IGT	0.98	275	ePc	32 59.86	-1.2
			eS	33 13.82	
FNA	1.34	353	ePc	33 07.10	-0.1
			eS	33 26.78	
KEK	1.42	281	ePb	33 09.00	0.8
VLS	1.50	212	ePn	33 10.00	0.7
THE	1.58	41	ePc	33 11.42	1.0
GRG	1.62	22	ePc	33 10.94	-0.2
PAIG	1.67	73	ePd	33 11.62	-0.2
OHR	1.77	340	iPn	33 13.50	0.2
			iSn	33 38.50	
SOH	1.92	44	ePd	33 15.78	0.3
KNT	1.98	30	ePc	33 16.10	-0.2
VAY	2.01	21	ePn	33 16.50	-0.2
OUR	2.03	64	ePc	33 16.74	-0.3
SRS	2.26	42	ePd	33 20.54	0.2
SKO	2.52	357	ePn	33 24.00	0.0
			i	34 01.70	
VLI	2.93	158	ePn	33 30.00	0.2

S.D. = 0.6 on 18 of 18 obs.

SEP 09, 1991 02h 40m 29.00± 0.34s
41.924 N ± 7.7km 84.860 E ± 5.5km
DEPTH = 10.0km (geophysicist)
4.5mb (19 obs.)
SOUTHERN XINJIANG, CHINA (321)

WMQ	2.82	47	iPnc	41 17.70	2.7
			Sg	41 55.00	
GAR	11.46	260	eP	43 17.00	1.2
GTA	11.63	98	eP	43 15.80	-2.4
HHC	20.04	84	P	45 05.80	0.8
TIY	21.55	92	eP	45 19.40	-1.2
GYA	23.64	124	P	45 42.60	1.4
HYB	25.02	194	eP	45 56.00	1.5
CHTO	25.97	148	eP	46 02.60	-0.9
	0.7s	1.59nm		3.8mb	
GBA	28.94	195	Pd	46 30.60	0.1
	0.6s	3.00nm		4.3mb	
NB2	46.86	320	P	49 00.10	-0.6
	0.4s	0.90nm		4.2mb	
CLL	48.39	307	iP	49 13.50	0.8
	0.9s	6.00nm		4.7mb	
CDF	52.89	305	eP	49 47.00	-0.2
BSF	53.43	305	eP	49 51.00	-0.1
LPG	54.46	302	iPc	49 59.60	0.6
	0.6s	9.90nm		5.0mb	
LPL	54.46	302	iPc	49 59.60	0.7
	0.5s	12.40nm		5.2mb	
LOR	55.46	305	eP	50 05.20	-0.8
	0.7s	2.75nm		4.4mb	
SMF	55.76	305	iPc	50 07.70	-0 4
	0.6s	4.05nm		4.6mb	
AVF	55.99	305	eP	50 09.40	-0.3
	0.7s	2.20nm		4.3mb	
BGF	56.41	305	eP	50 13.10	0.4
	0.5s	2.20nm		4.4mb	
MAF	56.73	305	eP	50 15.10	0.0
	0.6s	2.70nm		4.5mb	
TCF	56.92	305	iPc	50 16.50	0.0
	0.5s	2.90nm		4.6mb	
LDF	57.24	308	eP	50 17.90	-0.7
LSF	57.36	305	eP	50 18.90	-0.6
	0.5s	1.45nm		4.3mb	
FLN	57.37	308	eP	50 18.70	-0.9
GRR	57.77	308	eP	50 21.70	-0.6
	0.5s	2.90nm		4.6mb	
RJF	57.82	304	eP	50 23.10	0.4
	0.7s	5.50nm		4.7mb	
LPF	58.05	308	eP	50 23.50	-0.8
MFF	58.20	306	eP	50 24.90	-0.5
LPO	58.32	304	eP	50 26.50	0.2
	0.5s	2.90nm		4.6mb	
LFF	58.47	304	eP	50 27.80	0.5
	0.6s	4.50nm		4.7mb	
EPF	59.68	302	eP	50 35.10	-0.7
MBC	61.09	6	eP	50 44.00	-0.9
INK	66.39	15	eP	51 22.00	2.3
YKA	74.76	9	eP	52 09.30	-1.1
	0.8s	0.80nm		3.8mb	
WR2	76.69	133	iPc	52 21.90	-0.1
	0.5s	9.90nm		5.2mb	

S.D. = 1.0 on 35 of 35 obs.

---

* SEP 09, 1991 02h 50m 01.24± 0.66s
64.862 S ±14.5km 170.883 W ±16.1km
DEPTH = 10.0km (geophysicist)

09d 02h

4.9mb (4 obs.) 4.6Msz (1 obs.)
PACIFIC-ANTARCTIC RIDGE (691)

SPA	25.29	180	iPc	55 29.50	0.5
	1.3s	24.17nm		4.7mb	
	Z 18s	1.90um		4.6Msz	
NVL	44.63	181	eP	58 14.00	-0.7
			e	59 19.00	
			e	59 35.00	
			(S)	04 58.00	
			e	05 38.00	
			eSS	08 26.00	
SNA	44.86	175	iPd	58 16.70	0.1
	1.2s	59.38nm		5.4mb	
ASPA	54.24	292	iPd	59 29.60	0.4
	1.7s	10.30nm		4.6mb	
ARE	79.18	105	eP	02 08.00	0.0
CNCB	80.30	109	P	02 14.60	0.3
LPB	80.50	108	P	02 15.90	0.7
CCH	80.52	111	P	02 15.30	0.1
ZOBO	80.73	108	P	02 15.80	-0.8
	1.0s	18.00nm		5.0mb	
		LR		27 48.00	
SES	123.87	42	ePKP	09 01.00	1.3
MBC	144.52	19	ePKP	09 35.50	-1.8
	1.0s	8.00nm			
TOL	153.83	157	ePKP	10 06.00	13.2X
S.D. = 0.9		on	11 of	12 obs.	

? SEP 09, 1991 03h 16m 42.87±10.89s
4.757 N ±79.6km 76.802 W ±46.5km
DEPTH = 33.0km (normal)
COLOMBIA (103)
MD 3.9 (UVC).

HOBC	0.78	121	iPd	16 57.49	0.0
			eS	17 08.20	
CLMC	0.90	165	iPd	17 00.33	1.0
BUGC	1.02	148	iPd	17 00.81	-0.1
			eS	17 14.00	
ANCC	1.24	183	iPd	17 04.15	0.2
			eS	17 19.80	
HOOC	1.29	173	iPd	17 04.52	-0.5
			eS	17 20.60	
SILC	2.11	167	ePd	17 16.49	-0.4
			eS	17 41.50	
PURC	2.46	170	ePc	17 21.84	-0.2
			eS	17 50.80	
S.D. = 0.6		on	7 of	7 obs.	

* SEP 09, 1991 03h 56m 56.66± 0.45s
1.790 N ± 9.1km 122.950 E ±10.7km
DEPTH = 33.5km (5 depth phases)
4.6mb (5 obs.)
MINAHASSA PENINSULA, SULAWESI (265)

TSM	5.65	296	eP	58 18.50	-2.0
DAV	5.88	26	eP	58 23.00	-0.8
CVP	15.85	356	iPd	00 44.50	5.4X
	1.0s	90	00nm	4.9mb	
SNG	22.89	284	eP	02 06.60	7.9X
PSI	24.02	273	ePc	02 13.60	3.9X
			e	04 50.00	
WR2	24.33	153	eP	02 11.80	-0.9
	0.5s	33.90nm		5.2mb	
			i	02 21.60	36km
ASPA	27.46	158	iPd	02 41.00	-0.8
	1.3s	10.10nm		4.3mb	
OIS	27.56	145	eP	02 42.00	-0.7
			e	02 51.00	32km
CHTO	28.98	307	eP	02 56.00	0.4
	1.0s	3.25nm		4.0mb	
			pP	03 06.00	36km
KMI	30.30	322	eP	03 08.50	0.9
STK	37.87	154	eP	04 11.90	-0.4
	0.5s	4.30nm		4.6mb	
SHL	38.13	311	eP	04 14.60	-0.3
BWA	43.24	149	eP	04 58.50	1.8
			i	05 08.20	32km
GUN	43.93	310	P	05 02.90	0.2
PKI	44.12	309	P	05 05.84	1.5
CAN	44.23	149	iPc	05 05.50	0.8
			i	05 15.20	32km
KKN	44.33	309	P	05 05.58	-0.3
DMN	44.38	309	P	05 06.68	0.4
CNB	44.42	149	eP	05 17.60	11 3X
	1.0s	25.00nm			

GKN	44.93	309	P	05 11.06	0.4
GBA	46.51	287	Pc	05 37.20	14.2X
	0.6s	0.90nm			
GAR	60.52	315	eP	07 06.00	-0.2
S.D. = 1.0		on	17 of	22 obs.	

SEP 09, 1991 04h 04m 40.75± 0.35s
46.328 N ± 3.6km 2.723 E ± 3.7km
DEPTH = 22.9 ± 5.3 km
FRANCE (538)
ML 3.0 (LDG).

MAF	0.15	226	Pg	04 46.00	0.3
			Sg	04 49.20	
BGF	0.25	20	Pg	04 47.00	0.2
			Sg	04 51.00	
TCF	0.36	264	Pg	04 49.20	0.6
AGO	0.40	134	Pg	04 49.35	0.2
			Sg	04 54.72	
PYM	0.61	161	Pg	04 53.10	0.3
			Sg	05 01.09	
AVF	0.63	43	Pg	04 53.20	0.1
			Sg	05 01.40	
PLDF	0.72	120	Pg	04 54.67	0.1
			Sg	05 04.02	
LSF	0.83	265	Pg	04 57.10	0.7
			Sg	05 07.80	
SMF	0.84	67	Pg	04 56.40	-0.1
			Sg	05 07.00	
SSF	0.91	36	Pg	04 57.80	0.0
			Sg	05 09.60	
GRC	1.00	14	Pg	04 59.68	0.4
			Sg	05 12.53	
COLF	1.06	140	Pg	05 01.00	0.8
			Sg	05 14.87	
LBF	1.09	52	Pn	05 00.00	-0.6
			Pg	05 01.10	
			Sg	05 15.30	
LBL	1.16	161	Pg	05 02.48	0.9
			Sg	05 17.54	
LOR	1.22	39	Pn	05 01.80	-0.7
			Pg	05 03.40	
			Sg	05 19.20	
RJF	1.33	220	Pn	05 03.50	-0.5
			Pg	05 05.60	
			Sg	05 22.60	
CAF	1.48	198	Pn	05 04.40	-1.7
			Pg	05 08.60	
			Sg	05 26.80	
LFF	1.97	226	Pn	05 12.60	-0.6
			Pg	05 18.20	
			Sg	05 42.60	
LPO	1.97	214	Pg	05 17.80	4.6X
MFF	2.00	279	Pn	05 13.60	-0.1
			Pg	05 17.60	
			Sg	05 42.00	
LDF	2.98	321	Pg	05 35.00	7.5X
			Sg	06 14.40	
S.D. = 0.7		on	19 of	21 obs.	

SEP 09, 1991 04h 25m 28.29± 0.46s
39.577 N ± 6.2km 20.478 E ± 3.9km
DEPTH = 5.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
MD 3.1 (ATH), 3.1 (THE).

KEK	0.54	285	ePb	25 39.00	-0.1
KZN	1.23	53	ePb	25 50.20	-1.5
FNA	1.39	29	ePd	25 53.84	-0.5
			eS	26 12.88	
VLS	1.40	176	ePb	25 55.10	0.6
AGG	1.54	110	ePc	25 56.72	0.2
			eS	26 17.80	
OHR	1.55	9	ePn	25 56.50	-0.2
LIT	1.64	71	ePc	25 58.12	0.3
			eS	26 20.76	
GRG	2.02	46	ePc	26 04.08	0.7
LCI	2.08	292	P	26 08.40	4.1X
VAY	2.36	42	ePn	26 09.20	0.9
KNT	2.43	49	ePd	26 09.56	0.2
			iS	26 39.78	
SKO	2.50	17	ePn	26 12.00	1.7
			e	26 43.00	
			i	26 45.50	
SOH	2.53	60	ePd	26 10.60	-0.1
OUR	2.80	73	ePc	26 13.48	-1.0
BRT	2.82	298	P	26 21.50	6.6X

SRS	2.83	56	iPd	26 14.72	-0.4
ROI	3.02	271	P	26 16.20	-1.5
			eSn	26 49.60	
CZI	3.38	265	P	26 22.30	-0.5
			eSn	27 00.40	
MGR	3.83	280	P	26 33.00	3.8X
SGO	4.09	286	P	26 33.50	0.8
ATN	4.16	252	P	26 34.50	0.6
S.D. = 0.9		on	18 of	21 obs.	

SEP 09, 1991 05h 37m 17.68± 0.53s
31.756 S ± 4.4km 179.977 W ±11.4km
DEPTH = 535.3 ± 6.8 km
5.2mb (5 obs.)
KERMADEC ISLANDS REGION (177)

HBZ	6.00	193	P	38 56.50	0.2
KUZ	6.12	214	eP	38 58.60	1.1
			S	40 17.80	
WCZ	6.30	227	P	38 59.30	0.1
OUZ	6.38	236	P	38 59.20	-0.8
URZ	6.91	199	eP	39 04.10	-0.9
			eS	40 25.60	
NOZ	7.04	193	eP	39 06.80	0.6
PATZ	7.29	204	eP	39 10.10	1.2
WHH	7.67	201	eP	39 12.70	0.0
MOZ	7.97	211	eP	39 16.00	0.4
NGZ	8.23	205	eP	39 18.50	0.1
RUZ	8.29	206	P	39 19.00	0.2
PGZ	9.35	198	eP	39 30.30	0.7
	0.4s	34.00nm		5.0mb	
MNG	9.57	201	P	39 30.60	-1.3
	0.1s	39.00nm		5.7mb	
			eS	41 14.30	
KIW	9.98	203	P	39 35.10	-1.0
AMW	10.13	199	P	39 38.00	0.4
CAW	10.15	202	P	39 37.10	-0.7
WDW	10.32	202	P	39 38.70	-0.8
MOW	10.38	200	P	39 40.10	-0.1
MRW	10.38	203	P	39 39.50	-0.6
			eS	41 30.80	
TCW	10.51	204	P	39 40.50	-0.9
THZ	11.50	208	eP	39 51.60	-0.1
			eS	41 50.50	
KHZ	11.83	204	P	39 54.90	-0.1
			S	41 59.30	
DSZ	11.95	211	P	39 56.70	0 4
LTZ	12.61	207	P	40 02.50	-0.6
MOZ	13.27	204	eP	40 09.70	0 0
			eS	42 25.70	
WVZ	13.48	210	eP	40 11.10	-0.7
SVA	13.65	354	ePd	40 13.50	-0.1
VUN	13.76	354	ePd	40 14.30	-0.4
EWZ	13.79	209	eP	40 15.20	0.3
MBU	14.77	355	eP	40 26.00	1.1
BWZ	15.03	209	eP	40 26.70	-0.5
ODZ	15.15	206	eP	40 30.20	1.7
DZM	15.47	305	iPc	40 31.00	-0.8
LSCZ	15.71	209	eP	40 34.60	0.5
MMCZ	15.72	210	eP	40 34.30	0.0
CMCZ	15.78	209	eP	40 35.80	1.0
RMO	27.76	273	iPc	42 36.00	11.0X
			iPcP	45 40.30	
			eS	48 34.30	
CTAO	32.39	283	iPd	43 05.00	0.4
	1.0s	37.50nm		4.9mb	
			iS	47 40.00	
OIS	37.76	277	iPd	43 48.70	-0.5
ASPA	41.37	269	iPd	44 18.60	0.2
	0.7s	31.40nm		5.0mb	
			eS	49 51.70	
WR2	42.46	275	iPc	44 27.00	0.0
	0.4s	100.00nm		5.7mb	
			i	44 50.20	
			eS	49 16.40	
FORR	44.02	257	eP	44 40.00	0.8
NANU	57.39	262	eP	46 17.50	0.5
CHTO	92.45	291	eP	49 31.80	-0.6
	0.9s	1.49nm		4.1mb X	
YKA	107.40	26	ePKP	54 50.20	6.5X
	0.5s	0.50nm			
MBC	114.11	13	ePKP	55 02.00	5.8X
KEV	139.05	346	ePKP	55 55.00	11.2X
SOD	141.05	344	ePKP	55 47.00	-0.4
AKU	144.29	13	iPKP	56 00.40	7.4X
	0.6s	29.33nm			
KAF	145.22	339	ePKP	56 00.30	5.6X

```
        0.3s     21.20nm
OBN   145.26 323 iPKPd 56 01.00    6.0X
        0.8s    ********nm
                  e     56 20.00
                  e     56 30.00
NUR   146.96 338 iPKP  56 05.80    8.3X
        0.8s     90.90nm
UPP   149.53 342 iPKP  56 11.70   10.2X
        0.6s    100.00nm
                  i     56 18.40
NB2   149.80 349 PKP   56 13.40   11.4X
        0.7s     26.60nm
HFS   150.19 346 ePKP  56 13.30   10.8X
        0.8s     30.50nm
LIC   154.16 168 PKP   56 18.30    8.7X
KIC   154.34 169 PKP   56 18.30    8.5X
TIC   154.58 168 PKP   56 18.60    8.5X
      S.D. = 0.7  on  44 of  58 obs.
-------------------------------------
*  SEP  09, 1991  06h 18m 43.84± 1.38s
   2.198 S ±14.7km  141.321 E ±22.6km
   DEPTH =  33.0km  (normal)
   4.1mb (  3 obs.)
 NEAR N COAST OF NEW GUINEA, PNG.(200)

MNDI    4.57 149 eP    19 53.00    0.3
OIS    18.32 185 eP    22 56.20   -1.1
WR2    18.91 201 eP    23 05.00    0.5
        0.5s     6.40nm          4.1mb
                  eS    26 32.70
ASPA   22.52 198 eP    23 42.60    0.3
        1.0s     8.60nm          4.2mb
RMO    25.18 164 iPd   24 18.30   10.3X
CHTO   46.61 299 e(P)  27 11.50    0.5
        1.0s     2.00nm          4.0mb
KKN    61.52 303 P     29 00.00   -0.6
CNCB  145.46 124 PKP   38 27.00    5.1X
LPB   145.50 124 PKP   38 27.00    5.2X
ZOBO  145.61 123 PKP   38 27.00    4.8X
KIC   145.91 278 PKP   38 32.90   10.8X
CCH   146.65 127 PKP   38 30.30    6.8X
      S.D. = 0.9  on   6 of  12 obs.
-------------------------------------
%  SEP  09, 1991  06h 32m 08.80± 1.64s
   11.226 N ± 7.4km   61.979 W ±18.0km
   DEPTH =  33.0km  (normal)
 WINDWARD ISLANDS                ( 95)

TCE     0.57 157 iPc   32 19.71   -0.7
                eS    32 28.88
TRN     0.81 135 iPc   32 22.88   -0.8
                eS    32 36.36
GRW     0.98  19 eP    32 27.81    1.5
                eS    32 41.97
TPP     1.04 150 eP    32 28.31    1.2
                eS    32 42.46
PIG     1.12  93 eP    32 28.54    0.4
                eS    32 46.22
TBH     1.16 129 eP    32 29.07    0.3
                eS    32 46.39
TPR     1.18  92 eP    32 29.10    0.0
                eS    32 48.24
BOT     1.24  93 eP    32 29.49   -0.4
                eS    32 49.22
SVB     2.15  19 eP    32 41.57   -1.5
                eS    33 10.25
      S.D. = 1.1  on   9 of   9 obs.
-------------------------------------
*  SEP  09, 1991  07h 43m 03.46± 0.72s
   53.892 N ±14.1km  161.625 E ±10.4km
   DEPTH =  33.0km  (normal)
   4.7mb ( 12 obs.) 4.6Msz (  1 obs.)
 OFF EAST COAST OF KAMCHATKA     (219)

YAK    18.61 309 eP    47 19.00   -0.8
MAT    23.76 233 (P)   48 15.00    1.5
        1.0s    22.00nm          4.6mb
CN2   25.59 262 eP    48 29.70   -1.3
      Z  18s     1.50um          4.6Msz
      N  15s     0.30um
      E  15s     0.50um
                epP   48 37.00   26kmX
FBA    27.21  46 ePd  48 45.40   -0.3
        0.8s    13.10nm          4.6mb
INK    32.68  39 eP    49 34.00   -0.1
WHN    41.06 255 eP    50 43.50   -1.7
YKA    41.95  44 eP    50 52.00   -0.2
        0.8s     1.30nm          3.7mb
GTA    43.43 277 eP    51 05.00    0.3
        0.8s    10.00nm          4.6mb
      Z  12s     0.30um          4.4MszX
      E  10s     0.30um
WMO    47.57 290 P     51 37.50   -0.1
      Z  16s     1.40um          5.0MszX
GYA    48.56 258 P     51 47.60    2.1
SOD    54.46 340 eP    52 37.00    7.7X
RSSD   58.20  58 eP    52 55.50   -1.2
        0.8s     5.01nm          4.6mb
CHG    58.96 259 ePc   53 02.10    0.2
        0.9s    16.18nm          5.2mb
CHTO   58.96 259 iPc   53 02.00    0.1
        0.9s    14.71nm          5.1mb
                  pP    53 08.90   23kmX
KAF    59.10 337 iP    53 02.90    0.5
        0.4s     6.00nm          5.1mb
GUN    59.72 277 P     53 14.38    6.9X
KKN    60.16 277 P     53 10.12   -0.2
PKI    60.25 277 P     53 10.62   -0.5
GKN    60.38 278 P     53 11.64   -0.1
DMN    60.40 277 P     53 10.78   -1.2
NUR    60.90 337 eP    53 15.10    0.4
NB2    63.03 344 P     53 29.00    0.0
        0.7s     4.40nm          4.7mb
HFS    63.46 343 eP    53 31.20   -0.6
        0.6s     3.90nm          4.7mb
CLL    71.92 340 iPd   54 26.20    1.4
        1.0s    13.00nm          4.9mb
BRG    72.14 339 eP    54 28.50    2.4
GBA    75.72 273 Pc    54 46.60   -0.8
        1.0s     3.50nm          4.3mb
      S.D. = 1.1  on  24 of  26 obs.
-------------------------------------
&  SEP  09, 1991  07h 49m 55.60s
   34.140 N          117.430 W
   DEPTH =   5.0km
 SOUTHERN CALIFORNIA             ( 43)
      <PAS-P>. ML 2.9 (PAS). Felt at
      Son Bernardino.

RVR     0.15 163 iPd   49 58.90    0.1
SSK     0.23 288 iP    50 00.50    0.2
PEC     0.33 138 iPd   50 02.10   -0.2
MWC     0.53 279 iPc   50 05.70   -0.5
SBB     0.64 329 iPd   50 07.20   -1.2
PLM     0.92 149 iPd   50 12.30   -1.4
GSC     1.27  24 eP    50 18.90   -0.8
ABL     1.64 296 eP    50 24.50   -0.9
CLC     1.68 355 iPd   50 24.50   -1.3
BCH     2.42 296 eP    50 35.20   -1.4
      10 obs. ossociated
-------------------------------------
*  SEP  09, 1991  07h 50m 34.93± 0.74s
   21.199 S ± 8.5km   68.337 W ±15.6km
   DEPTH = 157.8 ± 17.3 km
 CHILE-BOLIVIA BORDER REGION     (124)

ANT     3.15 217 eP    51 25.00    0.0
                iS    51 58.50
CCH     4.32  29 P     51 40.50   -0.2
CNCB    4.38   4 P     51 42.00    0.4
LPB     4.65   3 P     51 45.30    0.3
ZOBO    4.91   2 P     51 48.00   -0.6
PPD    15.86  96 eP    54 11.30    0.5
VAO    19.88  99 eP    54 55.40   -0.7
KIC    68.11  74 P     01 20.40    0.3
      S.D. = 0.6  on   8 of   8 obs.
-------------------------------------
   SEP  09, 1991  09h 25m 46.00± 0.78s
   42.242 N ± 6.8km   25.392 E ± 6.5km
   DEPTH =  10.0km  (geophysicist)
 BULGARIA                        (359)
      MD 3.0 (THE).

DIM     0.22 151 iPgc  25 50.00   -0.7
                iSg   25 54.00
PLD     0.53 255 iPgc  25 56.00   -0.7
                iSg   26 04.00
KDZ     0.59 178 iPgc  25 57.00   -1.0
                iSg   26 05.00
RZN     0.75 223 iPgc  26 01.00    0.2
PVL     0.98 357 iPgc  26 04.00   -0.5
MMB     1.40 243 iPgd  26 13.00    1.4
                iSg   26 35.00
ALN     1.43 160 iPd   26 12.70    0.7
                eS    26 31.14
SRS     1.76 231 iPd   26 19.78    3.1X
KKB     1.76 258 iP    26 20.00    3.3X
                iS    26 44.00
DMK     1.81 103 ePn   26 18.10    0.6
SOH     2.09 228 ePd   26 25.78    4.3X
                eS    26 53.74
KNT     2.16 241 ePc   26 25.90    3.4X
                eS    26 55.90
OUR     2.18 210 ePc   26 26.34    3.5X
GRG     2.58 241 ePc   26 32.78    4.2X
                eS    27 07.30
CIN     5.08 155 eP    27 06.00    2.1X
      S.D. = 1.0  on   8 of  15 obs.
-------------------------------------
&  SEP  09, 1991  10h 21m 40.67s
   61.333 N          150.360 W
   DEPTH =  10.1km
 SOUTHERN ALASKA                 (  2)
      <AEIC>. ML 2.6 (AEIC).

SUA     0.23 306 iPd   21 46.47    0.8
                eS    21 50.76
PWA     0.39  36 iPc   21 48.88    0.1
                iS    21 55.31
PMS     0.40 103 iPc   21 49.01    0.2
PLRM    0.65  66 iPc   21 52.02   -1.5
                iS    22 00.54
CGLM    0.79 269 iPd   21 55.25   -0.9
GHO     0.82  57 ePc   21 55.11   -1.4
                eS    22 07.29
SLKM    0.83 175 ePc   21 55.76   -1.0
SPU     0.83 260 iPd   21 55.73   -1.1
                eS    22 08.49
SKT     0.86 320 iPd   21 56.45   -0.7
                eS    22 07.83
NCG     0.87 275 iPd   21 56.54   -0.9
                eS    22 08.38
KNK     0.92  84 iPc   21 57.90   -0.4
                eS    22 10.20
CKL     0.97 263 iPd   21 58.01   -1.1
                eS    22 10.59
BGL     0.98 267 ePd   21 58.28   -1.1
CUT     1.08   2 ePc   22 00.11   -0.8
                eS    22 14.05
SML     1.08  63 iPc   21 59.74   -1.3
RDT     1.26 234 iPc   22 02.73   -1.3
                iS    22 19.28
SEW     1.31 160 eP    22 04.22   -0.7
                S     22 21.34
DFR     1.36 238 eP    22 04.16   -1.5
                S     22 21.24
NNL     1.37 200 eP    22 06.23    0.4
REF     1.42 235 ePc   22 05.42   -1.3
                iS    22 24.44
RDN     1.43 236 eP    22 05.12   -1.7
                eS    22 23.68
RSO     1.46 234 ePc   22 05.93   -1.3
                eS    22 24.95
RS2     1.46 234 ePc   22 06.01   -1.3
                iS    22 25.13
RS1     1.46 234 ePc   22 06.02   -1.3
                eS    22 25.16
RDW     1.47 236 eP    22 06.12   -1.2
NCT     1.47 239 ePc   22 06.15   -1.2
                eS    22 24.85
RED     1.49 233 eP    22 05.98   -1.6
                eS    22 25.67
KNIM    1.62 126 iPc   22 08.67   -0.7
                S     22 28.59
GLI     1.65 105 ePd   22 09.24   -0.5
                S     22 29.69
LTI     1.79 135 ePc   22 11.13   -0.7
VZW     1.86  97 ePd   22 12.86   -0.1
                S     22 36.34
CNPM    1.86 194 eP    22 12.46   -0.5
VLZ     1.96  94 eP    22 13.26   -0.9
FID     1.98 106 eP    22 12.46   -2.1
TRF     2.13   1 eP    22 16.24   -0.6
TOA     2.14  67 eP    22 17.92    1.0
KLU     2.14  84 iPc   22 16.65   -0.3
KTH     2.24 354 eP    22 18.03   -0.4
SDG     2.57  60 eP    22 23.17    0.1
PAX     2.82  52 eP    22 27.17    0.4
GLB     3.15  85 eP    22 31.65    0.3
      41 obs. assaciated
-------------------------------------
```

09d 10h

& SEP 09, 1991 10h 57m 23.20s
38.752 N 119.752 W
DEPTH = 20.0km
CALIFORNIA-NEVADA BORDER REGION (40)
<BRK>. ML 3.3 (BRK).

CMB	0.87	215	iPd	57 38.83	-0.7
			iS	57 49.30	
KVN	1.32	76	eP	57 46.10	-0.7
BONR	1.39	124	eP	57 48.50	0.7
ORV	1.58	301	iPc	57 51.04	0.8
			iS	58 11.31	
FRI	1.76	179	iPd	57 54.18	1.3
			iS	58 16.90	
ARN	1.98	226	eP	57 58.20	2.0
BKS	2.14	247	e(P)	58 02.10	3.7
MIN	2.14	319	iPd	58 01.57	3.0
			iS	58 30.32	
SAO	2.39	215	eP	58 03.45	1.4
PCC	2.42	240	ePc	58 05.44	3.1
GCC	2.47	227	eP	58 13.41	10.3
PRS	2.74	209	eP	58 08.18	1.3
12 obs. associated					

? SEP 09, 1991 11h 10m 07.74± 5.34s
15.928 N ±14.2km 60.785 W ±44.8km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)
ML 1.8 (FDF).

DEG	0.47	325	ePc	10 17.89	0.0
			S	10 24.50	
MGG	0.51	269	ePd	10 18.45	-0.1
SFG	0.51	309	eP	10 18.51	0.0
BBL	0.78	239	eP	10 22.30	0.0
			S	10 30.96	
PAG	0.87	277	eP	10 23.70	0.1
			S	10 33.60	
S.D. = 0.1 on 5 of 5 obs.					

? SEP 09, 1991 14h 29m 49.51± 2.55s
13.059 N ±13.5km 146.173 E ±26.6km
DEPTH = 65.4 ± 17.5 km
4.7mb (6 obs.)
SOUTH OF MARIANA ISLANDS (210)

GUA	1.32	291	eP	30 13.20	0.9
			eS	30 29.30	
GUMO	1.38	293	P	30 12.00	-1.1
PJG	1.38	293	eP	30 13.00	-0.1
DAV	21.12	256	eP	34 24.00	-7.0X
CGP	21.59	260	eP	34 21.00	-14.7X
	1.0s		38.00nm		
CVP	23.92	284	eP	34 56.00	-2.5X
	0.8s		68.00nm	5.2mb	
BAG	24.97	281	eP	34 57.00	-11.8X
			e	35 22.90	
			eS	39 30.00	
HKC	31.79	291	e(P)	36 16.40	6.4X
CTAO	32.94	180	e(P)	36 21.00	1.0
DL2	33.69	324	eP	36 34.00	7.6X
Z	16s		1.70um	4.9MszX	
N	11s		1.20um		
WHN	34.12	306	P	36 33.50	3.3X
Z	26s		2.80um	4.9MszX	
			pP	36 44.50	40kmX
WR2	34.80	200	eP	36 34.90	-1.2
	0.5s		5.90nm	4.8mb	
TIA	34.81	317	eP	36 43.20	7.1X
Z	28s		4.10um	5.0MszX	
N	13s		2.00um		
BJI	37.65	321	eP	37 01.00	1.1
Z	30s		2.90um	4.9MszX	
N	22s		4.47um		
E	20s		2.80um		
ASPA	38.42	198	eP	37 07.50	0.9
	0.8s		8.30nm	4.7mb	
TIY	38.79	315	eP	37 10.00	0.3
Z	26s		3.70um	5.1MszX	
N	14s		2.20um		
GYA	39.33	296	P	37 18.40	4.0X
	1.6s		40.00nm	5.1mb	
Z	20s		2.50um	5.0Msz	
N	18s		2.30um		
E	18s		3.40um		
HHC	41.00	319	eP	37 29.50	1.6
Z	25s		4.10um	5.2MszX	
N	12s		0.90um		
E	12s		1.00um		
BTO	41.87	318	eP	37 34.00	-1.0
N	18s		2.10um		
E	18s		1.50um		
			PP	39 21.00	
KMI	42.59	293	eP	37 42.00	0.8
Z	25s		3.70um	5.2MszX	
LZH	44.34	309	eP	37 57.60	2.4X
	5.0s		220.00nm	5.2mb X	
Z	28s		3.43um	5.1MszX	
N	13s		1.61um		
			PP	39 42.00	
			eS	44 21.00	
			sS	44 44.00	
			SS	47 30.00	
BDT	45.64	281	eP	38 15.00	9.5X
CHTO	45.67	284	eP	38 03.60	-2.2
	1.0s		2.75nm	4.1mb	
GTA	48.47	312	eP	38 31.00	3.3X
Z	26s		2.30um	5.0MszX	
N	13s		0.80um		
YAK	50.30	350	eP	38 55.70	14.5X
			e	39 15.00	
			ipP	39 39.00	194kmX
			iPSP	39 54.00	
			ePP	40 58.00	
			ePPP	42 15.00	
			eS	46 29.00	
			ePS	46 46.00	
			eSS	49 59.00	
GAR	70.96	307	eP	41 00.00	-2.4X
			e	05 00.00	
			e	08 00.00	
OUE	74.33	298	e(P)	41 33.00	10.6X
NEW	84.78	42	e(P)	42 16.90	-1.1
	1.1s		1.85nm	4.1mb	
Z	21s		2.27um	5.5Msz	
ANMO	96.37	52	e(P)	43 20.00	7.0X
Z	20s		1.38um	5.4Msz	
KIC	145.26	302	PKP	49 24.38	2.0X
TIC	145.33	303	PKP	49 24.82	2.3X
S.D. = 1.4 on 13 of 31 obs.					

SEP 09, 1991 14h 30m 20.30± 0.35s
12.796 N ± 6.6km 143.927 E ± 7.2km
DEPTH = 33.0km (normal)
5.1mb (11 obs.) 5.5Msz (4 obs.)
SOUTH OF MARIANA ISLANDS (210)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 32C
Centroid Location:
Origin Time 14:30:22.1 0.6
Lat 12.83N FIX; Lon 143.91E FIX
Dep 33.0 FIX Half-duration 3.3
Moment Tensor: Scale 10**17 Nm
Mrr= 0.14 0.09 Mtt= 1.59 0.12
Mff=-1.72 0.13 Mrt= 1.16 0.22
Mrf=-0.49 0.23 Mtf=-1.07 0.12
Principal Axes:

	Val=	Plg=	Azm=
T	2.56	27	17
N	-0.51	62	187
P	-2.05	4	285

Best Double Couple: Mo=2.3*10**17
NP1: Strike= 58 Dip=68 Slip= 163
NP2: 154 74 23

GUA	1.21	52	e(P)	30 39.70	-1.3
BIP	17.96	257	ePd	34 29.50	0.3
LAT	19.56	171	eP	34 46.40	-2.1
OCP	22.27	277	eP	35 34.00	17.8X
KAKJ	23.55	352	P	35 28.30	-0.3
OZH	26.79	300	eP	36 00.00	0.7
Z	24s		6.10um	5.1MszX	
SSE	27.77	315	P	36 09.50	1.3
	1.5s		61.00nm	5.1mb	
Z	20s		2.40um	4.8Msz	
N	12s		0.60um		
E	12s		1.10um		
			PP	37 00.00	
NJ2	29.94	314	eP	36 26.00	-1.8
Z	15s		1.50um	4.8MszX	
N	12s		1.90um		
			eS	41 22.00	
CTAO	32.76	176	iP	36 52.00	-0.5
	1.5s		32.26nm	5.0mb	
			eS	42 00.00	
QIZ	33.32	285	eP	36 57.70	0.2
N	17s		2.30um		
E	20s		3.60um		
			eS	42 10.00	
WR2	33.87	196	eP	37 00.90	-1.3
	0.8s		21.60nm	5.1mb	
			eS	43 22.40	
SNY	33.93	332	eP	37 02.00	-0.4
Z	16s		4.10um	5.2MszX	
N	12s		1.60um		
E	12s		1.60um		
			eS	42 24.00	
ASPA	37.54	195	iPd	37 32.90	-0.4
	0.7s		31.60nm	5.3mb	
Z	23s		6.10um	5.3MszX	
			iPP	39 02.30	
			eS	43 17.80	
RMQ	39.33	173	eP	37 58.10	9.8X
BRS	40.86	168	eP	38 03.00	2.1
	1.0s		3.00nm	4.0mb X	
			eS	44 06.00	
LOE	40.94	282	eP	38 01.80	0.1
DZM	41.09	147	iPc	38 01.60	-1.3
NST	42.49	279	eP	38 16.00	1.6
SNG	42.98	267	iPc	38 19.40	1.0
	1.0s		102.00nm	5.5mb	
IPM	43.13	263	ePc	38 20.00	0.3
CHG	43.61	284	eP	38 24.00	0.5
CHTO	43.61	284	eP	38 23.10	-0.4
	1.3s		16.34nm	4.6mb	
COO	43.80	170	eP	38 30.00	5.1X
CMS	44.06	178	eP	38 27.00	0.1
STK	44.48	183	iPd	38 30.20	-0.1
	0.7s		3.20nm	4.3mb	
PSI	45.63	261	ePc	38 42.50	2.7X
			e	41 00.00	
BWA	47.15	175	eP	38 51.70	0.2
CAN	48.09	174	eP	39 00.70	1.8
BFD	49.72	181	eP	39 11.00	-0.3
TOO	50.12	178	eP	39 15.20	0.8
IRK	50.55	330	eP	39 27.00	9.4X
			e	39 40.00	
HYB	63.03	283	eP	40 45.00	-1.9
NDI	63.64	296	ePKP	40 48.00	-2.8
			ePP	44 16.00	
KOD	65.02	275	eP	40 56.10	-4.3X
POO	67.36	285	iPc	41 18.60	3.7X
INK	75.45	22	eP	42 08.00	5.6X
MAIO	78.10	305	eP	42 25.00	7.0X
			e	45 15.00	
MBC	79.26	14	eP	42 06.00	-17.5X
	0.8s		6.00nm		
			pP	42 33.50	106kmX
YKA	83.98	27	eP	42 49.80	1.5
	0.7s		2.30nm	4.5mb	
PNT	84.57	41	eP	42 59.00	7.4X
CMB	86.64	52	e(P)	43 02.00	-0.2
	1.2s		27.78nm	5.4mb	
BCH	87.54	55	P	43 09.30	2.6X
ABL	88.31	55	P	43 12.10	1.6
OBN	89.25	327	eP	43 18.00	3.8X
Z	20s		1.90um	5.5Msz	
N	18s		1.40um		
E	20s		1.50um		
			e	43 41.00	
			e	44 24.00	
			e	46 56.00	
CLC	89.35	54	eP	43 16.00	0.8
RVR	90.01	55	eP	43 20.00	1.8
PEC	90.20	55	eP	43 18.50	-0.7
PLM	90.59	56	eP	43 23.00	1.8
GLA	92.31	56	eP	43 29.00	0.1
BW06	93.17	45	eP	43 33.00	0.0
	0.8s		3.57nm	4.8mb	
RSSD	96.37	42	eP	43 45.00	-2.6
	1.5s		23.04nm	5.4mb	
Z	21s		1.30um	5.4Msz	
GRF	105.21	330	e(PKP)	48 45.00	4.0X
	1.3s		31.00nm		
Z	20s		2.10um	5.7Msz	
			e	52 31.00	
ARE	145.56	100	ePKP	50 01.00	2.9X
CNCB	148.91	101	ePKP	50 15.00	11.2X
CCH	150.63	103	PKP	50 14.20	8.1X
PPD	162.81	124	ePKP	50 22.90	2.2X
S.D. = 1.3 on 38 of 56 obs.					

```
---------------------------------------
% SEP 09, 1991  14h 45m 41.40± 1.79s
   44.140 N ±14.0km   11.813 E ±10.5km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                  (545)

SFI      0.22 173 Pc     45 47.10   0.9
                 eSg     45 51.20
PGD      0.27 194 Pc     45 47.50   0.3
                 eSg     45 52.10
CRE      0.52 169 P      45 51.00  -1.0
                 eSg     45 59.90
MME      0.80 274 P      45 58.10   0.9
                 eSg     46 09.00
BDI      0.88 265 P      45 57.20  -1.1
                 eSg     46 13.10
ARV      1.04 128 P      46 01.00   0.0
                 eSg     46 16.50
      S.D. = 1.2   on   6 of   6 obs.
---------------------------------------
? SEP 09, 1991  15h 01m 47.16± 5.49s
    5.623 S ±47.4km  149.493 E ±35.3km
   DEPTH = 150.6 ± 19.5 km
   4.2mb (  5 obs.)
 NEW BRITAIN REGION, P.N.G.      (192)

LAT      2.68 247 eP     02 30.90  -0.1
PMG      4.42 212 eP     02 54.00   0.3
CTAO    14.72 192 iPc    05 13.00   3.7X
        1.0s    22.50nm          4.5mb
QIS     17.68 212 eP     05 45.00  -0.6
        0.7s     5.00nm          4.0mb
WR2     20.48 225 eP     06 14.60  -0.3
        0.6s     6.00nm          4.2mb
RMQ     20.76 182 iPd    06 27.90  10.2X
        0.7s    12.00nm
BRS     21.87 172 iPc    06 28.60  -0.1
        0.9s     8.00nm          4.2mb
ASPA    23.39 218 eP     06 44.40   0.9
        0.5s     5.40nm          4.3mb
                 eS      10 45.20
     S.D. = 0.8   on   6 of   8 obs.
---------------------------------------
   SEP 09, 1991  15h 03m 43.12± 0.33s
   51.256 N ± 8.7km  178.199 W ± 3.5km
   DEPTH =  33.0km  (normal)
   4.9mb ( 40 obs.)  5.5Msz ( 16 obs.)
 ANDREANOF ISLANDS, ALEUTIAN IS. (  7)
      ML 5.1 (PMR). Felt (III) on
      Adak.

ADK      1.14  56 iPd    04 04.30   1.6
SMY      4.98 290 eP     05 00.50   3.0
SDN     11.35  62 eP     06 24.50  -1.3
SVW     15.89  43 eP     07 17.90  -7.8X
KDC     16.22  56 eP     07 27.00  -2.8X
TTA     16.68  37 eP     07 37.00   1.3
        1.1s    59.38nm          4.6mb
PMR     18.94  46 eP     08 05.50   1.9
IMA     19.36  31 eP     08 08 50  -0.1
        1.2s    57.40nm          4.7mb
KLU     20.38  47 eP     08 26.00   0.6
FBA     20.81  37 eP     08 25.00   1.3
        0.9s    62.50nm          5.0mb
INK     27.35  35 eP     09 26.00  -0.5
                 pP     09 54.00 132kmX
MBC     33.58  22 eP     10 22.00   0.4
        0.8s    12.00nm          4.9mb
MDJ     34.97 280 eP     10 32.60  -1.3
        0.9s    20.00nm          5.0mb
YKA     35.04  46 eP     10 33.90  -0 4
        0.7s     5.40nm          4.6mb
GMW     35.53  74 eP     10 40.00   1 4
BMW     35.76  76 eP     10 41.70   1.0
RMW     36.16  73 eP     10 44.50   0 4
LON     36.49  74 eP     10 47.00   0.2
PNT     36 63  69 eP     10 49.00   1 1
        0.6s    20.00nm          5.2mb
CN2     37.94 281 P      10 58.60  -0.3
     Z  20s    16.90um          5.8Msz
     N  15s     1.70um
     E  15s     5.50um
                epP     11 10.00  41kmX
DPW     38.12  71 eP     11 00.80   0.3
NEW     38.58  70 ePd    11 04.10  -0.2
        1.0s    35.00nm          5.1mb
     Z  20s     6.00um          5.4Msz

SNY     40.17 280 iPc    11 18.20   0.7
     Z  18s     9.00um          5.7Msz
     N  12s     3.90um
     E  16s     5.30um
SES     41.08  64 eP     11 25.00   0.1
KUMJ    41.36 263 eP     11 37.20   9.9X
KAGJ    42.24 262 eP     11 25.80  -8.8X
LRM     42.56  71 eP     11 37.70   0.3
PTI     44.24  74 eP     11 52.20   1.3
DUG     45.53  77 eP     12 02.00   0.7
        1.0s    22.50nm          5.0mb
BJI     45.77 283 eP     12 03.50   0.6
     Z  36s    13.90um          5.6MszX
     N  20s     8.93um
     E  18s     4.10um
SBB     45.84  87 eP     12 03.00  -0.7
BW06    45.98  72 eP     12 04.80  -0.1
        1.1s    34.72nm          5.2mb
MWC     45.99  88 eP     12 05.00  -0.1
GSC     46.08  85 eP     12 05.00  -0.7
DAU     46.35  76 eP     12 08.70   0.7
MSU     46.94  79 eP     12 13.00   0.4
PLM     47.32  88 eP     12 15.00  -0.5
TIA     47.55 278 eP     12 17.20   0.1
     Z  21s     9.80um          5.8Msz
     N  16s     6.30um
     E  16s     5.30um
HHC     48.09 286 P      12 22.40   1.0
     Z  16s    13.20um          6.0MszX
     N  16s     6.10um
     E  15s     5.10um
                PP      14 18.00
RSSD    48.46  68 eP     12 23.80  -0.6
        0.8s    10.02nm          4.9mb
     Z  22s     2.12um          5.1Msz
GLA     48.79  86 eP     12 27.00   0.2
BTO     49.17 287 P      12 30.50   0.8
     N  17s     4.70um
     E  17s     5.40um
NJ2     49.19 272 eP     12 29.00  -0.8
     Z  18s     4.40um          5.5Msz
TIY     49.50 283 Pc     12 32.70   0.4
     Z  26s     8.00um          5.6MszX
     E  13s     2.90um
GOL     50.35  73 ePd    12 39.00   0.0
        0.7s    12.74nm          5.0mb
     Z  21s     4.29um          5.4Msz
GLD     50.41  73 eP     12 39.80   0.5
        1.2s    30.30nm          5.2mb
     Z  20s     4.00um          5.4Msz
ANMO    52.75  79 ePd    12 56.20  -0.9
        1.1s     8.86nm          4.6mb
     Z  20s     2.45um          5.2Msz
ALQ     52.75  79 ePd    12 56.00  -1.1
        1.0s     7.75nm          4.6mb
     Z  20s     1.33um          5.0Msz
WHN     53.04 274 Pd     12 59.00   0.0
     Z  20s     8.10um          5.8Msz
XAN     54.05 281 P      13 05.40  -1.1
     N  12s     2.10um
     E  17s     6.80um
                PcP     14 12.00
                SS      24 16.00
LZH     55.78 287 Pc     13 19.50   0.3
        1.5s    60.00nm          5.4mb
GTA     55.96 292 iPc    13 20.30  -0.1
        0.8s    30.00nm          5.4mb
                pP      13 33.00  45kmX
TUL     58.56  71 iPc    13 37.80  -0.8
        0.6s    10.40nm          5.1mb
     Z  20s     1 32um          5.1Msz
     N  20s     0.35um
     E  22s     0.89um
                LR      22 42.00
GZH     58.95 269 P      13 44.00   2.5
     Z  35s     9.80um          5.7MszX
     E  10s     1 40um
CD2     59.37 282 eP     13 43.80  -0.6
     Z  20s     5.60um          5.7Msz
     N  15s     5.30um
WMQ     59.72 303 eP     13 45 00  -1.8
GYA     60.71 277 P      13 55.00   1.3
        1.2s    30.00nm          5.3mb
     Z  20s     7 50um          5.8Msz
     N  18s     3.40um
     E  18s    10 60um
KAF     65.31 348 eP     14 22 50  -1.0
        0.7s     6.40nm          4.8mb
NUR     67.08 348 eP     14 32.20  -2.5
NB2     67.80 355 P      14 37.40  -2.0
        0.9s     2.80nm          4.4mb
LSA     67.84 296 P      14 40.80   0.2
     Z  20s     5.60um          5.8Msz
HFS     68.55 354 ePKP   14 43.00  -0.9
        0.5s     1.80nm          4.4mb
     Z  17s     2.38um          5.5MszX
                LR      59 16.00
SHL     70.45 287 iP     14 55.50  -0.8
                eS      22 35.00
GUN     72.25 292 P      15 08.14   0.8
KKN     72.69 293 P      15 10.44   0.7
PKI     72.78 293 P      15 10.76   0.3
GKN     72.90 293 P      15 11.30   0.4
DMN     72.93 293 P      15 11.76   0.6
DMU     74.96   5 eP     15 22.60   0.4
DCN     75.50   6 eP     15 25.60   0.4
NDI     76.56 299 eP     15 31.00  -0.7
                eS      17 05.00
CTAO    77.59 214 iPc    15 37.00  -0.3
        1.0s    15.00nm          5.0mb
LDF     80.52   1 eP     15 52.60  -0.3
        0.8s    12.10nm          4.9mb
GRR     80.71   2 eP     15 53.30  -0.6
        1.0s    16.00nm          5.0mb
QUE     80.76 307 eP     15 55.60   0.8
                eS      18 02.50
VRI     80.89 343 eP     15 56.50   1.5
LPF     81.06   2 eP     15 55.40  -0.4
        0.8s    10.75nm          4.9mb
MLR     81.40 343 eP     16 00.00   2.2
SSF     82.05 359 eP     16 01.00   0.0
        0.8s     6.70nm          4.7mb
LBF     82.12 358 eP     16 00.90  -0.5
        0.8s     4.05nm          4.5mb
AVF     82.33 359 eP     16 02.00  -0 4
        0.8s     4.70nm          4.6mb
SMF     82.46 359 eP     16 02.80  -0.3
        0.8s     9.40nm          4.9mb
MFF     82.51   1 eP     16 02.30  -1.0
        0.8s    10.75nm          5.0mb
TCF     82.84 360 eP     16 03.60  -1.5
        0.6s     3.60nm          4.6mb
LSF     82.88   0 eP     16 04.70  -0.6
        0.8s    14.10nm          5.1mb
MAF     82.90 359 eP     16 05.20  -0.2
        0.8s     5.35nm          4.7mb
RJF     83.82   0 eP     16 09.20  -0.9
        0.8s     5.35nm          4.7mb
     Z  20s     0.75um          5.1Msz
LFF     84.18   1 eP     16 10.20  -1.7
        0.8s    13.45nm          5.2mb
CAF     84.20 360 eP     16 10.20  -1.9
        0.8s     5.35nm          4.8mb
LPO     84.44   0 eP     16 11.30  -1.9
        0.8s    12.10nm          5.1mb
HYB     84.61 291 ePd    16 14.70   0.2
                e       16 57.00
MME     84.62 354 P      16 16.20   1.7
SFI     84.80 353 P      16 17.00   2.0
PGD     84.86 353 P      16 17.00   1.4
SBF     85.14 356 eP     16 15.50  -1.3
        0.8s    21.50nm          5.4mb
PGF     86.37 355 eP     16 21.00  -2.0
        0.8s    16.10nm          5.3mb
POO     86.45 295 iP     16 29.00   5.3X
BOM     86.74 296 eP     16 24.00  -1.0
                eS      26 27.00
KOD     90.91 287 eP     16 48.20   3.0X
TIC    122.03   8 PKP    22 35.00  -0.8
KIC    122.34   8 PKP    22 35.60  -0.8
     S.D. = 1.1  on  95 of 101 obs.
---------------------------------------
   SEP 09, 1991  15h 06m 30.36± 0.27s
   12.678 N ± 4.3km  144.008 E ± 5.5km
   DEPTH =  30.1km  (  8 depth phases)
   5.0mb ( 15 obs.)  5.6Msz (  9 obs.)
 SOUTH OF MARIANA ISLANDS        (210)
      CENTROID, MOMENT TENSOR    (HRV)
      Data Used: GDSN
      L.P.B.: 28S, 69C
      Centroid Location:
      Origin Time       15:06:31.5 0.3
      Lat 12.55N 0.04 Lon 143.93E 0.04
      Dep  15.0 FIX Half-duration  3.0
```

Moment Tensor; Scale 10**17 Nm
Mrr=-0.93 0.15 Mtt= 1.67 0.20
Mff=-0.74 0.20 Mrt=-2.13 0.56
Mrf= 0.64 0.56 Mtf=-5.26 0.16
Principal Axes:
T Val= 6.45 Plg=16 Azm=217
N -1.34 70 77
P -5.12 12 311
Best Double Couple:Mo=5.8*10**17
NP1:Strike=355 Dip=70 Slip= 2
NP2: 264 88 160

GUA 1.23 46 ePc 06 49.60 -1.9
eS 07 06.30
PJG 1.23 43 ePc 06 49.20 -2.4
BIP 18.01 258 eP 10 38.00 -2.2
RAB 18.62 154 eP 10 48.00 0.3
iS 14 16.00
DAV 18.98 255 eP 10 50.00 -2.2
LAT 19.43 171 iPd 10 58.90 1.4
CGP 19.44 259 eP 10 58.00 0.5
1.8s 177.00nm 5.0mb
MAP 19.76 265 eP 11 01.00 0.0
CVP 21.98 286 iPc 11 30.00 6.3X
0.5s 36.00nm 5.1mb
PMG 22.16 172 eP 11 26.00 0.4
WKYJ 22.77 342 eP 11 35.00 3.5X
BAG 22.97 282 eP 11 35.00 1.2
eS 15 42.00
CHJJ 23.70 350 eP 11 41.20 0.7
MAT 24.33 349 eP 11 46.00 -0.6
1.2s 53.13nm 5.0mb
Z 20s 8.16um 5.2Msz
eS 16 02.00
YONJ 24.36 339 eP 11 47.90 1.0
MTMJ 24.45 348 P 11 49.50 1.6
NIIJ 24.87 350 iPd 11 52.20 0.5
YAMJ 25.64 353 eP 12 02.50 3.5X
SSE 27.90 315 Pc 12 20.00 0.2
8.0s 400.00nm 5.2mb X
Z 20s 6.90um 5.2Msz
N 14s 2.90um
E 16s 5.10um
pP 12 33.00 52kmX
MTN 28.39 207 eP 12 23.00 -1.4
CTAO 32.63 176 iPd 13 02.00 0.1
1.5s 75.27nm 5.4mb
eS 18 00.00
DL2 32.81 327 eP 13 03.00 -0.2
1.0s 100.00nm 5.7mb
Z 22s 4.90um 5.2Msz
N 11s 2.60um
pP 13 11.00 28km
QIS 33.31 188 iPc 13 07.10 -0.7
1.3s 153.00nm 5.8mb
QIZ 33.43 285 eP 13 08.60 -0.3
N 14s 3.70um
E 18s 5.00um
WR2 33.78 196 eP 13 09.90 -2.0
0.6s 33.70nm 5.4mb
i 13 19.50 33km
eS 19 33.50
MDJ 34.14 342 eP 13 13.50 -1.2
Z 20s 9.00um 5.5Msz
N 15s 2.40um
E 15s 7.70um
eS 18 36.00
CN2 34.88 336 eP 13 21.80 0.7
BJI 36.65 323 eP 13 35.00 -1.1
1 5s 35.00nm 5.0mb
ASPA 37.45 195 iPc 13 42.90 -0.1
1.7s 33.40nm 4.9mb
Z 21s 14.80um 5.8Msz
i 15 11.60 470kmX
eS 19 25.40
GYA 37.61 297 P 13 45.20 0.7
S 19 34.00
OLP 39.03 180 eP 13 55.80 -0.3
BRS 40.73 168 eP 14 12.00 1.7
2.0s 3.90nm 3.8mb X
i 14 20.00 27km
i 16 04.00
eS 20 21.00
BTO 40.75 319 P 14 11.20 0.7
KMI 40.80 294 eP 14 12.00 0.8
Z 28s 8.30um 5.4MszX
pP 14 21.50 32km

S 20 25.00
DZM 40.95 147 iPc 14 13.20 1.0
LOE 41.04 282 eP 14 13.80 0.8
MBL 41.17 215 iPd 14 10.60 -3.3X
0.6s 6.00nm 4.5mb
NST 42.59 279 eP 14 34.00 8.3X
LZH 42.95 310 eP 14 27.50 -1.1
5.0s 370.00nm 5.4mb X
Z 22s 9.13um 5.6Msz
N 14s 4.21um
E 15s 3.15um
pP 14 35.00 25km
sP 14 45.00
PP 16 10.00
S 20 50.00
SS 23 54.00
IPM 43.20 263 ePd 14 31.70 1.0
BDT 43.64 282 eP 14 34.80 0.6
CHG 43.71 284 eP 14 37.10 2.3
CHTO 43.71 284 eP 14 33.90 -0.9
1.7s 25.15nm 4.7mb
CMS 43.95 178 eP 14 36.00 -0.4
STK 44.36 183 iPd 14 39.50 -0.3
0.7s 5.50nm 4.5mb
Z 19s 0.10um 3.8MszX
i 16 41.50
eS 21 12.80
NANU 44.78 219 eP 14 42.00 -1.3
iS 29 12.50
PSI 45.69 261 ePd 15 00.50 9.8X
e 18 45.00
BWA 47.03 175 eP 15 02.00 1.0
e 15 12.60 36km
GTA 47.16 313 P 15 02.40 0.2
Z 18s 8.70um 5.8Msz
N 15s 2.90um
pP 15 10.80 28km
CAN 47.97 175 eP 15 10.00 1.6
e 15 19.80 33km
BFD 49.61 182 eP 15 21.00 0.1
TOO 50.00 178 eP 15 25.20 1.2
IRK 50.69 330 eP 15 35.00 5.9X
e 15 56.40 87kmX
KLB 50.71 209 eP 15 28.00 -1.4
MUN 51.78 210 eP 15 35.50 -2.0
WMO 57.16 314 P 16 17.00 0.0
1.2s 30.00nm 5.2mb
Z 21s 6.26um 5.7Msz
N 14s 3.50um
GAR 69.50 307 eP 17 31.00 -7.5X
e 18 00.00 116kmX
e 19 00.00
e 24 00.00
e 27 00.00
e 31 27.00
e 42 18.00
e 44 56.00
e 48 38.00
INK 75.52 22 eP 18 14.00 0.7
MAIO 78.23 305 eP 18 30.00 0.8
MBC 79.35 14 eP 18 33.00 -1.4
0.8s 8.00nm 4.8mb
YKA 84.05 27 eP 19 01.00 1.9
0.6s 2.00nm 4.5mb
PNT 84.61 41 eP 19 12.00 9.7X
PAS 89.33 55 eP 19 29.00 3.4X
OBN 89.39 327 eP 19 30.00 4.6X
Z 18s 4.80um 6.0Msz
N 16s 1.60um
E 18s 3.60um
e 19 52.00 80kmX
MWC 89.40 55 eP 19 25.00 -1.2
SBB 89.47 55 eP 19 27.00 0.7
SES 89.63 38 eP 19 25.00 -1.7
RVR 90.01 55 eP 19 28.00 -0.7
GSC 90.11 54 eP 19 30.00 0.7
PLM 90.59 56 eP 19 32.00 0.3
GLA 92.31 56 eP 19 41.00 1.6
TRI 106.63 326 ePKP 25 08.00 13.7X
KIC 143.64 300 PKP 26 01.86 -3.2X
TIC 143.72 300 PKP 26 01.94 -3.3X
ARE 145.47 101 ePKP 26 14.00 5.6X
ZOBO 148.70 100 PKP 26 18.00 4.0X
1.0s 27.50nm
Z 24s 1.49um 5.7MszX
LR 16 00.00
LPB 148.72 101 PKP 26 25.00 11.2X

Z 23s 2.65um 6.0MszX
LR 15 18.00
CNCB 148.81 102 PKP 26 18.00 3.8X
CCH 150.53 103 PKP 26 30.60 14.2X
PPD 162.68 125 ePKP 26 34.60 3.6X
S.D. = 1.2 on 60 of 80 obs.

& SEP 09, 1991 15h 20m 55.52s
59.955 N 152.648 W
DEPTH = 97.3km
SOUTHERN ALASKA (2)
<AEIC>.

IVS 0.22 284 eP 21 10.22 1.8
OPT 0.42 224 ePc 21 10.02 -0.7
S 21 20.75
RED 0.47 352 iPc 21 10.34 -0.8
iS 21 22.11
RS1 0.51 354 iPc 21 10.95 -0.6
iS 21 23.07
RSO 0.51 354 iPc 21 10.90 -0.7
iS 21 23.23
RS2 0.51 354 iPc 21 10.97 -0.6
iS 21 23.32
RDW 0.54 351 iPc 21 11.04 -0.7
eS 21 23.09
REF 0.54 357 iPc 21 11.08 -0.7
iS 21 23.23
RDN 0.56 354 iPc 21 11.17 -0.7
iS 21 23.42
HOM 0.59 120 iPc 21 11.47 -0.4
S 21 24.27
NCT 0.62 347 eP 21 11.72 -0.7
iS 21 23.90
RDT 0.63 11 iPc 21 11.58 -0.8
eS 21 24.07
DFR 0.64 358 iPc 21 11.78 -0.7
eS 21 24.13
NNL 0.68 82 iPc 21 13.05 0.3
AUL 0.70 215 iPc 21 12.36 -0.6
eS 21 25.57
AUE 0.70 212 eP 21 12.04 -0.9
eS 21 24.86
AUP 0.71 214 ePd 21 12.38 -0.8
AGU 0.72 214 eP 21 12.56 -0.7
AUH 0.72 215 ePd 21 12.43 -0.7
AUW 0.72 216 iPd 21 12.35 -0.8
eS 21 25.35
AUI 0.74 213 iPd 21 12.35 -0.9
eS 21 25.09
CNPM 0.83 120 iPc 21 13.42 -0.9
eS 21 27.63
CDD 1.15 207 iPd 21 16.29 -1.5
eS 21 33.28
MCNL 1.16 229 iPd 21 16.56 -1.3
eS 21 32.51
CKL 1.26 7 iPd 21 18.32 -0.8
iS 21 36.10
SPU 1.27 13 iPd 21 18.37 -0.8
iS 21 36.08
BGL 1.32 5 ePd 21 19.22 -0.7
SLKM 1.33 64 ePc 21 19.12 -0.8
SYI 1.36 174 ePd 21 18.91 -1.3
eS 21 36.98
CGLM 1.39 13 iPd 21 20.11 -0.7
iS 21 38.57
NCG 1.47 9 ePd 21 21.09 -0.7
iS 21 41.42
SEW 1.61 83 eP 21 22.08 -1.3
eS 21 42.37
SUA 1.78 31 ePd 21 24.99 -0.7
eS 21 47.77
PMS 2.00 48 ePc 21 27.26 -1.3
iS 21 51.47
SKT 2.10 15 iPd 21 28.57 -1.3
PWA 2.18 37 iPd 21 30.01 -0.8
PLRM 2.38 45 iPc 21 31.43 -2.1
LTI 2.41 86 ePc 21 32.37 -1.6
KNIM 2.49 79 ePc 21 32.23 -2.8
KNK 2.53 53 ePc 21 33.27 -2.3
GHO 2.58 43 ePc 21 34.15 -2.2
SML 2.81 47 ePc 21 37.32 -2.1
GLI 2.91 69 ePc 21 38.80 -1.9
FID 3.17 73 iPc 21 42.35 -1.9
VZW 3.21 67 eP 21 43.06 -1.9
VLZ 3.34 67 eP 21 44.60 -1.9
KLU 3.65 62 iPd 21 47.99 -2.9

TRF 3.68 17 eP 21 50.23 -1.3
KTH 3.70 12 eP 21 50.86 -0.8
TOA 3.82 53 iPc 21 51.26 -2.0
RND 3.91 26 iPc 21 52.84 -1.7
51 obs. associated

SEP 09, 1991 16h 22m 25.38± 0.31s
3.500 S ± 4.4km 145.263 E ± 7.6km
DEPTH = 27.3km (6 depth phases)
5.2mb (26 obs.) 5.1Msz (7 obs.)
NEAR N COAST OF NEW GUINEA, PNG.(200)

MNDI 3.08 211 eP 23 28.40 14.8X
LAT 3.58 151 eP 23 20.95 0.5
eS 23 35.20
PMG 6.16 162 eP 23 55.00 -2.0
HNR 15.73 113 eP 26 01.00 -5.8X
CTAO 16.52 177 iP 26 17.50 0.6
1.5s 21.51nm 4.1mb X
i(pP) 26 22.20
i 26 29.00
eS 29 15.00
i(ScP) 31 53.00
MTN 16.78 236 eP 26 20.00 -0.2
OIS 17.83 198 iPc 26 32.10 -1.2
1.4s 181.00nm 5.0mb
WR2 19.50 212 iPc 26 52.20 -1.4
0.5s 171.30nm 5.6mb
eS 30 44.00
KNA 20.29 232 iPc 27 01.20 -0.7
0.6s 131.00nm 5.5mb
BIP 22.25 302 ePc 27 19.50 -2.4
1.0s 277.00nm 5.7mb
DAV 22.29 298 eP 27 23.60 1.4
ASPA 22.86 208 iPd 27 28.40 0.6
1.1s 235.80nm 5.6mb
Z 24s 3.80um 4.8MszX
eS 31 37.10
OLP 22.97 182 iPd 27 30.20 1.3
0.4s 60.00nm 5.5mb
RMO 23.10 172 iPd 27 41.00 10.8X
0.7s 76.00nm
CGP 23.70 300 iPd 27 39.00 3.0X
0.8s 39.00nm 5.0mb
BRS 24.82 164 eP 27 45.00 -1.8
1.0s 3.00nm 3.9mb X
iS 32 12.00
MAP 25.25 303 eP 27 49.00 -2.0
DZM 27.63 134 iPd 28 13.60 0.6
CMS 27.84 179 eP 28 15.00 0.3
STK 28.44 187 eP 28 19.50 -0.6
0.8s 4.40nm 4.2mb X
WARB 28.77 217 eP 28 23.80 0.7
MBL 30.33 233 eP 28 36.50 -0.6
0.6s 14.00nm 5.0mb
KKM 30.52 288 ePc 28 38.00 -1.0
BWA 30.91 175 eP 28 41.20 -0.9
FORR 31.66 209 eP 28 48.00 -0.7
CAN 31.85 174 eP 28 50.40 0.0
BFD 33.61 184 eP 29 08.00 2.4
TOO 33.91 180 eP 29 15.60 7.3X
KLB 38.08 220 eP 29 43.00 -0.7
OZH 38.34 319 eP 29 46.00 0.1
Z 32s 4.20um 5.0MszX
S 35 48.00
MUN 39.33 221 eP 29 53.00 -1.1
MAT 40.37 351 (P) 30 01.00 -1.7
1.3s 19.23nm 4.7mb
RKG 40.55 217 eP 30 02.00 -2.2
GZH 40.84 312 eP 30 08.20 1.6
SSE 41.36 328 P 30 09.00 -1.7
1.8s 54.00nm 5.0mb
Z 20s 3.70um 5.3Msz
N 16s 1.50um
S 36 28.00
QIZ 41.42 304 P 30 12.40 0.9
N 15s 0.90um
eS 36 29.00
NJ2 43.35 327 Pc 30 26.50 -0.6
Z 20s 1.30um 4.8Msz
N 11s 0.70um
WHN 44.91 321 eP 30 40.50 0.8
Z 20s 0.80um 4.6Msz
pP 30 50.00 32km
S 37 24.00
SNG 45.80 283 eP 30 48.00 1.0
PSI 46.72 277 iP 30 57.00 2.7

e 33 50.00
TIA 47.45 329 eP 30 57.70 -2.1
Z 18s 2.00um 5.1Msz
E 14s 1.00um
DL2 47.50 335 eP 30 56.40 -3.7X
1.0s 40.00nm 5.4mb
LOE 47.71 297 eP 31 03.00 0.9
GYA 47.74 311 P 31 03.20 0.8
1.4s 30.00nm 5.1mb
Z 20s 1.90um 5.1Msz
N 16s 1.70um
E 16s 0.80um
pP 31 14.80 41kmX
NST 48.54 294 eP 31 11.00 2.5
SNY 49.24 339 eP 31 11.40 -2.1
Z 24s 2.00um 5.0MszX
N 14s 1.00um
S 38 16.00
BDT 50.09 296 eP 31 21.90 1.5
KMI 50.11 307 Pc 31 22.50 1.7
1.5s 150.00nm 5.8mb
Z 26s 1.30um 4.8MszX
S 38 40.00
CN2 50.35 341 eP 31 19.80 -2.2
Z 18s 3.20um 5.4Msz
N 18s 1.40um
E 18s 0.80um
epP 31 28.00 27km
XAN 50.66 320 P 31 23.10 -1.5
CHG 50.69 298 ePc 31 26.00 1.0
1.2s 33.59nm 5.2mb
CHTO 50.69 298 iP 31 25.50 0.5
1.0s 32.25nm 5.2mb
BJI 50.89 331 eP 31 25.00 -1.1
2.0s 38.00nm 5.0mb
Z 24s 1.92um 5.0MszX
CD2 52.30 314 eP 31 36.90 -0.2
0.8s 80.00nm 5.7mb
pP 31 43.00 20km
HHC 53.81 329 eP 31 46.00 -2.1
1.0s 20.00nm 5.1mb
Z 28s 2.20um 5.1MszX
BTO 54.45 327 P 31 52.00 -0.8
N 17s 0.90um
E 18s 1.30um
LZH 55.20 319 Pc 31 57.50 -1.0
1.5s 88.00nm 5.6mb
Z 30s 1.76um 5.0MszX
E 17s 0.68um
pP 32 04.50 23km
sP 32 09.00
SHL 59.22 302 iP 32 26.60 -0.6
GTA 59.72 320 P 32 30.20 -0.1
1.0s 20.00nm 5.2mb
Z 44s 1.90um 4.9MszX
N 15s 0.50um
pP 32 38.00 26km
sP 32 42.60
LSA 61.37 307 eP 32 42.00 -0.1
GUN 65.06 303 P 33 06.78 0.4
0.9s 258.00nm 6.3mb X
PKI 65.35 302 P 33 08.22 0.0
1.2s 142.00nm 6.0mb
KKN 65.53 303 P 33 09.30 0.1
0.8s 277.00nm 6.4mb X
DMN 65.62 302 P 33 10.18 0.3
0.9s 256.00nm 6.4mb X
GKN 66.13 303 P 33 13.18 0.1
0.9s 271.00nm 6.4mb X
YAK 66.41 352 eP 33 13.70 -0.3
i 33 57.00 183kmX
KOD 68.86 282 eP 33 32.70 2.1
HYB 68.98 290 eP 33 30.00 -0.9
GBA 69.38 286 Pd 33 33.20 -0.2
1.0s 11.40nm 4.9mb
WMO 69.78 319 P 33 35.00 -0 4
1.2s 10.00nm 4.8mb
Z 20s 1 30um 5.2Msz
pP 33 46.00 36km
eS 42 46.00
NDI 72.61 301 iPd 33 52 00 -0.7
POO 73.58 290 iP 34 03.80 5.3X
GAR 80.56 310 eP 34 22.00 -15.2X
QUE 81.68 301 eP 34 43.90 0.5
1.0s 29.00nm 5.3mb
MAW 83.88 202 eP 34 54.00 0.3
1.0s 13.00nm 5.1mb

SPA 86.52 180 eP 35 08.00 0.9
0.6s 6.50nm 5.0mb
MAIO 88.64 306 eP 35 20.00 2.2
INK 89.98 22 eP 35 20.00 -3.3X
MBC 94.66 14 eP 35 47.00 2.2
PNT 95.98 41 eP 35 54.00 2.6X
ZST 117.24 324 ePKP 41 07.20 -2.7X
e 41 26.10
e 04 39.30
BRG 117.67 327 ePKP 41 11.30 0.6
1.1s 10.00nm
CLL 117.94 328 ePKP 41 11.00 -0.2
WTTA 120.89 325 iPKPd 41 17.90 0.7
1.1s 8.10nm
BSF 123.25 328 ePKP 41 21.40 -0.2
0.8s 5.35nm
HAU 123.38 328 ePKP 41 21.80 0.1
0.8s 4.05nm
LPG 124.68 325 ePKP 41 25.30 0.6
0.8s 4.05nm
LPL 124.68 326 ePKP 41 25.10 0.5
0.8s 4.05nm
LOR 125.15 329 ePKP 41 25.70 0.5
1.0s 8.00nm
LBF 125.27 328 ePKP 41 26.00 0.6
1.0s 4.00nm
SSF 125.47 329 ePKP 41 26.40 0.6
0.8s 4.05nm
SMF 125.56 328 ePKP 41 26.20 0.2
1.0s 7.00nm
TCF 126.65 329 ePKP 41 28.60 0.5
0.8s 4.05nm
LPF 127.04 332 ePKP 41 29.40 0.7
0.9s 8.20nm
CAF 127.62 328 ePKP 41 31.00 1.0
1.0s 6.00nm
LPO 128.25 328 ePKP 41 32.40 1.2
1.0s 8.00nm
CNCB 141.46 123 PKP 41 50.00 -7.4X
CNCB 141.46 123 PKP 42 07.70 10.3X
LPB 141.49 122 ePKP 42 03.00 5.7X
ZOBO 141.59 122 PKP 41 52.00 -5.7X
1.0s 9.00nm
SDV 143.93 80 ePKP 42 01.10 -0.2
TOV 144.65 78 ePKP 42 01.60 -0.8
PPD 149.89 148 ePKP 42 14.10 3.6X
KIC 149.98 277 PKP 42 17.68 6.8X
1.2s 26.50nm
TIC 150.24 277 PKP 42 18.14 6.9X
1.1s 22.50nm
LIC 150.28 276 PKP 42 18.34 7.0X
1.0s 26.50nm
VAO 151.08 156 (PKP) 42 18.00 5.6X
S.D. = 1.2 on 87 of 107 obs.

• SEP 09, 1991 18h 23m 09.93± 1.87s
38.967 N ±16.7km 142.545 E ±24.7km
DEPTH = 62.8 ± 12.6 km
3.8mb (1 obs.)
NEAR EAST COAST OF HONSHU, JAPAN(228)

HOOJ 3.46 9 eP 24 03.20 0.7
eS 24 40.80
MRRJ 3.63 343 eP 24 04.80 -0.1
eS 24 44.80
MAT 4.20 236 (P) 24 13.00 -0.1
KUSJ 4.44 21 eP 24 15.90 -0.4
eS 25 03.70
ASAJ 5.15 1 eP 24 26.00 -0.3
CHTO 42.65 255 e(P) 31 02.10 0.2
0.9s 1.49nm 3.8mb
KKN 48.40 275 P 31 48.20 0.4
GKN 48.80 275 P 31 50.40 -0.4
S.D. = 0.5 on 8 of 8 obs.

% SEP 09, 1991 19h 05m 46.17± 0.95s
44.521 N ±13.0km 6.311 E ±11.1km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.5 (LDG).

LPG 1.03 18 Pg 05 17.60 -48.2X
Sg 06 42.00
LPL 1.04 17 Pn 06 16.20 10.3X
Pg 06 18.00
SMF 2.74 322 Pn 06 30.40 -0.6
PGF 2.78 134 Pn 06 31.60 0.0

09d 19h

CAF	3.05	279	Pn	06 26.20	-9.2X
			Pg	06 32.40	
			Sg	07 04.40	
MAF	3.14	304	Pn	06 30.00	-6.6X
			Pg	06 40.40	
			Sg	07 18.40	
BGF	3.17	311	Pn	06 32.80	-4.3X
			Pg	06 42.80	
			Sg	07 23.40	
LOR	3.24	329	Pn	06 38.40	0.4
			Sg	07 31.80	
TCF	3.39	303	Pg	06 45.20	5.0X
			Sg	07 25.00	
RJF	3.50	285	Pg	06 42.20	0.5
			Sg	07 21.00	
LPO	3.66	274	Pg	06 43.20	-0.9
			Sg	07 24.00	
LFF	3.99	278	Pg	06 49.20	0.5
			Sg	07 35.80	

S.D. = 0.8 on 6 of 12 obs.

? SEP 09, 1991 19h 59m 59.88± 5.31s
33.716 S ±13.9km 69.965 W ±36.2km
DEPTH = 10.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)

PCH	0.47	282	iP	00 09.50	0.1
			iS	00 15.50	
CHCH	0.61	249	iPd	00 12.50	0.2
			iS	00 20.50	
TACH	0.81	274	ePd	00 15.60	-0.1
			iS	00 26.00	
PEL	0.83	313	iPd	00 16.00	0.0
			iS	00 26.20	
LNV	1.23	258	iPd	00 22.40	-0.3
			iS	00 37.50	
LCCH	1.36	280	iP	00 24.80	-0.1
			iS	00 42.00	

S.D. = 0.2 on 6 of 6 obs.

---

* SEP 09, 1991 20h 48m 03.05± 1.15s
44.853 N ± 7.3km 22.168 E ±13.2km
DEPTH = 10.0km (geophysicist)
ROMANIA (358)

GZR	0.69	38	ePc	48 16.50	-0.3
SRE	0.76	104	eP	48 18.00	0.0
DEV	1.15	26	iPc	48 25.00	0.4
DRA	1.50	96	ePd	48 53.00	23.0X
COZ	1.61	72	eP	48 31.50	-0.2
TNR	1.69	61	ePd	49 27.00	54.3X
MTUR	2.09	79	eP	48 44.50	5.9X
MLR	2.75	75	ePd	48 52.00	3.9X
SKO	2.93	191	ePn	48 50.00	-0.5
PSZ	3.45	334	ePn	49 13.20	15.3X
KNT	3.73	171	eP	49 02.50	0.6

S.D. = 0.5 on 6 of 11 obs.

SEP 09, 1991 20h 57m 50.42± 0.53s
22.552 N ± 5.5km 120.920 E ± 6.1km
DEPTH = 10.0km (geophysicist)
4.3mb (9 obs)
TAIWAN (244)
ML 4.4 (BJI).

TWG	0.30	28	iPc	57 56.80	0.1
			eS	57 59.90	
TWM1	0.53	301	iPc	58 01.70	0.5
			eS	58 08.80	
TWK	0.81	331	iPd	58 06.00	-0.2
			eS	58 15.60	
TWF1	0.87	24	iPc	58 06.10	-1.0
TWD	1.64	22	ePc	58 20.40	1.0
TWO	1.72	357	iPc	58 21.90	1.4
OZH	3.20	319	ePn	58 40.00	-1.6
			Sn	59 15.00	
PIP	4.21	184	iPc	59 02.80	6.7X
CVP	4.90	170	eP	59 10.00	4.2X
HKC	6.25	269	eP	59 24.10	-0.8
GZH	7.01	276	eP	59 34.40	-1.2
SSE	8.51	2	P	59 57.00	0.4
Z	12s		0.90um		
N	12s		0.50um		
			S	01 36.80	
NJ2	9.64	349	Pd	00 10.50	-1.6
			S	01 52.00	
WHN	9.89	325	eP	00 15.20	-0.5
			eS	02 11.00	
QIZ	10.94	253	eP	00 29.60	-0.5
GYA	13.55	290	P	01 05.00	-0.3
Z	12s		0.60um		
N	10s		0.60um		
E	10s		0.40um		
			S	03 33.00	
TIY	16.78	336	eP	01 50.00	2.8X
Z	12s		0.70um		
E	11s		0.30um		
CD2	17.43	302	eP	01 59.60	4.3X
BJI	17.89	348	(P)	02 06.50	5.6X
LZH	20.05	316	eP	02 29.30	2.6
	2.0s		28.00nm	4.2mb	
			pP	02 35.00	22kmX
BTO	20.22	335	eP	02 33.00	4.6X
N	10s		0.40um		
E	10s		0.30um		
MAT	20.46	43	(P)	02 34.00	3.1X
	1.2s		21.88nm	4.4mb	
CHG	20.89	264	eP	02 40.80	5.4X
CHTO	20.89	264	eP	02 36.20	0.8
	1.1s		3.24nm	3.6mb	
GTA	24.60	318	eP	03 15.00	2.9X
	1.5s		10.00nm	4.2mb	
LSA	27.61	291	eP	03 42.80	2.3
WR2	44.23	162	eP	06 00.30	-1.5
	0.7s		5.40nm	4.5mb	
QIS	46.57	156	eP	06 20.20	-0.1
	0.3s		2.00nm	4.6mb	
ASPA	47.64	164	iPc	06 29.10	0.2
	0.8s		5.20nm	4.7mb	
WARB	48.76	173	iPc	06 38.70	1 2
SOD	71.04	336	eP	09 20.00	9.8X
INK	74.82	22	eP	09 32.00	-0.4
MBC	74.90	12	eP	09 31.50	-1.2
HFS	78.87	331	eP	09 56.00	0.9
	0.6s		1.30nm	4.1mb	
NB2	79.55	332	P	09 58.40	-0.4
	0.7s		1.40nm	4.1mb	

S.D. = 1.2 on 25 of 35 obs.

SEP 09, 1991 21h 40m 56.23± 0.55s
39.470 N ± 5.0km 21.301 E ± 4.9km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 3.0 (ATH), 2.9 (THE).

KZN	0.91	23	ePb	41 13.70	0.0
AGG	0.92	119	ePd	41 13.82	0.1
			eS	41 27.06	
LIT	1.11	55	ePd	41 16.90	-0.2
			eS	41 30.86	
KEK	1.19	282	ePb	41 17.50	-0.9
FNA	1.31	2	ePd	41 20.62	0.1
			eS	41 37.62	
VLS	1.40	204	ePb	41 22.40	0.5
GRG	1.71	29	ePc	41 25.74	-0.5
THE	1.73	47	ePc	41 26.62	0 2
PAIG	1.89	75	ePd	41 28.62	-0.2
SOH	2.07	49	ePc	41 31.70	0.2
KNT	2.09	35	ePc	41 31.42	-0.2
OUR	2.24	66	ePc	41 33.42	-0.4
SKO	2.50	2	ePn	41 39.00	1.4

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

---

* SEP 09, 1991 21h 54m 40.99± 0.49s
57.698 S ± 8.8km 25.144 W ±11.7km
DEPTH = 33.0km (normol)
4.9mb (3 obs.) 3.8Msz (1 obs.)
SOUTH SANDWICH ISLANDS REGION (153)

AIA	19.85	231	eP	59 12.30	0.7
NVL	20.27	145	(P)	59 15.00	-0.9
			e	59 24.00	
			e	59 34.00	
SPA	32.48	180	iPc	01 10.50	0.3
	1.0s		23.00nm	5.0mb	
PPD	40.38	321	iPc	02 17.90	0.7
			e	02 19.20	
SOB1	49.88	339	eP	03 33 10	0.0
			e	03 37 10	
CNCB	51.71	304	P	03 47.20	-0.4
LPB	52.01	304	P	03 49.00	-0.7
ZOBO	52.25	304	iPc	03 50.60	-1 1
Z	22s		0.11um	3 8Msz	
			LR	17 16.00	
KIC	65.96	22	P	05 26.10	0.2
	0.8s		7.50nm	4.8mb	
TIC	66.18	22	P	05 27.70	0.4
	0.8s		6.50nm	4.8mb	
NB2	121.77	20	PKP	13 31.40	-0.2
	1.0s		2.60nm		
MBC	145.95	335	ePKPc	14 17.00	0.9
	0.9s		21.00nm		
INK	147.79	319	iPKPc	14 22.10	2.9X
	0.7s		17.00nm		
BJI	149.58	109	(PKP)	14 28.00	5.1X

S.D. = 0.7 on 12 of 14 obs.

SEP 09, 1991 21h 54m 50.56± 0.31s
28.879 N ± 5.8km 94.937 E ± 3.8km
DEPTH = 33.0km (normol)
4.8mb (23 obs.)
EASTERN XIJANG-INDIA BORDER REG.(313)

LSA	3.41	285	iPn	55 42.00	-1.1
			Sg	56 38.00	
SHL	4.28	220	eP	56 08.50	13.4X
KMI	7.90	116	Pd	56 46.50	0.3
	1.0s		35.00nm	5.4mb	
Z	10s		1.30um		
CD2	7.92	73	eP	56 47.20	0.9
Z	10s		2.90um		
E	10s		3.00um		
GUN	8.04	265	P	56 47.68	-0.6
	0.3s		427.00nm	7.1mb X	
PKI	8.51	263	P	56 53.56	-1.2
	0.4s		670.00nm	7.2mb X	
KKN	8.58	265	P	56 54.74	-0.9
	0.4s		667.00nm	7.1mb X	
DMN	8.76	264	P	56 57.28	-0.9
	0.4s		258.00nm	6.8mb X	
GKN	9.11	267	P	57 00.72	-2.2
	0.3s		184.00nm	6.7mb X	
LZH	10.40	44	Pc	57 20.30	-0.3
	1.5s		91.00nm	5.8mb	
Z	13s		3.10um	5.2Msz	
N	10s		1.90um		
E	10s		2.10um		
			pP	57 25.20	
			eS	59 16.00	
CHG	10.67	159	eP	57 24.00	-0.2
CHTO	10.67	159	eP	57 23.60	-0.6
GYA	10.67	100	P	57 24.00	-0.3
Z	12s		1.10um		
GTA	11.25	20	eP	57 31.00	-1.2
Z	12s		1.80um		
N	11s		1.40um		
XAN	13.00	63	P	57 53.20	-2.4
	0.9s		30.00nm	5.4mb	
N	11s		0.43um		
E	10s		1.20um		
			pP	58 06.20	
KHT	14.43	166	eP	58 21.00	6.6X
NDI	15.54	274	eP	58 25.50	-3.4X
	0.6s		26.67nm	4.6mb	
			eS	01 11.00	
WMO	16.00	341	P	58 40.60	5.8X
	1.0s		70.00nm	4.7mb	
Z	12s		1.30um	5.3Msz	
N	10s		2.30um		
			pP	58 44.50	
			sS	01 44.00	
QIZ	16.77	122	eP	58 45.40	0.9
WHN	16.95	80	P	58 45.50	-1.2
Z	16s		0.80um		
BTO	17.01	43	eP	58 46.00	-1.6
N	13s		1.30um		
E	13s		1.20um		
TIY	17.06	54	eP	58 45.70	-2.4
Z	14s		2.50um		
E	13s		1.40um		
HHC	18.10	44	eP	59 01.50	0.4
	1.0s		20.00nm	4.2mb	
Z	15s		2.00um	3.8MszX	
N	11s		1.20um		
E	11s		0.80um		
			pP	59 07.00	
HYB	18.87	236	eP	59 09.00	-1.7
	1.0s		70.00nm	4.8mb	
TIA	20.06	63	P	59 24.20	0.4
BJI	20.70	52	eP	59 31.00	0.6
Z	14s		1.47um	4.5MszX	

	N 11s	0.84um				
NJ2	20.85	75 Pc	59	31.00	-1.0	
		pP	59	40.50	36kmX	
		sP	59	45.50		
POO	21.85	247 iP	59	47.80	5.6X	
		iS	08	19.80		
GBA	22.25	231 Pc	59	46.70	0.6	
	0.4s	13.70nm		4.8mb		
SSE	22.83	78 P	59	52.50	0.7	
	0.7s	10.00nm		4.4mb		
	Z 12s	1.30um		4.6MszX		
	E 11s	0.60um				
		pP	59	57.50	18kmX	
		sP	00	06.50		
DL2	24.23	59 P	00	06.80	1.5	
	1.2s	180.00nm		5 5mb		
OUE	24.36	280 eP	00	09.30	2.3	
KOD	24.74	225 eP	00	12.90	2.1	
PSI	26.31	171 ePc	00	39.50	14.3X	
		e	03	35.00		
SNY	26.56	53 Pc	00	27.40	0.2	
	1.0s	40.00nm		5.0mb		
CN2	28.54	50 Pd	00	46.40	1.2	
	0.8s	20.00nm		4.9mb		
	Z 15s	2.00um		4.8MszX		
	N 10s	0.20um				
	E 10s	0.40um				
		epP	00	58.00	44kmX	
MAIO	30.64	293 eP	01	11.00	6.9X	
MAT	36.96	67 (P)	01	57.00	-1.5	
VRI	55.17	308 eP	04	25.50	3.3X	
SOD	55.36	334 iP	04	24.00	0.8	
KEV	55.59	337 eP	04	38.00	13.1X	
MLR	55.76	307 eP	04	28.00	1.4	
SKO	59.61	304 eP	04	57.80	4.3X	
HFS	61.13	326 eP	05	04.20	0.5	
	0.6s	3.70nm		4.7mb		
	Z 15s	0.05um		3.8MszX		
		LR	32	40.00		
KSP	61.25	315 eP	05	11.10	6.5X	
WR2	61.68	137 iPc	05	08.30	0.4	
	0.5s	5.40nm		4.9mb		
NB2	62.20	327 P	05	10.90	0.0	
	0.7s	1.80nm		4.3mb		
PRU	62.52	314 eP	05	19.60	6.5X	
BRG	62.69	315 eP	05	20.50	6.2X	
CLL	63.17	316 e(P)	05	24.00	6.6X	
MOX	64.19	315 eP	05	31.00	6.9X	
ASPA	64.31	140 iPc	05	25.50	0.2	
	0.9s	5.70nm		4.7mb		
GRF	64.68	314 eP	05	33.30	6.0X	
	1.3s	11 00nm		4.8mb		
WLF	67.83	315 P	05	55.00	7.6X	
LPG	68.83	311 eP	05	55.00	0.9	
	0.7s	7.70nm		4.9mb		
LPL	68.84	311 eP	05	55.10	1.0	
	0.8s	9.40nm		4.9mb		
CTAO	69.44	128 iPd	05	57.50	-0.3	
LBF	70.11	313 eP	06	01.80	0.2	
	0.8s	3.35nm		4.5mb		
SSF	70.39	313 eP	06	03.80	0.6	
	0.8s	5.35nm		4.7mb		
AVF	70.58	313 eP	06	04.10	-0.3	
	0.8s	4.05nm		4.5mb		
MBC	72.96	8 eP	06	19.50	1.5	
	1.0s	7.00nm		4.6mb		
RMO	75.47	132 eP	06	45.40	12.1X	
INK	76.72	17 eP	06	42.00	2.3	
	S.D. = 1.2	on 45 of 63 obs.				

? SEP 09, 1991 21h 59m 28.39± 6.91s
17.169 N ±61.2km 61.694 W ±45.1km
DEPTH = 33.0km (normol)
LEEWARD ISLANDS (92)
ML 3.4 (FDF).

BPA	0.20	232 iPd	59	34.98	0.6	
SEG	0.78	167 iPd	59	43.07	0.1	
		S	59	56.00		
DOG	1.13	176 eP	59	48.20	0.2	
PAG	1.13	179 eP	59	48.10	0.1	
		S	00	06.90		
MGG	1.30	164 eP	59	50.30	0.0	
BBL	1.65	173 eP	59	55.10	-0.4	
	S.D. = 0.2	on 6 of 6 obs.				

? SEP 09, 1991 23h 03m 27.31± 0.81s
5.742 N ±12.4km 126.168 E ±32.8km
DEPTH = 33.0km (normol)
4.4mb (2 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

BIP	2.47	2 iPd	04	06.00	-0.1	
		eS	04	36.00		
CGP	3.07	332 eP	04	15.00	0.4	
		eS	04	55.00		
MAP	5.04	335 eP	04	43.00	0.4	
WR2	26.77	163 iPd	09	06.80	0.6	
	0.3s	4.10nm		4.5mb		
ASPA	30.19	166 iPd	09	37.40	0.3	
	1.3s	6.10nm		4.2mb		
KIC	129.55	283 PKP	22	34.00	-1.6	
	S.D. = 1.1	on 6 of 6 obs.				

& SEP 10, 1991 00h 17m 00.63s
46.195 N 122.181 W
DEPTH = 4.4km
WASHINGTON (29)
<SEA>. MD 2.8 (SEA).

REMW	0.00	332 Pc	17	01.80	0.2	
ESD	0.02	84 Pc	17	01.81	0.0	
HSR	0.02	183 Pd	17	01.92	0.1	
SHW	0.04	266 Pc	17	01.92	0.0	
JLK	0.05	158 Pd	17	02.16	0.0	
SOSW	0.05	36 Pc	17	02.14	0.0	
STD	0.05	326 Pd	17	02.06	-0.1	
FL2	0.12	271 Pc	17	03.23	0.1	
CDFW	0.12	130 Pd	17	03.51	0.3	
ERK	0.16	315 Pd	17	03.78	-0.1	
		S	17	06.35		
TDL	0.16	351 Pd	17	03.92	0.0	
		S	17	05.78		
MTMW	0.17	187 Pd	17	04.30	0.1	
LVP	0.20	231 Pc	17	04.64	-0.1	
KOSW	0.27	359 P	17	05.82	-0.2	
		S	17	09.79		
CZM	0.33	317 Pc	17	06.94	-0.3	
		S	17	12.07		
RVW	0.39	264 Pc	17	08.17	-0.4	
		S	17	14.04		
ASR	0.41	96 Pc	17	08.64	-0.3	
LMW	0.48	351 Pd	17	10.30	0.1	
		S	17	17.83		
GULW	0.49	123 P	17	09.98	-0.5	
		S	17	16.93		
GLK	0.54	47 Pc	17	10.98	-0.5	
APM	0.58	143 Pd	17	11.53	-0.6	
LON	0.61	25 Pc	17	12.30	-0.6	
VLMM	0.66	171 Pc	17	13.25	-0.7	
REMR	0.67	20 Pc	17	13.25	-0.7	
WPW	0.67	41 Pc	17	13.21	-0.8	
PGO	0.75	195 P	17	14.72	-1.0	
RVC	0.76	11 P	17	14.83	-1.1	
BMW	0.78	291 Pc	17	14.98	-1.2	
VLL	0.81	154 Pd	17	16.12	-0.7	
FMW	0.82	25 Pc	17	16.00	-0.9	
GHW	0.85	356 P	17	16.00	-1.5	
NLO	0.89	264 Pd	17	17.16	-1.1	
TDH	0.95	163 ePd	17	17.93	-1.4	
GL2	0.97	103 P	17	18.98	-0.7	
VFP	1.01	150 P	17	19.13	-1.3	
CPW	1.02	320 P	17	19.13	-1.4	
GT2	1.04	183 P	17	19.63	-1.2	
GSM	1.04	15 Pc	17	19.62	-1.3	
KMOR	1.07	239 P	17	19.82	-1.6	
NAC	1.08	60 P	17	21.05	-0.5	
YAKW	1.19	73 P	17	23.54	0.2	
VGB	1.19	124 P	17	22.70	-0.7	
VBEM	1.21	160 Pd	17	23.03	-0.7	
RMW	1.29	11 P	17	23.74	-1.4	
ONR	1.29	302 P	17	23.77	-1.3	
TWW	1.31	43 P	17	24.92	-0.5	
EBG	1.32	57 P	17	25.47	-0.2	
SPW	1.36	358 P	17	25.84	-0.4	
MXC	1.36	73 P	17	26.00	-0.3	
SMW	1.38	325 Pd	17	25.20	-1.4	
GMW	1.42	343 P	17	25.42	-1.7	
TBM	1.46	48 P	17	27.63	-0.2	
CROR	1.47	145 P	17	27.25	-0.8	
VTHM	1.52	131 Pc	17	28.40	-0.3	
BRVW	1.54	78 P	17	29.06	0.1	
HDW	1.57	338 P	17	27.82	-1.6	
HTW	1.63	10 P	17	29.39	-0.9	
VTG	1.69	62 P	17	31.74	0.7	
BVW	1.70	68 P	17	31.64	0.4	
PATW	1.71	100 P	17	31.55	0.2	
MDW	1.73	75 P	17	31.21	-0.3	
PRW	1.73	89 P	17	32.45	0.8	
JBO	1.80	113 P	17	32.22	-0.4	
RSW	1.81	83 P	17	32.88	0.1	
BLN	1.89	344 P	17	33.13	-0.8	
WAH2	1.89	72 P	17	33.90	-0.1	
ETW	1.90	41 P	17	34.31	0.2	
OSD	1.93	328 P	17	35.05	0.3	
GMO	1.96	153 P	17	35.66	0.6	
LOCW	1.97	74 P	17	35.40	0.3	
JCW	2.01	5 Pd	17	35.80	0.2	
VIPM	2.01	146 P	17	35.98	0.1	
WIW	2.02	82 P	17	35.57	-0.2	
CRF	2.03	71 P	17	35.68	-0.2	
OOW	2.07	319 P	17	37.91	1.4	
OT2	2.10	74 P	17	36.61	-0.4	
EPH	2.12	56 P	17	37.22	-0.1	
WTV	2.14	45 P	17	37.49	-0.2	
NLW	2.27	33 P	17	41.27	1.8	
ET3	2.28	79 P	17	39.03	-0.5	
RPW	2.30	11 P	17	40.74	0.8	
	81 obs. associated					

% SEP 10, 1991 00h 29m 28.47± 0.54s
46.033 N ± 4.6km 2.839 E ± 4.4km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.0 (LDG).

MAF	0.27	315 Pg	29	34.40	0.3	
		Sg	29	38.50		
TCF	0.51	300 Pg	29	38.50	-0.2	
		Sg	29	45.80		
BGF	0.53	1 Pg	29	38.90	-0.2	
		Sg	29	46.40		
AVF	0.84	25 Pg	29	44.30	-0.3	
		Sg	29	55.20		
SMF	0.93	48 Pg	29	46.00	-0.2	
		Sg	29	58.60		
LSF	0.94	284 Pg	29	46.40	0 1	
		Sg	29	58.40		
SSF	1.13	24 Pg	29	49.70	0.1	
		Sg	30	04.40		
RJF	1.18	232 Pg	29	50.60	0.1	
		Sg	30	05.60		
CAF	1.23	206 Pg	29	51.30	-0.1	
		Sg	30	07.40		
LBF	1.23	39 Pg	29	51.70	0.3	
		Sg	30	07.60		
LOR	1.42	29 Pg	29	54.60	0.3	
		Sg	30	13.20		
	S.D. = 0.2	on 11 of 11 obs.				

? SEP 10, 1991 00h 30m 18.35± 5.98s
34.344 S ±50.3km 71.099 W ± 9.9km
DEPTH = 33.0km (normol)
NEAR COAST OF CENTRAL CHILE (135)

LNV	0.47	326 iPc	30	28.70	0.2	
		iS	30	44.50		
CHCH	0.55	42 iPc	30	30.00	0.2	
		iS	30	46.50		
TACH	0.70	11 iPc	30	32.50	0.7	
		iS	30	50.50		
PCH	0.87	34 iPd	30	34.00	-0.3	
		iS	30	53.50		
LCCH	0.95	336 iPd	30	35.00	-0.4	
		iS	30	55.50		
SAN	0.96	22 iP	30	35.50	-0.1	
		iS	30	56.00		
PEL	1.25	16 iPc	30	39.60	0.0	
		iS	31	03.00		
ROCH	1.37	3 eP	30	41.50	-0.1	
		iS	31	06.00		
JACH	1.71	14 iP	30	46.00	-0.4	
		iS	31	13.50		
	S.D. = 0.4	on 9 of 9 obs.				

SEP 10, 1991 00h 42m 10.55± 0.85s
37.427 N ± 7.2km 22.100 E ± 5.9km
DEPTH = 20.7 ± 6.3 km
3.4mb (1 obs.)
SOUTHERN GREECE (368)
ML 3.2 (ATH). MD 3.4 (THE).

10d 00h

VLI	0.97	136	ePn	42 29.50	0.9
ATH	1.39	67	ePn	42 35.00	0.2
			eSn	42 55.00	
VLS	1.41	303	ePn	42 37.00	1.9
AGG	1.60	6	ePd	42 37.72	-0.2
			eS	42 55.68	
IGT	2.52	327	ePc	42 52.96	1.9
LIT	2.69	6	ePc	42 53.28	-0.2
PAIG	2.79	26	ePc	42 53.96	-0.9
KZN	2.89	355	ePn	42 59.50	3.2X
KEK	2.91	322	ePn	42 57.20	0.6
OUR	3.25	26	ePc	43 00.44	-1.0
THE	3.27	12	ePd	43 02.56	0.9
FNA	3.40	351	ePc	43 04.88	1.3
SOH	3.53	16	ePc	43 04.56	-0.9
GRG	3.53	4	ePc	43 06.56	1.1
KNT	3.78	9	ePc	43 08.28	-0.7
			eS	43 48.44	
OHR	3.82	345	ePn	43 10.00	0.5
SRS	3.86	17	ePd	43 09.72	-0.4
VAY	3.91	5	ePn	43 11.80	1.1
SKO	4.57	354	ePn	43 19.00	-1.2
			e	44 11.00	
SOI	4.83	279	P	43 24.00	0.1
BRT	5.13	314	P	43 28.00	-0.2
ATN	5.31	280	P	43 28.00	-2.7
MGR	5.79	300	P	43 36.90	-0.5
SGO	6.14	303	P	43 42.10	-0.3
			eSn	44 49.60	
NB2	24.61	347	P	47 29.60	-0.8
	0.5s		0.50nm		3.4mb
	S.D. = 1.1		on 24 of 25 obs.		

? SEP 10, 1991 01h 28m 15.53± 1.24s
1.305 N ±13.4km 125.869 E ±28 1km
DEPTH = 154.4 ± 14.7 km
4.7mb (6 obs.)
NORTHERN MOLUCCA SEA (266)

MNI	1.04	278	ePd	28 41.50	0.2
			eS	29 17.50	
CGP	7.20	351	eP	29 59.00	-0.4
	1.0s		35.00nm		4.8mb
WR2	22.71	159	iPd	33 04.40	-0.5
	0.6s		25.10nm		4.8mb
			epP	33 20.70	72kmX
QIS	25.56	149	eP	33 30.70	-1.2
	0.8s		21.00nm		4.8mb
ASPA	26.02	163	eP	33 37.70	1.6
	0.5s		9.20nm		4.7mb
CHG	31.62	305	eP	34 48.50	22.5X
CHTO	31.62	305	eP	34 25.20	-0.8
	1.0s		2.75nm		4.0mb
BJI	39.55	348	eP	35 34.00	1.1
	1.2s		20.00nm		4.7mb
MAIO	70.31	308	eP	39 22.00	7.6X
	S.D. = 1.4		on 7 of 9 obs.		

SEP 10, 1991 01h 47m 03.98± 0.22s
39.445 N ± 2.4km 27.845 E ± 1.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 4.0 (THE), 3.6 (ATH).

DST	0.63	75	iPg	47 16.50	-0.1
EDC	0.90	1	iPg	47 21.00	-0.2
			iSg	47 33.30	
IZM	1.14	204	iPn	47 25.70	0.3
EZN	1.23	288	iPn	47 27.00	0.1
PRK	1.24	261	ePb	47 27.10	0.2
			eSb	47 41.50	
MFT	1.41	342	iPn	47 29.30	-0.4
IZI	1.54	54	iPn	47 31.50	0.0
YLV	1.62	46	iPn	47 32.90	0.1
KHL	1.72	130	iPn	47 34.40	0.1
CTT	1.76	15	iPn	47 34.40	-0.3
ALT	1.80	102	ePn	47 35.50	0.1
GBZT	1.82	42	ePn	47 35.90	0.4
			eSg	48 02.50	
ISK	1.87	29	iPn	47 35.90	-0.3
ITU	1.88	28	ePn	47 36.00	-0.5
			iSg	48 03.00	
HRT	1.96	45	iPn	47 37.40	-0.2
ALN	2.00	317	ePc	47 38.60	0.4
			eS	48 06.48	
GPA	2.08	65	iPn	47 39.50	0.2
EYL	2.10	57	ePn	47 39.50	-0.2
DMK	2.37	358	iPn	47 43.00	-0.6
RDO	2.45	315	ePn	47 45.00	0.4
KDZ	2.88	321	iPd	47 51.00	0.3
			eS	48 25.00	
OUR	3.10	288	ePc	47 53.60	-0.2
DIM	3.14	327	iP	47 55.00	0.6
ELL	3.15	148	iPn	47 54.50	-0.1
PAIG	3.25	280	ePd	47 55.64	-0.4
RZN	3.27	314	iPd	47 57.00	0.5
			eSg	48 45.00	
PLD	3.57	319	eP	48 01.00	0.5
SRS	3.66	299	iPc	48 01.54	-0.3
SOH	3.71	293	iPd	48 02.29	-0.3
MMB	3.80	306	iPd	48 03.00	-0.9
THE	3.93	289	ePc	48 15.68	10.1X
KNT	4.15	296	ePd	48 08.80	0.0
LIT	4.18	281	ePd	48 08.60	-0.6
PVL	4.22	334	iP	48 11.00	1.3
PSN	4.24	3	iP	48 11.00	1.0
AGG	4.30	266	ePc	48 10.96	-0.1
KKB	4.36	305	iP	48 11.00	-0.7
GRG	4.43	292	ePc	48 13.48	0.6
VAY	4.44	297	ePn	48 13.40	0.5
VTS	4.71	313	iP	48 17.00	0.1
FNA	5.14	287	ePd	48 22.64	-0.2
SKO	5.48	299	ePn	48 27.00	-0.7
CFR	5.74	2	eP	49 05.00	33.8X
MLR	6.20	348	eP	48 38.00	0.1
VRI	6.47	353	ePc	48 41.00	-0.6
	S.D. = 0.5		on 43 of 45 obs.		

% SEP 10, 1991 01h 55m 30.52± 1.46s
23.998 N ± 7.4km 121.823 E ±13.1km
DEPTH = 10.0km (geophysicist)
TAIWAN (244)

TWD	0.22	292	iPd	55 35.40	0.1
			eS	55 38.60	
TWC	0.61	2	iPd	55 43.21	0.4
			eS	55 50.10	
TWF1	0.80	217	iPc	55 45.90	-0.2
TWQ	0.94	287	ePc	55 48.50	0.0
			eS	56 00.90	
TWZ	1.12	349	ePc	55 50.90	-0.6
TWK	1.42	240	ePd	55 56.70	0.2
	S.D. = 0.4		on 6 of 6 obs.		

---

* SEP 10, 1991 02h 12m 13.89± 3.11s
17.362 N ±26.6km 61.591 W ±14.6km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)
ML 3.3 (FDF).

BPA	0.40	219	iPd	12 23.15	0.0
			S	12 29.50	
SEG	0.96	175	eP	12 31.17	0.2
			S	12 43.90	
NEV	0.96	257	eP	12 31.10	0.0
DEG	1.16	154	ePd	12 33.42	-0.5
SFG	1.17	161	eP	12 34.50	0.6
			S	12 50.50	
DOG	1.32	181	eP	12 36.10	-0.1
PAG	1.33	184	ePd	12 36.21	-0.1
			S	12 53.60	
MGG	1.46	170	eP	12 38.50	0.3
BBL	1.83	177	eP	12 43.20	-0.4
	S.D. = 0.4		on 9 of 9 obs.		

---

* SEP 10, 1991 02h 21m 14.26± 1.07s
20.308 S ±12.4km 173.079 W ±19.0km
DEPTH = 33.0km (normal)
4.7mb (3 obs.)
TONGA ISLANDS (173)

AFI	6.48	11	eP	22 50.00	0.0
DZM	19.17	261	iPc	25 39.00	0.9
URZ	19.81	203	eP	25 44.90	0.1
MNG	22.48	203	eP	26 11.40	-0.7
BRS	31.94	251	eP	27 37.00	-2.4
RMQ	35.47	253	iPd	28 21.00	11.1X
CTAO	38.10	263	iPd	28 33.00	1.0
ASPA	49.05	256	iPd	30 01.40	0.9
	0.9s		6.40nm		4.7mb
SPA	69.82	180	iPc	32 24.50	1.1
	1.0s		25.00nm		5.2mb
CHTO	94.54	288	eP	34 32.20	-0.9
	0.6s		0.70nm		4.3mb

EKA	144.21	10	PKPc	40 53.40	5.3X
	2.2s		44.10nm		
DMU	144.83	14	ePKP	40 55.50	6.3X
DCN	145.26	15	ePKP	40 59.00	9.1X
KSP	148.64	349	ePKP	41 04.20	8.7X
CLL	148.69	353	ePKP	41 04.00	8.4X
	0.8s		8.00nm		
BRG	149.00	351	e(PKP)	41 04.70	8.6X
MOX	149.50	354	ePKP	41 08.00	11.1X
	1.9s		22.00nm		
PRU	149.77	350	ePKP	41 07.00	9.7X
FLN	150.99	10	ePKP	41 09.10	10.0X
	0.8s		9.40nm		
LDF	151.22	10	ePKP	41 09.50	10.0X
	0.6s		4.50nm		
GRR	151.29	11	ePKP	41 10.10	10.5X
	0.6s		5.40nm		
LPF	151.60	11	ePKP	41 10.70	10.6X
	0.8s		8.05nm		
MFF	153.14	11	ePKP	41 17.10	14.8X
	S.D. = 1.4		on 9 of 23 obs.		

SEP 10, 1991 03h 05m 15.12± 0.30s
46.304 N ± 2.9km 7.430 E ± 3.0km
DEPTH = 13.5 ± 2.5 km
SWITZERLAND (544)
ML 2.7 (LDG), 2.3 (STR).

DIX	0.22	183	iPc	05 19.70	-0.7
MMK	0.45	124	ePc	05 23.50	-0.9
RSL	0.83	223	Pg	05 30.82	-0.2
			Sg	05 41.82	
LPL	0.93	212	Pg	05 32.80	0.1
LPG	0.94	211	Pg	05 33.00	0.1
			Sg	05 46.00	
TMA	1.02	101	ePd	05 34.00	-0.2
LOMF	1.13	339	Pg	05 36.43	0.5
			Sg	05 52.79	
BBS	1.16	3	Pg	05 36.74	0.2
LLS	1.22	62	ePd	05 37.40	-0.2
ZLA	1.35	29	ePc	05 40.30	0.7
VDL	1.42	82	ePd	05 41.00	0.2
MOF	1.56	353	Pn	05 42.02	-0.6
BSF	1.59	344	Pn	05 42.60	-0.4
			Pg	05 44.40	
			Sg	06 05.00	
FEL	1.62	14	ePn	05 42.45	-1.1
SLE	1.63	26	ePc	05 45.20	1.6
HAU	1.86	337	Pn	05 46.40	-0.4
			Pg	05 49.40	
			Sg	06 13.20	
OSS	1.91	77	ePc	05 49.30	1.5
ECH	1.92	355	Pn	05 46.80	-1.0
CDF	2.11	357	Pn	05 49.37	-1.2
SBF	2.44	180	Pn	05 55.80	0.5
			Sn	06 24.60	
LBF	2.47	287	Pn	05 56.60	0.9
			Sg	06 32.70	
SMF	2.50	279	Pn	05 56.00	-0.1
			Pg	06 02.80	
			Sg	06 33.40	
LOR	2.64	293	Pn	05 58.00	0.0
			Pg	06 04.40	
			Sg	06 36.60	
FRF	2.80	192	Pg	06 08.00	7.7X
SSF	2.81	287	Pn	06 01.60	1.2
AVF	2.86	281	Pn	06 01.10	0.0
LRG	2.95	195	Pg	06 11.80	9.4X
BGF	3.18	276	Pn	06 05.40	-0.3
			Sg	06 55.00	
MAF	3.37	270	Pn	06 08.20	-0.3
	S.D. = 0.8		on 27 of 29 obs.		

& SEP 10, 1991 04h 02m 07.82s
57.236 N 154.012 W
DEPTH = 51.9km
4.6mb (29 obs.)
KODIAK ISLAND REGION (13)
<AEIC>. ML 4.4 (AEIC), 4.9 (PMR). Felt (IV) ot Akhiok ond Lorsen Boy. Also felt ot Old Horbor.

KDC	0.97	57	iPd	02 25.00	-0.3
SYI	1.63	31	iPd	02 33.41	-1.1
CDD	1.71	6	iPc	02 34.70	-1.0
MCNL	1.96	355	iPc	02 37.80	-1.5

AUI 2.13 8 eP 02 40.67 -0.9
eS 03 07.15
AGU 2.15 8 eP 02 40.74 -1.3
AUH 2.16 8 eP 02 41.42 -0.6
AUP 2.16 8 eP 02 41 10 -0 9
AUE 2.16 9 ePc 02 41.49 -0.5
AUW 2.16 7 eP 02 41 67 -0 3
AUL 2.17 8 eP 02 42.35 0.1
OPT 2 46 9 ePc 02 45 73 -0 5
eS 03 17.13
CNPM 2 72 31 ePd 02 48.51 -1.5
eS 03 21.06
HOM 2.73 26 eP 02 49.11 -1.0
NNL 3.15 26 ePc 02 54.57 -1.6
RED 3.26 11 ePc 02 56.05 -1.7
RS1 3.30 11 ePc 02 56.88 -1.5
RS2 3.30 11 ePc 02 56.77 -1.7
RSO 3.30 11 eP 02 56.88 -1.6
RDW 3.32 10 ePc 02 56.84 -1.8
REF 3.33 11 iPc 02 57.08 -1.8
RDN 3.35 11 eP 02 57.81 -1.3
NCT 3.38 9 eP 02 57.70 -1.8
DFR 3.44 11 eP 02 58.06 -2.2
RDT 3.45 13 ePc 02 58.32 -2.1
SEW 3.73 38 iPd 03 01.08 -3.2
SLKM 3.83 29 ePd 03 02.57 -3.1
eS 03 45.36
SVW 3.97 349 iPc 03 05.90 -1 8
CFL 4.07 12 ePd 03 06 71 -2 4
SDN 4.08 245 eP 03 08.30 -0.9
SPU 4.08 13 ePd 03 06.66 -2.6
BGL 4.13 11 ePc 03 07.72 -2.2
CGLM 4 21 13 eP 03 08.83 -2 3
LTI 4.27 46 ePd 03 08 89 -3 0
NCG 4.29 12 eP 03 10 00 -2 2
KNIM 4.52 44 iPd 03 11.55 -3 8
SUA 4.56 20 ePc 03 13 59 -1 4
eS 04 05 05
PMS 4.62 28 ePd 03 14.00 -2.9
PWA 4 90 24 eP 03 18.50 -2.3
SFT 4.92 14 eP 03 19.01 -2.1
PLRM 5.03 28 ePd 03 18 67 -3 9
PMR 5.03 28 eP 03 19.10 -3.5
KNF 5.06 32 eP 03 19.32 -3.8
GLI 5.11 41 ePc 03 19.57 -4 1
GHO 5.24 28 ePc 03 21.81 -3.8
FID 5 25 45 eP 03 21.30 -4.4
SML 5.42 30 eP 03 23.98 -4.1
VZW 5.42 42 eP 03 24.33 -3.8
CUT 5.52 18 eP 03 26.71 -2 7
VLZ 5.55 42 eP 03 26.27 -3.6
TTA 5.80 351 eP 03 31.00 -2.5
KLU 5.94 41 ePd 03 31.85 -3.6
HUR 6.16 19 eP 03 35.84 -2.6
TOA 6.29 36 ePc 03 37.70 -2.6
TZL 6 49 38 eP 03 40.27 -2.8
TPF 6 50 15 eP 03 40.75 -2.6
KTH 6.52 12 eP 03 41.75 -1.8
CROM 6.63 53 eP 03 41.62 -3.6
RND 6 70 20 eP 03 42.62 -3 4
GLB 6.71 47 ePc 03 42.27 -3.8
TGL 6.77 54 eP 03 43 17 -3 9
MCK 6.98 19 eP 03 47 21 -2.7
YAH 7.10 59 eP 03 48.47 -3 3
PAX 7.16 33 eP 03 48 74 -3 7
CTGM 7.52 55 eP 03 54 15 -3 4
WRH 7.81 19 eP 03 56.51 -4.9
HDA 7.97 23 eP 03 59 50 -4.2
CCB 8.02 19 ePd 03 59.23 -5 1
MDM 8.24 17 eP 04 03 71 -3.6
FBA 8.26 19 eP 04 02 70 -4.8
GLM 8.41 20 eP 04 05.32 -4 4
IMA 8.87 1 eP 04 14.50 -1 6
ANM 9.19 328 eP 04 17 06 -3.3
S T 10 16 83 e(P) 04 31.50 -2 1
ADK 14.17 257 e(P) 05 30.30 3 3
0.6s 28 80nm 5 1mb
INK 14 43 31 P 05 27 00 -3 3
1.9s 1 70nm 3 2mb x
YKA 20.22 59 eP 06 38 40 -2 2
0 8s 10 30nm 4 2mb
RMW 21 77 103 eP 06 58 80 2 2
PNT 21 84 96 ePd 06 59 00 8
LON 22 22 104 eP 07 02 50
MBC 22.79 21 eP 0 05 00 -1 3
0 9s 47 00nm 4 9mb
NEW 23 80 96 eP 07 18 00 1 6

0.9s 26 32um 4.7mb
ORV 27.52 116 eP 07 52.00 0.8
LRM 27.82 96 eP 07 54.80 0.7
e 08 07.20
CMB 29.25 117 eP 08 08 00 1 2
0.9s 10.18nm 4.5mb
BONR 30.34 114 eP 08 18.70 1.9
BW06 31.39 98 eP 08 26.00 0.1
CLC 32.37 116 eP 08 36 00 1 7
MSU 33.04 106 eP 08 42.00 1.7
SBB 33.17 117 eP 08 42.00 0.8
GSC 33.17 115 eP 08 43.00 1.7
MWC 33.43 118 eP 08 46.00 2.3
RSSD 33 48 91 eP 08 44.40 0.3
0.7s 22.49nm 5.2mb
RVR 33.95 117 eP 08 49.00 1.1
PEC 34.13 117 eP 08 50.30 0.7
PV09 34.65 103 eP 08 54.80 0.5
PLM 34.71 117 eP 08 56.00 1.3
GOL 35.79 98 eP 09 04.50 0.6
1.0s 6.25nm 4.5mb
GLD 35.84 98 eP 09 05.50 1.3
0.8s 28.24nm 5.2mb
GLA 35.95 115 eP 09 06.50 1.4
ALQ 38.74 104 e(P) 09 29.00 0.3
1.0s 5.00nm 4.3mb
ACO 41.33 96 e(P) 09 51.50 1.7
FVM 45.13 87 eP 10 19.20 -1.4
0.9s 16.95nm 4.9mb
PWLA 48.63 88 eP 10 47.30 -0.7
BLA 51.10 80 eP 11 05.50 -1.4
0.7s 11.11nm 5.0mb
KEV 53.31 360 eP 11 34.00 11.0
SOD 55.71 360 iP 11 50.40 9.9
NB2 61.50 8 P 12 18 70 -2.3
0.9s 6.20nm 4.7mb
HFS 62.57 7 eP 12 25 30 -2 7
0.7s 8.80nm 5.0mb
EKA 65.33 18 Pd 12 56.80 10.7
0.9s 16.00nm
DMU 66.03 21 eP 13 01 00 10.4
LZH 66.45 300 eP 12 55.00 1.2
2.0s 25.00nm 4.9mb
Z 20s 0.20um 4.3Msz
pP 13 02.00 22kmX
DCN 66.48 21 eP 13 03.30 9.8
OBN 67.69 353 eP 13 15.00 13.9
1.0s *******nm
Z 16s 0.80um 5.0MszX
N 14s 0.70um
E 16s 0.60um
WTS 70.00 12 eP 13 27.00 11.7
0.8s 16.00nm
BNS 71.06 12 ePc 13 32.50 10.8
ENN 71.10 13 eP 13 33 50 11.5
1.0s 29.00nm
CLL 71.29 9 eP 13 21.00 -2.1
i 13 34.10
DOU 71.58 14 Pc 13 36 70 11.8
0.9s 30 00nm
BRG 71.80 8 iP 13 24.90 -1.3
e 13 37 00
MOX 71.83 10 iPc 13 25.50 -0.9
1.2s 8.00nm 4 5mb
KSP 71.99 6 eP 13 26.20 -1 1
i 13 38.50
LDF 72.34 18 eP 13 41.10 11 7
1 0s 6.00nm
PRU 72.72 8 eP 13 30 90 -0 8
e 13 41 50
GPF 72.74 10 eP 13 31 30 -0 5
1 0s 4 00nm 4.3mb
e 13 41 70
CDF 73.58 13 eP 13 35.90 -0 9
SPC 73 84 4 eP 13 43 70 5.3
e 13 49 30
HAU 73 86 14 eP 13 37 50 -0 9
BSF 74 09 13 eP 38 60 -1 2
LOR 74 25 15 eP 39 60 -1 0
0.8s 4.05nm 4 4mb
SSF 74 40 16 eP 40 60 -0 8
1 0s 7.00nm 4 5mb
AVF 74.64 16 eP 41 70 -1 1
0 8s 3 35nm 4 3mb
ZST 74 68 eP 3 44 60 1 6
BGF 74.79 16 eP 13 41 80 -0 9
1.0s 8 00nm 4 6mb

SMF 74 85 16 eP 13 42.90 -1.
1.0s 5.00nm 4.4mb
TCF 74.95 17 eP 13 43.40 -1.
1.0s 4.00nm 4.3mb
MAF 75.07 17 eP 13 44.30 -1.
0.8s 2.70nm 4 2mb
WTTA 75.19 10 iPKPd 13 45.30 -0.
0.9s 24.50nm 5.1mb
i 13 56 00
i 13 58.10
KBA 75.52 9 iPKPd 13 47.30 -0.
1.0s 32.20nm 5.2mb
i 13 59.20
i 14 00.20
LFF 76.03 18 eP 13 50.20 -0.
1.0s 8.00nm 4.6mb
CAF 76.26 17 eP 13 51.40 -0.
1.0s 5.00nm 4.4mb
LPL 76.36 14 eP 13 53.30 0
LPG 76.38 14 eP 13 53.60 0.
GAR 77.12 326 eP 13 55.80 -1.
SBF 78.08 14 eP 14 01.60 -0.
0.8s 8.05nm 4 8mb
PGF 79.56 13 eP 14 09.70 -0.
0.8s 5.35nm 4.5mb
SKO 81.09 3 iP 14 30.50 12.
GUN 81.41 309 P 14 20.26 -0.
KKN 81.77 310 P 14 21.50 -0.
GKN 81.85 310 P 14 22.22 -0.
PKI 81.90 309 P 14 23.22 0.
OHR 81.92 4 eP 14 18.00 -4.
DMN 82.00 310 P 14 23.78 0
MAIO 82 62 333 eP 14 38.00 11.
CHG 83 22 294 eP 14 40.00 10.
SPA 147.06 180 iPKPd 21 43.60 0
1.2s 29.58nm
i 21 57.50
156 obs ossocioted

& SEP 10, 1991 05h 57m 03.70s
46.939 N 120.329 W
DEPTH = 4.8km
WASHINGTON
<SEA> MD 2.7 (SEA)

EBG 0.17 260 Pd 57 07.30 0.
VTG 0.23 85 P 57 08.86 0
TBM 0.30 321 Pc 57 10.66 1
S 57 16.38
BVW 0.33 113 Pc 57 11.09 0.
S 57 17.26
MXC 0.36 176 P 57 11 29 0.
S 57 17.85
NAC 0.40 239 Pd 57 12.64 0.
S 57 20.11
TWW 0.42 299 P 57 12.91 0.
YAKW 0.44 198 P 57 13.35 0.
MDW 0.51 130 P 57 14.28 0.
BRVW 0.51 153 Pd 57 14.51 0.
WAH2 0.56 109 P 57 15.07 0
RC1 0.61 89 P 57 15 98 0
EPH 0.65 50 Pc 57 16.35 -0.
LOCW 0.65 109 Pc 57 17.07 0.
CRF 0.66 100 Pc 57 16.80 0.
ETW 0.67 360 Pc 57 16.64 -0
GBL 0.69 119 Pc 57 17.72 0.
RSW 0.75 137 Pc 57 18.83 0.
OT2 0.78 106 P 57 19.02 -0.
WTV 0.80 18 P 57 19.05 -0.
WRD 0.81 87 P 57 19 46 -0.
PRW 0.85 148 P 57 20.48 -0.
WPW 0.87 254 P 57 20.22 -0.
WIW 0.88 125 Pc 57 21 03 0.
CBSW 0.89 13 P 57 20.92 -0.
FMW 0.92 270 P 57 21.34 -0.
GLK 0.96 247 P 57 22.13 -0.
SAW 0.99 39 P 57 22 33 -0.
ET3 1.02 110 P 57 23 24 -0.
LON 1.03 260 P 57 23.12 -0.
GSM 1.04 285 P 57 23.56 -0.
GL2 1.04 199 P 57 23.57 -0.
REMR 1.04 264 P 57 23.58 -0.
DHW2 1.11 20 P 57 24.81 -0.
RVC 1.13 271 Pc 57 24.83 -0.
PMW 1.13 298 P 57 24.80 -0.
NLW 1.14 360 P 57 25 02 -0.
ASR 1.18 228 P 57 26.37 0.

```
10d  05h

ODZ       1.19  67 P      57 25.65   -0.8
HTW       1.31 312 P      57 28.12   -0.3
GULW      1.34 221 P      57 29.53    0.5
WG3       1.37 131 P      57 28.77   -0.6
KOSW      1.37 250 P      57 29.06   -0.4
LMW       1.37 259 P      57 29.68    0.0
TDL       1.43 246 P      57 30.45    0.0
SOSW      1.43 241 P      57 30.87    0.4
CDFW      1.44 236 P      57 30.75    0.1
VGB       1.46 192 P      57 30.35   -0.4
ESD       1.46 240 P      57 31.53    0.6
BLH       1.46 308 P      57 31.03    0.2
STD       1.48 242 P      57 31.46    0.3
JLK       1.49 238 P      57 31.36    0.1
HSR       1.49 240 P      57 32.05    0.7
SHW       1.51 241 P      57 32.59    1.0
JBO       1.52 167 P      57 31.39   -0.2
APM       1.52 218 P      57 32.09    0.4
FL2       1.58 243 P      57 32.96    0.4
CZM       1.58 252 P      57 32.98    0.5
MTMW      1.59 236 P      57 32.97    0.3
JCW       1.66 320 P      57 33.89    0.3
LVP       1.68 240 P      57 34.33    0.3
DPW       1.72  56 P      57 33.27   -1.3
VLL       1.75 213 P      57 35.57    0.6
VTHM      1.77 185 P      57 34.83   -0.4
LNOR      1.77 126 P      57 35.83    0.5
GMW       1.78 291 P      57 35.92    0.5
VFP       1.80 206 P      57 36.25    0.4
VLMM      1.84 221 P      57 37.41    1.1
TDH       1.94 212 P      57 38.75    1.0
HDW       1.99 292 P      57 39.06    0.6
CROR      2.01 193 P      57 38.41   -0.4
BMW       2.05 258 P      57 39.85    0.5
VBEM      2.07 205 P      57 39.84    0.1
BLN       2.09 302 P      57 40.62    0.8
SMW       2.09 282 P      57 41.24    1.3
MBW       2.13 331 P      57 42.20    1.7
NLO       2.32 250 P      57 45.66    2.4
NEW       2.54  57 eP     57 51.50    5.1
      78 obs. associated
-----------------------------------------
%  SEP 10, 1991  06h 13m 19.55± 1.00s
   33.629 S ± 9.4km    71.483 W ± 9.9km
   DEPTH =  33.0km  (normal)
 NEAR COAST OF CENTRAL CHILE        (135)

LCCH      0.17 335 iP     13 26.00    0.1
               iS     13 31.50
LNV       0.33 170 iPd    13 27.60   -0.1
               iS     13 35.00
TACH      0.46  93 iP     13 30.00    0.5
               iS     13 38.50
CHCH      0.76 114 iPc    13 33.70   -0.1
               iS     13 45.50
PCH       0.81  90 iPd    13 34.50   -0.1
               iS     13 47.00
PEL       0.82  54 iP     13 34.50   -0.3
               iS     13 47.00
     S.D. = 0.3  on   6 of   6 obs.
-----------------------------------------
?  SEP 10, 1991  06h 19m 47.86± 3.52s
   44.813 N ± 9.4km    6.677 E ±26.1km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                             (538)
     ML 1.7 (GEN).

RRL       0.13  36 P      19 51.08   -0.2
               S      19 53.64
BHB       0.42  86 P      19 56.20   -0.2
               S      20 01.64
PZZ       0.43 135 P      19 56.82    0.1
               S      20 02.83
RSP       0.53  50 P      19 58.97    0.3
     S.D. = 0.4  on   4 of   4 obs.
-----------------------------------------
   SEP 10, 1991  06h 54m 04.55± 0.35s
   24.182 N ± 7.4km   68.642 E ± 4.9km
   DEPTH =  32.8km  ( 2 depth phases)
   4.7mb ( 30 obs.) 4.0Msz ( 6 obs.)
 INDIA-PAKISTAN BORDER REG.         (712)

QUE       6.17 346 eP     55 35.50   -0.4
POO       7.43 138 iPc    56 32.60   39.2X
NDI       8.90  58 eP     56 11.40   -2.4
               iS     58 01.00
HYB      11.45 124 eP     56 44.50   -4.4X
                   eS     58 57.00
GBA      13.41 140 Pd     57 11.20   -3.8X
          1.5s    49.10nm            5.2mb
MAIO     14.42 329 eP     57 27.00   -1.4
                   eS     00 56.00
GKN      14.87  72 P      57 30.08   -4.2X
DMN      15.20  74 P      57 33.58   -5.2X
KKN      15.39  73 P      57 35.00   -6.1X
PKI      15.46  74 P      57 35.40   -6.9X
GUN      15.93  73 P      57 39.88   -8.4X
KOD      16.22 147 eP     57 51.60   -0.4
LSA      20.79  70 iPc    58 45.30   -0.7
WMQ      25.06  34 P      59 28.50    1.1
     Z   13s     1.10um            4.5MszX
     N   10s     0.90um
                   sP     59 43.50
                   S      03 50.00
CHG      28.66  95 eP     00 01.00    0.4
CHTO     28.66  95 iP     00 00.30   -0.3
          1.2s    14.58nm            4.6mb
GTA      30.35  53 eP     00 15.40   -0.3
          0.8s    10.00nm            4.7mb
     Z   20s     1.20um             4.5Msz
     N   10s     0.60um
                   pP     00 23.00   26km
GYA      34.36  78 P      00 50.00   -0.8
          0.8s     8.00nm            4.7mb
                   pP     01 01.00   40km
PSI      36.21 122 ePc    01 09.20    2.7X
                   e      02 40.00
XAN      36.34  65 Pc     01 06.50   -0.9
     N   15s     0.80um
BTO      38.20  54 eP     01 24.10    1.0
VRI      39.98 313 eP     01 49.00   11.3X
MLR      40.39 313 eP     01 45.00    3.8X
TIA      43.18  62 eP     02 04.60    0.5
NJ2      44.65  68 Pd     02 16.00    0.0
KRA      45.58 317 iPc    02 24.10    1.0
SSE      46.70  69 P      02 32.50    0.3
          1.0s    10.00nm            4.7mb
KAF      47.39 335 iP     02 37.00   -0.3
          0.3s     0.70nm            4.1mb
VBY      47.73 310 e(P)   02 40.00   -0.2
KSP      48.03 318 eP     02 43.70    1.2
BRG      49.49 317 iPc    02 55.20    1.5
          1.0s    17.00nm            5.0mb
SFI      49.98 308 P      02 59.60    2.1
CN2      49.99  52 eP     02 59.00    1.4
     Z   18s     0.60um             4.6Msz
PGD      50.07 308 P      02 59.80    1.3
CLL      50.16 318 eP     03 00.00    1.2
          1.2s     9.00nm            4.7mb
OGA      50.81 312 iPc    03 04.10    0.0
          0.7s     6.00nm            4.7mb
MOX      50.91 317 iPd    03 06.20    1.7
          1.2s    17.00nm            4.9mb
GRF      51.01 315 iPc    03 06.50    1.1
          1.0s     8.00nm            4.6mb
     Z   18s     0.10um             3.9Msz
CDF      53.46 313 eP     03 22.80   -1.0
          0.8s     5.35nm            4.6mb
NB2      53.48 329 P      03 22.30   -1.3
          0.9s     4.90nm            4.5mb
LPL      53.70 310 eP     03 24.70   -1.1
          1.0s     4.00nm            4.4mb
BSF      53.75 313 eP     03 25.10   -0.8
          0.8s     8.05nm            4.8mb
MTD      54.46 225 iPc    03 29.90   -1.5
LBF      55.63 311 eP     03 38.60   -1.0
          0.8s     6.70nm            4.7mb
LOR      55.72 312 eP     03 39.10   -1.1
          0.8s     5.35nm            4.6mb
     Z   22s     0.08um             3.7Msz
SMF      55.73 311 eP     03 39.40   -0.9
          1.0s    10.00nm            4.8mb
SSF      55.96 312 eP     03 41.00   -0.9
          0.8s     5.35nm            4.6mb
TCF      56.86 311 eP     03 47.50   -0.9
          0.8s     4.05nm            4.5mb
CAF      57.00 309 eP     03 48.90   -0.6
          1.0s    10.00nm            4.8mb
RJF      57.38 309 eP     03 51.70   -0.4
          0.8s     5.35nm            4.6mb
     Z   20s     0.10um             3.9Msz
LPO      57.64 309 eP     03 53.40   -0.5
          1.0s    12.00nm            4.9mb
LDF      58.38 313 eP     03 58.20   -0.8
          1.0s     8.00nm            4.8mb
FLN      58.62 314 eP     03 59.80   -0.8
          1.0s    12.00nm            5.0mb
     Z   20s     0.08um             3.8Msz
BUL      58.83 225 iPc    04 03.40    0.8
WR2      77.58 119 iPc    05 59.40    0.0
          0.7s     9.90nm            5.0mb
ASPA     79.17 122 iPc    06 08.00   -0.1
          1.0s    10.80nm            4.8mb
MBC      79.69   2 eP     06 11.00    1.1
          0.8s     9.00nm            4.8mb
IMA      84.47  16 eP     06 35.80    0.7
          1.3s    14.10nm            5.0mb
INK      86.35   8 eP     06 46.00    1.8
FBA      86.85  15 eP     06 47.70    0.9
CTA      87.42 113 iP     06 51.00    0.8
          1.0s    12.50nm            5.1mb
     S.D. = 1.1  on  50 of  61 obs.
-----------------------------------------
   SEP 10, 1991  07h 20m 04.84± 0.42s
   24.268 N ± 8.3km   68.810 E ± 5.3km
   DEPTH =  25.7km  ( 2 depth phases)
   4.8mb ( 31 obs.) 4.2Msz ( 6 obs.)
 INDIA-PAKISTAN BORDER REG.         (712)

QUE       6.13 345 eP     21 36.30    0.1
          1.0s   325.00nm          6.0mb X
                   eS     22 53.30
POO       7.39 140 iPc    22 28.00   34.2X
                   iS     24 07.50
NDI       8.72  58 iPd    22 12.00   -0.4
                   iS     24 00.00
HYB      11.37 125 eP     22 48.00   -0.8
                   eS     25 00.00
GBA      13.38 141 Pd     23 12.60   -3.0X
          1.0s    18.90nm            5.0mb
MAIO     14.43 328 eP     23 29.00   -0.5
                   eS     27 03.00
GKN      14.69  72 P      23 33.04    0 0
GAR      14.74   5 iP     23 32.80   -0.8
                   eS     26 37.50
DMN      15.03  74 P      23 36.68   -0.9
KKN      15.21  73 P      23 38.46   -1.4
          0.8s   123.00nm            5.3mb
PKI      15.29  74 P      23 39.66   -1.4
GUN      15.76  73 P      23 44.92   -2.2
          0.9s   248.00nm            5.4mb
KOD      16.21 148 eP     23 53.30    0.4
KSH      16.31  20 eP     24 00.00    6.2X
     E   10s     7.90um
LSA      20.62  70 P      24 47.50    2.1
WMQ      24.90  34 P      25 31.70    4.6X
     Z   13s     1.10um            4.5MszX
     N   10s     0.90um
                   S      29 46.00
                   sS     30 08.00
CHG      28.52  95 eP     26 03.00    2.5
          1.3s    19.23nm            4.7mb
CHTO     28.52  95 eP     26 02.30    1.8
          1.0s    10.50nm            4.5mb
                   pP     26 13.90   44kmX
GTA      30.18  53 P      26 19.00    3.6X
          1.0s    10.00nm            4.6mb
     Z   20s     1.50um             4.6Msz
     N   11s     0.80um
                   pP     26 26.40   25km
                   sP     26 34.00
LZH      32.33  60 eP     26 35.00    0.6
          1.8s    28.00nm            4.9mb
     Z   24s     0.63um            4.2MszX
     N   12s     0.73um
                   pP     26 42.50   26km
GYA      34.20  78 P      26 54.00    3.4X
          1.0s    20.00nm            5.0mb
XAN      36.16  65 eP     27 07.00   -0.2
     N   14s     0.90um
BTO      38.02  55 eP     27 27.80    5.0X
BJI      42.57  57 eP     28 05.00    4.8X
          1.5s    18.00nm            4.6mb
     Z   14s     0.59um            4.6MszX
     N   14s     0.41um
NJ2      44.48  68 eP     28 15.00   -0.8
KRA      45.62 317 iPc    28 28.20    3.5X
                   i      28 31.00   9kmX
SSE      46.53  69 eP     28 22.50   -9.6X
          1.2s    20.00nm            5.0mb
     Z   20s     0.50um             4.5Msz
```

```
                    e      28 35.50   48kmX
KAF     47.38 334 iP       28 41.20    2.7
        0.8s    11.80nm              5.0mb
KSP     48.07 317 eP       28 44.60    0.5
BRG     49.53 317 iP       28 56.50    1.2
        1.2s    17.00nm              5.0mb
CN2     49.81  52 eP       29 01.00    3.5X
     Z  18s     0.90um               4.8Msz
CLL     50.20 317 eP       29 03.00    2.6
        1.0s    10.00nm              4.8mb
SOD     50.31 340 eP       29 04.00    3.0X
WTTA    50.49 312 iPd      29 04.70    1.8
        0.9s     2.30nm              4.2mb
MOX     50.95 316 ePc      29 07.20    1.1
        1.2s    25.00nm              5.0mb
KEV     51.69 343 eP       29 11.00   -0.4
MDJ     52.83  51 eP       29 20.50    0.2
NB2     53.48 329 P        29 23.80   -1.2
        1.0s     6.40nm              4.6mb
CDF     53.52 313 eP       29 24.60   -0.9
        0.8s     5.35nm              4.6mb
LPG     53.75 310 eP       29 26.50   -1.0
        0.8s     4.05nm              4.5mb
LPL     53.76 310 eP       29 26.60   -0.9
        0.8s     3.35nm              4.4mb
BSF     53.81 312 eP       29 26.80   -0.8
        0.7s     8.80nm              4.9mb
MTD     54.63 225 iPc      29 31.10   -2.9
LBF     55.69 311 eP       29 40.40   -1.0
        0.8s     4 05nm              4.5mb
LOR     55.78 312 eP       29 40.60   -1.3
        0.6s     2.70nm              4.5mb
     Z  20s     0.10um               3.9Msz
SMF     55.79 311 eP       29 41.00   -1.0
        0.8s     6.70nm              4.7mb
SSF     56.02 311 eP       29 42.90   -0.7
        0.8s     4.05nm              4.5mb
AVF     56.12 311 eP       29 43.20   -1.2
        0.8s     4.05nm              4.5mb
CAF     57.07 309 eP       29 50.80   -0.4
        1.0s     9.00nm              4.8mb
RJF     57.44 309 eP       29 53.10   -0.7
        1.0s     8.00nm              4.7mb
     Z  20s     0.10um               3.9Msz
LFF     58.01 309 eP       29 57.20   -0.5
        0.8s    10.75nm              4.9mb
FLN     58.67 314 eP       30 01.40   -0.9
        0.8s    10.75nm              5.0mb
     Z  22s     0.10um               3.9Msz
BUL     59.00 225 iPc      30 04.60   -0.5
KIC     72.43 269 P        31 31.60    0.2
TIC     72.57 270 P        31 32.40    0.1
LIC     72.75 269 P        31 35.80    2.5
ASPA    79.09 122 iPd      32 09.60    0.6
        1.2s    17.40nm              5.0mb
MBC     79.60   2 eP       32 13.00    2.3
        0.9s    19.00nm              5.1mb
INK     86.24   8 eP       32 47.00    2.0
     S.D. = 1.4  on  47 of  59 obs.
-----------------------------------------
&  SEP  10, 1991  07h 30m 03.00s
   32.490 N          115.230 W
   DEPTH =   6.0km  (geophysicist)
 CALIF.-BAJA CALIF. BORDER REGION( 45)
      <PAS-P>. ML 3.2 (PAS).

GLA     0.66  31 iPd    30 14.90   -1.3
                eS     30 23.70
IKP     0.76 282 eP     30 17.20   -1.0
                eS     30 27.10
BAR     1.23 279 eP     30 24.20   -2.1
                eS     30 40.50
HAY     1.26 344 eP     30 23.90   -2.9
PLM     1.62 303 eP     30 29.20   -3.2
PEC     2.14 311 eP     30 40.00    0.2
SSK     2.68 310 eP     30 48.50    0.8
        7 obs. associated
-----------------------------------------
%  SEP  10, 1991  07h 36m 14.18± 1.07s
   40.416 N ± 8.1km   26.384 E ±10.5km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)

ALN     0.55 332 eP     36 24.50   -0.7
EZN     0.59 184 iPg    36 27.00    0.9
                eSg    36 35.00
MFT     0.78  61 iPg    36 29.80    0.4
CTT     1.72  64 ePn    36 44.80    0.5
DMK     1.75  36 ePn    36 45.50    0.8
DST     1.90 114 ePn    36 45.10   -1.9
YLV     2.28  85 ePn    36 50.00   -2.6X
     S.D. = 1.4  on   6 of   7 obs.
-----------------------------------------
&  SEP  10, 1991  07h 46m 59.50s
   32.490 N          115.230 W
   DEPTH =   6.0km  (geophysicist)
 CALIF.-BAJA CALIF. BORDER REGION( 45)
      <PAS-P>. ML 3.0 (PAS).

GLA     0.66  31 iPd    47 11.30   -1.4
                eS     47 20.10
IKP     0.76 282 eP     47 13.60   -1.1
                eS     47 24.10
BAR     1.23 279 eP     47 20.70   -2.1
                eS     47 38.00
HAY     1.26 344 eP     47 20.40   -2.9
PLM     1.62 303 eP     47 25.70   -3.2
PEC     2.14 311 eP     47 36.50    0.2
SSK     2.68 310 eP     47 48.50    4.3
        7 obs. associated
-----------------------------------------
&  SEP  10, 1991  08h 18m 30.80s
   32.040 N          116.380 W
   DEPTH =   6.0km  (geophysicist)
 CALIF.-BAJA CALIF. BORDER REGION( 45)
      <PAS-P>. ML 3.2 (PAS).

IKP     0.65  21 ePc    18 42.60   -1.2
                eS     18 51.50
BAR     0.68 339 eP     18 43.30   -1.2
                iS     18 52.30
PLM     1.37 343 eP     18 53.60   -3.0
GLA     1.66  52 eP     18 58.50   -2.0
PEC     1.96 341 eP     19 04.30   -0.7
SSK     2.43 333 eP     19 13.50    1.7
        6 obs. associated
-----------------------------------------
*  SEP  10, 1991  08h 38m 10.39± 1.09s
   12.785 N ± 7.5km  124.170 E ±22.2km
   DEPTH =  58.2 ± 11.7 km
   4.7mb (  3 obs.)
 SAMAR, PHILIPPINE ISLANDS       (251)

MAP     2.45 184 iPd    38 48.00   -0.7
                iS     39 20.00
CGP     4.33 173 iPc    39 16.00    0.7
                iS     40 12.00
CVP     5.39 335 eP     39 29.80   -0.4
DAV     5.83 166 eP     39 41.00    4.7X
SSE    18.43 352 eP     42 24.00    0.7
TIA    24.17 346 eP     43 22.70    0.3
XAN    25.30 329 P      43 32.70   -0.5
CD2    26.08 317 eP     43 40.40    0.0
TIY    26.95 339 eP     43 48.00   -0.3
SNY    28.94 359 eP     44 02.30   -3.8X
HHC    30.06 341 P      44 17.10    0.7
QIS    36.44 155 eP     45 10.00   -1.6
        0.9s     6.00nm              4.5mb
ASPA    37.46 165 iPc    45 20.80    0.7
        0.3s     9.20nm              5.2mb
                eS     51 07.20
WARB    38.81 176 eP     45 32.00    0.6
STK     47.45 160 eP     46 41.50    0.3
        0.6s     4.10nm              4.6mb
CMS     48.68 155 eP     46 51.00    0.2
INK     82.72  21 eP     50 28.00   -0.8
MBC     83.72  12 eP     50 34.00    0.1
     S.D. = 0.7  on  16 of  18 obs.
-----------------------------------------
&  SEP  10, 1991  08h 56m 41.71s
   64.867 N          144.558 W
   DEPTH =   9.0km
 CENTRAL ALASKA                  (  1)
      <AEIC>. ML 2.5 (AEIC).

DJE     0.97 210 eP     57 00.60    0.3
                S      57 13.79
HDA     1.13 247 eP     57 02.36   -0.6
                eS     57 19.35
GLM     1.21 277 eP     57 04.02   -0.4
                eS     57 21.40
FBA     1.38 273 eP     57 07.03   -0.1
                eS     57 26.09
CCB     1.41 262 eP     57 07.58    0.1
                eS     57 27.51
MDM     1.57 275 eP     57 10.29    0.5
                eS     57 31.59
WRH     1.57 257 eP     57 08.47   -1.3
                eS     57 30.81
TMW     1.69 155 eP     57 12.21    0.6
                eS     57 34.20
FYU     1.73 351 eP     57 12.16    0.1
                eS     57 34.10
PAX     1.95 192 eP     57 15.15   -0.2
                eS     57 41.77
NEA     1.96 264 eP     57 15.16   -0.3
MCK     2,22 241 eP     57 18.00   -1.3
BWN     2.23 254 eP     57 19.34   -0.1
SDG     2.39 191 eP     57 22.27    0.6
TRF     2.88 243 eP     57 27.42   -1.4
INK     5.59  47 P      58 03.00   -4.0
        0.3s     0.90nm              3.9mb
        16 obs. associated
-----------------------------------------
*  SEP  10, 1991  11h 24m 31.13± 0.51s
   14.332 S ±17.9km  167.184 E ±15.2km
   DEPTH =  33.0km  (normal)
   4.7mb (  8 obs.)
 VANUATU ISLANDS                 (186)

BKM     3.47 163 iPd    25 34.90   10.7X
                iS     26 19.00
DZM     7.73 185 iPc    26 27.80    3.5X
                iS     28 03.80
HNR     8.59 304 P      26 38.00    1.7X
                eS     28 03.00
CTA    20.79 251 iPc    29 13.20    1.1
        0.9s    10.50nm              4.2mb
RMQ    21.05 232 iPc    29 26.70   11.9X
        0.7s    56.00nm
QLP    24.67 237 iPc    29 51.50    1.1
        0.5s    41.00nm              5.3mb
CMS    25.96 225 eP     30 04.00    1.5
QIS    27.01 253 iPc    30 11.40   -0.8
STK    29.19 229 iPc    30 33.00    1.1
        0.4s     8.60nm              4.8mb
WR2    31.82 255 iPc    30 53.50   -1.8
        0.6s     5.40nm              4.6mb
ASPA   32.74 248 iPc    31 01.60   -1.7
        0.5s     9.10nm              4.9mb
WARB   39.66 246 iPd    32 02.00    0.0
        0.3s     2.00nm              4.4mb
CHG    74.84 294 eP     36 11.00    0.3
CHTO   74.84 294 eP     36 09.90   -0.7
        0.6s     1.96nm              4.3mb
SPA    75.76 180 iPc    36 13.20   -2.1
        0.5s     9.26nm              5.0mb
KAF   124.80 339 iPKP   43 28.60   -0.1
        0.5s     2.20nm
NUR   126.47 338 ePKP   43 32.90    0.9
ROI   143.98 320 PKP    44 04.80   -0.5
FLN   144.19 346 ePKP   44 03.80   -1.5
        0.6s     5.40nm
LDF   144.26 346 ePKP   44 04.20   -1.2
        0.4s     2.30nm
CZI   144.47 320 PKP    44 05.00   -1.0
LBF   144.55 340 ePKP   44 05.70   -0.3
        0.6s     2.70nm
GRR   144.63 346 ePKP   44 05.70   -0.3
        0.4s     4.00nm
SSF   144.63 341 ePKP   44 06.20    0.1
        0.6s     4.50nm
LPL   144.80 336 iPKPc  44 07.40    0.7
        0.6s     4.05nm
LPG   144.81 336 iPKPc  44 07.30    0.5
        0.6s     7.20nm
SMF   144.89 340 iPKPc  44 07.00    0.5
        0.6s     6.30nm
AVF   144.92 341 iPKPc  44 06.90    0.3
        0.7s     8.80nm
LPF   145.01 346 ePKP   44 07.20    0.6
        0.6s    11.70nm
BGF   145.29 341 iPKPc  44 08.40    1.2
        0.6s    14.00nm
MAF   145.68 341 iPKPc  44 09.80    1.9X
        0.8s     8.05nm
TCF   145.73 341 ePKP   44 09.10    1.1
        0.8s     6.05nm
SBF   145.85 334 ePKP   44 09.40    1.0
        0.6s    14.45nm
LSF   145.97 342 ePKP   44 10.20    1.8X
```

10d 11h

	0.6s	6.30nm				
MFF	146.12	344	ePKP	44	10.80	2.2X
	0.6s	8.10nm				
PGF	146.17	330	ePKP	44	10.70	1.7X
	0.6s	14.45nm				
FRF	146.44	334	ePKP	44	11.40	2.2X
	0.6s	18.95nm				
LRG	146.64	334	ePKP	44	12.10	2.6X
	0.6s	12.65nm				
LMR	146.68	334	ePKP	44	12.20	2.6X
	0.5s	10.20nm				
RJF	146.83	341	ePKP	44	13.00	3.2X
	0.8s	8.05nm				
CAF	146.99	340	ePKP	44	13.40	3.3X
	0.8s	5.35nm				
LFF	147.39	342	ePKP	44	14.80	4.1X
	0.6s	12.65nm				
LPO	147.49	341	ePKP	44	15.10	4.2X
	0.6s	7.20nm				
	S.D. = 1.1	on	28 of	43	obs.	

---

* SEP 10, 1991 11h 45m 49.49± 1.27s
7.404 S ± 6.1km 128.371 E ±10.6km
DEPTH = 162.8 ± 15.8 km
4.9mb (14 obs.)
BANDA SEA (280)

MTN	6.05	154	iPc	47	17.10	-0.8
KNA	8.30	177	eP	47	47.00	-0.9
	0.3s	29.00nm			5.4mb	
			eS	49	10.00	
WR2	13.76	156	iPd	48	55.00	-4.0X
	0.3s	55.80nm			5.4mb	
			iS	51	19.10	
MBL	15.97	210	eP	49	27.00	0.4
			eS	52	12.00	
CGP	16.17	347	eP	49	31.00	1.9
ASPA	17.02	162	iPc	49	38.10	-1.3
	0.6s	34.00nm			4.9mb	
			eS	52	32.10	
PMG	18.69	97	eP	50	00.00	2.1
	0.8s	74 63nm			5.1mb	
WARB	18.75	185	eP	49	59.50	0.9
NANU	19.49	218	eP	50	07.50	1.2
			eS	53	39.00	
OLP	24.32	144	eP	50	56.30	2.8X
KLB	26.02	201	eP	51	09.50	0.3
MUN	26.95	203	eP	51	17.50	-0.1
PSI	31.05	288	ePc	51	55.50	1.2
			e	53	00.00	
CHG	38.99	312	ePc	53	02.50	0.7
	1.2s	21.09nm			4.7mb	
CHTO	38.99	312	eP	53	02.30	0.5
	1.1s	13.84nm			4.6mb	
WHN	40,06	341	Pd	53	11.20	0.9
	1.0s	30.00nm			4.9mb	
NJ2	40,27	347	Pd	53	12.00	0.0
CD2	44.80	329	eP	53	48.60	-0.2
XAN	45.15	337	P	53	50.20	-1.4
TIY	47.29	343	eP	54	06.90	-1.5
	0.8s	20.00nm			4.8mb	
BJI	48.53	348	eP	54	16.50	-1.3
	1.0s	16.00nm			4.6mb	
LZH	49.02	334	iPc	54	22.00	0.1
	1.5s	68.00nm			5.1mb	
HHC	50.44	343	P	54	32.30	-0.3
GTA	53.56	333	iPc	54	55.50	-0.3
	1.0s	20.00nm			4.8mb	
GUN	54.01	312	P	54	59.40	-0.2
PKI	54.17	312	P	55	00.00	-0.8
	0.6s	10.00nm			4.8mb	
KKN	54.39	312	P	55	01.60	-0.6
	0.6s	13.00nm			4.9mb	
DMN	54.42	312	P	55	02.00	-0.5
GKN	54.98	312	P	55	05.80	-0.6
	0.5s	24.00nm			5.3mb	
WMO	62.86	328	eP	56	00.10	-0.2
LIC	133,73	272	PKP	04	50.20	0.7
CNCB	151.01	146	PKP	05	22.00	2.0X
			i	05	28.00	
LPB	151.17	146	(PKP)	05	31.00	11.0X
ZOBO	151.37	145	PKP	05	27.00	6.5X
CCH	151.50	150	ePKP	05	28.00	7.6X
	S.D. = 1.0	on	29 of	35	obs.	

SEP 10, 1991 12h 15m 39.47± 0.84s
37.203 N ± 7.3km 118.965 W ±10.1km
DEPTH = 10.0km (geophysicist)
CALIFORNIA-NEVADA BORDER REGION (40)
MD 3.0 (GM).

BONR	0.92	35	iPd	15	57.50	0.3
CMB	1.40	307	iP	16	04.40	-0.7
PHAM	1.79	221	eP	16	11.50	0.9
ARN	2.05	275	eP	16	14.80	0.3
BCH	2.21	205	eP	16	16.50	-0.3
ABL	2.36	185	eP	16	18.50	-0.5
	S.D. = 0.8	on	6 of	6	obs.	

---

* SEP 10, 1991 13h 27m 30.86± 1.67s
24.690 N ± 9.5km 122.460 E ±15.6km
DEPTH = 10.0km (geophysicist)
TAIWAN REGION (243)

TWC	0.56	262	iPd	27	41.00	-1.2
			eS	27	47.10	
TWZ	0.90	297	ePc	27	49.70	1.6
			eS	28	01.70	
TWD	0.99	233	ePc	27	48.70	-1.0
TWK	2.29	232	ePc	28	10.40	1.0
SSE	6.48	350	Pnd	29	07.80	-0.8
			i	29	37.80	
			Sn	30	20.00	
			Sg	31	04.00	
CVP	6.98	185	eP	29	16.00	0.4
	S.D. = 1.5	on	6 of	6	obs.	

% SEP 10, 1991 13h 51m 26.77± 0.71s
43.554 N ±14.0km 12.167 E ±10.8km
DEPTH = 33 0km (normol)
CENTRAL ITALY (381)

CRE	0.17	295	P	51	33.70	0.4
			eSg	51	38.10	
SFI	0.43	328	P	51	36.20	-0.1
			eSg	51	43.00	
PGD	0.46	315	P	51	36.50	-0.4
			eSg	51	42.10	
ARV	0.57	95	P	51	38.60	0.2
			eSg	51	46.40	
ASS	0.60	143	P	51	38.60	-0.3
			eSg	51	47.60	
BDI	1.25	295	P	51	48.20	0.2
			eSg	52	04.50	
	S.D. = 0.4	on	6 of	6	obs.	

& SEP 10, 1991 14h 00m 33.70s
36.155 N 123.077 W
DEPTH = 35.0km
OFF COAST OF CALIFORNIA (38)
<8RK>. ML 3.1 (BRK).

GCC	1.23	45	e(P)	00	52.25	-2.5
			e	00	59.22	
			eS	01	09.71	
PRS	1.39	82	iPd	00	58.15	1.0
			eS	01	11.92	
SAO	1.45	65	iPd	00	57.18	-0.8
			e	01	04.34	
PCC	1.45	22	eP	00	56.28	-1.7
			e	01	02.26	
MHC	1.65	44	eP	00	59.40	-1.6
ARN	1.72	46	eP	01	00.00	-1.8
BKS	1.85	21	e(P)	01	00.30	-3.3
ZSP	1.90	20	eP	01	01.15	-3.2
			eS	01	13.52	
PRI	1.95	90	ePd	01	06.74	1.5
			eS	01	30.50	
PHAM	2.20	98	eP	01	18.00	9.4
BCH	2.62	111	e(P)	01	17.50	2.8
FRI	2.84	72	eP	01	20.98	3.3
			eS	01	47.29	
CMB	2.86	48	eP	01	16.70	-1.3
	13 obs. associated					

% SEP 10, 1991 14h 12m 52.51± 0.84s
41.084 N ±11.4km 28.506 E ± 7.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

CTT	0.09	317	iPg	12	54.80	-0.3
ISK	0.42	92	ePg	13	02.00	0.9
YLV	0.84	128	ePn	13	07.70	-1.0
DMK	0.93	323	iPg	13	09.90	-0.3
			eSg	13	22.40	
MFT	0.97	253	ePn	13	11.70	0.6
	S.D. = 1.1	on	5 of	5	obs.	

% SEP 10, 1991 15h 30m 45.01± 0.73s
40.811 N ±19.1km 25.315 E ± 6.0km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
MD 2.9 (THE).

ALN	0.56	81	ePd	30	55.38	-1.0
			eS	31	03.10	
OUR	1.12	245	ePc	31	05.46	-0.6
			eS	31	21.58	
SOH	1.49	271	ePc	31	11.30	-0.5
MFT	1.49	90	ePn	31	13.00	1.1
PAIG	1.53	235	ePd	31	12.58	0.2
			eS	31	33.42	
KNT	1.86	282	iPd	31	17.02	-0.2
			eS	31	43.90	
GRG	2.21	275	ePd	31	23.42	1.1
	S.D. = 1.0	on	7 of	7	obs.	

? SEP 10, 1991 15h 38m 10.50± 6.52s
32.278 S ±45.6km 71.670 W ±24.0km
DEPTH = 10.0km (geophysicist)
NEAR COAST OF CENTRAL CHILE (135)

ROCH	0.89	141	iPd	38	27.50	-0.2
			iS	38	43.40	
JACH	1.00	114	iPd	38	29.40	0.0
			iS	38	45.90	
PEL	1.20	136	iPc	38	33.00	0.1
			iS	38	51.20	
TACH	1.50	156	iP	38	37.50	0.0
			iS	38	59.30	
PCH	1.65	144	iP	38	39.70	-0.1
LNV	1.69	173	iP	38	40.00	-0.1
CHCH	1.86	153	iP	38	43.00	0.3
			iS	39	10.30	
	S.D. = 0.2	on	7 of	7	obs.	

SEP 10, 1991 15h 40m 06.74± 0.69s
15.855 S ± 6.1km 174.929 W ± 4.9km
DEPTH = 294.7 ± 7.1 km
4.9mb (25 obs.)
TONGA ISLANDS (173)

AFI	3.61	58	iPd	41	06.00	-2.9
			eS	41	26.00	
MBU	6.19	259	ePc	41	40.60	1.7
VUN	6.68	250	ePd	41	46.20	1.5
SVA	6.72	249	ePd	41	47.40	2.2
DZM	18.66	248	iPc	44	04.00	-1.5
KUZ	22.41	200	eP	44	45.30	3.4X
URZ	23.40	196	eP	44	50.90	-0.3
NOZ	23.51	194	eP	44	54.80	2.6
AFR	24.15	98	iP	44	59.00	0.7
	0.8s	25.00nm			4.7mb	
HNR	25.32	282	P	45	10.00	1.0
PGZ	25.83	195	eP	45	13.40	0.0
MNG	26.04	197	eP	45	15.30	-0.1
PMO	26.07	92	iP	45	16.60	0.8
	0.8s	70.00nm			5.2mb	
VAH	26.30	92	iP	45	18.50	0.6
	0.8s	50.00nm			5.0mb	
TPT	26.33	92	iP	45	19.00	0.8
	0.8s	45.00nm			5.0mb	
RUV	26.54	92	iP	45	20.50	0.5
	0.8s	80.00nm			5.2mb	
THZ	27.87	200	eP	45	32.20	0.4
DSZ	28.23	201	eP	45	35.00	0.0
KHZ	28.27	198	eP	45	35.10	-0.1
LTZ	28.99	200	P	45	40.70	-1.0
WVZ	29.77	201	eP	45	49.50	1.1
EWZ	30.11	201	eP	45	50.00	-1.4
BWZ	31.34	201	P	46	01.10	-1.0
BRS	32.05	244	iPc	46	07.60	-0.9
	0.5s	4.00nm			4.2mb	
COO	33.68	238	iPc	46	22.20	-0.3
	0.5s	18.00nm			4.9mb	
CTA	37.11	258	iPc	46	50.00	-1.3
	1.0s	65.00nm			5.0mb	
CNB	37.31	232	iPc	46	53.40	0.5
	0.6s	75.00nm			5.3mb	
PMG	37.51	275	eP	46	53.00	-1.6
CAN	37.59	232	eP	46	55.30	0.1

10d 15h

BWA 37.72 234 eP 46 54.00 -2.2
LAT 38.38 279 iPc 47 02.20 0.3
CMS 38.93 239 iPd 47 05.90 -0.3
0.2s 3.00nm 4.3mb
QLP 39.38 247 iPd 47 09.00 -1.0
0.6s 122.00nm 5.4mb
TOO 41.04 230 eP 47 23.50 0.0
0.9s 71.00nm 4.9mb
STK 42.54 240 iPd 47 36.00 0.4
0.7s 17.20nm 4.4mb
WR2 48.28 257 iPd 48 19.90 -0.9
0.6s 151.50nm 5.5mb
ASPA 48.57 252 iPd 48 22.50 -0.5
0.6s 726.60nm 6.2mb X
eS 54 59.20
MTN 52.23 266 eP 48 49.00 -1.5
FORR 53.86 243 eP 49 01.20 -1.1
WARB 55.11 249 iPd 49 10.60 -0.8
MBL 61.73 254 eP 49 55.70 -1.0
0.3s 10.00nm 4.9mb
KLB 62.72 242 eP 50 02.00 -1.2
NANU 65.51 252 eP 50 21.00 -0.2
MAT 68.34 321 iPd 50 36.40 -2.2
1.0s 12.00nm 4.6mb
SYP 72.35 45 eP 51 03.00 0.2
MWC 73.51 46 eP 51 09.00 -0.6
PLM 73.89 48 eP 51 11.00 -0.8
SBB 73.92 46 eP 51 12.00 0.2
ISA 74.01 45 eP 51 12.00 -0.3
CLC 74.69 45 eP 51 16.00 -0.1
CWC 74.70 44 eP 51 16.00 -0.3
GSC 74.96 46 eP 51 17.00 -0.7
GLA 75.20 49 eP 51 17.00 -2.0
TTA 79.91 9 eP 51 44.00 -0.1
CN2 80.49 321 eP 51 47.00 -0.4
SNY 80.62 318 eP 51 48.00 -0.1
1.2s 10.00nm 4.5mb
ALO 82.22 50 ePc 51 57.70 0.8
0.9s 12.40nm 4.7mb
IMA 83.22 9 eP 52 01.20 0.0
0.9s 7.10nm 4.5mb
LRM 83.29 39 ePc 52 02.30 0.2
BJI 84.72 314 eP 52 09.50 0.5
1.2s 22.00nm 4.9mb
TIY 86.42 311 Pd 52 18.00 0.5
GYA 86.96 298 P 52 21.80 1.4
1.2s 20.00nm 4.9mb
XAN 87.70 306 P 52 24.00 0.3
HHC 88.26 313 Pc 52 27.60 1.3
1.0s 20.00nm 5.0mb
INK 89.06 14 eP 52 29.00 -0.3
KMI 89.90 296 Pd 52 36.00 1.7
1.5s 38.00nm 5.1mb
CD2 90.79 302 P 52 39.40 1.3
CHG 91.46 289 eP 52 42.80 1.5
CHTO 91.46 289 iP 52 42.80 1.5
0.8s 6.95nm 4.6mb
LZH 92.31 307 eP 52 45.00 -0.2
1.2s 21.00nm 5.0mb
SPC 144.52 343 ePKP 59 12.60 2.8X
MOX 144.90 353 e(PKP)59 12.50 2.4X
PRU 145.10 349 ePKP 59 11.40 0.9
MLR 145.64 334 ePKP 59 13.00 1.3
GRF 145.88 353 ePKP 59 14.40 2.6X
1.4s 10.00nm
e 59 19.80
ZST 146.26 345 e(PKP)59 14.50 2.1X
e 00 29.60
FLN 146.87 7 ePKP 59 13.30 -0.1
0.6s 9.00nm
LDF 147.07 6 ePKP 59 15.90 2.2X
0.6s 4.50nm
GRR 147.19 7 ePKP 59 16.40 2.5X
0.6s 9.00nm
CDF 147.48 357 ePKP 59 17.50 3.0X
0.8s 8.05nm
LPF 147.52 8 ePKP 59 17.40 3.0X
0.6s 13.55nm
HAU 147.92 358 ePKP 59 19.30 4.1X
0.8s 5.35nm
WTTA 148.21 351 iPKPc 59 16.60 0.7
0.5s 7.50nm
i 59 17.20
i 59 19.60
i 59 25.00
LOR 148.66 2 ePKP 59 20.70 4.4X
0.8s 4.70nm

SSF 148.86 2 ePKP 59 21.20 4.6X
0.8s 6.70nm
LBF 148.95 1 ePKP 59 21.40 4.6X
0.8s 6.70nm
MFF 149.04 7 ePKP 59 21.50 4.6X
AVF 149.12 2 ePKP 59 21.00 4.0X
0.8s 2.70nm
VBY 149.23 346 ePKP 59 23.50 6.3X
BGF 149.33 3 ePKP 59 22.40 5.0X
0.8s 8.05nm
TCF 149.56 4 ePKP 59 22.40 4.6X
0.8s 3.35nm
MAF 149.65 3 ePKP 59 23.40 5.5X
0.8s 4.05nm
LPL 150.40 358 ePKP 59 26.00 6.7X
0.8s 4.05nm
LPG 150.42 358 ePKP 59 26.20 6.8X
0.8s 4.05nm
OHR 151.38 335 ePKP 59 22.30 1.6
S.D. = 1.1 on 74 of 95 obs.

& SEP 10, 1991 16h 30m 39.19s
63.577 N 148.085 W
DEPTH = 18.6km
CENTRAL ALASKA (1)
<AEIC>. ML 3.3 (AEIC), 3.9
(PMR).

RND 0.38 244 iPc 30 47.15 -0.1
MCK 0.41 293 iPd 30 47.66 0.0
BWN 0.85 315 iPd 30 54.76 -0.4
WRH 0.90 360 iPd 30 55.76 -0.2
eS 31 08.09
HUR 0.92 230 ePc 30 56.65 0.3
eS 31 09.44
HDA 0.97 30 iPc 30 56.79 -0.4
TRF 1.00 264 iPd 30 57.58 -0.1
THY 1.06 98 eP 30 57.76 -1.0
CCB 1.08 6 ePc 30 58.75 -0.3
eS 31 11.88
NEA 1.09 337 iPd 30 59.04 -0.3
S 31 14.48
DJE 1.16 66 iPc 30 59.79 -0.6
S 31 15.19
KTH 1.27 270 iPd 31 02.26 0.2
eS 31 19.31
PAX 1.33 116 ePd 31 02.15 -0.8
eS 31 20.33
FBA 1.33 5 iPc 31 03.00 0.1
MDM 1.39 357 iPd 31 03.39 -0.3
GLM 1.45 12 ePc 31 04.00 -0.5
S 31 24.12
CUT 1.54 221 ePc 31 06.59 0.8
SDG 1.57 131 ePd 31 06.80 0.6
eS 31 26.81
TOA 1.72 148 ePd 31 09.70 1.2
SML 1.78 184 eP 31 09.23 -0.1
S 31 32.70
GHO 1.85 192 eP 31 10.81 0.4
PLRM 2.05 194 ePc 31 13.99 0.8
eS 31 41.11
PMR 2.05 194 eP 31 14.60 1.4
PWA 2.10 204 eP 31 14.60 0.6
KNK 2.18 185 eP 31 15.85 0.7
SKT 2.25 226 ePc 31 16.62 0.5
S 31 45.12
TMW 2.30 94 eP 31 16.12 -0.7
KLU 2.32 153 eP 31 17.74 0.6
PMS 2.44 197 eP 31 21.40 2.6
SUA 2.45 211 eP 31 20.11 1.1
VLZ 2.59 161 eP 31 22.25 1.4
VZW 2.63 164 eP 31 22.97 1.5
GLI 2.75 170 eP 31 24.62 1.5
NCG 2.89 223 eP 31 25.81 0.6
CGLM 2.92 220 eP 31 25.58 0.0
GLB 2.92 135 eP 31 26.83 1.2
FID 2.94 164 eP 31 27.92 2.1
BGL 3.07 223 eP 31 29.92 2.2
CKL 3.10 222 eP 31 29.91 1.6
FYU 3.24 21 iPc 31 29.68 -0.4
SLKM 3.24 199 eP 31 32.43 2.3
KNIM 3.24 177 eP 31 30.78 0.6
IMA 3.46 319 eP 31 32.70 -0.6
LTI 3.55 178 eP 31 35.40 0.9
TTA 3.64 263 eP 31 38.80 2.9
REF 3.79 217 eP 31 39.87 1.8
CTGM 4.10 127 eP 31 44.27 1.8

SVW 4.30 238 eP 31 45.70 0.5
CNPM 4.34 202 eP 31 46.88 1.2
INK 7.60 45 P 32 28.00 -3.5
1.2s 1.90nm 4.1mb X
50 obs. associated

---

* SEP 10, 1991 17h 46m 39.82± 0.79s
26.838 S ± 8.1km 26.635 E ±10.6km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
mbLg 3.3 (BUL).

PRY 0.75 97 eP 46 55.00 -0.1
1.0s 770.00nm
S 47 03.00
SLR 1.84 54 iPd 47 14.50 2.0X
S 47 37.00
KIM 2.52 220 iPc 47 22.50 0.3
S 47 59.00
HVD 3.88 195 eP 47 41.30 -0.3
S 48 17.80
BUL 6.91 16 iPn 48 23.80 -0.6
iSn 49 35.00
iSg 50 12.00
KRI 10.34 16 iPn 49 12.50 0.5
iSn 51 01.50
iSg 51 59.90
MTD 11.01 26 iPn 49 17.00 -4.2X
iSn 51 13.00
iS 52 16.30
S.D. = 0.6 on 5 of 7 obs.

SEP 10, 1991 18h 17m 15.80± 1.05s
43.456 N ±10.0km 5.793 E ± 6.5km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
ML 3.2 (LDG), 2.7 (STR).

CDR 0.22 355 iPgd 17 18.40 -2.1
e(Sg) 17 23.50
CALN 0.85 69 Pg 17 33.33 1.0
MVIF 1.08 65 Pn 17 36.89 0.7
Sg 17 55.18
REVF 1.18 76 Pn 17 37.97 0.1
TOUF 1.19 62 Pn 17 38.33 0.2
AURF 1.19 68 Pn 17 38.36 0.2
Sg 17 59.08
AUTN 1.30 65 Pn 17 39.91 -0.1
Sg 18 02.61
SAOF 1.38 67 Pn 17 40.64 -0.5
DOI 1.48 45 P 17 43.20 0.6
eSn 18 05.50
BNI 1.72 21 P 17 47.00 1.0
eSg 18 10.70
CKI 2.04 61 P 17 50.80 0.2
eSg 18 13.60
RSL 2.31 15 Pn 17 54.44 -0.2
PGF 2.52 110 Pn 17 55.39 -2.2
BOB 2.94 62 P 17 59.00 -4.5X
BTH 4.39 268 i(P)d 18 25.10 1.0
i 18 31.00
(S) 19 24.50
i 19 43.60
S.D. = 1.1 on 14 of 15 obs.

SEP 10, 1991 18h 41m 42.60± 1.31s
45.732 N ± 8.2km 26.598 E ± 6.8km
DEPTH = 161.7 ± 14.3 km
ROMANIA (358)

VRI 0.16 33 ePd 42 04.00 0.2
e 01 16.50
ISR 0.60 184 iPc 42 05.20 -0.9
CLI 0.95 30 iPc 42 09.00 0.6
MTUR 1.19 245 iPd 42 10.00 -0.5
PTT 1.21 353 eP 42 09.00 -1.6
CFR 1.22 116 iPd 42 11.00 0.4
TLB 1.53 138 iPc 42 13.50 -0.1
COZ 1.64 256 iPc 42 15.50 0.5
DRA 1.96 238 iPd 42 20.00 1.6
PSN 2.34 151 eP 42 24.00 1.2
DEV 2.59 275 iPd 42 27.00 1.2
SRE 2.63 247 iPd 42 26.00 -0.3
PVL 2.67 200 iPc 42 26.00 -0.8
BZS 3.49 270 ePc 42 37.00 -0.2
e 01 09.00
PLD 3.88 201 eP 42 42.00 -0.2

10d 18h

KDZ	4.17	192	iP	42 46.00	0.0
RZN	4.27	199	iP	42 47.00	-0.5
KKB	4 63	215	iPc	42 52.00	0.0
MMB	4.64	208	iPc	42 52.00	-0.2
SRS	5 11	206	iPc	42 58.02	-0.3
VAY	5.29	215	ePn	43 01.00	0.2
KNT	5.30	212	iPc	43 00.62	-0.4
SOH	5.45	207	ePc	43 02.18	-0.8
OUR	5.73	200	iPd	43 07.02	0.5
PAIG	6.19	201	ePc	43 13.14	0.5

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

SEP 10, 1991 18h 54m 31.15± 0.69s
15.979 N ± 7.0km 95.382 W ± 6.8km
DEPTH = 46.8 ± 6.0 km
4.8mb (29 obs.) 4.7Msz (6 obs.)
NEAR COAST OF OAXACA, MEXICO (66)
Felt in the Santiago Astoto area.

OXX	1.69	311	eP	54 56.86	-2.1
			(S)	55 15.00	
SCX	2.74	74	eP	55 15.74	2.0
			iS	55 49.68	
TPX	3.19	109	iP	55 18.78	-1.3
IISM	3.55	328	eP	55 24.61	-0.5
LVVM	3.87	345	(P)	55 30.00	0.3
IIT	4.12	318	(P)	55 35.14	1.7
PPM	4.36	315	eP	55 38.00	0.9
IIA	4.44	316	(P)	55 40.84	3.1X
UNM	4.92	313	(P)	55 54.00	9.2X
			(S)	56 51.00	
MRX	6.66	305	iP	56 09.80	0.9
CGX	8.54	297	(P)	56 17.26	-18.0X
MEO	18.95	352	iPd	58 50.20	-1.0
TUL	19.85	359	iPd	58 59.20	-1.9
	0.6s	32.30nm		4.8mb	
Z	20s	0 62um		5.3MszX	
N	18s	0.45um			
E	18s	0 21um			
			e	59 06.50	
			eS	02 35.00	
			LR	04 37.00	
ACO	20.91	351	iPc	59 11.50	-0.5
ALO	21.34	334	eP	59 15.00	-1.6
	1.0s	72.50nm		5.0mb	
ANCC	22.02	122	eP	59 23.84	0.4
CLMC	22.06	121	eP	59 25.73	1.7
HOBC	22.16	119	eP	59 24.14	-0.7
HOOC	22.24	122	eP	59 24.25	-1.6
BUGC	22.31	121	eP	59 27.96	1.6
GLA	24.46	318	eP	59 49.00	1.9
PLM	25.99	316	eP	00 03.00	1.3
RVR	26.72	316	eP	00 17.00	8.9X
GSC	27.16	319	eP	00 17.00	4.8X
MWC	27.31	316	eP	00 24.00	10.3X
SBB	27.43	317	eP	00 08.00	-6.7X
CLC	27.98	319	eP	00 31.00	11.4X
LRM	33.01	338	eP	01 04 30	0.0
NNA	33.30	145	eP	01 07.00	0.3
	1.1s	16.46nm		4 8mb	
Z	20s	1.06um		4.6Msz	
PNT	38.66	335	eP	01 52.00	0.1
	0.6s	10.00nm		4.8mb	
FFC	39.00	354	eP	01 54.00	-0.6
	0.7s	8.00nm		4.6mb	
ZOBO	41.84	139	P	02 18.00	-1.0
Z	24s	0.70um		4.5MszX	
			S	08 36.00	
			LR	15 10.00	
LPB	42.05	139	(P)	02 24.00	3.4X
CNCB	42.33	139	P	02 22.00	-1.1
CCH	43.93	138	eP	02 25.00	-10 8X
YKA	48.40	348	eP	03 08.60	-1.6
	0.6s	5.00nm		4.7mb	
BAO	56.35	122	e(P)	04 08.00	-2.4
PPD	57.37	130	eP	04 17.20	-0.2
INK	57.64	344	eP	04 17.00	-1.6
			pP	04 29.00	42kmX
SOB1	59.46	111	eP	04 31.70	-0.4
			e	04 35.90	
MBC	61 58	354	eP	04 45.00	-0.6
	0.9s	59.00nm		5.7mb	
DAG	71.49	14	eP	05 47.50	-1.0
DCN	76.23	38	eP	06 16.20	-0.1
DMU	76.37	37	eP	06 17.20	0.1
EKA	78.28	36	Pc	06 34.00	6.4X

	1.0s	17.10nm		5 0mb	
AVE	79.74	58	eP	06 37.00	0.9
TIO	80.39	61	iP	06 41.50	1.8
				06 52.00	
TOL	80.94	51	ePc	06 54.30	12.0X
LPF	81.15	43	eP	06 42.80	-0.4
	0.8s	12.10nm		4.9mb	
GRR	81.18	42	eP	06 43.00	-0.3
	0.6s	9.00nm		4.9mb	
FLN	81.33	42	eP	06 44.00	-0.1
	0.8s	14.80nm		5.0mb	
Z	20s	0.30um		4.6Msz	
IFR	81.56	58	iPc	06 54.50	8.6X
LDF	81.60	42	eP	06 45.40	-0.1
	0.6s	5.40nm		4.7mb	
MFF	82.09	44	eP	06 47.80	-0.3
LFF	83.12	45	eP	06 53.70	0.2
	0.8s	10.75nm		4.9mb	
LSF	83.30	44	eP	06 54.00	-0.4
	0.8s	4.05nm		4.5mb	
EPF	83.36	47	eP	06 54.80	0.0
	0.6s	2.70nm		4.5mb	
LPO	83.50	46	eP	06 55.40	0.0
RJF	83.55	45	eP	06 55.70	0.0
	0.6s	5.40nm		4.8mb	
Z	20s	0.43um		4.8Msz	
TCF	83.74	44	eP	06 56.50	-0.2
	0.8s	6.05nm		4.7mb	
MAF	84.00	44	eP	06 58.00	0.0
	0.8s	5.35nm		4.7mb	
CAF	84.03	45	eP	06 58.00	-0.2
	0.8s	5.35nm		4.7mb	
BGF	84.09	43	eP	06 58.40	0.0
	0.8s	7.40nm		4.8mb	
DOU	84.15	40	Pc	06 59 80	1.2
			S	17 25 00	
AVF	84.35	43	eP	06 59.30	-0.4
	0.7s	3.30nm		4.5mb	
SSF	84.37	43	eP	06 59.80	0.0
	0.8s	5.35nm		4.7mb	
LOR	84.54	42	eP	07 00.90	0 2
	0.6s	4.05nm		4.7mb	
Z	20s	0.38um		4.8Msz	
SMF	84.72	43	eP	07 01.30	-0.3
ENN	84.74	39	eP	07 02.00	0.5
	0.8s	9.00nm		4.9mb	
WTS	84.87	37	eP	07 03.50	1.4
	0.8s	10.00nm		5.0mb	
WLF	85.24	40	P	07 07.00	3.0X
APO	85.38	28	eP	07 05.20	0.6
	0.8s	9.70nm		5.0mb	
BNS	85.43	38	iPc	07 17.80	12.8X
HAU	85.91	41	eP	07 07.50	0.0
	0.8s	5.35nm		4.8mb	
BSF	86.25	41	eP	07 09.00	-0.3
	0.6s	3.60nm		4.8mb	
CDF	86.35	41	eP	07 09 60	-0.2
LPL	86.98	44	eP	07 13.90	0.8
MOX	88.17	38	eP	07 27.00	8.6X
GRF	88.31	39	e(P)	07 21 00	1.9
	1.7s	66.00nm		5.6mb	
Z	22s	0.40um		4.8Msz	
			e	17 39.00	
CLL	88.71	37	eP	07 30.00	9.1X
BRG	89.43	37	eP	07 32.60	8 3X
			e	07 36.50	
PRU	90.15	37	eP	07 33.50	5.8X
Z	19s	0.30um		4.7Msz	
ZST	92.45	38	e(P)	07 38.80	0.4
			e	07 46.40	
			e	26 49.30	
PTJ	92.79	41	eP	07 41.00	0.9
YAK	94.53	340	eP	07 59.10	11.4X
WR2	132.65	257	iPKPc	13 43.60	0.3
	0.7s	5.10nm			
PKI	136.70	359	PKP	14 00.00	8.8X
BDT	144.07	336	ePKP	14 01.00	-3.1X
NST	145.02	333	ePKP	14 03.50	-2.3X
HYB	146.28	10	ePKP	14 07.00	-1.0
KHT	146.46	335	ePKP	14 09.00	0.8
MUN	147.19	235	ePKP	14 10.00	1.0
GBA	149.76	14	PKPc	14 16.90	3 5X
	0.7s	3.60nm			
SNG	152.07	324	ePKP	14 20.00	3.0X

S.D. = 1.0 on 69 of 94 obs.

SEP 10, 1991 18h 59m 15.96± 0.30s
37.722 N ± 4.0km 23.381 E ± 2.8km
DEPTH = 170.9 ± 4.3 km
4.0mb (22 obs.)
SOUTHERN GREECE (368)
MD 4.4 (HLW), 4.0 (THE).

ATH	0.36	47	iPd	59 41.00	1.8
			eS	59 57.00	
VLI	1.06	200	iPd	59 44.60	1.1
AGG	1.54	328	ePd	59 46.64	-1.3
			eS	00 05.72	
PAIG	2.21	6	iPd	59 55.29	0.1
VLS	2.25	282	eP	59 56.00	0.3
			eS	00 25.00	
LIT	2.48	344	iPd	59 58.10	-0.2
			eS	00 24.80	
OUR	2.65	10	iPd	00 00.68	0.3
PRK	2.73	55	eP	00 02.50	1.2
KZN	2.87	335	eP	00 03.00	-0.1
THE	2.92	354	ePc	00 03.38	-0.3
NPS	3.04	143	eP	00 05.00	-0.2
SOH	3.10	360	iPd	00 06.10	0.2
EZN	3.12	47	iP	00 07.00	0.9
IZM	3.14	76	iP	00 08.60	2.2
GRG	3.32	347	ePd	00 07.84	-0.9
SRS	3.39	3	ePc	00 09.64	0.0
			eS	00 47.91	
FNA	3.43	334	ePc	00 09.92	-0.2
KEK	3.44	306	eP	00 10.00	-0.2
			eS	00 48.30	
KNT	3.46	354	ePd	00 10.20	-0.2
VAY	3.65	350	iPn	00 12.30	-0.5
ALN	3.78	32	ePc	00 16.76	2.2
RDO	3.81	25	iPd	00 15.00	0.2
MMB	3.87	4	iPd	00 15.00	-0.8
OHR	3.93	330	iPn	00 16.10	-0.5
RZN	4.09	14	iPd	00 19.00	0.2
KKB	4.15	357	iPd	00 19.00	-0.3
EDC	4.36	52	eP	00 22.00	-0.1
PLD	4.49	13	iPd	00 24.00	0.2
SKO	4.50	341	iPn	00 23.00	-0.9
			iSg	01 10.80	
DST	4.52	64	eP	00 26.20	2.0
DIM	4.63	20	eP	00 25.00	-0.5
LCI	4.97	303	P	00 28.10	-1.9
			eSn	01 15.50	
ELL	5.30	99	iP	00 38.00	3.5X
IZI	5.41	59	eP	00 37.70	1.7
GRI	5.59	283	P	00 37.45	-0.8
ROI	5.64	291	P	00 37.80	-1.2
			eS	01 28.00	
PVL	5.69	15	eP	00 36.00	-3.5X
BRT	5.73	305	P	00 39.30	-0.8
			eSn	01 38.50	
SOI	5.80	276	P	00 40.20	-0.8
			eSn	01 38.60	
CZI	5.88	287	P	00 41.90	-0.1
			eS	01 38.80	
CSI	5.91	292	P	00 42.30	-0.2
			eS	01 41.40	
GMB	5.96	277	P	00 42.88	-0.4
BAI	6.08	306	Pd	00 43.50	-1.2
MMN	6.16	293	P	00 46.60	0.8
			eS	01 45.50	
ATN	6.27	276	P	00 46.90	-0.4
			eSn	01 50.00	
MGR	6.56	294	P	00 50.20	-0.9
			eSn	01 56.70	
MEU	6.76	267	P	00 54.20	0.4
			eSn	02 03.50	
PZI	6.78	267	P	00 52.81	-1.2
MNO	6.88	274	P	00 55.30	-0.3
			eSn	02 04.60	
SGO	6.88	297	P	00 54.90	-0.5
			eSn	02 02.00	
GIB	7.41	275	P	01 04.10	1.6
HVAR	7.59	318	iPnc	01 01.40	-3.4X
			iSn	01 21.20	
PPCY	7.77	109	eP	01 05.50	-1.7
DUI	7.92	303	P	01 09.43	0.1
MLR	8.00	13	eP	01 10.00	-0.3
USI	8.09	280	P	01 09.50	-1.9
SDI	8.38	301	P	01 16.90	1.6
			eSn	02 40.50	
CSS	8.49	106	eP	01 16.00	-0.7
LFK	8.53	104	ePn	01 20.40	3.1X
MNS	9.43	303	P	01 29.00	-0.1

```
ASS      9.76 307 P      01 33.00   -0.5
ARV      9.81 309 P      01 34.10    0.0
VBY      9.87 325 ePn    01 32.50   -2.3
                  eSn    03 15.60
PTJ      9.87 328 e(P)   01 31.70   -3.2X
RIY     10.17 321 e(Pn)  01 37.50   -1.1
                  iSn    03 22.60
HLW     10.26 138 ePn    01 39.00   -0.9
                  eSn    03 24.00
CEY     10.43 323 eP     01 40.00   -2.2
                  eS     03 29.00
CRE     10.49 308 P      01 43.90    0.8
LJU     10.61 324 eP     01 42.30   -2.1
                  eS     03 32.50
SFI     10.70 309 P      01 48.00    2.3
TRI     10.73 321 P      01 46.50    0.5
PGD     10.76 308 P      01 47.50    0.9
VOY     10.90 323 eP     01 47.30   -1.0
                  eS     03 42.50
FVI     11.84 322 P      02 03.50    3.1X
PGF     12.01 298 eP     02 03.00    0.1
      1.0s     12.00nm          4.3mb
CTI     12.06 317 P      02 07.00    3.6X
HOL     12.87 127 iPd    02 12.60   -1.1
                  eS     04 20.00
WTTA    12.87 322 iPc    02 14.70    0.8
      0.7s     4.40nm          4.0mb
                  i      02 21.20
                  iS     04 29.40
BADA    13.37 130 iP     02 18.70   -1.3
                  eS     04 36.00
SBF     13.54 302 eP     02 22.30    0.0
      0.8s     5.35nm          4.0mb
AYN     13.75 126 iPd    02 25.30    0.5
                  eS     04 48.70
LPG     14.65 307 eP     02 39.60    3.2X
      0.6s     2.70nm          3.8mb
LPL     14.67 307 eP     02 39.60    3.0X
      0.6s     2.70nm          3.8mb
BSF     15.79 315 eP     02 51.00    0.7
      0.6s     3.60nm          3.9mb
CDF     15.86 317 eP     02 52.30    1.1
      0.6s     3.60nm          3.9mb
HAU     16.14 315 eP     02 55.90    1.4
      0.6s     3.60nm          3.9mb
LBF     17.03 309 eP     03 07.40    2.0
      0.8s     2.70nm          3.7mb
WLF     17.21 319 P      03 10.00    2.7
LOR     17.23 310 eP     03 08.80    1.1
      0.7s     2.20nm          3.6mb
AVF     17.34 308 eP     03 09.30    0.3
      0.7s     2.20nm          3.6mb
SSF     17.36 309 eP     03 08.70   -0.5
      0.6s     1.80nm          3.6mb
DOU     18.27 319 P      03 20.20    1.1
MFF     19.51 305 eP     03 32.40    0.4
      0.5s     2.90nm          4.0mb
LDF     20.22 310 eP     03 37.80   -1.3
      0.4s     2.30nm          4.0mb
FLN     20.56 310 eP     03 42.90    1.0
      0.4s     3.45nm          4.2mb
GRR     20.59 309 eP     03 42.40   -0.4
      0.6s     3.60nm          4.0mb
EKA     25.13 323 Pc     04 27.30    0.9
      0.9s     4.10nm          4.0mb
TIC     40.28 227 Pd     06 39.78    2.1
KIC     40.34 226 Pd     06 40.56    2.3
      0.8s     13.00nm         4.6mb
LIC     40.62 227 Pd     06 42.86    2.3
    Z  22s     0.17um          3.9Msz
GKN     51.56  82 P      08 05.78   -0.9
      0.7s     16.00nm         4.8mb
DMN     52.11  82 P      08 10.28   -0.6
      0.7s     23.00nm         5.0mb X
KKN     52.16  82 P      08 08.90   -2.3
      0.6s     17.00nm         4.9mb
PKI     52.36  82 P      08 11.84   -1.0
GUN     52.57  81 P      08 06.76   -7.7X
GBA     53.49 102 P      08 19.00   -1.8
      0.5s     4.80nm          4.5mb
CHTO    67.51  83 eP     09 55.00   -0.7
      0.8s     1.46nm          3.8mb
    S.D. = 1.2  on  97 of 107 obs.
-------------------------------------
? SEP 10, 1991  19h 28m 52.59± 1.61s
  20.737 S ±13.0km   67.720 W ±21.4km
  DEPTH =  10.0km  (geophysicist)
```

```
 SOUTHERN BOLIVIA                    (125)
CCH      3.66  24 P      29 50.10   -0.6
ANT      3.87 220 eP     29 53.50    0.1
                  iS     30 38.20
CNCB     3.91 356 iPc    29 57.60    3.0X
LPB      4.20 355 iPc    30 00.80    2.3X
      0.8s    208.96nm
ZOBO     4.46 355 P      30 03.50    1.2
                  i      30 15.00
ARE      5.56 319 iPc    30 17.00   -0.7
                  iS     31 23.00
    S.D. = 1.5  on   4 of   6 obs.
-------------------------------------
* SEP 10, 1991  19h 53m 55.22± 0.82s
  26.368 S ±12.3km   27.307 E ±17.9km
  DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA            (584)
    mbLg 3.4 (BUL).
SLR      1.08  55 iPc    54 17.00    0.9
                  S      54 28.40
KIM      3.27 223 iPc    54 48.50    0.3
                  S      55 29.00
HVD      4.51 200 eP     55 05.70   -0.2
                  S      55 46.50
BUL      6.31  11 iPn    55 31.10   -0.3
                  iSn    56 36.00
                  iSg    57 10.00
CIR      6.61  37 iPn    55 34.00   -1.6
                  iSg    57 19.50
KRI      9.73  13 iPn    56 20.00    0.9
                  iSn    58 04.00
                  iSg    58 58.00
MTD     10.34  23 iPn    56 23.70   -3.6X
                  iSn    58 15.90
                  iSg    59 10.90
    S.D. = 1.2  on   6 of   7 obs.
-------------------------------------
* SEP 10, 1991  20h 27m 31.91± 2.31s
  7.481 S ±12.6km  128.870 E ±19.1km
  DEPTH = 154.8 ± 30.0 km
  5.0mb (  7 obs.)
 BANDA SEA                           (280)
MTN      5.78 158 iPc    28 57.80    1.2
KNA      8.22 181 iPc    29 28.90   -0.5
      0.2s     50.00nm         5.8mb X
                  eS     30 54.00
WR2     13.49 157 iPd    30 36.80   -1.5
      0.3s     29.40nm         5.1mb
                  eS     32 59.90
MBL     16.16 212 eP     31 11.00   -0.7
ASPA    16.80 164 iPc    31 19.30   -0.3
      0.6s     13.70nm         4.5mb
                  eS     34 17.60
WARB    18.72 186 iPc    31 43.20    1.9
NANU    19.74 219 eP     31 52.00    0.1
CHG     39.41 312 eP     34 49.60    1.2
CHTO    39.41 312 eP     34 48.90    0.5
      0.9s     2.34nm          3.9mb X
LZH     49.31 333 Pc     36 07.60    0.3
      0.8s     20.00nm         4.9mb
GUN     54.43 312 P      36 45.56   -0.4
      0.4s     20.00nm         5.3mb
PKI     54.59 311 P      36 46.38   -0.7
      0.5s      9.00nm         4.9mb
KKN     54.81 312 P      36 48.10   -0.4
      0.5s     12.00nm         5.0mb
DMN     54.84 311 P      36 48.34   -0.4
GKN     55.40 311 P      36 52.30   -0.4
      0.3s     23.00nm         5.4mb
CNC8   150.67 145 PKP    47 13.00   10.1X
LPB    150.83 145 (PKP)  47 16.00   13.1X
ZOBO   151.02 145 PKP    47 13.00    9.6X
    S.D. = 1.0  on  15 of  18 obs.
-------------------------------------
   SEP 10, 1991  21h 07m 03.43± 0.29s
   40.417 N ± 3.6km   25.725 E ± 2.7km
   DEPTH =  16.2 ±  3.5 km
 AEGEAN SEA                          (365)
    MD 3.5 (THE), 3.2 (ATH).
ALN      0.54  27 iPc    07 13.54   -0.5
                  eS     07 20.98
RDO      0.74 349 ePb    07 17.60    0.1
EZN      0.75 142 iPg    07 16.50   -1.1
                  iSg    07 27.00
PRK      1.24 160 ePb    07 26.00    0.0
                  eSg    07 42.50
KDZ      1.25 349 iPg    07 26.00   -0.2
                  iSg    07 43.00
OUR      1.33 267 iPc    07 27.34    0.0
                  eS     07 47.46
RZN      1.48 329 iP     07 29.00   -0.6
                  iSg    07 51.00
EDC      1.64  92 iPn    07 31.50   -0.1
DIM      1.64 355 ePg    07 33.00    1.4
PAIG     1.64 253 ePd    07 31.17   -0.5
SRS      1.76 294 ePc    07 33.65    0.1
                  eS     08 00.38
SOH      1.85 283 ePc    07 33.94   -0.8
                  eS     08 02.46
PLD      1.85 336 ePg    07 38.00    3.2X
MMB      1.91 308 iPg    07 35.00   -0.7
                  iSg    08 06.00
DMK      2.08  47 ePn    07 38.50    0.4
JMB      2.15  17 iPg    07 43.00    4.0X
                  eSg    08 11.00
CTT      2.18  70 iPn    07 39.50    0.0
KNT      2.27 290 ePc    07 41.06    0.2
                  eS     08 13.74
IZM      2.34 149 ePn    07 42.50    0.6
DST      2.37 109 ePn    07 42.40    0.1
KKB      2.47 307 iP     07 47.00    3.4X
LIT      2.50 264 iPd    07 44.66    0.6
VAY      2.56 292 ePn    07 50.40    5.5X
GRG      2.58 283 ePc    07 46.54    1.2
ISK      2.61  75 ePn    07 46.00    0.3
YLV      2.79  86 ePn    07 48.00   -0.2
IZI      2.86  90 ePn    07 49.00   -0.3
VTS      2.88 320 iP     07 50.00    0.4
                  iSg    08 36.00
HRT      3.03  81 ePn    07 52.00    0.4
MLR      5.07   2 eP     09 07.00   46.3X
BZS      6.01 331 ePc    08 32.00   -1.6
    S.D. = 0.7  on  26 of  31 obs.
-------------------------------------
* SEP 10, 1991  22h 06m 08.40± 0.80s
  50.636 N ±10.2km   12.687 E ± 6.7km
  DEPTH =  10.0km  (geophysicist)
 GERMANY                             (543)
HOF      0.61 238 iPgc   06 20.00   -0.7
                  iSg    06 28.00
MOX      0.68 271 ePg    06 22.50    0.6
                  iSg    06 31.00
CLL      0.70  16 iPg    06 22.30    0.0
                  i      06 24.20
                  iSg    06 31.30
BRG      0.83  73 ePg    06 24.00   -0.5
                  eSg    06 35.30
PRU      1.35 118 Pg     06 33.90    0.6
                  Sg     06 50.40
                  e      06 52.10
    S.D. = 0.9  on   5 of   5 obs.
-------------------------------------
* SEP 10, 1991  22h 12m 27.90± 0.67s
  1.302 N ±12.0km  122.516 E ±15.4km
  DEPTH =  33.0km  (normal)
  4.9mb (  9 obs.)
 MINAHASSA PENINSULA, SULAWESI       (265)
CGP      7.43  17 eP     14 18.00    1.2
WR2     24.10 152 iPc    17 42.40    0.7
      0.9s     18.50nm         4.6mb
WR2     24.10 152 eP     17 53.00   11.3X
      0.6s     30.50nm
ASPA    27.18 157 eP     18 11.50    1.0
      1.0s      7.30nm         4.3mb
QIS     27.43 143 eP     18 11.00   -1.8
CHTO    28.93 308 e(P)   18 25.00   -1.4
      1.0s      1.50nm         3.6mb X
STK     37.63 153 eP     19 53.10   11.5X
      0.6s      5.60nm
LZH     38.76 335 P      19 48.60   -2.2
      1.5s     28.00nm         4.8mb
GUN     43.91 310 P      20 34.34    0.5
      0.8s     43.00nm         5.3mb
PKI     44.10 310 P      20 35.56    0.2
      0.6s     14.00nm         4.9mb
TOO     44.14 154 eP     20 48.00   12.8X
      0.7s     13.00nm
KKN     44.30 310 P      20 37.18    0.2
```

10d 22h

	0.9s	34.00nm		5.2mb	
DMN	44.35	310 P	20	37.68	0.3
	0.9s	33.00nm		5.2mb	
GKN	44.90	310 P	20	41.78	0.1
	0.8s	38.00nm		5.4mb	
GBA	46.24	288 Pc	20	54.20	2.0
	0.6s	1.60nm		4.1mb	
QUE	59.95	304 eP	22	33.20	-0.7

S.D. = 1.3 on 13 of 16 obs.

? SEP 10, 1991 22h 25m 50.86± 1.61s
33.042 S ± 9.0km 70.473 W ±19.8km
DEPTH = 33.0km (normal)
CHILE-ARGENTINA BORDER REGION (127)

PEL	0.21	240 iPd	25	59.70	2.1
		iS	26	11.20	
JACH	0.37	344 iPd	25	59.30	-0.4
		iS	26	10.50	
SAN	0.44	201 (P)	26	01.50	0.9
		iS	26	15.00	
ROCH	0.46	279 iP	26	01.00	-0.1
		iS	26	13.50	
PCH	0.58	183 iPd	26	02.80	0.1
		iS	26	17.50	
TACH	0.72	212 iPd	26	04.50	-0.1
		iS	26	19.50	
CHCH	0.90	190 iP	26	06.70	-0.5
		iS	26	23.50	
LNV	1.20	220 iPd	26	09.40	-2.0
		iS	26	28.00	

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

---

* SEP 10, 1991 22h 58m 02.89± 2.91s
21.736 N ±11.2km 143.374 E ±22.5km
DEPTH = 289.4 ± 31.0 km
4.2mb (5 obs.)
MARIANA ISLANDS REGION (215)

WKYJ	14.20	333 P	01	15.30	1.8
KAKJ	14.69	350 eP	01	19.20	-0.1
TKSJ	14.71	328 eP	01	17.90	-1.8
CHJJ	14.76	346 P	01	20.20	-0.1
MAT	15.42	344 eP	01	27.00	-0.8
MTMJ	15.57	343 P	01	29.50	0.0
NIIJ	15.91	347 P	01	33.00	0.0
YONJ	15.97	329 eP	01	32.40	-1.3
SHNJ	16.41	321 P	01	40.50	2.1
CGP	22.31	237 iPd	02	38.50	0.8
CHTO	41.67	274 eP	05	25.10	-0.3
	1.1s	2.06nm		3.3mb	
WR2	42.35	193 iPd	05	30.70	-0.1
	0.4s	32.20nm		4.9mb	
ASPA	46.06	192 iPc	05	59.50	-0.7
	0.6s	7.60nm		4.2mb	
WARB	50.32	200 eP	06	32.70	0.0
YKA	76.34	28 eP	09	22.80	1.4
	0.4s	1.60nm		4.1mb	
HFS	88.76	337 eP	10	24.00	-0.9
	0.4s	1.80nm		4.3mb	

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

SEP 10, 1991 23h 01m 18.77± 0.27s
44.097 N ± 2.2km 7.165 E ± 2.6km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.5 (LDG), 1.9 (GEN).

STV	0.19	38 P	01	23.01	0.0
		S	01	25.68	
MVIF	0.20	183 Pg	01	23.28	0.0
		Sg	01	26.81	
AUTN	0.21	118 Pg	01	23.73	0.2
ENR	0.22	55 P	01	23.73	0.1
		S	01	26.91	
AURF	0.24	151 Pg	01	24.23	0.3
SAOF	0.30	111 Pg	01	25.29	0.2
		Sg	01	29.34	
SBF	0.30	140 Pg	01	25.20	0.1
		Sg	01	29.60	
CALN	0.40	210 Pg	01	27.31	0.3
		Sg	01	32.91	
DOI	0.41	8 P	01	27.20	0.0
		eSg	01	32.00	
PZZ	0.41	354 P	01	27.11	-0.1
		S	01	32.53	
IMI	0.55	109 P	01	29.57	-0.5
		S	01	36.96	
FRF	0.65	215 Pg	01	31.20	-0.6
		Sg	01	39.80	
BHB	0.75	5 P	01	32.65	-0.8
		S	01	41.16	
FIN	0.76	81 P	01	33.16	-0.5
		S	01	41.88	
CKI	0.87	67 P	01	35.50	0.1
		eSg	01	45.30	
LRG	0.87	223 Pg	01	35.10	-0.3
		Sg	01	46.70	
RRL	0.87	342 P	01	36.50	0.9
		S	01	47.31	
LMR	0.90	212 Pg	01	36.20	0.2
		Sg	01	47.60	
PCP	1.09	65 P	01	39.63	0.4
		S	01	52.88	
CDR	1.10	248 ePg	01	39.40	0.0
		e(Sg)	01	53.90	

S.D. = 0.4 on 20 of 20 obs.

---

* SEP 11, 1991 01h 25m 07.01± 0.69s
56.071 S ±14.0km 26.665 W ±12.7km
DEPTH = 33.0km (normal)
4.8mb (2 obs.)
SOUTH SANDWICH ISLANDS REGION (153)

SNA	17.80	153 iPd	29	14.10	0.7
	0.9s	48.74nm		4.6mb	
FRS	44.84	76 iPd	33	20.40	0.9
	1.0s	20.00nm		5.0mb	
KIM	45.32	75 eP	33	23.00	-0.6
SOB1	48.07	341 eP	33	45.50	0.4
SLR	49.61	76 eP	33	56.00	-1.1
CNCB	50.11	304 P	34	03.00	1.5
LPB	50.40	305 eP	34	10.00	6.5X
ZOBO	50.64	305 P	34	05.00	-0.6
KRI	57.56	71 iPc	34	56.40	0.6
LIC	64.59	24 P	35	43.60	0.5
KIC	64.79	24 P	35	44.70	0.3
TIC	65.00	24 P	35	46.00	0.2
MBC	144.12	336 ePKP	44	36.50	-2.5
INK	146.00	320 ePKP	44	42.00	-0.4

S.D. = 1.1 on 13 of 14 obs.

& SEP 11, 1991 01h 30m 11.50s
37.000 N 121.937 W
DEPTH = 6.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 3.1 (BRK). Felt (IV) at Aptos, Capitola, Mount Hermon and Santa Cruz. Also felt at Felton and Watsonville.

GCC	0.06	302 iPc	30	12.87	-0.3
MHC	0.41	35 iPd	30	20.35	0.5
		iS	30	27.10	
SAO	0.46	121 iPc	30	20.08	-0.6
PCC	0.61	325 iPc	30	23.11	-0.7
PRS	0.81	145 iP	30	26.83	-0.7
		eS	30	38.00	
BKS	0.91	345 iPd	30	28.40	-0.8
		eS	30	41.70	
ZSP	0.98	345 iPd	30	29.73	-0.7
PRI	1.34	130 iPc	30	36.76	0.2
CMB	1.61	50 ePc	30	39.26	-1.3
NWRM	1.64	333 eP	30	42.50	1.6
PHAM	1.70	133 eP	30	40.50	-1.4
FRI	1.78	90 eP	30	42.05	-1.0
BCH	2.35	140 eP	30	48.80	-2.6
ORV	2.57	8 eP	30	52.89	-1.5
BONR	3.05	71 eP	31	01.50	0.1
ABL	3.08	133 eP	31	01.70	0.0
KVN	3.66	55 e(P)	31	15.00	5.0

17 obs. associated

& SEP 11, 1991 01h 33m 44.70s
36.997 N 121 930 W
DEPTH = 2.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.6 (BRK). Felt in the Santa Cruz-Watsonville area.

GCC	0.06	302 iPc	33	46.14	0.1
MHC	0.41	34 iPd	33	53.70	0.7
		iS	34	00.20	
SAO	0.45	121 iPc	33	53.30	-0.4
ARN	0.47	42 iPc	33	54.40	0.2
PCC	0.62	324 iPc	33	56.35	-0.7
PRS	0.80	146 iPc	34	00.36	-0.4
		i	34	11.02	
BKS	0.91	345 ePc	34	02.00	-0.9
ZSP	0.98	345 iPd	34	03.13	-0.9
PRI	1.33	130 ePc	34	09.81	-0.3
CMB	1.61	49 eP	34	14.09	-0.1
PHAM	1.69	133 eP	34	13.70	-1.8
BCH	2.35	140 eP	34	23.00	-2.0
BONR	3.04	71 eP	34	38.50	3.5

13 obs. associated

SEP 11, 1991 02h 52m 35.96± 0.32s
40.232 N ± 4.0km 21.254 E ± 2.7km
DEPTH = 10.4 ± 2.6 km
GREECE (364)
ML 3.8 (ATH). MD 3.6 (THE).

KZN	0.40	79 iPbc	52	44.00	-0.2
FNA	0.56	10 ePd	52	47.40	0.1
		iS	52	57.41	
LIT	0.96	98 ePd	52	53.36	-0.8
		eS	53	06.50	
IGT	1.00	226 ePc	52	54.60	-0.2
GRG	1.13	50 ePc	52	57.62	0.4
KEK	1.23	246 ePb	53	01.00	2.2
THE	1.37	72 ePc	53	00.80	-0.1
		iS	53	19.21	
AGG	1.47	145 ePd	53	01.76	-0.7
		eS	53	20.40	
VAY	1.48	42 iPn	53	02.40	-0.1
		i	53	24.40	
		iSg	53	31.00	
KNT	1.56	53 ePd	53	04.30	0.6
		eS	53	25.70	
SOH	1.71	69 ePd	53	06.74	0.9
SKO	1.74	5 iPn	53	07.00	0.6
		i	02	12.30	
		i	02	29.20	
		iSg	02	34.70	
PAIG	1.89	99 ePd	53	08.70	0.3
SRS	1.99	63 ePd	53	10.32	0.4
OUR	2.09	86 iPd	53	11.78	0.4
VLS	2.12	194 ePb	53	15.50	3.7X
LCI	2.53	273 P	53	16.20	-1.4
ATH	2.96	139 ePn	53	23.00	-0.8
BRT	3.15	283 P	53	26.40	-0.1
		eSn	54	03.50	
RDO	3.38	73 ePn	53	30.00	0.2
ROI	3.66	261 P	53	43.20	9.3X
ALN	3.71	78 ePd	53	34.37	-0.1
VLI	3.75	159 ePn	53	35.00	0.0
CZI	4.08	257 P	53	40.40	0.8
MGR	4.37	271 P	53	44.50	0.7
SGO	4.55	276 P	53	47.40	1.0
SOI	4.58	244 P	53	47.10	0.3
HVAR	4.65	311 ePn	53	46.10	-1.7
SDI	5.82	287 P	54	03.80	-0.6
MLR	6.28	32 eP	54	13.00	2.0
		e	00	03.00	
VBY	6.87	322 e(Pn)	54	19.30	0.3
		e(Sn)	55	31.00	
CEY	7.44	320 e(Pn)	54	33.50	6.4X
		eSn	55	50.00	
LJU	7.61	322 eP	54	43.00	13.6X
		e(Sn)	55	51.50	
PSZ	7.75	353 ePn	54	29.60	-1.8
VOY	7.91	320 e(Pn)	54	33.00	-0.7
		eSg	55	57.30	

S.D. = 0.9 on 31 of 35 obs.

SEP 11, 1991 02h 58m 26.00± 0.32s
42.037 N ± 4.0km 19.220 E ± 3.1km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
MD 3.6 (THE).

OHR	1.50	127 iPn	58	52.00	-1.1
		iSn	59	15.00	
SKO	1.66	92 ePn	58	54.10	-1.1
	1.1s	482.00nm			
		i	58	55.70	
		i	59	18.00	
		i	59	19.00	
		i	59	20.00	
BRT	1.91	233 P	58	59.50	0.6

LCI	1.95	210	P	58	58.30	-1.2
BAI	1.99	243	P	59	00.00	0.0
FNA	2.05	127	ePc	59	02.60	1.6
			eS	59	31.60	
HVAR	2.34	300	iPnc	59	05.60	0.5
			i(Sn)	59	41.40	
VAY	2.61	105	iPn	59	08.80	-0.1
GRG	2.62	113	ePc	59	10.16	1.0
			eS	59	44.00	
IGT	2.64	161	ePc	59	10.56	1.2
KNT	2.89	106	ePc	59	12.96	0.0
BEO	2.92	18	ePn	59	13.00	-0.4
LIT	3.14	127	ePd	59	17.56	1.1
CSI	3.17	225	P	59	15.20	-1.7
			eSn	59	52.20	
SGO	3.30	245	P	59	18.50	-0.2
SOH	3.34	110	ePc	59	19.56	0.2
MGR	3.36	237	P	59	20.00	0.4
DUI	3.58	266	P	59	23.70	1.0
CZI	3.67	221	P	59	24.00	0.1
			eSn	59	59.20	
AGG	3.83	141	ePd	59	26.68	0.3
BZS	3.98	25	ePd	59	27.00	-1.3
SDI	4.05	267	P	59	30.10	0.7
			eSn	00	13.50	
AZI	4.31	271	P	59	34.00	1.0
AQU	4.33	276	P	59	32.00	-1.5
ZAG	4.44	329	eP	59	41.50	6.6X
VBY	4.50	322	ePn	59	36.80	1.1
			e(Sn)	00	44.30	
PTJ	4.52	330	e(P)	59	40.10	4.0X
SOI	4.65	213	P	59	35.00	-2.8
RIY	4.82	315	e(Pn)	59	42.30	2.1
ATN	4.83	218	P	59	37.00	-3.4X
ARV	4.85	290	P	59	40.40	-0.3
MNS	4.87	276	P	59	41.30	0.2
ASS	4.95	284	P	59	42.50	0.3
CEY	5 07	319	e(Pn)	59	49.40	5.6X
			eSn	00	44.20	
LJU	5 24	321	e(Pn)	59	51.00	4.8X
			eSn	00	49.00	
			e	01	30.00	
VOY	5.54	318	ePn	59	50.30	-0.3
			eSn	00	53.80	
CRE	5.58	289	P	59	50.50	-0.6
SFI	5.72	292	P	59	53.70	0.7
PSZ	5.90	4	e(Pn)	59	54.00	-1.6
FVI	6.49	317	P	00	03.40	-0.4
			eSn	01	14.90	
CTI	6.77	309	P	00	08.00	0.1
WTTA	7.52	317	iPnc	00	23.80	5.4X
			iSn	01	42.90	

S.D. = 1.1 on 36 of 42 obs.

---

* SEP 11, 1991 03h 46m 49.11± 0.48s
1.756 N ± 8.7km 122.934 E ±11.2km
DEPTH = 33.7km (4 depth phases)
4.8mb (11 obs.)
MINAHASSA PENINSULA, SULAWESI (265)

TSM	5.65	297	ePc	48	10.90	-2.0
DAV	5.91	26	eP	48	15.50	-1.3
CVP	15.89	356	iPc	50	38.00	6.1X
	0.8s		49.00nm			4.7mb
PSI	24.01	273	ePc	52	06.50	4.5X
WR2	24.31	153	iPc	52	04.30	-0.6
	0.7s		28.90nm			4.9mb
			ipP	52	14.20	36km
ASPA	27 43	158	iPc	52	32.80	-1.2
	0.9s		7.70nm			4.4mb
OIS	27 54	144	eP	52	34.00	-1.0
WARB	28.01	173	eP	52	38.80	-0.4
	0.6s		4.00nm			4.3mb
STK	37 85	154	iPd	54	04.40	-0.2
	0.7s		6.40nm			4.6mb
			e	54	14.20	33km
LZH	38.47	335	eP	54	11.50	1.5
	2.0s		53.00nm			5.0mb
	Z 15s		0.29um			4.2MszX
BJI	38 60	352	eP	54	10.50	-0.3
BWA	43 22	149	eP	54	51.00	2.1
			e	55	00.80	33km
GUN	43.94	310	P	54	55.88	0.6
	0.7s		57.00nm			5.5mb
PKI	44 13	309	P	54	57.26	0.4
	0.6s		15.00nm			5.0mb
CAN	44 21	149	eP	54	58.00	1.0
			e	55	07.80	33km
KKN	44.34	309	P	54	59.08	0.7
	0.7s		25.00nm			5.2mb
TOO	44.36	154	eP	55	09.70	11.6X
	0.6s		14.00nm			
DMN	44.39	309	P	54	59.36	0.5
GKN	44.94	309	P	55	03.80	0.7
	0.8s		44.00nm			5.4mb
GBA	46.50	287	Pc	55	14.60	-0.8
	0.8s		4.40nm			4.5mb

S.D. = 1.2 on 17 of 20 obs.

---

* SEP 11, 1991 04h 04m 33.32± 2.15s
13.976 N ±21.2km 93.671 W ± 9.6km
DEPTH = 47.8 ± 12.0 km
4.2mb (6 obs.)
OFF COAST OF CHIAPAS, MEXICO (68)

TPX	1.65	56	eP	05	01.05	0.7
			iS	05	21.23	
SCX	2.92	20	iP	05	17.98	-0.4
			iS	05	49.79	
OXX	4.26	317	iP	05	36.28	-1.3
			(S)	06	16.15	
IISM	6.12	325	(P)	06	04.83	1.3
IIT	6.70	319	(P)	06	12.45	0.5
PPM	6.94	317	iP	06	14.69	-0.9
IIA	7.02	318	(P)	06	24.24	8.1X
MRX	9.18	309	iP	06	46.04	0.0
MEO	21.19	349	iPd	09	15.10	-1.9
ALQ	23.85	333	eP	09	44.00	0.6
	1.0s		3.00nm			3.8mb
ANMO	23.86	333	P	09	44.80	1.4
GOL	27.61	340	P	10	18.50	-0.1
	0.8s		5.95nm			4.3mb
PV09	28.00	334	P	10	22.80	0.6
PLM	28.57	316	P	10	21.60	-5.6X
RSSD	31.32	346	P	10	49.50	-2.1
BW06	31.80	338	P	10	56.30	0.5
	0.7s		1.46nm			3.9mb
LRM	35.48	337	eP	11	28.50	0.9
PNT	41.17	334	eP	12	16.00	1.3
	0.5s		2.00nm			4.1mb
YKA	50.69	348	eP	13	29.20	-0.6
	0.8s		6.10nm			4.7mb
SOB1	57.21	111	(P)	14	18.00	-0.5
INK	60.01	344	eP	14	38.00	0.9
FBA	62.63	337	P	14	53.90	-1.0
	0.7s		6.69nm			4.9mb
KIC	87.45	84	(P)	17	22.90	5.3X
GBA	151.22	18	PKPc	24	27.10	9.4X
	0.9s		4.40nm			

S.D. = 1.1 on 20 of 24 obs.

SEP 11, 1991 04h 39m 53.36± 0.50s
13.134 N ± 5.0km 89.520 W ± 5.0km
DEPTH = 67.4 ± 4.3 km
4.8mb (20 obs.)
EL SALVADOR (73)
Ms 5.1 (BRK). Felt (III) ot Son Salvador.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 25S, 43C
Centroid Location:
Origin Time 04:39:53.2 0.7
Lat 13.00N 0.06 Lon 90.12W 0.06
Dep 39.7 4.2 Half-duration 1.5
Moment Tensor; Scale 10**16 Nm
Mrr=-7.74 0.47 Mtt= 5.46 0.61
Mff= 2.27 0 90 Mrt= 0.29 0.98
Mrf=-2.28 0 86 Mtf= 0.36 0.45
Principal Axes:

	Val=	Plg=	Azm=
T	5.50	0	354
N	2.74	12	84
P	-8.24	78	263

Best Double Couple:Mo=6.9*10**16
NP1:Strike= 72 Dip=46 Slip=-107
NP2: 276 46 -73

SJAS	0.63	33	iPc	40	07.80	0.2
OZA	0.64	53	iPc	40	07.60	0.0
VSS	0.66	24	iPc	40	08.50	0.5
LFU	0.73	33	iPc	40	09.40	0.7
CUSS	0.88	332	eP	40	08.10	-2.4
YPE	0.99	351	iPd	40	12.00	-0.1
VSM	1.25	76	iPd	40	15.90	0.4
TPX	3.19	304	iP	40	37.50	-4.7X
			iS	41	14.70	
SCX	4.68	320	(P)	41	03.30	0.2
OXX	7.99	300	iP	41	49.30	0.0
			iS	43	19.50	
PPM	10.55	305	iP	42	23.50	-1.2
UPA	10.63	112	iPc	42	25.00	-0.3
	1.4s		97.67nm			5.6mb
	Z 20s		6.03um			4.8MszX
MRX	12.96	302	eP	42	56.00	-0.3
CGX	14.88	298	eP	43	26.00	4.4X
ANCC	15.74	126	ePd	43	33.15	0.6
CLMC	15.76	125	ePd	43	33.84	0.9
HOBC	15.84	122	ePd	43	30.49	-3.3X
HOQC	15.95	126	eP	43	34.73	-0.7
BUGC	16.00	124	ePd	43	36.94	1.1
SILC	16.66	127	iPd	43	46.04	1.5
CUMC	16.72	135	eP	43	44.97	-0.3
PURC	16.88	128	eP	43	48.81	1.5
GBTN	22.94	11	P	44	54.00	1.5
TKL	23.02	12	P	44	54.20	0.9
MEO	23.07	341	iPd	44	52.20	-1.6
TUL	23.37	347	eP	44	55.90	-0.8
	0.8s		23.20nm			4.7mb
			eS	49	13.00	
ELC	24.05	1	P	45	04.20	0.9
ACO	25.00	341	iPc	45	13.50	1.0
BLA	25.32	17	P	45	16.20	0.8
	1.0s		18.50nm			4.5mb
ALQ	26.58	328	eP	45	26.20	-1.0
	0.9s		5.67nm			4.1mb
ANMO	26.58	328	P	45	26.50	-0.7
	0.9s		18.28nm			4.6mb
	Z 20s		1.60um			4.6Msz
NA2	27.01	21	P	45	31.10	0.3
NNA	27.95	153	eP	45	44.00	4.4X
	1.1s		21.52nm			4.7mb
	Z 18s		1.03um			4.5Msz
GLD	29.91	335	ePc	45	56.80	-0.4
	1.2s		30.30nm			4.9mb
	Z 20s		2.00um			4.7Msz
GOL	29.93	335	ePd	45	56.30	-1.2
	0.9s		11.74nm			4.6mb
	Z 20s		1.00um			4.4Msz
			PcP	48	59.40	
			ScP	52	42.80	
GLA	30.43	315	eP	46	03.00	1.2
PV09	30.68	329	eP	46	04.10	-0.1
			PcP	49	04.70	
TBR	30.94	23	P	46	06.00	-0.1
PLM	32.02	314	eP	46	16.00	0.1
MSU	32.30	326	P	46	18.60	0.4
RVR	32.73	314	eP	46	23.00	1.3
GSC	33.06	317	eP	46	24.00	-0.8
SSK	33.07	314	P	46	25.50	0.6
DAU	33.20	329	P	46	26.00	-0.2
MWC	33.33	314	eP	46	28.00	0.8
PAS	33.37	314	eP	46	29.00	1.7
SBB	33.42	315	eP	46	28.00	0.2
CLC	33.89	317	eP	46	31.00	-0.9
BW06	34.25	333	ePd	46	33.00	-2.1
			PcP	49	09.60	
			ScP	52	55.70	
ARE	34.38	148	eP	46	38.00	1.4
ISA	34.39	316	eP	46	36.00	-0.2
ABL	34.47	314	P	46	38.70	1.6
CWC	34.56	317	eP	46	38.00	0.2
SYP	34.84	313	eP	46	41.00	0.8
BCH	35.25	314	P	46	44.90	1.3
BONR	35.59	319	P	46	47.50	0.8
PHAM	35.81	315	P	46	49.00	0.8
FRI	35.96	317	iPc	46	49.07	-0.3
ZOBO	36.07	143	P	46	50.80	-0.4
	Z 20s		1.90um			4.9Msz
			S	52	36.00	
			LR	58	36.00	
PRI	36.15	315	iPc	46	51.94	0.7
LPB	36.29	144	P	46	52.00	-0.9
	Z 16s		2.69um			5.1MszX
			LR	58	35.00	
CNCB	36.58	144	P	46	52.00	-3.5X
PRS	36.74	315	iPc	46	56.48	0.5
CMB	36.98	318	iPc	46	58.76	0.7
SAO	37.01	315	iPc	47	00.43	2.1
GCC	37.53	315	iPc	47	03.40	0.8
LRM	37.93	334	eP	47	05.90	-0.3
PCC	38.03	316	iPc	47	07.74	0.9

11d 04h

CCH		38.11	142	P	47	07.40	-0.6
				i	47	16.80	
BKS		38.13	316	eP	47	08.20	0.6
		0.9s		44.00nm		5.4mb	
	Z	20s		1.50um		4.8Msz	
	N	20s		1.60um			
	E	20s		2.50um			
				eS	53	05.00	
				e	00	11.00	
				eLR	00	48.00	
ORV		38.55	319	iPc	47	12.34	1.2
MIN		39.06	320	iPc	47	15.84	0.2
NEW		41.85	332	ePc	47	37.00	-1.3
		0.8s		7.08nm		4.5mb	
				PcP	49	33.00	
FFC		42.63	349	eP	47	44.00	-0.6
		0.6s		18.00nm		5.0mb	
PNT		43.76	332	eP	47	54.00	0.2
		0.7s		18.00nm		5.0mb	
SCH		45.24	18	ePd	48	04.70	-0.9
		0.6s		46.00nm		5.5mb	
PEL		49.41	159	eP	48	38.00	-0.4
SAN		49.70	159	eP	48	39.50	-1.1
TACH		49.78	160	eP	48	40.50	-0.8
PCH		49.90	159	eP	48	41.00	-1.3
LNV		49.90	160	eP	48	41.00	-1.1
BAO		50.05	124	ePd	48	43.50	-0.2
PPD		51.24	133	eP	48	50.90	-1.6
YKA		52.44	346	eP	48	59.20	-1.8
		0.7s		24.10nm		5.3mb	
FRB		52.64	12	ePc	49	00.70	-1.8
SOB1		53.14	112	eP	49	05.80	-1.1
VAO		55.00	130	eP	49	18.40	-2.1
				e	49	19.80	
				e	49	22.60	
				e	49	24.30	
INK		61.96	343	ePd	50	06.80	-1.4
PMR		64.28	333	P	50	30.00	6.5X
	Z	18s		1.43um		5.2Msz	
FBA		64.99	336	eP	50	25.10	-3.0
		0.8s		10.34nm		4.8mb	
MBC		65.07	352	eP	50	27.00	-1.4
		0.7s		25.00nm		5.3mb	
SVW		67.11	331	e(P)	50	40.00	-1.7
EKA		77.25	36	P	51	40.00	-1.8
		1.6s		26.90nm		5.0mb	
ADK		78.05	321	P	51	45.60	-0.6
TOL		78.27	52	eP	51	51.00	3.3X
GRR		79.43	43	eP	51	53.80	0.0
		0.7s		4.40nm		4.5mb	
LDF		79.88	42	eP	51	56.20	-0.1
MFF		80.16	44	eP	51	57.80	0.0
BGF		82.20	44	eP	52	08.30	-0.2
		0.7s		6.60nm		4.7mb	
AVF		82.50	44	eP	52	08.80	-1.2
SSF		82.55	44	eP	52	09.90	-0.4
TIC		83.18	85	P	52	14.80	0.6
KIC		83.51	85	P	52	15.50	-0.4
	Z	22s		0.26um		4.6Msz	
KIC		83.51	85	P	52	16.60	0.7
HFS		85.18	29	eP	52	22.60	-0.7
		0.4s		1.50nm		4.4mb	
	Z	20s		0.40um		4.8Msz	
				LR	22	42.00	
BRG		88.23	38	e(P)	52	40.60	2.2
BUL		120.59	106	iPKPd	58	41.00	1.0
KRI		121.28	102	iPKPd	58	43.50	2.1
MTD		123.15	102	iPKPd	58	43.90	-1.0
WMO		123.27	2	PKP	58	44.50	0.2
GTA		127.01	351	PKP	58	52.40	0.6
NJ2		127.49	329	ePKP	58	53.00	0.3
LZH		129.44	346	ePKP	58	57.00	0.4
XAN		129.91	340	ePKP	58	57.50	0.1
WR2		137.48	255	iPKPd	59	12.40	0.3
		0.6s		7.40nm			
				ePP	02	05.80	
GYA		137.62	338	PKP	59	13.60	1.2
ASPA		137.64	249	iPKPd	59	09.80	-2.6
		0.7s		5.40nm			
				ePP	02	55.90	
GKN		138.72	8	PKP	59	13.72	-0.7
GUN		138.96	6	PKP	59	10.42	-4.6X
KKN		139.01	7	PKP	59	10.08	-4.9X
DMN		139.17	7	PKP	59	11.42	-3.9X
PKI		139.24	7	PKP	59	09.14	-6.4X
CHG		147.18	345	ePKP	59	31.00	2 0
		0.8s		12.13nm			

HYB	147.44	22	ePKPc	59	31.30	1.9
	1.2s		75.80nm			
LOE	147.69	340	ePKP	59	32.00	2.2
GBA	150.46	26	PKPc	59	34.90	0.8
	0.5s		6.70nm			
KHT	151.12	344	ePKP	59	42.00	6.9X
KOD	153.43	30	ePKP	59	46.90	8.0X
	S.D. = 1.1 on 115 of 128 obs.					

SEP 11, 1991 05h 39m 09.08± 0.66s
7.334 N ± 3.7km 94.376 E ± 4.2km
DEPTH = 136.0 ± 6.2 km
4.8mb (31 obs.)
NICOBAR ISLANDS, INDIA (704)

TSI	5.65	132	iPc	40	32.50	0.6
SNG	6.19	91	eP	40	39.00	-0.4
	0.9s		89.08nm		5.0mb	
PSI	6.46	135	iPd	40	43.20	0.1
IPM	7.16	112	ePc	40	51.90	-0.6
	0.4s		42.10nm		5.3mb	
			e	42	11.60	
KHT	8.48	29	eP	41	10.70	0.4
NST	10.02	34	eP	41	32.00	1.2
KGM	10.36	120	eP	41	35.50	0.2
BDT	10.84	24	iPc	41	41.50	-0.1
	0.7s		28.00nm		5.1mb	
LOE	12.32	35	eP	42	02.00	1.0
KOD	16.96	281	eP	43	01.20	1.3
			eS	44	50.50	
GBA	17.78	292	Pd	43	09.50	-0.1
	0.8s		51.00nm		4.9mb	
SHL	18.29	353	eP	43	12.00	-3.5X
			eS	46	42.00	
HYB	18.40	304	iPd	43	16.20	-0.4
	1.0s		50.00nm		4.8mb	
			e	43	22.50	
			eS	46	28.00	
QIZ	19.00	51	Pc	43	23.60	0.7
	1.0s		70.00nm		4.9mb	
			eS	46	49.00	
KMI	19.41	23	Pc	43	24.00	-3.4X
	1.0s		40.00nm		4.7mb	
PKI	21.85	338	P	43	50.06	-1.9
GUN	21.99	340	P	43	51.52	-1.9
DMN	22.00	338	P	43	51.74	-1.6
KKN	22.10	338	P	43	52.36	-1.9
GYA	22.33	30	P	43	58.00	1.6
LSA	22.45	353	P	43	57.00	-1.0
GKN	22.53	337	P	43	57.22	-1.2
TSM	23.57	96	ePc	44	09.40	1.0
CD2	25.05	19	P	44	22.40	0.1
NDI	26.71	325	iPd	44	36.70	-0.8
	1.0s		40.00nm		5.0mb	
WHN	29.72	36	Pd	45	05.50	1.0
XAN	29.78	25	eP	45	03.80	-1.3
GTA	32.31	8	iPd	45	26.70	-0.5
	0.6s		10.00nm		4.8mb	
			ScP	51	43.40	
QUE	34.33	315	eP	45	44.10	-0.8
SSE	34.45	43	P	45	46.00	0.4
TIA	35.47	33	P	45	54.30	0.0
	1.0s		10.00nm		4.6mb	
NANU	36.22	146	eP	46	00.30	-0.3
HHC	36.73	22	eP	46	05.60	0.7
WMQ	36.81	352	P	46	05.00	-0.5
	1.0s		10.00nm		4.6mb	
			S	51	39.00	
BJI	37.97	28	eP	46	17.00	1.9
	0.7s		4.00nm		4.3mb	
GAR	38.26	329	iP	46	16.60	-1.1
MUN	44.30	153	iPd	47	07.70	0.6
KLB	44.70	151	iPd	47	10.70	0.5
CN2	45.36	32	P	47	15.70	0.4
WARB	45.73	138	eP	47	18.00	-0.5
WR2	47.78	125	iPd	47	33.40	-1.3
	0.3s		97.30nm		6.0mb X	
MDJ	48.12	34	eP	47	37.00	0.0
MAT	49.35	47	eP	47	47.00	0.4
	0.7s		9.59nm		4.7mb	
ASPA	49.39	130	iPc	47	45.60	-1.5
	0.4s		32.50nm		5.5mb	
			i	49	07.90	
FORR	49.85	141	iPc	47	50.20	-0.1
	0.3s		31.00nm		5.6mb	
QIS	52.38	123	iPc	48	08.00	-1.7
	0.2s		4.00nm		4.9mb	

			i	49	19.00	
PMG	55.15	107	eP	48	29.00	-1.0
CTAO	57.84	119	eP	48	48.00	-1.0
			e	49	40.00	
OLP	58.92	127	iPc	48	55.70	-0.7
	0.6s		129.00nm		6.1mb X	
STK	59.57	134	eP	48	54.70	-6.0X
	0.6s		6.90nm		4.8mb	
RMQ	62.52	125	eP	49	30.50	9.8X
	0.7s		24.00nm		5.2mb	
TOO	65.31	137	iPd	49	39.70	1.0
	0.9s		37.00nm		5.3mb	
BWA	65.79	133	eP	49	39.40	-2.5
BRS	66.16	124	iPc	49	44.10	-0.3
	1.0s		7.00nm		4.5mb	
			i	50	12.00	
CAN	66.63	133	iPc	49	47.00	-0.2
COO	66.72	128	iPd	49	48.80	0.9
	0.7s		33.00nm		5.3mb	
CIR	67.76	244	iPd	49	47.20	-7.3X
BUL	70.17	246	iPd	50	10.70	1.2
SLR	72.07	240	iPc	50	21.00	0.2
KAF	73.37	333	iP	50	27.50	0.0
	0.4s		1.60nm		4.1mb	
NUR	73.72	331	eP	50	29.20	-0.3
SOD	74.79	338	iP	50	36.00	0.3
FRS	75.77	237	iPd	50	42.70	0.8
	0.7s		10.27nm		4.7mb	
HVD	75.88	236	iPc	50	43.80	1.1
ZST	76.09	318	iP	50	43.30	0.0
HFS	79.04	330	eP	50	59.00	-0.3
	0.4s		6.20nm		4.7mb	
OGA	80.15	316	iPc	51	06.30	0.5
	0.6s		7.00nm		4 6mb	
PGF	81.69	312	eP	51	15.30	1.5
CDF	82.65	318	eP	51	18.50	-0.1
LPG	83.16	315	eP	51	22.00	0.4
	0.7s		6.05nm		4.6mb	
LPL	83.17	315	eP	51	22.20	0.6
	0.6s		5.85nm		4.6mb	
HAU	83.29	317	eP	51	21.80	0.0
	0.7s		6.60nm		4.6mb	
LMR	83.47	313	eP	51	23.50	0.7
LBF	84.97	317	eP	51	30.60	0.3
	0.5s		3.30nm		4.4mb	
LOR	85.02	317	eP	51	30.90	0.4
	0.6s		4.50nm		4.5mb	
SMF	85.09	316	eP	51	31.10	0.2
	0.7s		5.50nm		4.5mb	
SSF	85.28	317	eP	51	32.10	0.3
EWZ	85.31	135	eP	51	32.40	0.5
AVF	85.41	316	eP	51	32.80	0.3
MAF	86.01	316	eP	51	36.10	0.6
THZ	86.36	133	eP	51	37.30	0.0
RJF	86.85	315	eP	51	40.50	0.9
LPO	87.16	315	eP	51	42.10	1.0
MNG	88.02	131	P	51	44.90	-0.3
MBC	94.26	8	eP	52	14.00	0.5
INK	97.44	16	eP	52	29.00	0.9
LRM	121.89	22	ePKP	57	49.00	-0.1
BW06	125.57	22	PKP	57	56.00	-0.4
	1.0s		9.25nm			
ANMO	133.57	24	PKP	58	12.80	1.0
	1.0s		6.25nm			
ALQ	133.58	24	ePKP	58	12.20	0.4
TUL	135.94	12	ePKP	58	14.30	-1.7
	0.6s		3.70nm			
PPD	143.85	242	ePKP	58	30.40	-0.2
			e	58	34.90	
CHCH	150.13	206	ePKP	58	46.00	5.5X
PCH	150.34	206	iPKP	58	46.80	6.0X
LNV	150.43	204	ePKP	58	47.00	6.2X
TACH	150.49	205	ePKP	58	47.00	6.0X
PEL	150.82	206	iPKPc	58	48.00	6.5X
ROCH	151.11	206	ePKP	58	49.00	6.8X
	S.D. = 0.9 on 87 of 98 obs.					

SEP 11, 1991 06h 41m 14.81± 0.87s
36.372 N ± 7.4km 70.220 E ± 6.5km
DEPTH = 205.3 ± 11.6 km
4.5mb (10 obs.)
HINDU KUSH REGION, AFGHANISTAN (718)

KSH	5.50	54	P	42	36.60	0.1
			S	43	38.50	
QUE	6.75	205	eP	42	54.80	2.1
			eS	44	12.20	

MAIO	8.66	273	eP	43	16.00	-1.5
			eS	44	35.00	
NDI	9.67	140	iPd	43	29.80	-0.8
	0.6s	56.67nm			5.1mb	
			iS	45	10.80	
GKN	14.77	120	P	44	34.56	-0.8
WMO	15.29	56	P	44	44.00	2.5
			S	47	31.20	
DMN	15.34	121	P	44	41.78	-0.7
	0.7s	115.00nm			5.4mb	
KKN	15.35	120	P	44	41.44	-1.1
PKI	15.58	120	P	44	44.30	-1.1
	0.5s	228.00nm			5.8mb	X
GUN	15.71	118	P	44	46.04	-0.9
HYB	20.27	156	eP	45	37.00	0.9
SHL	21.43	114	iP	45	43.20	-4.3X
			eS	49	35.00	
GTA	23.50	74	P	46	09.20	1.7
	0.4s	10.00nm			4.8mb	
GBA	23 58	162	Pc	46	09.50	1.3
	0.8s	11.20nm			4.5mb	
OBN	29.61	320	eP	47	03.00	0.6
KAF	37.39	328	iP	48	09.10	0.1
	0.5s	3.60nm			4.2mb	
NUR	37.57	325	iP	48	10.70	0.2
	0.8s	17.60nm			4.7mb	
SOD	39.59	335	iP	48	27.20	0.1
KEV	40.69	339	eP	48	36.00	-0.1
HFS	42.78	322	eP	48	52.80	-0.5
	0.4s	3.90nm			4.3mb	
NAO	44.27	323	P	49	04.60	-0.6
	0.9s	8.40nm			4.2mb	
MBC	67.49	2	eP	51	49.50	-0.4
INK	74.13	9	eP	52	30.00	0.4
KIC	74.15	266	P	52	31.00	0.4
FBA	74.76	16	P	52	32.50	-0.8
	1.0s	2.30nm			3.9mb	
YKA	81.40	2	eP	53	08.10	-1.2
	0.8s	1.60nm			3.8mb	

S.D. = 1.1 on 25 of 26 obs.

& SEP 11, 1991 07h 13m 35.66s
46.933 N 120.348 W
DEPTH = 3.9km
WASHINGTON (29)
<SEA>. MD 2.6 (SEA).

EBG	0.15	261	Pd	13	39.13	0.3
VTG	0.25	84	P	13	40.82	0.2
TBM	0.29	324	Pc	13	42.62	1.1
			S	13	48.56	
BVW	0.34	111	P	13	43.29	0.7
			S	13	49.41	
MXC	0.36	174	Pd	13	43.39	0.5
			S	13	50.85	
NAC	0.38	239	Pd	13	44.58	1.2
TWW	0.41	300	P	13	45.09	1.2
BRVW	0.51	151	P	13	46.65	0.8
MDW	0.51	128	P	13	46.28	0.3
WAH2	0.57	108	Pc	13	47.31	0.3
RC1	0.63	89	P	13	48.33	0.1
EPH	0.66	50	P	13	48.52	-0.4
LOCW	0.66	109	P	13	48.87	-0.1
CRF	0.67	99	P	13	49.04	0.0
ETW	0.67	1	Pc	13	48.73	-0.4
GBL	0.70	118	Pc	13	49.95	0.4
RSW	0.75	136	P	13	51.05	0.3
WTV	0.81	19	P	13	51.70	-0.2
WRD	0.83	87	P	13	51.88	-0.2
PRW	0.85	147	P	13	53.27	0.6
WPW	0.86	255	P	13	52.17	-0.6
WIW	0.89	124	P	13	53.24	0.1
CBSW	0.90	13	P	13	53.15	-0.3
FMW	0.91	270	P	13	53.15	-0.6
GLK	0.94	247	P	13	54.30	0.0
SAW	1.00	40	P	13	54.51	-0.8
LON	1.02	260	P	13	55.17	-0.4
GSM	1.03	286	P	13	55.59	-0.1
GL2	1.03	199	P	13	55.60	-0.1
ET3	1.03	110	P	13	55.39	-0.4
RVC	1.11	271	P	13	56.68	-0.5
DHW2	1.12	20	P	13	57.23	-0.1
RMW	1.12	298	P	13	57.12	-0.2
PATW	1.13	159	P	13	58.22	0.9
			S	14	14.99	
NLW	1.15	0	P	13	57.61	-0.2
ASR	1.16	228	P	13	58.57	0.5
OD2	1.21	67	P	13	58.09	-0.6
HTW	1.30	313	P	14	00.22	-0.1
GULW	1.33	221	P	13	59.28	-1.6
KOSW	1.35	250	P	14	01.03	-0.3
LMW	1.36	259	P	14	01.79	0.3
WG3	1.37	131	P	14	00.76	-0.8
TDL	1.41	246	P	14	02.40	0.1
SOSW	1.42	241	P	14	03.00	0.6
CDFW	1.43	236	P	14	02.98	0.5
ESD	1.44	240	P	14	03.52	0.7
VGB	1.45	192	P	14	02.44	-0.3
BLH	1.46	309	P	14	03.42	0.6
STD	1.47	242	P	14	03.47	0.4
JLK	1.47	238	P	14	03.46	0.4
SHW	1.50	241	P	14	04.47	1.0
JBO	1.51	166	P	14	03.69	0.1
FL2	1.57	243	P	14	04.93	0.5
MTMW	1.58	235	P	14	05.11	0.6
JCW	1.65	320	P	14	05.83	0.2
LVP	1.67	239	P	14	06.48	0.6
RPW	1.71	333	P	14	07.89	1.5
DPW	1.73	56	P	14	05.49	-1.3
VLL	1.74	213	P	14	07.67	0.8
VTHM	1.76	185	P	14	07.52	0.4
GMW	1.77	291	P	14	08.13	0.8
LNOR	1.78	126	P	14	08.36	0.9
VFP	1.79	206	P	14	08.30	0.5
CPW	1.91	272	P	14	11.19	1.8
HDW	1.98	292	P	14	11.10	0.8
CROR	2.00	193	P	14	10.97	0.3
BMW	2.03	258	P	14	13.04	1.9
VBEM	2.06	205	P	14	13.17	1.5
BLN	2.08	302	P	14	12.70	0.9
SMW	2.08	282	P	14	13.24	1.4
MBW	2.13	331	P	14	14.26	1.7
NLO	2.30	250	P	14	17.79	2.7
VIPM	2.43	185	P	14	20.69	3.7

73 obs. associated

? SEP 11, 1991 07h 14m 20.02± 3.65s
36.719 N ±50.2km 141.215 E ±25.7km
DEPTH = 58.1 ± 22.8 km
4.4mb (2 obs.)
NEAR EAST COAST OF HONSHU, JAPAN(228)

MAT	2.42	267	eP	14	58.00	0.0
			eS	15	23.00	
GUN	47.03	276	PKP	22	52.04	4.1X
PKI	47.55	276	PKP	22	52.00	0.0
KKN	47.56	276	PKP	22	52.30	0.4
DMN	47.78	276	PKP	22	54.10	0.4
GKN	47.98	277	PKP	22	55.50	0.3
INK	54.74	27	eP	23	45.00	-0.3
GBA	61.03	266	Pc	24	28.80	-1.3
	0.7s	2.90nm			4.5mb	
NAO	74.70	337	P	26	04.20	9.4X
	0.9s	3.20nm			4.3mb	
ZOBO	146.98	60	PKP	33	57.20	0.5
LPB	147.18	60	PKP	34	07.00	10.2X
CNCB	147.45	60	PKP	34	02.00	4.6X

S.D. = 0.8 on 8 of 12 obs.

? SEP 11, 1991 07h 39m 04.79± 8.55s
13.008 N ±16.7km 60.193 W ±74.8km
DEPTH = 33.0km (normal)
WINDWARD ISLANDS (95)
MD 3.3 (TRN).

SOA	1.00	291	eP	39	22.99	0.5
			eS	39	34.83	
SVB	1.06	284	iP	39	22.99	-0.4
			eS	39	36.59	
SLB	1.16	315	iP	39	24.70	-0.1
			eS	39	38.99	
GRW	1.66	240	eP	39	32.13	0.0
			eS	39	52.75	

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

? SEP 11, 1991 07h 53m 17.72± 1.27s
50.239 N ±20.6km 18.918 E ± 8.1km
DEPTH = 10.0km (geophysicist)
POLAND (548)
ML 2.9 (KRA).

RAC	0.49	252	eP	53	27.00	-0.7
			eS	53	35.00	
KRA	0.68	105	ePg	53	30.50	-0.7
			iSg	53	40.00	
SPC	1.36	140	ePn	53	43.60	0.7
			iSg	54	04.30	
KSP	1.78	291	iPg	53	49.40	0.7
			iS	54	13.00	
PSZ	2.41	164	e(P)	54	04.00	6.1X
DST	12.65	143	ePn	56	32.00	11.6X

S.D. = 1.4 on 4 of 6 obs.

SEP 11, 1991 09h 03m 27.71± 0.54s
42.275 N ± 5.3km 25.454 E ± 5.2km
DEPTH = 5.0km (geophysicist)
BULGARIA (359)
MD 3.3 (THE).

DIM	0.23	165	iPgc	03	33.00	0.6
			iSg	03	35.00	
PLD	0.58	253	iPgc	03	38.00	-1.4
			iSg	03	46.00	
KDZ	0.63	183	iPgc	03	40.00	-0.2
			iSg	03	48.00	
JMB	0.86	77	iPg	03	44.00	-0.7
			iSg	03	51.00	
PVL	0.94	355	iPg	03	46.00	-0.2
			iSg	03	58.00	
ALN	1.45	162	iPd	03	54.77	0.2
			eS	04	14.98	
MMB	1.46	243	iPgc	03	55.00	0.2
VTS	1.69	282	iP	03	58.00	-0.2
			iSg	04	21.00	
DMK	1.77	104	ePn	03	59.40	0.1
KKB	1.81	258	iP	04	02.00	2.2
			iS	04	26.00	
SRS	1.81	231	ePd	04	03.29	3.5X
			iS	04	27.58	
MFT	2.02	137	ePn	04	03.00	0.1
SOH	2.14	228	ePc	04	08.12	3.5X
			iS	04	35.90	
OUR	2.23	210	ePd	04	09.24	3.3X
			iS	04	38.08	
VAY	2.36	247	ePn	04	12.50	4.8X
CTT	2.50	116	ePn	04	08.60	-1.1
GRG	2.64	241	ePd	04	15.37	3.6X
TLB	2.98	38	eP	04	23.50	7.0X
VRI	3.71	14	eP	04	29.00	2.1
BZS	4.34	322	ePc	04	34.00	-1.8

S.D. = 1.2 on 14 of 20 obs.

SEP 11, 1991 09h 27m 22.69± 0.56s
37.662 N ± 5.0km 26.660 E ± 4.8km
DEPTH = 18.8 ± 4.3 km
DODECANESE ISLANDS (369)
ML 3.7 (ATH).

IZM	0.88	33	iPg	27	37.80	-1.3
PRK	1.61	349	ePn	27	50.00	-0.3
EZN	2.18	353	iPn	27	57.50	-1.0
ATH	2.35	278	ePn	28	01.50	0.5
KHL	2.36	73	iPn	28	01.50	0.4
DST	2.48	38	iPn	28	03.00	0.2
NPS	2.54	200	ePn	28	02.80	-0.9
ELL	2.75	108	iPn	28	07.00	0.2
EDC	2.84	19	iPn	28	08.50	0.6
VLI	3.12	254	ePn	28	15.00	3.1X
MFT	3.16	9	ePn	28	12.00	-0.5
IZI	3.45	38	ePn	28	17.00	0.3
RDO	3.59	346	ePn	28	17.80	-0.7
YLV	3.59	35	ePn	28	19.00	0.4
CTT	3.74	21	ePn	28	20.60	-0.1
GPA	3.87	46	ePn	28	23.00	0.4
ITU	3.89	27	ePn	28	33.00	10.2X
			iSg	29	26.00	
HRT	3.93	36	ePn	28	24.00	0.7
EYL	3.98	42	ePn	28	24.00	-0.1
KDZ	4.10	347	iPc	28	25.00	-0.8
DMK	4.24	11	ePn	28	28.00	0.2
DIM	4.47	349	eP	28	32.00	1.0
MMB	4.53	331	iP	28	32.00	0.1
			eS	29	44.00	
PLD	4.69	342	eP	28	36.00	1.9
KKB	5.02	328	iP	28	39.00	0.1
VTS	5.59	333	eP	28	48.00	1.0
PVL	5.64	350	iP	28	43.00	-4.6X
CSS	6.02	115	eP	28	53.00	0.0
VRI	8.20	0	eP	29	21.00	-2.6

S.D. = 0.9 on 26 of 29 obs.

11d 09h

& SEP 11, 1991 09h 37m 38.93s
60.292 N 150.941 W
DEPTH = 60.9km
KENAI PENINSULA, ALASKA (14)
<AEIC>. ML 2.8 (AEIC).

NNL	0.31	215	iPd	37 49.96	0.7
SLKM	0.42	58	ePd	37 49.97	-0.3
			S	37 58.73	
BRLK	0.53	177	ePc	37 51.01	-0.4
			iS	38 00.23	
HOM	0.73	209	iPd	37 53.53	-0.1
			eS	38 04.73	
SEW	0.77	104	iPc	37 53.21	-0.9
RDT	0.78	292	iPc	37 53.63	-0.8
CNPM	0.78	191	iPd	37 53.83	-0.6
			iS	38 04.97	
REF	0.90	284	iPc	37 55.26	-0.7
			iS	38 08.20	
DFR	0.92	290	iPc	37 55.33	-0.8
			S	38 08.35	
RSO	0.92	282	iPc	37 55.49	-0.8
			eS	38 08.96	
RS1	0.92	281	iPc	37 55.56	-0.7
			S	38 08.77	
RED	0.92	279	iPc	37 55.38	-0.8
			eS	38 08.33	
RS2	0.92	282	iPc	37 55.53	-0.7
			eS	38 08.46	
RDN	0.93	285	iPc	37 55.48	-0.9
			iS	38 08.31	
RDW	0.95	282	ePc	37 55.82	-0.8
			S	38 09.11	
NCT	1.02	286	iPc	37 56.83	-0.7
			iS	38 11.01	
SPU	1.05	329	iPc	37 57.15	-0.7
			eS	38 11.76	
CKL	1.14	324	iPc	37 58.51	-0.6
			iS	38 14.21	
CGLM	1.15	333	iPc	37 58.78	-0.4
PMS	1.17	35	iPd	37 59.16	-0.3
			iS	38 15.31	
SUA	1.18	5	iPd	37 59.11	-0.6
BGL	1.21	325	iPc	37 59.60	-0.4
NCG	1.26	332	iPc	38 00.49	-0.3
			eS	38 17.23	
OPT	1.32	242	iPd	38 00.75	-0.7
PWA	1.46	20	eP	38 02.69	-0.7
AUE	1.54	234	eP	38 03.82	-0.7
AUL	1.56	235	eP	38 04.10	-0.6
AUP	1.56	234	eP	38 04.38	-0.5
LTI	1.56	98	ePd	38 03.07	-1.8
			S	38 22.04	
AUH	1.57	235	eP	38 04.50	-0.5
PLRM	1.58	33	iPd	38 03.80	-1.2
AUW	1.58	235	iPc	38 04.59	-0.4
AUI	1.58	234	eP	38 04.42	-0.7
			eS	38 25.20	
KNIM	1.60	87	iPd	38 02.99	-2.3
KNK	1.66	46	iPd	38 05.01	-1.1
SKT	1 72	351	ePd	38 06.59	-0.4
			eS	38 28.00	
SYI	1.84	204	iPd	38 07.83	-0.9
CDD	1.94	226	ePd	38 09.22	-0.8
GLI	1.99	71	iPd	38 07.94	-2.8
MCNL	2.05	239	eP	38 10.23	-1.3
	40 obs. ossociated				

? SEP 11, 1991 10h 38m 51.40± 2.00s
31.631 S ±33.0km 69.568 W ±24.6km
DEPTH = 110.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

ZON	0.76	84	iPd	39 10.50	-0.1
			eS	39 25.50	
JACH	1.36	219	iP	39 18.00	1.0
			iS	39 39.50	
PEL	1.78	212	iPd	39 22.90	0.8
			iS	39 47.40	
ROCH	1.81	222	iPd	39 23.00	0.3
			iS	39 47.70	
PCH	2.14	202	iPc	39 27.20	0.4
			iS	39 56.50	
TACH	2.32	209	iPc	39 29.00	-0.1
			iS	39 59.30	
CHCH	2.47	201	iPc	39 31.20	0.1
LCCH	2.50	222	iPc	39 30.80	-0.6
LNV	2.79	213	iP	39 33.50	-1.8
			iS	40 07.50	

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

SEP 11, 1991 10h 57m 08.88± 0.29s
39.959 N ± 3 3km 23.961 E ± 2.4km
DEPTH = 17 4 ± 2.9 km
AEGEAN SEA (365)
ML 3.8 (ATH). MD 3.7 (THE).

PAIG	0.22	262	iP	57 13.20	-0.9
OUR	0.38	2	iP	57 17.10	0.4
SOH	0.98	332	iP	57 27.30	0.3
THE	1.02	312	iP	57 28.70	1.1
			iS	57 42.90	
LIT	1.14	278	iP	57 29.50	-0.2
			iS	57 46.30	
SRS	1.19	346	iP	57 31.10	0.5
			iS	57 48.00	
GRG	1.55	310	iP	57 37.10	1.3
			iS	57 56.30	
AGG	1.57	234	iP	57 35.70	-0.4
			iS	57 56.40	
MMB	1.64	354	iPc	57 37.00	-0.1
			iS	58 01.00	
RDO	1.69	45	ePn	57 37.20	-0.5
KZN	1.71	282	ePn	57 38.50	0.3
VAY	1.72	323	iPn	57 41.00	2.8X
			i	58 03.30	
			iSg	58 05.40	
EZN	1.82	93	ePn	57 40.70	1.0
ALN	1.85	59	iP	57 39.30	-0.7
PRK	1.92	111	ePn	57 41.70	0.6
ATH	1.99	186	ePn	57 41.80	-0.3
KDZ	2.02	33	iPc	57 42.00	-0.5
			iS	58 11.00	
KKB	2.02	341	iPc	57 43.00	0.5
			iS	58 11.00	
FNA	2.14	293	iP	57 44.90	0.5
PLD	2.22	14	iP	57 46.00	0.6
DIM	2.40	29	iP	57 48.00	0.0
MFT	2.67	71	ePn	57 52.00	0.1
OHR	2.67	297	iPn	57 51.80	-0.1
			iSn	58 22.50	
VTS	2.69	348	iP	57 53.00	0.7
			iSg	58 37.00	
SKO	2.77	317	ePn	57 53.50	0.2
	1.2s		220.00nm		
			i	58 05.20	
			i	58 25.20	
			i	58 39.00	
IGT	2.83	263	iP	57 56.20	2.1
EDC	3.02	81	ePn	58 00.00	3.3X
VLS	3.17	237	ePn	58 00.00	1 0
KEK	3.21	267	ePn	58 01.00	1.4
VLI	3.33	194	ePn	58 01.70	0.4
PVL	3.41	17	iPc	58 01.00	-1.3
			iSg	58 58.00	
DMK	3.43	56	iPn	58 01.90	-0.7
CTT	3.61	69	ePn	58 04.60	-0.6
DST	3 61	94	ePn	58 05.00	-0.3
ISK	4.04	72	ePn	58 15.00	3.8X
YLV	4.18	80	ePn	58 14.60	1.2
IZI	4.24	83	eP	58 14.60	0.4
LCI	4.62	277	P	58 17.50	-2.0
			eSn	59 08.50	
BUC1	4.65	19	eP	58 38.00	18.1X
DRA	4.72	3	ePd	58 22.00	1.1
BRT	5.24	282	P	58 28.60	0.3
			eSn	59 28.60	
COZ	5.37	3	eP	58 30.00	-0.2
BEO	5 51	333	ePn	58 52.00	20.0X
			e(Sg)	00 10.00	
TLB	5.52	32	eP	58 33.50	1.2
CSI	5.91	271	P	58 38.60	0.9
BZS	5.91	344	ePc	58 36.00	-1.7
DEV	5 97	353	eP	58 50.00	11.5X
CFR	6 07	29	eP	58 50.00	10.1X
CZI	6.09	266	P	58 39.90	-0.3
			eSn	59 42.00	
VRI	6.25	18	eP	58 42.00	-0.4
SOI	6.44	255	P	58 43.20	-2.0
			eSn	59 52.50	
MGR	6 45	274	P	58 44.90	-0.5
			eSn	59 55.00	
SGO	6.65	278	P	58 47.70	-0.4
			eSn	00 00.00	
ATN	6.85	258	P	58 48.60	-2.4X
			eSn	00 03.50	
CLI	7.02	19	iPc	58 53.00	-0.3
MEU	7.63	251	P	58 58.10	-3.9X
			eSn	00 21.50	
SDI	7.89	286	P	59 04.30	-1.3

S.D. = 0.9 on 48 of 57 obs.

---

* SEP 11, 1991 11h 24m 48.09± 1.42s
39.879 N ± 9.0km 24.104 E ±10.2km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
MD 3.0 (THE).

OUR	0.46	348	iPc	24 57.50	0.0
SOH	1.10	329	ePd	25 08.06	-0.8
THE	1.15	311	ePc	25 09.90	0.3
LIT	1.26	281	iPc	25 10.98	-0.5
SRS	1.30	343	ePd	25 12.10	0.0
			eS	25 31.90	
AGG	1.62	239	iPd	25 16.58	-0.2
GRG	1.69	310	ePd	25 19.02	1.2
MMB	1.73	351	iPc	25 19.00	0.6
			iS	25 44.00	
VAY	1.85	321	ePn	25 21.30	1.1
KDZ	2.03	29	iP	25 23.00	0.3
			iS	25 53.00	
KKB	2.13	339	iP	25 23.00	-1.2
			iS	25 54.00	
VTS	2.79	346	eP	25 33.00	-0.8
			S	26 17.00	

S.D. = 0 8 on 12 of 12 obs.

% SEP 11, 1991 11h 44m 12.82± 2.13s
39.900 N ±10.6km 23.980 E ±15.7km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
MD 2.9 (THE).

PAIG	0.23	277	ePc	44 17.01	-0.8
OUR	0.43	0	iPd	44 20.94	-0.7
			iS	44 27.53	
SOH	1.04	333	ePd	44 31.73	-0.7
			eS	44 44.26	
LIT	1.16	280	ePc	44 34.22	-0.3
			iS	44 50.42	
SRS	1.25	346	ePd	44 35.66	-0.4
AGG	1.55	236	ePc	44 39.90	-0.6
			iS	44 59.37	
GRG	1.60	312	ePc	44 40.42	-0.8
			eS	45 02.82	

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

% SEP 11, 1991 11h 46m 34.49± 0.62s
43.907 N ±10.6km 11.135 E ± 4.5km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

BDI	0.42	292	P	46 42.70	-0.4
			eSg	46 47.90	
MME	0.42	313	P	46 43.40	0.2
			eSg	46 47.80	
PGD	0.42	94	P	46 43.60	0.4
			eSg	46 52.00	
PII	0.48	247	P	46 44.40	0.2
			eSg	46 51.70	
SFI	0.52	88	P	46 44.60	-0.4
			eSg	46 53.40	
CRE	0.65	115	P	46 46.80	-0.8
			eSg	46 57.90	
ARV	1.37	107	P	47 00.50	0.8
			eSg	47 18.00	

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

& SEP 11, 1991 11h 59m 47.73s
56.929 N 157.675 W
DEPTH = 13.4km
3.7mb (1 obs.)
ALASKA PENINSULA (12)
<AEIC>. ML 4.0 (AEIC).

SDN	2.24	226	eP	00 22.80	-2.2
MCNL	2.88	37	eP	00 31.75	-2.2
			eS	01 06.22	
KDC	2.93	72	ePc	00 32.40	-2.3
CDD	2.94	45	eP	00 33.40	-1.5
			eS	01 10.43	

SYI	3.29	57	eP	00	38.76	-1.2
AUI	3.30	41	eP	00	37.16	-2.9
AUW	3.31	41	eP	00	38.68	-1.5
AUH	3.32	41	eP	00	39.58	-0.7
AGU	3.32	41	eP	00	37.77	-2.6
AUP	3.32	41	eP	00	37.90	-2.5
AUL	3.33	41	eP	00	39.60	-0.9
AUE	3.34	41	eP	00	39.42	-1.1
OPT	3.60	39	eP	00	43.04	-1.3
CNPM	4.29	50	eP	00	52.58	-1.5
SVW	4.32	13	eP	00	52.50	-2.1
RS1	4.37	34	eP	00	53.33	-2.1
RS2	4.37	34	eP	00	53.54	-1.9
RSO	4.38	34	eP	00	54.13	-1.3
REF	4.41	34	eP	00	53.92	-2.1
RDT	4.57	35	eP	00	57.15	-1.0
SPU	5.16	32	eP	01	05.13	-1.3
SLKM	5.29	44	eP	01	06.64	-1.6
SEW	5.36	50	eP	01	07.85	-1.3
PMS	6.02	41	eP	01	16.90	-1.6
LTI	6.02	55	eP	01	14.78	-3.7
TTA	6.08	7	eP	01	17.10	-2.3
KNIM	6.22	52	eP	01	17.79	-3.5
PMR	6.40	40	eP	01	24.10	0.2
TOA	7.81	44	eP	01	43.20	-0.5
ANM	8.53	337	P	01	51.00	-2.7
BALM	8.91	56	P	01	54.40	-4.7
FBA	9.32	27	eP	02	02.40	-2.2
INK	15.77	34	eP	03	31.00	0.3
YKA	22.08	58	eP	04	45.70	2.1
	0.6s		1.80nm			3.7mb
PNT	23.81	92	eP	05	02.00	1.3
	35 obs. associated					

? SEP 11, 1991 12h 16m 17.00± 1.38s
14.235 N ±11.8km 145.458 E ±36.1km
DEPTH = 105.8 ± 12.5 km
4.2mb (3 obs.)
MARIANA ISLANDS (216)

PJG	0.86	222	iPd	16	36.50	-0.2
GUA	0.87	218	iPd	16	37.30	0.5
			eS	16	52.30	
MAT	23.14	345	eP	21	14.00	-0.7
PMG	23.55	176	eP	21	17.00	-1.7
WR2	35.68	198	iPc	23	06.40	-0.6
	0.5s		5.40nm			4.7mb
ASPA	39.33	197	iPc	23	38.10	0.6
	1.5s		4.50nm			4.1mb
RMO	40.61	175	iPc	23	57.80	9.9X
WARB	44.15	205	iPc	24	18.10	1.2
FBA	67.40	25	P	27	02.10	-0.7
INK	73.56	23	eP	27	41.00	1.2
YKA	82.03	28	eP	28	26.10	-0.3
	0 4s		0.90nm			3.9mb
KIC	144.04	303	(PKP)	35	41.60	-1.1
ZOBO	147.56	98	PKP	35	51.00	1.8
CNCB	147.70	99	PKP	35	54.00	4.6X
	S.D. = 1.3		on	12	of	14 obs.

% SEP 11, 1991 12h 46m 05.73± 2.72s
44.491 N ± 9.1km 6.665 E ±20.8km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.3 (GEN).

PZZ	0.31	87	P	46	12.66	0.4
			S	46	16.77	
RRL	0.44	11	P	46	14.92	0.2
			S	46	21.07	
STV	0.53	117	P	46	16.36	-0.2
			S	46	22.82	
BHB	0.55	50	P	46	16.97	0.0
			S	46	23.64	
ENR	0.60	116	P	46	17.59	-0.4
			S	46	24.87	
RSP	0.78	32	P	46	20.66	-0.4
			S	46	31.63	
IMI	1.06	123	P	46	26.20	0.5
FIN	1.14	104	P	46	26.92	-0.2
	S.D = 0.4		on	8	of	8 obs.

? SEP 11, 1991 13h 33m 00.12± 4.48s
37.539 N ±28.8km 26.494 E ±25.7km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)

IZM	1.05	35	iPg	33	20.30	0.3
			eSg	33	31.80	
CIN	1.27	87	ePg	33	23.00	-0.6
			iSg	33	38.00	
EZN	2.29	357	ePn	33	38.50	0.1
KHL	2.52	71	ePn	33	43.00	1.2
DST	2.66	38	ePn	33	43.50	-0.3
IZI	3.63	39	ePn	33	57.00	-0.7
	S.D. = 0.9		on	6	of	6 obs.

• SEP 11, 1991 13h 50m 28.39± 2.01s
5.459 S ±11.3km 153.137 E ±16.0km
DEPTH = 43.7 ± 16.4 km
4.7mb (4 obs.)
NEW IRELAND REGION, P.N.G. (190)

RAB	1.59	323	iPc	50	55.50	1.0
	0.5s		507.04nm			
			iS	51	24.00	
PMG	7.11	236	eP	52	11.00	-1.6
DZM	20.94	143	iPd	55	10.00	-0.1
RMO	21.33	191	eP	55	22.50	8.6X
ASPA	25.90	224	eP	55	59.80	1.5
	1.0s		3.10nm			3.8mb
CHTO	58.57	296	(P)	00	22.30	-1.2
	1.3s		4.90nm			4.5mb
YAK	69.66	348	iP	01	34.70	-0.5
GUN	72.75	301	P	01	55.14	0.3
PKI	73.06	301	P	01	56.46	-0.2
KKN	73.22	301	P	01	57.66	0.2
	0.8s		17.00nm			5.0mb
DMN	73.33	301	P	01	58.70	0.6
GKN	73.83	301	P	02	01.02	0.1
	0.9s		29.00nm			5.2mb
FBA	82.37	22	P	02	45.00	-1.8
BAO	150.39	135	e(PKP)	10	14.00	1.7
	S.D. = 1.3		on	13	of	14 obs.

• SEP 11, 1991 14h 40m 00.06± 0.80s
10.148 N ±15.6km 82.218 W ±13.6km
DEPTH = 33.0km (normal)
4.6mb (2 obs.) 4.3Msz (1 obs.)
NORTH OF PANAMA (79)
MD 4.6 (UPA). Felt in Bocas del Toro Province.

UPA	2.89	113	(P)	40	39.50	-5.3X
			S	41	16.00	
SDV	11.49	95	eP	42	45.50	0.3
TOV	12.24	91	eP	42	55.00	-0.2
LPB	29.96	152	P	46	13.00	4.7X
	Z 20s		0.71um			4.3Msz
			LR	57	44.00	
CNCB	30.26	152	eP	46	12.00	0.9
CCH	31.63	150	eP	46	22.00	-0.9
ANMO	33.14	322	(P)	46	35.80	0.0
GOL	35.93	329	(P)	47	00.70	1.0
YKA	57.24	343	eP	49	46.60	0.2
	0.9s		4.40nm			4.5mb
INK	66.96	342	eP	50	49.00	-2.3
MBC	69.03	351	eP	51	05.00	0.9
	0.6s		4.00nm			4.7mb
WR2	143.43	250	iPKPd	59	27.30	-6.5X
	0.7s		6.80nm			
	S.D. = 1.2		on	9	of	12 obs.

? SEP 11, 1991 16h 24m 17.91±11.03s
51.656 N ±63.6km 16.385 E ±69.8km
DEPTH = 10.0km (geophysicist)
POLAND (548)

KSP	0.82	184	iPd	24	33.80	0.1
	0.4s		71.00nm			
			iS	24	42.40	
			eLR	24	47.50	
BRG	1.72	244	iPg	24	49.00	0.9
			iSg	25	08.60	
CLL	2.14	262	ePn	24	54.00	-0.2
			iPg	24	58.10	
			eSg	25	22.00	
HOF	3.15	246	ePn	25	07.70	-0.8
MOX	3.17	253	ePn	25	09.00	0.2
			ePg	25	17.00	
			iSg	25	57.00	
WET	3.37	223	iPnc	25	11.30	-0.3
	S.D. = 0.8		on	6	of	6 obs.

& SEP 11, 1991 16h 49m 25.59s
37.939 N 118.067 W
DEPTH = 2.3km
CALIFORNIA-NEVADA BORDER REGION (40)
<GM-P>. MD 2.9 (GM).

BONR	0.19	275	iP	49	29.80	0.4
KVN	1.11	359	eP	49	46.00	-1.3
CMB	1.83	274	eP	49	57.00	-1.4
	3 obs. associated					

• SEP 11, 1991 17h 11m 28.98± 0.82s
20.539 S ± 8.8km 68.598 W ±13.3km
DEPTH = 128.1 ± 8.4 km
4.6mb (2 obs.)
CHILE-BOLIVIA BORDER REGION (124)

ANT	3.57	208	eP	12	23.50	-0.3
			iS	13	05.30	
CNCB	3.76	9	iPc	12	27.30	0.5
CCH	3.91	37	P	12	28.70	0.1
LPB	4.01	7	P	12	30.80	0.7
	1.0s		220.00nm			
ZOBO	4.27	6	iPc	12	33.00	-0.8
NNA	11.61	316	eP	14	05.00	-7.0X
	0.6s		6.00nm			4.4mb X
			eS	16	19.00	
BAO	20.18	79	eP	15	55.50	-0.2
KIC	68.16	74	(P)	22	16.80	-0.9
GOL	69.07	330	P	22	22.40	-0.7
	0.9s		7.20nm			4.5mb
YKA	90.38	340	eP	24	16.00	-0.4
	0.6s		3.70nm			4.7mb
WR2	133.91	211	iPKPd	30	34.00	0.8
	0.5s		2.80nm			
GBA	146.85	97	PKPc	30	57.70	1.3
	0.4s		4.70nm			
	S.D. = 0.9		on	11	of	12 obs.

? SEP 11, 1991 17h 24m 24.72± 1.14s
43.994 N ± 9.1km 7.956 E ± 8.2km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
ML 1.8 (GEN).

IMI	0.10	210	P	24	27.47	0.0
			S	24	29.12	
FIN	0.28	40	P	24	30.65	0.0
			S	24	34.47	
ENR	0.45	301	P	24	33.95	0.0
			S	24	40.36	
STV	0.52	299	P	24	35.22	0.0
			S	24	42.35	
	S.D. = 0.1		on	4	of	4 obs.

SEP 11, 1991 18h 12m 25.62± 0.48s
37.612 N ± 4.6km 26.824 E ± 3.8km
DEPTH = 7.1 ± 2.8 km
DODECANESE ISLANDS (369)
ML 3.8 (ATH).

IZM	0.86	24	iPg	12	42.70	0.3
PRK	1.69	345	ePn	12	54.50	-1.1
EZN	2.24	350	iPn	13	02.20	-1.5
KHL	2.25	71	iPn	13	05.50	1.6
DST	2.44	35	iPn	13	06.60	0.0
ATH	2.49	279	ePn	13	07.00	-0.1
NPS	2.54	203	ePn	13	07.50	-0.4
ELL	2.61	108	iPn	13	13.00	4.0X
EDC	2.85	16	iPn	13	12.00	-0.3
MFT	3.19	6	ePn	13	17.00	-0.2
VLI	3.23	255	ePn	13	16.80	-0.9
ALN	3.34	350	ePc	13	18.02	-1.2
			eS	14	12.00	
PAIG	3.37	314	iPc	13	22.74	3.0X
IZI	3.42	36	ePn	13	20.00	-0.4
OUR	3.51	322	ePc	13	20.66	-0.9
YLV	3.55	33	ePn	13	22.00	-0.4
RDO	3.67	345	ePn	13	22.60	-1.3
CTT	3.74	19	ePn	13	25.00	0.0
AGG	3.80	293	ePd	13	27.40	1.5
GPA	3.81	44	ePn	13	26.00	0.0
HRT	3.89	34	ePn	13	27.00	-0.2
EYL	3.93	40	ePn	13	28.00	0.3
SOH	4.19	321	ePc	13	33.02	1.7
LIT	4.20	308	ePd	13	34.53	3.1X
DMK	4.27	9	ePn	13	32.00	-0.4

11d 18h

SRS	4.30	325	ePd	13 34.14	1.2
GRG	4.79	316	ePd	13 41.30	1.4
VAY	4.95	320	ePn	13 42.00	-0.2
BBTK	5.15	63	eP	14 00.00	14.9X
PPCY	5.23	120	eP	13 44.50	-1.5
CSS	5.88	115	eP	13 57.50	2.2
LFK	5.89	111	ePn	13 55.00	-0.4
SKO	6.01	318	ePn	13 58.00	0.9
VRI	8.25	360	eP	14 30.00	1.5
ROI	8.27	287	P	14 41.60	12.8X
SOI	8.53	276	P	14 30.00	-2.5
CZI	8.54	284	P	14 34.20	1.6
BZS	8.90	336	ePc	14 36.00	-1.4
MGR	9.14	289	P	14 41.50	0.6
SGO	9.42	292	P	14 36.50	-8.3X
GKN	48.86	84	P	21 13.40	-0.6
DMN	49.41	84	P	21 17.90	-0.5
KKN	49.46	83	P	21 19.60	0.9
PKI	49.67	84	P	21 19.60	-0.8
GUN	49.88	83	P	21 27.00	4.9X

S.D. = 1.1 on 38 of 45 obs.

? SEP 11, 1991 18h 19m 52.18± 3.78s
37.872 N ±26.9km 26.872 E ±19.8km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)

IZM	0.61	30	iPg	20 03.40	-1.1
			eSg	20 14.00	
EZN	2.00	348	ePn	20 26.00	-0.3
KHL	2.14	77	ePn	20 28.00	-0.5
DST	2.21	38	ePn	20 29.80	0.3
EDC	2.59	17	ePn	20 35.00	0.2
IZI	3.19	39	ePn	20 44.00	0.6
YLV	3.32	35	ePn	20 46.00	0.7

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

SEP 11, 1991 20h 12m 52.56± 0.55s
36.502 N ± 5.1km 3.072 W ± 4.7km
DEPTH = 10.0km (geophysicist)
STRAIT OF GIBRALTAR (385)
mbLg 3.4 (MDD). Felt (III) at Adra and Almeria, Spain.

EGUA	0.52	310	iPgc	13 02.60	-0.4
			eSg	13 10.10	
ENIJ	0.84	56	ePg	13 08.41	-0.3
			eSg	13 21.40	
AFC	0.84	333	iPgc	13 09.24	0.3
			eSg	13 21.10	
ECOG	0.87	333	ePg	13 09.62	0.3
			eSg	13 21.40	
EMEL	1.20	176	ePg	13 13.56	-1.4
			eSg	13 30.20	
EHUE	1.37	16	iPnc	13 18.75	1.1
			eSn	13 38.20	
EBAN	1.75	341	ePn	13 23.21	0.0
			eSn	13 46.20	
EPRU	1.80	286	iPnd	13 24.39	0.6
			eSn	13 47.80	
EALH	1.89	44	ePn	13 24.93	-0.2
			eSn	13 49.10	
LIJA	1.92	283	eP	13 26.00	0.3
EJIF	1.93	269	ePn	13 25.87	0.1
			eSn	13 49.60	
ALJ	2.05	276	eP	13 28.00	0.5
MOMI	2.14	266	eP	13 30.00	1.1
EVIA	2.18	12	ePn	13 30.88	1.4
			eSn	13 55.90	
EHOR	2.18	308	iPnc	13 28.43	-1.0
			eSn	13 57.30	
PLAT	2.20	261	eP	13 29.50	-0.2
GIBL	2.34	279	eP	13 29.00	-2.7
CNIL	2.41	268	eP	13 29.00	-3.6X
ACU	2.92	46	ePn	13 38.78	-1.1
			eSn	14 13.40	
IFR	3.42	210	iPn	13 49.50	2.3
			iSn	14 22.00	
ECHE	3.50	28	ePn	13 49.31	1.1
GUD	4.22	349	ePn	13 57.84	-0.6
			eSn	14 47.50	
EPLA	4.27	327	ePn	13 58.43	-0.7
			eSn	14 48.10	
ETOR	4.38	10	ePn	14 01.30	0.5
			eSn	14 51.80	
EROQ	5 10	31	ePn	14 10.00	-0.8

S.D. = 1.1 on 24 of 25 obs.

---

* SEP 11, 1991 20h 37m 33.91± 1.14s
16.154 S ±12.1km 177.976 E ± 7.9km
DEPTH = 33.0km (normal)
4.2mb (1 obs.)
FIJI ISLANDS (182)
ML 4.2 (SVA).

MBU	1.08	139	iPc	37 53.80	0.9
			eS	38 06.50	
NDE	1.36	109	ePc	37 57.70	0.9
SGE	1.43	182	iP	37 56.80	-1.0
			eS	38 13.70	
NDF	1.67	197	eP	37 54.10	-7.2X
			eS	38 14.00	
OVA	1.71	153	eP	38 03.30	1.4
			eS	38 20.40	
KRO	1.78	131	iPc	37 57.90	-5.0X
			eS	38 20.40	
VUN	1.90	166	iPc	38 03.80	-0.8
			eS	38 24.80	
UDU	1.96	90	eP	38 04.50	-0.9
			eS	38 28.80	
SVA	2.01	167	ePc	38 05.80	-0.3
			eS	38 27.90	
TVI	2.05	112	eP	38 06.20	-0.7
			eS	38 36.10	
BRS	25.88	240	eP	43 05.00	0.3
ASPA	41.98	252	iPd	45 24.00	0.2
	1.5s		8.10nm		4.2mb

S.D. = 1.0 on 10 of 12 obs.

? SEP 11, 1991 20h 52m 37.12± 6.66s
16.093 S ±42.1km 177.423 E ±42.1km
DEPTH = 33.0km (normal)
FIJI ISLANDS (182)
ML 4.3 (SVA).

MBU	1.52	125	eP	52 59.80	-2.6
SGE	1.56	162	iPc	53 04.20	1.2
			eS	53 22.00	
NDF	1.65	179	eP	53 03.00	-1.2
			eS	53 19.50	
NDE	1.88	105	eP	53 08.50	0.8
			eS	53 26.90	
OVA	2.05	141	eP	53 14.20	4.2X
			eS	53 35.10	
VUN	2.15	153	ePc	53 12.10	0.8
			eS	53 38.30	
SVA	2.24	154	ePc	53 13.20	0.6
			eS	53 40.80	
KRO	2.24	123	ePc	53 13.40	0.7
			eS	53 35.90	
UDU	2.49	92	eP	53 16.70	0.5
			eS	53 45.00	
TVI	2.57	109	eP	53 16.70	-0.7
			eS	53 49.30	

S.D. = 1.4 on 9 of 10 obs

---

* SEP 11, 1991 22h 10m 11.58± 0.75s
45.288 N ± 6.9km 21.003 E ± 8.2km
DEPTH = 10.0km (geophysicist)
ROMANIA (358)
MG 3.2 (BEO).

TIM	0.47	19	iPc	10 22.00	0.8
BEO	0.61	220	iPg	10 25.20	1.4
			eSg	10 45.20	
SSR	0.68	129	iPd	10 24.00	-1.0
DEV	1.46	65	eP	10 38.00	0.0
SRE	1.68	111	iPc	10 44.20	3.0X
UZD	2.13	309	ePn	10 59.30	11.6X
COZ	2.36	88	eP	10 52.50	1.4
PSZ	2.74	344	ePn	10 54.70	-1.8
BMR	2.94	35	ePd	11 20.00	20.8X
SRO	3.13	325	eP	11 03.20	1.3
			i	11 59.20	
			e	12 26.30	
SKO	3.33	174	eP	11 12.70	7.9X
SPC	3.94	353	eP	11 25.20	11.7X
ZST	3.96	319	eP	11 12.40	-1.2
VRI	4.06	80	eP	11 25.50	10.4X
VAY	4.13	163	ePn	11 15.00	-1.0

S.D = 1.5 on 9 of 15 obs.

? SEP 12, 1991 00h 13m 31.82± 5.40s
37.424 N ±36.3km 26.697 E ±27.3km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)

IZM	1.07	25	iPg	13 50.50	-1.5
			eSg	14 01.00	
CIN	1.12	81	iPc	13 52.00	-0.8
KHL	2.41	67	ePn	14 16.50	4.5X
EZN	2.42	353	ePn	14 11.50	-0.4
DST	2.65	34	ePn	14 16.50	1.1
EDC	3.06	17	ePn	14 21.00	0.0
IZI	3.63	36	ePn	14 30.00	0.7
YLV	3.77	33	ePn	14 32.00	0.7

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

SEP 12, 1991 00h 33m 30.72± 0.16s
54.905 N ± 2.8km 111.112 E ± 3.2km
DEPTH = 24.5km (16 depth phases)
5.1mb (57 obs.) 4.9Msz (6 obs.)
LAKE BAYKAL REGION, RUSSIA (327)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 18S, 27C
Centroid Location:
Origin Time 00:33:30.9 0.8
Lat 54.68N 0.10 Lon 110.70E 0.21
Dep 32.6 7.9 Half-duration 1.6
Moment Tensor; Scale 10**16 Nm
Mrr=-4.24 0.60 Mtt= 1.66 0.68
Mff= 2.58 0.93 Mrt=-1.78 1.36
Mrf=-4.01 1.40 Mtf= 2.93 0.57
Principal Axes:

T	Val= 6.73	Plg=21	Azm=127
N	-0.61	10	33
P	-6.12	66	278

Best Double Couple:Mo=6.4**10**16
NP1:Strike=235 Dip=25 Slip= -65
NP2: 28 67 -101

IRK	4.83	240	eP	34 44.20	0.4
			e	34 50.00	
YAK	12.03	46	eP	36 21.10	-2.3
			ePg	37 02.00	
			eSb	38 46.00	
			iSg	39 45.00	
HHC	14.07	179	eP	36 55.40	4.8X
			S	39 26.80	
BTO	14.33	183	eP	36 53.00	-1.1
	0.8s		30.00nm		4.9mb
N	10s		6.00um		
CN2	14.48	134	eP	36 51.40	-4.5X
Z	16s		24.90um		
BJI	15.25	165	eP	37 04.50	-1.4
Z	16s		9.64um		
N	10s		7.52um		
			pP	37 10.00	
SNY	15.45	143	Pc	37 05.80	-2.7
	1.0s		60.00nm		4.8mb
Z	13s		11.20um		4.8Msz
E	10s		3.50um		
			pP	37 10.00	
			PP	37 18.00	
MDJ	15.72	123	eP	37 07.00	-4.9X
Z	12s		9.95um		
N	10s		9.20um		
E	10s		6.10um		
TIY	17.22	176	Pd	37 31.60	0.5
Z	11s		7.00um		
GTA	17.26	211	eP	37 30.80	-0.9
	3.1s		420.00nm		5.0mb X
Z	10s		5.60um		4.2MszX
N	10s		4.50um		
			sP	37 39.20	
DL2	17.51	152	Pc	37 35.00	0.5
	1.0s		70.00nm		4.7mb
Z	15s		3.90um		
			sP	37 44.00	
WMO	18.76	243	iPd	37 51.00	0.9
	1.5s		100.00nm		4.8mb
Z	12s		4.50um		4.8MszX
			pP	38 00.00	
TIA	19.15	165	eP	37 54.30	-0.4
	1.5s		100.00nm		4.8mb
Z	15s		5.30um		5.3MszX
N	11s		3.30um		
E	11s		1.40um		
			pP	38 04.00	39kmX
			S	41 29.00	

12d 00h

LZH		19.48	198	eP	37	57.50	-1.2	SLKM		48.21	41	P	42	10.00	-0.7	AQU		60.62	303	P	43	41.80	0.2
		8.0s	300.00nm				4.6mb X	INK		48.25	27	ePd	42	10.90	0.1	ORX		60.69	308	P	43	41.28	-0.8
	Z	15s	3.68um				5.2Msz	NAO		48.61	320	P	42	12.20	-1.5	SGO		61.04	300	P	43	44.30	0.0
			sP	38	02.50					1.1s	25.40nm			5.2mb		CSI		61.13	299	P	43	45.80	0.8
			eS	41	30.00			TOA		48.65	38	eP	42	15 30	1.2	ROI		61.14	298	P	43	45.60	0.5
XAN		20.92	185	P	38	12.30	-1.4	BALM		50.72	37	P	42	30.20	0.2	LSD		61.19	309	P	43	45.69	0.0
	N	12s	4.30um					KRA		51.94	305	eP	42	39.20	-0.1	MMN		61.20	299	P	43	46.80	1.4
			pP	38	18.70	24km				0.7s	25.00nm			5.3mb		LOR		61.24	312	eP	43	44.80	-0.9
NJ2		23.50	163	Pc	38	40.00	0.8					e	42	47.80	29km			1.0s	22.00nm			5.2mb	
		3.5s	900.00nm				5.7mb X	BBTK		52.36	288	iPd	42	43.00	0.3		Z	22s	0.73um			4.8Msz	
	Z	14s	3.90um				5.0MszX	SPC		52.38	304	eP	42	43.80	0.9	LPL		61.34	309	eP	43	46.90	0.3
	N	12s	3.90um					KSP		53.09	308	iPd	42	48.00	0.1			0.9s	14.75nm			5.1mb	
	E	10s	1.60um					PSZ		53.43	303	e(P)	42	51.00	0.5	LPG		61.34	309	eP	43	47.10	0.4
			pP	38	45.00	18km		BRG		54.13	309	iPd	42	55.60	0.1			0.8s	14.80nm			5.2mb	
			S	42	54.50					1.5s	29.00nm			5.1mb		RSP		61.38	308	P	43	44.87	-1.9
WHN		24.46	173	eP	38	51.00	2.4					e	43	04.00	28km	SSF		61.55	312	eP	43	47.10	-0.7
		4.0s	600.00nm				5.5mb X	BUD		54.15	303	eP	42	56.00	0.3			1.1s	24.40nm			5.2mb	
	Z	16s	2.30um				4.8MszX	CLL		54.24	310	iPd	42	55.70	-0.6	CZI		61.63	298	P	43	48.20	-0.2
	N	11s	2.00um							1.5s	27.00nm			5.1mb		BNI		61.72	309	P	43	48.90	-0.2
	E	10s	1.90um					SRO		54.26	304	eP	42	57.10	0.6	SMF		61.73	312	eP	43	48.20	-0.8
			pP	38	56.50	20km		ZST		54.57	305	eP	42	59.60	0.8			1.1s	18.30nm			5.1mb	
			sP	39	01.00			VKA		54.89	306	e(P)	43	02.00	0.8	RRL		61.77	309	P	43	49.38	-0.2
			S	43	10.00							e	43	22.00	79kmX	AVF		61.83	312	eP	43	49.00	-0.6
CD2		24.55	195	P	38	49.30	-0.3	MOX		55.33	310	iP	43	04.50	0.2			0.8s	6.05nm			4.8mb	
			eS	43	02.00					1.7s	88.00nm			5.5mb		LDF		61.86	315	eP	43	48.50	-1.3
SSE		24.86	159	eP	38	55.00	2.6		Z	20s	1.50um			5.1Msz				0.8s	9.40nm			5.0mb	
	Z	16s	10.60um				5.4MszX		N	20s	1.30um					FLN		61.87	316	eP	43	48.50	-1.4
	N	20s	5.40um						E	20s	0.60um							0.9s	13.10nm			5.1mb	
	E	20s	2.50um					HOF		55.45	310	eP	43	05.40	0.2		Z	20s	1.00um			5.0Msz	
			pP	39	00.00	18km		CSS		55.52	283	eP	43	06.00	0.1	PZZ		61.95	308	P	43	51.22	0.5
			S	43	12.00			WET		55.85	308	eP	43	08.50	0.4	IMI		62.05	307	P	43	50.30	-1.0
			ScP	46	08.00					1.5s	37.00nm			5.2mb		BGF		62.23	312	eP	43	51.70	-0.6
KSH		28.07	251	P	39	23.00	0.8	KMR		56.06	307	eP	43	07.00	-2.6			0.7s	6.60nm			4.9mb	
			eS	44	02.00			GRF		56.20	310	eP	43	11 10	0.5	SBF		62.29	307	eP	43	52.40	-0.5
GAR		31 53	257	eP	39	53.00	0.0			1.5s	51.00nm			5.3mb				0.8s	21.50nm			5.3mb	
			e	45	18.00				Z	19s	1.50um			5.1Msz		SOI		62.54	298	P	43	53.90	-0.5
			e	48	09.00							e	43	19.60	28km	PGF		62.58	306	eP	43	55.00	0.2
GUN		32 60	224	P	40	04.32	1.7	WTS		56.40	314	eP	43	12 00	0.1			0.8s	14.80nm			5.2mb	
KKN		32.95	225	P	40	05.50	-0.1			0.8s	2.00nm			4.2mb		MAF		62.61	312	eP	43	54.60	-0.3
GKN		33.03	226	P	40	05.92	-0.2	PTJ		56.76	304	eP	43	14 60	-0.2			1.1s	19.55nm			5.2mb	
PKI		33 09	225	P	40	06.52	-0.4	VAY		56.77	296	eP	43	14.60	-0.1	TCF		62.71	312	eP	43	55.20	-0.4
		1 1s	59.00nm				5.4mb	SKO		56.88	297	eP	43	15.30	-0.3			1.2s	20.85nm			5.1mb	
DMN		33.18	225	P	40	07.54	-0.1		Z	16s	2.23um			5.4MszX		FRF		62.89	308	eP	43	56.30	-0.4
NDI		35.81	237	eP	40	30.00	0.2		N	15s	3.06um							1.0s	26.00nm			5.3mb	
OIZ		35.83	182	eP	40	31.60	1.5		E	15s	2.33um					LSF		63.03	313	eP	43	57.00	-0.6
	N	15s	2.00um									e	51	32.00				1.0s	16.00nm			5.1mb	
			eS	46	04.00			BHG		56.88	307	eP	43	16.70	1.2	LMR		63.13	308	eP	43	58.00	-0.3
CHG		37.21	199	eP	40	47.00	5.3X	KBA		57.14	306	iPd	43	18.40	0.8	MFF		63.46	314	eP	44	00.10	-0.3
CHTO		37.21	199	(P)	40	40.00	-1.7			1.1s	48.50nm			5.4mb				0.8s	9.40nm			5.0mb	
			pP	40	47.00	24km						i	43	26.70	27km	CAF		63.85	312	eP	44	03.40	0.3
KEV		38.19	326	iP	40	50.00	0.6	FUR		57.29	308	eP	43	19.00	0.6			1.1s	9.75nm			4.8mb	
		1.0s	60.00nm				5.4mb	LJU		57.34	305	e(P)	43	18.00	-0.7	LFF		64.41	312	eP	44	07.10	0.5
SOD		39.26	323	iP	40	59.20	0.8	VBY		57.39	304	e(P)	43	18.70	-0.4			0.9s	8.20nm			4.9mb	
MAIO		39.57	264	iPd	41	03.60	2.2	YKA		57.60	23	eP	43	17.50	-2.8	LPO		64.43	312	eP	44	07.10	0.3
		0.9s	29.84nm				5.0mb			0.8s	5.50nm			4.6mb				1.1s	12.20nm			4.9mb	
			eS	47	12.00			VOY		57.65	305	e(P)	43	20.00	-1.0	EPF		66.12	311	eP	44	17.30	-0.4
QUE		39.90	250	iPd	41	05.10	0.7	ENN		57.69	314	eP	43	21.00	-0.1			0.8s	5.35nm			4.7mb	
		0.9s	155.46nm				5.7mb	EKA		57.70	322	Pc	43	21.20	0.1	FFC		67.40	20	iPc	44	25.10	-0.5
ANM		40.14	42	eP	41	01.00	-4.7X			1.1s	13.50nm			4.9mb				1.1s	16.00nm			5.1mb	
OBN		40.83	302	iPc	41	11.60	0.2	WTTA		57.79	307	iPd	43	22.70	0.6	PNT		67.79	33	eP	44	28.00	-0.1
		1.4s	********	nm			8.3mb X			1.1s	21.00nm			5.1mb		NEW		69.49	32	P	44	38.60	-0.1
	Z	16s	5.30um				5.5MszX					i	43	30.80	27km			0.7s	10.80nm			5.1mb	
	N	16s	3.00um									i	44	24.90		TOL		70.58	312	eP	44	46.00	0.5
	E	16s	2.90um					OHR		57.84	297	eP	43	22.00	-0.3	LRM		73.09	30	eP	45	00.80	0.2
			e	41	19.00	25km		TRI		57.95	305	iPd	43	21.90	-1.1	ORV		75.72	39	P	45	14.30	-1.2
			ePP	42	45.00							i	43	39.60	68kmX					pP	45	21.50	23km
			eS	47	34.00			GWF		58.31	311	P	43	25.30	-0.2	IFR		76.39	310	iP	45	20.50	0.9
KAF		41.83	315	eP	41	19.50	-0.1	OGA		58.37	307	eP	43	26.90	0.7	BW06		76.71	30	P	45	20.00	-1.3
		0.5s	7.90nm				4.7mb	WLF		58.42	313	P	43	27 00	0.8			1.0s	6.67nm			4.6mb	
NUR		43.36	314	eP	41	26.00	-6.1X	CTI		58.69	306	P	43	27.30	-1.0	RSSD		76.92	25	P	45	22.00	-0.5
IMA		43.62	36	eP	41	35.50	1.2	DOU		58.75	314	P	43	28.20	-0.3					pP	45	30.50	27km
		1.4s	19.90nm				4.7mb					e	43	36 20	26km	AVE		77.58	311	eP	45	26.90	0.9
TTA		44.55	41	eP	41	42.40	0.6	CDF		58.89	311	P	43	29.12	-0.5	GLD		80.72	28	P	45	44.50	1.4
HYB		44.96	227	eP	41	52.00	6.5X	FEL		58.97	310	P	43	29.73	-0.5			1.3s	29.89nm			5.2mb	
MBC		45.20	15	ePd	41	46.50	-0.2	ECH		59.09	311	P	43	30.29	-0.7	GOL		80.73	28	P	45	43.90	0.6
		0.9s	20.00nm				5.0mb	MOF		59.37	311	P	43	32.51	-0.5			1.2s	14.34nm			4.9mb	
SVW		45.76	43	eP	41	53.10	1 7	BBS		59.50	310	P	43	33.87	0.0					pP	45	52.90	29km
FBA		46.29	35	P	41	56.70	1.2	BSF		59.54	311	eP	43	33.80	-0.4	TBR		84.22	4	P	46	01.60	0.7
RSO		47.27	42	P	42	04.00	0.4			1.3s	28.90nm			5.2mb		ANMO		84.87	30	P	46	05.00	0.5
PWA		47.61	40	eP	42	06.40	0.5	VITF		59.59	312	P	43	33.65	-0.8			1.0s	11.25nm			5.1mb	
PMR		47.92	39	eP	42	08.70	0.4	HAU		59.60	311	eP	43	34.10	-0.4					pP	46	12.50	24km
		1.4s	36.20nm				5.2mb			1.4s	21.80nm			5.1mb		ALQ		84.87	30	eP	46	05.00	0.4
HFS		47.98	318	eP	42	08.10	-0.7		Z	22s	0.95um			4.9Msz				1.0s	9.50nm			5.0mb	
		0.8s	17.40nm				5.1mb	SFI		60.19	305	Pd	43	38.90	0.4	ACO		85.13	24	iPd	46	07.50	1.8
	Z	17s	0.80um				4.8MszX	PGD		60.29	305	P	43	40 00	0.6	FVM		85.65	17	P	46	08.00	-0.2
			LR	01	55.00			CRE		60.36	304	P	43	40 00	0.1			0.8s	12.88nm			5.2mb	
PMS		47.99	40	eP	42	09.40	0.4	ASS		60.44	304	P	43	40 70	0.3	TUL		86.64	22	eP	46	14.10	1.0

12d 00h

```
        0.8s     15.40nm          5.3mb
      Z 20s       0.34um          4.7Msz
      N 20s       0.28um
      E 18s       0.09um
                    LR     20 54.00
MEO     87.10   24 iPd     46 16.60    1.2
BLA     87.72    9 P       46 18.00   -0.4
SIV    140.70  348 PKP     53 00.00    0.1
ZOBO   141.44  359 PKP     53 02.00    0.1
      Z 24s       0.08um          4.4MszX
                    LR     41 20.00
LPB    141.70  359 ePKP    53 04.00    1.8
CNCB   141.97  359 PKP     53 04.00    1.1
CCH    142.49  356 PKP     53 03.40    0.0
PPD    144.62  331 ePKP    53 05.10   -1.4
                   e       53 14.80
SPA    144.72  180 iPKPd   53 03.20   -2.3
        0.8s     17.50nm
SNA    147.77  216 iPKPc   53 13.30    3.1X
        1.2s     90.63nm
      S.D. = 0.9  on 159 of 167 obs.
-------------------------------------
& SEP 12, 1991  00h 50m 36.24s
   48.378 N          121.349 W
   DEPTH =  10.1km
 WASHINGTON                        ( 29)
      <SEA>. MD 2.6 (SEA).

RPW      0.13 303 Pc     50 39.12   -0.3
                  S      50 41.37
JCW      0.43 245 Pc     50 44.05   -1.0
CMW      0.52 275 Pc     50 45.67   -1.0
                  S      50 52.84
MBW      0.55 318 Pc     50 46.12   -1.2
                  S      50 54.26
HTW      0.64 206 Pd     50 47.56   -1.6
                  S      50 55.48
BLH      0.71 220 Pd     50 49.29   -0.9
                  S      50 58.95
NLW      0.74 114 Pc     50 49.31   -1.5
OHW      0.79 266 Pc     50 50.70   -0.9
RMW      0.97 199 Pd     50 53.17   -1.5
SPW      1.02 216 P      50 55.13   -0.4
MCW      1.03 288 ePc    50 54.77   -1.0
ETW      1.03 138 P      50 54.59   -1.3
CBSW     1.05 123 Pc     50 54.68   -1.4
                  S      51 08.40
DHW2     1.13 110 Pc     50 56.32   -1.1
BLN      1.15 252 P      50 56.81   -0.9
WTV      1.16 125 Pc     50 56.72   -1.2
GSM      1.21 194 Pd     50 57.15   -1.8
GMW      1.27 230 P      50 58.33   -1.6
TBM      1.31 157 P      50 59.70   -0.8
HDW      1.36 238 Pc     50 59.68   -1.6
FMW      1.46 189 P      51 01.35   -1.5
SAW      1.47 117 P      51 02.09   -0.7
GHW      1.48 205 P      51 01.81   -1.0
RVC      1.50 197 Pc     51 02.06   -1.2
EBG      1.56 160 P      51 03.95   -0.2
EPH      1.56 130 P      51 03.21   -0.9
STW      1.57 263 P      51 03.12   -1.0
REMR     1.59 192 P      51 03.84   -0.9
LON      1.66 191 P      51 04.82   -0.7
OSD      1.67 251 P      51 05.83   -0.1
NAC      1.68 168 P      51 06.05    0.2
WPW      1.69 185 P      51 05.64   -0.4
VTG      1.69 147 P      51 06.71    0.8
SMW      1.71 232 P      51 05.52   -0.8
LMW      1.83 201 Pd     51 07.44   -0.6
CPW      1.85 221 P      51 07.62   -0.7
BVW      1.86 147 P      51 09.44    1.1
RC1      1.93 137 P      51 11.13    1.7
MXC      1.94 158 P      51 10.82    1.3
OOW      2.01 252 P      51 11.71    1.1
OD2      2.03 118 P      51 12.51    1.6
MDW      2.07 148 P      51 13.74    2.3
CZM      2.10 202 P      51 12.04    0.2
LOCW     2.11 141 P      51 13.89    1.9
TDL      2.11 197 P      51 12.31    0.1
DPW      2.17 102 P      51 11.69   -1.2
GBL      2.19 144 P      51 15.30    2.1
BMW      2.29 215 P      51 14.39   -0.3
RSW      2.32 148 P      51 17.71    2.6
      49 obs. associated
-------------------------------------
? SEP 12, 1991  01h 16m 13.43± 1.14s
   6.320 S ±17.2km  128.227 E ±22.9km
   DEPTH = 367.1 ± 17.8 km
   4.3mb (  2 obs.)
 BANDA SEA                         (280)

AAI      2.62 359 eP     17 11.30    0.1
MTN      7.09 156 iPd    17 58.10    0.2
        0.3s    191.00nm          5.6mb X
                  eS     19 20.00
KNA      9.39 177 eP     18 25.00    0.0
WR2     14.80 157 iPc    19 26.60   -1.0
        0.3s    183.50nm          5.9mb X
                  epP    19 29.60
                  iS     22 05.50
MBL     16.84 208 eP     19 48.00   -1.0
OIS     17.95 143 eP     20 00.00   -0.2
        0.3s      4.00nm          4.2mb
                  eS     23 07.00
ASPA    18.09 163 iPd    20 02.10    0.4
        0.7s     13.00nm          4.4mb
                  i      20 10.70
                  eS     23 13.30
WARB    19.81 184 eP     20 20.30    1.7
      S.D. = 1.1  on   8 of   8 obs.
-------------------------------------
? SEP 12, 1991  02h 25m 23.30± 2.95s
   16.278 S ±22.4km  178.452 E ±18.7km
   DEPTH =  10.0km  (geophysicist)
 FIJI ISLANDS                      (182)
      ML 4.0 (SVA).

MBU      0.74 159 iPc    25 36.20   -1.6
                  eS     25 47.70
KRO      1.37 139 eP     25 48.60    0.2
                  eS     26 09.80
SGE      1.40 201 eP     25 48.50   -0.4
UDU      1.50  85 eP     25 49.40   -0.9
                  eS     26 12.60
TVI      1.58 114 eP     25 52.90    1.4
                  eS     26 19.70
VUN      1.72 180 eP     25 54.00    0.6
                  eS     26 23.10
SVA      1.83 180 ePc    25 55.70    0.7
                  eS     26 25.80
      S.D. = 1.3  on   7 of   7 obs.
-------------------------------------
   SEP 12, 1991  02h 33m 50.47± 0.64s
   39.072 N ± 5.7km   21.740 E ± 6.1km
   DEPTH =  10.0km  (geophysicist)
 GREECE                            (364)
      MD 3.3 (THE), 3.1 (ATH).

AGG      0.46  96 iPc    34 00.40    0.5
                  eS     34 09.28
LIT      1.18  29 ePd    34 13.09    0.6
                  eS     34 32.12
KZN      1.23   1 ePb    34 12.80   -0.6
VLS      1.27 226 ePb    34 12.90   -1.1
KEK      1.63 294 ePg    34 21.10    1.7
PAIG     1.73  60 ePd    34 20.50   -0.2
FNA      1.73 351 ePd    34 21.88    1.0
GRG      1.95  15 ePc    34 23.60   -0.4
OUR      2.14  53 ePd    34 26.80    0.1
SOH      2.14  35 iPd    34 27.00    0.2
                  eS     34 54.16
OHR      2.16 341 ePn    34 28.00    0.9
VAY      2.33  16 ePn    34 29.30   -0.2
SRS      2.49  34 ePd    34 31.40   -0.3
VLI      2.53 158 ePn    34 32.50    0.2
SKO      2.91 356 ePn    34 35.00   -2.6
                  i      35 16.50
      S.D. = 1.1  on  15 of  15 obs.
-------------------------------------
• SEP 12, 1991  03h 21m 06.59± 1.41s
    5.457 S ± 7.9km  151.794 E ±12.3km
   DEPTH =  54.0 ± 13.1 km
   4.8mb ( 10 obs.)
 NEW BRITAIN REGION, P.N G.        (192)

RAB      1.31  17 iPd    21 29.00    0.1
OIS     19.12 217 eP     25 27.00   -1.2
        0.8s     21 00nm          4.4mb
RMQ     21.12 188 eP     25 58.30    9.3X
MTN     21.67 249 eP     25 55.00    0.4
        0.3s     53.00nm          5.4mb
BRS     21 83 178 iPd    25 55.50   -0.7
        0.8s      3.50nm          3.8mb
OLP     22.21 198 iPd    26 00.20    0.2
        0.7s     26.00nm          4.8mb
WR2     22.25 228 eP     26 01.20    0.8
        0.7s     26.00nm          4.8mb
                  eS     29 57.10
KNA     24.81 244 eP     26 25.30    0.1
ASPA    25.00 222 eP     26 26.80   -0.2
        0.8s     42.30nm          5.0mb
MRWA    41.26 231 eP     28 51.00    2.7
XAN     56.41 317 Pd     30 44.00   -1.2
CHTO    57.37 296 P      30 51.50   -0.6
GTA     65.46 318 eP     31 46.20   -0.3
        1.0s     10.00nm          4.8mb
GUN     71.61 302 P      32 25.04   -0.1
PKI     71.91 301 P      32 26.40   -0.5
KKN     72.08 301 P      32 27.54   -0.2
DMN     72.18 301 P      32 28.44    0.0
GKN     72.69 301 P      32 30.92   -0.4
WMO     75.55 318 eP     32 48.00    0.6
FBA     82.86  22 P      33 25.70   -0.7
        0.6s      3.30nm          4.5mb
INK     89.42  21 eP     33 59.00    0.5
PNT     93.17  41 eP     34 18.00    1.8
        0.4s      2.00nm          4.9mb
MBC     94.99  14 eP     34 25.00    1.0
        0.7s      4.00nm          5.0mb
PPD    144.53 141 ePKP    40 37.40   -2.1
KIC    156.64 273 (PKP)   41 14.10   16.2X
      S.D. = 1.1  on  23 of  25 obs.
-------------------------------------
• SEP 12, 1991  05h 11m 11.46± 1.58s
   10.297 N ±16.7km   84.770 W ±12.4km
   DEPTH =  60.7 ± 18.5 km
   4.3mb (  2 obs.)
 COSTA RICA                        ( 78)
      Felt (IV) at Poquero. Also felt
      at Leponto.

UPA      5 33 104 ePd    12 29.10   -1.2
        0.6s     33.33nm          4.8mb X
OXX     13.43 301 (P)    14 21.00    0.0
SDV     14.01  95 eP     14 30.50    1.8
IISM    14.94 307 (P)    14 39.20   -1.4
PPM     15.98 305 (P)    14 54.50    0.1
III     16.34 301 eP     15 00.50    1.8
MEO     27.45 335 e(P)   16 53.50   -0.2
ZOBO    31.11 148 eP     17 27.00   -0.2
      Z 24s       0.33um          3.9MszX
                    LR     26 24.00
ALO     31.52 324 eP     17 30.00   -0.2
        0.9s      2.94nm          4.1mb
ANMO    31.52 325 P      17 30.20    0.0
CCH     33.09 146 eP     17 46.00    1.8
GOL     34.55 331 P      17 56.30   -0.2
        1.0s      7.50nm          4.6mb
SIV     35.11 138 P      18 00.20   -1.0
PPD     45.93 135 eP     19 29.20   -1.0
KIC     79.11  85 (P)    23 16.00    4.3X
      S.D. = 1.2  on  14 of  15 obs.
-------------------------------------
? SEP 12, 1991  06h 14m 48.01± 4.54s
    2.716 N ±16.8km   80.141 W ±39.8km
   DEPTH =  33.0km  (normal)
 SOUTH OF PANAMA                   ( 83)
      MD 4.0 (OUI).

CUMC     2.86 128 eP     15 31.75   -1.1
                  eS     16 00.00
YANA     3.22 151 P      15 38.00    0.1
GGP      3.26 152 P      15 38.80    0.2
                  S      16 13.60
OUR      3.29 151 P+     15 39.00    0.1
                  S      16 13.60
ANCC     3.36  76 iPc    15 39.28   -0.3
                  eS     16 13.10
HOQC     3.58  78 iPc    15 42.18   -0.7
                  eS     16 18.30
CLMC     3.76  72 iPc    15 45.35    0.2
PURC     3.80  96 eP     15 46.49    0.4
SILC     3.80  90 ePc    15 47.22    1.2
ANGL     4.03 140 P      15 38.30  -11.2X
BUGC     4.05  73 eP     15 49.13   -0.3
                  eS     16 30.40
HOBC     4.32  68 eP     15 53.32    0.1
                  eS     16 37.80
      S.D. = 0.7  on  11 of  12 obs.
-------------------------------------
• SEP 12, 1991  06h 30m 37.21± 0.86s
```

6.421 N ± 8.1km 77.725 W ±12.8km
DEPTH = 33.0km (normol)
NEAR WEST COAST OF COLOMBIA (102)

HOBC	2.59	142	eP	31 16.52	-1.4
CLMC	2.78	155	eP	31 21.22	0.7
BUGC	2.91	150	ePc	31 22.54	0.2
ANCC	3.01	163	ePc	31 23.96	0.2
UPA	3.11	325	(P)	31 25.00	-0.1
HOOC	3.13	160	ePc	31 25.62	0.0
SDV	7.44	70	eP	32 26.80	0.3

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

& SEP 12, 1991 08h 10m 02.60s
37.172 N 122.095 W
DEPTH = 8.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 3.4 (BRK).
Mo=1.9•10••14 Nm (BRK).

GCC	0.16	151	ePd	10 06.07	-0.1
			iS	10 08.53	
MHC	0.40	65	iP	10 10.10	-0.6
			iS	10 16.90	
PCC	0.40	325	ePc	10 10.39	-0.3
			eS	10 16.33	
ARN	0.48	68	iPc	10 11.90	-0.4
BKS	0.71	351	iPd	10 16.10	-0.7
			iS	10 26.20	
ZSP	0.78	351	ePc	10 17.92	-0.1
			eS	10 29.04	
PRS	1.02	145	ePd	10 21.70	-0.4
			iS	10 34.69	
NWRM	1.43	334	eP	10 27.50	-1.3
PRI	1.54	131	eP	10 30.06	-0.5
CMB	1.61	57	eP	10 29.65	-1.8
FRI	1.92	95	iPc	10 33.57	-2.3
ORV	2.43	11	eP	10 40.50	-2.7
BCH	2.56	140	eP	10 42.00	-3.2
BONR	3.11	74	eP	10 50.00	-3.2
ABL	3.29	134	eP	10 52.00	-3.6

15 obs. associated

? SEP 12, 1991 08h 27m 48.24± 6.47s
34.036 N ±19.2km 9.015 W ±58.2km
DEPTH = 33.0km (normol)
WEST OF GIBRALTAR (384)
mbLg 3.0 (MDD).

AVE	1.52	118	iPnc	28 13.90	0.4
			iSn	28 35.50	
IFR	3.28	98	iPnc	28 38.00	-0.7
			iSn	29 15.00	
TIO	3.44	154	iPnc	28 37.00	-3.9X
			iSn	29 19.70	
EJIF	3.77	49	iPnc	28 47.30	1.8
EPRU	4.25	45	ePnc	28 52.40	0.1
			eSn	29 41.00	
EHOR	4.86	38	ePn	29 02.00	1.1
			eSn	29 55.00	
ECOG	5 49	52	eP	29 13.00	3.1X
			eS	30 13.00	
AFC	5.49	53	ePn	29 10.50	0.5
			eSn	30 10.50	
EBAN	5.91	44	ePn	29 15.00	-0.8
			eSn	30 20.00	
EVIA	6.98	47	ePn	29 29.00	-1.9
GUD	7.65	29	ePn	29 40.00	-0.2
			eSn	31 02.50	
ETOR	8.74	37	ePn	29 55.00	-0.4

S.D. = 1.2 on 10 of 12 obs.

SEP 12, 1991 08h 30m 27.65± 0.85s
43.515 N ± 3.7km 127.001 W ± 7.4km
DEPTH = 10.0km (geophysicist)
4.0mb (1 obs.)
OFF COAST OF OREGON (30)

KMOR	3.29	49	P	31 19.75	-0.5
HBO	3.41	83	P	31 21.53	-0.6
NLO	3.61	43	P	31 24.98	0.2
GT2	3.77	63	Pc	31 27.47	0.3
PGO	3.79	57	P	31 28.07	0.6
BMW	3.99	41	P	31 29.73	-0.5
RVW	4.01	48	P	31 30.74	0.2
ONR	4.06	33	P	31 30.92	-0.2
VLMM	4.08	59	P	31 31.82	0.2
TDH	4.13	63	P	31 32.62	0.3
LVP	4.15	50	P	31 33.04	0.6
VBEM	4.18	66	P	31 33.40	0.3
MTMW	4.23	52	Pc	31 33.83	0.1
FL2	4.26	49	Pc	31 34.49	0.4
VLL	4.28	61	P	31 34.81	0.4
SHW	4.32	50	P	31 35.73	0.8
CZM	4.32	46	P	31 34.90	-0.1
HSR	4.34	51	P	31 35.89	0.6
JLK	4.34	51	P	31 35.53	0.3
REMW	4.35	50	P	31 36.19	0.7
STD	4.35	50	P	31 35.82	0.4
VFP	4.36	64	P	31 35.53	0.0
ESD	4.37	50	Pc	31 36.27	0.6
CDFW	4.38	52	P	31 35.90	0.1
APM	4.40	58	P	31 36.47	0.4
SOSW	4.40	50	P	31 36.63	0.5
CPW	4.41	37	P	31 35.39	-0.7
TDL	4.43	48	Pc	31 36.58	0.1
KOSW	4.51	48	P	31 37.99	0.4
GULW	4.54	56	P	31 38.87	0.7
CROR	4.56	69	P	31 37.45	-0.9
LMW	4.59	45	P	31 38.87	0.1
SMW	4.59	33	P	31 38.12	-0.7
ASR	4.66	54	Pc	31 40.04	0.2
VIPM	4.71	76	P	31 39.48	-1.1
MEW	4.80	38	P	31 43.35	1.7
GHW	4.86	42	P	31 42.58	0.1
VGB	4.88	64	eP	31 42.30	-0.6
GLK	4.89	50	P	31 43.42	0.4
LON	4.89	47	P	31 43.57	0.5
VTHM	4.91	68	P	31 42.49	-0.8
REMR	4.92	46	P	31 43.82	0.2
RVC	4.94	44	P	31 44.44	0.8
HDW	4.98	32	P	31 43.69	-0.5
GMW	5.00	35	P	31 43.76	-0.8
WPW	5.00	49	Pc	31 44.80	0.2
GL2	5.03	59	P	31 44.92	-0.1
FMW	5.08	46	P	31 45.97	0.1
GSM	5.20	43	P	31 47.43	0.0
RMW	5.38	41	P	31 49.77	-0.1
NAC	5.43	51	P	31 51.05	0.4
JBO	5.48	67	P	31 50.64	-0.7
HTW	5.64	39	P	31 53.31	-0 3
EBG	5.67	51	P	31 54.22	0.2
PGC	5.70	24	eP	31 54.00	-0.3
ORV	5.72	132	eP	31 55.20	0.6
JCW	5.87	35	P	31 56.53	-0.2
MCW	5.92	28	eP	31 56.20	-1.3
CMW	5.97	33	P	31 58.10	-0.2
RSW	5.99	59	P	31 58.31	-0.3
GBL	6.17	57	P	32 00.75	-0.2
WAH2	6.18	56	P	32 01.48	0.4
ETW	6.22	47	P	32 01.81	0.0
LOCW	6.24	56	P	32 02.79	0.8
RPW	6.24	36	P	32 01.49	-0.5
			S	33 14.81	
CRF	6.32	56	P	32 02.62	-0.5
RC1	6.35	55	P	32 03.90	0.3
MBW	6.35	32	P	32 04.09	0.4
EPH	6.47	51	P	32 05.10	-0.2
ET3	6.48	59	P	32 05.22	-0.2
CMB	7.43	135	eP	32 18.50	-0.2
DPW	7.54	52	eP	32 19.20	-1.1
PNT	7.72	39	ePd	32 22.00	-0.8
	0.6s		14.00nm		5.3mb X
LRM	10.62	72	eP	33 01.60	-1.5
ALO	18.04	111	eP	34 39.00	-1.1
FFC	19.73	47	iPd	34 59.60	-0.6
	0.9s		8.00nm		4.0mb
MEO	23.61	102	e(P)	35 41.30	1.9
MBC	32.99	3	eP	37 04.50	0.2

S.D. = 0.6 on 78 of 78 obs.

? SEP 12, 1991 10h 28m 55.97± 0.95s
39.084 N ± 7.9km 27.525 E ± 9.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZM	0.72	197	ePg	29 10.00	-0.1
			eSg	29 22.10	
DST	1.00	58	ePn	29 15.20	0.2
EZN	1.19	309	ePn	29 18.30	0.2
EDC	1.29	12	ePn	29 19.50	-0.3

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

? SEP 12, 1991 11h 32m 14.36± 1.98s
35.625 N ± 6.0km 10.247 W ±19.0km
DEPTH = 33.0km (normal)
NORTH ATLANTIC OCEAN (402)
mbLg 3.2 (MDD).

AVE	3.30	134	iPnd	33 06.00	1.1
			iSn	33 35.00	
EJIF	3.96	77	ePn	33 15.33	1.0
			eSn	33 53.60	
EPRU	4.27	70	ePn	33 19.16	0.5
			eSn	34 01.60	
EHOR	4.58	60	ePn	33 23.26	0.2
			eSn	34 08.70	
IFR	4.72	115	iPn	33 24.50	-0.7
			iSn	34 11.50	
TIO	5.31	151	iPn	33 33.00	-0.6
			iSn	34 20.00	
EPLA	5.52	35	ePn	33 37.03	0.6
			eSn	34 35.40	
EGUA	5.53	75	ePn	33 36.69	0.1
			eSn	34 33.30	
ECOG	5.63	71	ePn	33 38.54	0.5
			eSn	34 35.80	
AFC	5.64	71	ePn	33 38.27	0.0
			eSn	34 36.50	
EBAN	5.76	62	ePn	33 39.53	-0.4
			eSn	34 37.50	
EHUE	6.52	68	ePn	33 49.99	-0.6
			eSn	34 57.30	
EVIA	6.88	62	ePn	33 53.95	-1.7
			eSn	35 04.00	
GUD	6.94	42	iPnd	33 56.58	0.1
ETOR	8.27	49	ePn	34 14.86	-0.2
ECRI	9.20	38	ePn	34 27.88	0.0

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

& SEP 12, 1991 11h 47m 30.40s
38.370 N 122.160 W
DEPTH = 10.0km
NORTHERN CALIFORNIA (36)
<BRK>. ML 3.0 (BRK).
Mo=6.1•10••13 Nm (BRK).

ZSP	0.43	190	iPd	47 39.52	0.3
			eS	47 49.08	
BKS	0.50	187	iPc	47 40.50	0.0
			eS	47 48.00	
NWRM	0.58	279	iP	47 41.30	-0.8
PCC	0.89	191	ePd	47 46.65	-0.7
			i	47 58.90	
ARN	1.13	154	eP	47 49.80	-1.9
ORV	1.29	23	eP	47 51.33	-3.0
GCC	1.34	174	eP	47 52.95	-2.2
CMB	1.44	103	iPc	47 55.19	-1.4
			i	48 14.60	
SAO	1.70	160	eP	47 58.11	-2.1
PRS	2.13	163	ePc	48 04.55	-1.9
FRI	2.38	125	eP	48 09.23	-0.9
PRI	2.52	151	iPc	48 10.45	-1.8
FHC	2.81	330	eP	48 28.35	12.2

13 obs. associated

% SEP 12, 1991 11h 55m 37.95± 2.07s
39.925 N ±10.7km 23.943 E ±15.7km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
MD 3.0 (THE).

PAIG	0.20	271	iPc	55 42.14	-0.2
OUR	0.41	4	iPc	55 46.10	-0.2
			eS	55 53.82	
SOH	1.00	333	iPd	55 56.66	-0.3
LIT	1.13	279	ePc	55 59.26	0.1
			eS	56 15.34	
SRS	1.22	347	ePd	56 00.82	0.2
			eS	56 16.94	
KNT	1.47	328	ePd	56 04.98	0.5
AGG	1.54	235	ePd	56 05.50	0.0

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

& SEP 12, 1991 12h 03m 45.42s
58.251 N 142.637 W
DEPTH = 10.0km (geophysicist)
GULF OF ALASKA (15)
<AEIC>. ML 2.6 (AEIC).

YKU	2.00	48	eP	04 14.97	-4.5

12d 12h

		S	04 37.64		
YAH	2.17	12 iP	04 17.27	-5.0	
		eS	04 41.16		
PNL	2.20	48 eP	04 17.33	-5.2	
		S	04 41.78		
MID	2.26	303 eP	04 17.51	-5.8	
HON	2.30	57 eP	04 18.60	-5.3	
		S	04 44.41		
BCPM	2.31	41 iP	04 18.91	-5.1	
TGL	2.51	358 eP	04 21.54	-5.5	
		S	04 48.78		
CTGM	2.80	13 eP	04 25.90	-5.3	
		eS	04 56.55		
MTU	3.12	306 eP	04 29.02	-6.5	
FID	3.18	324 eP	04 30.26	-6.2	
LTI	3.23	306 iP	04 30.54	-6.6	
		eS	05 06.19		
GLB	3.26	350 eP	04 31.58	-6.0	
		eS	05 07.99		
KNIM	3.36	311 eP	04 32.03	-6.9	
		eS	05 08.95		
VLZ	3.44	329 eP	04 33.63	-6.5	
VZW	3.45	326 eP	04 33.69	-6.6	
GLI	3.48	321 iP	04 33.77	-6.9	
KLU	3.65	334 eP	04 36.97	-6.2	
SEW	3.97	301 eP	04 40.68	-6.9	
SLKM	4.49	303 eP	04 47.97	-7.1	
CNPM	4.64	290 eP	04 51.10	-6.1	

20 obs. assocated

% SEP 12, 1991 12h 13m 41.16± 0.63s
38.276 N ± 5.8km 15.696 E ± 7.3km
DEPTH = 10.0km (geophysicist)
SICILY (398)

ATN	0.22	238 P	13 45.40	-0.5	
		eSg	13 48.90		
SOI	0.35	126 Pc	13 48.30	0.0	
		eSg	13 52.50		
MNO	0.86	247 P	13 58.50	0.6	
		eSg	14 12.30		
CZI	1.00	20 P	13 59.40	-0.7	
		eSg	14 14.30		
MEU	1.32	208 P	14 05.50	-0.1	
		eSn	14 24.50		
ROI	1.46	27 P	14 07.50	-0.1	
TDS	1.47	20 P	14 09.20	1.5	
MGR	1.86	357 P	14 11.80	-1.6	
		eSn	14 38.00		
SGO	2.30	353 P	14 20.50	0.8	

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

& SEP 12, 1991 13h 05m 03.89s
63.262 N 151.355 W
DEPTH = 11.0km
CENTRAL ALASKA (1)
<AEIC>. ML 3.0 (AEIC), 3.5 (PMR).

KTH	0.35	34 eP	05 10.92	-0.3	
TRF	0.52	68 iP	05 14.16	-0.3	
		eS	05 22.01		
HUR	0.83	109 eP	05 19.47	-0.4	
		S	05 31.01		
CUT	0.99	149 iP	05 22.86	0.2	
RND	1.14	82 eP	05 24.75	-0.4	
		eS	05 42.59		
MCK	1.18	65 eP	05 25.30	-0.6	
		S	05 42.46		
BWN	1.24	42 iP	05 26.49	-0.4	
SKT	1.29	184 iP	05 27.30	-0.4	
		eS	05 43.71		
NEA	1.66	36 eP	05 33.99	1.0	
PWA	1.76	156 ePc	05 34.30	-0.1	
SUA	1.83	171 eP	05 35.33	-0.2	
		S	06 01.04		
GHO	1.87	142 eP	05 35.55	-0.6	
WRH	1.89	49 eP	05 34.27	-2.1	
NCC	1.90	192 eP	05 36.05	-0.6	
		S	06 00.63		
PLRM	1.97	147 eP	05 37.11	-0.4	
PMR	1.97	147 ePd	05 37.60	0.1	
CGLM	1.99	189 eP	05 37.41	-0.4	
SML	2.02	135 eP	05 37.35	-1.0	
BGL	2.06	194 eP	05 39.03	0.0	
CCB	2.09	47 iP	05 37.08	-2.2	
		S	06 08.33		
SPU	2.11	189 eP	05 39.12	-0.5	
CKL	2.12	193 eP	05 40.07	0.2	
TTA	2.14	263 ePd	05 38.30	-1.8	
MDM	2.19	37 iP	05 38.45	-2.3	
PMS	2.19	157 eP	05 41.30	0.5	
HDA	2.26	58 eP	05 39.50	-2.3	
FBA	2.27	42 iPc	05 40.10	-1.8	
KNK	2.30	143 eP	05 42.61	0.3	
GLM	2.45	43 eP	05 42.18	-2.3	
DJE	2.65	71 eP	05 49.10	1.9	
TOA	2.66	114 ePc	05 47.60	0.1	
PAX	2.69	94 eP	05 47.88	-0.1	
RDT	2.74	191 eP	05 47.87	-0.8	
DFR	2.75	194 eP	05 48.49	-0.3	
SDG	2.76	103 eP	05 48.61	-0.3	
NCT	2.81	196 eP	05 50.01	0.4	
SLKM	2.82	169 eP	05 49.28	-0.4	
REF	2.86	194 eP	05 51.03	0.7	
RSO	2.89	194 P	05 50.00	-0.8	
SVW	2.94	225 eP	05 51.80	0.3	
IMA	2.99	342 eP	05 50.90	-1.3	
KLU	3.09	123 eP	05 53.86	0.3	
GLI	3.12	138 eP	05 54.08	0.2	
VZW	3.16	132 eP	05 54.16	-0.3	
VLZ	3.18	130 eP	05 54.46	-0.2	
KNIM	3.39	148 eP	05 56.44	-1.3	
FID	3.41	135 eP	05 58.03	0.0	
LTI	3.64	151 eP	06 00.41	-0.9	
BALM	4.78	114 P	06 15.80	-1.8	
INK	8.88	48 eP	07 11.00	-3.9	

50 obs. assaciated

? SEP 12, 1991 13h 16m 48.76± 3.60s
16.090 S ±27.1km 178.313 E ±21.1km
DEPTH = 33.0km (normal)
FIJI ISLANDS (182)
ML 4.2 (SVA).

MBU	0.96	156 iPc	17 05.90	-0.1	
		iS	17 17.10		
SGE	1.54	194 iPc	17 14.10	-0.2	
KRO	1.60	140 ePc	17 14.40	-0.7	
		eS	17 35.30		
UDU	1.63	92 eP	17 15.40	-0.2	
		eS	17 35.50		
OVA	1.65	164 eP	17 20.10	4.2X	
		eS	17 42.20		
TVI	1.78	118 eP	17 18.50	0.7	
		eS	18 02.70		
VUN	1.91	176 iPd	17 20.10	0.5	
		eS	17 42.10		
SVA	2.02	176 ePc	17 21.10	0.0	
		eS	17 43.70		

S.D. = 0.5 on 7 of 8 obs.

% SEP 12, 1991 14h 10m 38.14± 0.50s
44.387 N ± 4.4km 7.393 E ± 5.1km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.8 (GEN).

STV	0.15	199 P	10 41.83	0.1	
		S	10 43.98		
ENR	0.16	173 P	10 41.82	-0.1	
		S	10 44.16		
PZZ	0.24	300 P	10 43.37	0.0	
		S	10 47.06		
BHB	0.46	349 P	10 47.67	0.1	
		S	10 54.03		
IMI	0.60	143 P	10 50.03	-0.2	
		S	10 57.87		
FIN	0.61	107 P	10 50.34	-0.2	
RRL	0.69	321 P	10 51.65	-0.3	
PCP	0.84	79 P	10 54.60	0.2	

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

? SEP 12, 1991 14h 58m 01.44± 3.07s
16.957 N ±28.5km 98.788 W ±16.7km
DEPTH = 33.0km (normal)
NEAR COAST OF GUERRERO, MEXICO (58)
Felt along the coasts of Guerrero and Oaxaca.

III	1.55	335 iP	58 25.71	-1.6	
		iS	58 44.00		
OXX	1.98	86 iP	58 33.12	-0.4	
		iS	58 59.00		
IIT	2.10	12 (P)	58 38.74	3.5X	
		(S)	59 11.20		
PPM	2.10	4 iP	58 34.08	-1.4	
		(S)	59 08.00		
IIA	2.18	3 eP	58 37.08	1.0	
IISM	2.43	33 iP	58 40.69	1.1	
LVVM	3.55	38 (P)	58 31.29	-24.2X	
MRX	3.56	320 iP	58 57.02	1.3	
		(S)	59 45.27		

S.D. = 1.7 on 6 of 8 obs.

& SEP 12, 1991 15h 15m 31.99s
60.536 N 151.951 W
DEPTH = 93.6km
KENAI PENINSULA, ALASKA (14)
<AEIC>.

RDT	0.23	280 iP	15 45.11	0.9	
		eS	15 55.47		
DFR	0.37	279 eP	15 45.79	-0.7	
		eS	15 56.77		
REF	0.37	263 iP	15 46.00	-0.7	
		eS	15 56.94		
RDN	0.40	267 iP	15 45.99	-0.8	
		eS	15 56.65		
RSO	0.40	260 eP	15 46.21	-0.7	
		eS	15 57.15		
RS2	0.41	260 eP	15 46.26	-0.7	
		eS	15 57.25		
RS1	0.41	260 eP	15 46.26	-0.7	
		eS	15 57.30		
RED	0.42	254 iP	15 46.11	-0.8	
		eS	15 57.12		
RDW	0.43	263 eP	15 46.41	-0.6	
		iS	15 57.89		
NCT	0.48	273 eP	15 46.66	-0.7	
		eS	15 57.88		
NNL	0.59	146 iP	15 48.62	0.5	
SPU	0.65	356 iP	15 47.95	-0.7	
		eS	16 00.32		
CKL	0.69	344 iP	15 48.31	-0.8	
		eS	16 01.58		
BGL	0.76	344 eP	15 49.16	-0.6	
CGLM	0.77	358 iP	15 49.31	-0.6	
		eS	16 02.84		
SLKM	0.86	91 iP	15 50.04	-0.6	
NCG	0.88	354 eP	15 50.41	-0.6	
HOM	0.89	170 eP	15 50.46	-0.6	
		S	16 05.67		
BRLK	0.94	145 eP	15 50.95	-0.6	
		S	16 05.81		
CNPM	1.08	160 eP	15 52.41	-0.7	
		eS	16 08.52		
SUA	1.10	32 iP	15 53.08	-0.5	
		eS	16 09.65		
SEW	1.32	108 eP	15 54.95	-1.0	
PMS	1.37	58 eP	15 56.06	-0.6	
SKT	1.46	8 eP	15 56.86	-1.0	
		eS	16 16.25		
PWA	1.51	41 eP	15 57.55	-0.8	
PLRM	1.73	51 eP	15 59.96	-1.3	
SVW	1.89	289 eP	16 01.33	-2.1	
KNK	1.92	61 eP	16 02.20	-1.6	
GHO	1.92	48 eP	16 02.32	-1.6	
SYI	1.95	187 eP	16 03.10	-1.0	
CUT	2.04	23 eP	16 04.18	-1.2	
KNIM	2.10	93 eP	16 03.30	-2.9	
LTI	2.10	102 eP	16 03.76	-2.4	
KLU	3.09	69 eP	16 17.26	-2.4	

34 obs. assaciated

& SEP 12, 1991 16h 02m 38.01s
62.312 N 149.761 W
DEPTH = 59.3km
CENTRAL ALASKA (1)
<AEIC>. ML 2.7 (AEIC).

CUT	0.25	292 iPd	02 47.37	-0.4	
PWA	0.67	185 ePd	02 51.21	-0.7	
		eS	03 01.94		
GHO	0.67	144 iPc	02 51.10	-1.0	
HUR	0.67	5 eP	02 51.19	-0.8	
		eS	03 01.76		
PLRM	0.78	157 iPc	02 52.27	-1.0	
		iS	03 04.77		
SML	0.84	126 iPc	02 52.90	-1.2	
		eS	03 05.63		

SKT	0.89	249	ePd	02	54.38	-0.4
			S	03	07.78	
SUA	0.97	209	iPd	02	55.70	-0.2
PMS	1.08	175	ePc	02	56.64	-0.6
			eS	03	11.92	
KNK	1.09	145	iPc	02	56.73	-0.7
			eS	03	11.47	
TRF	1.17	348	iPc	02	57.94	-0.7
RND	1.17	20	iPc	02	57.51	-1.1
			S	03	12.71	
KTH	1.35	337	ePc	03	00.58	-0.5
			eS	03	18.03	
NCG	1.46	232	eP	03	02.28	-0.2
CGLM	1.47	228	eP	03	02.93	0.3
MCK	1.47	14	eP	03	02.26	-0.4
SPU	1.57	225	eP	03	04.26	0.2
BGL	1.63	231	eP	03	05.68	0.7
CKL	1.66	229	eP	03	05.36	0.0
TOA	1.69	95	iPc	03	05.59	-0.2
SLKM	1.82	187	eP	03	06.62	-0.9
BWN	1.87	4	eP	03	06.81	-1.4
GLI	1.92	137	ePc	03	07.71	-1.2
SDG	1.97	82	iPd	03	09.58	-0.1
VZW	1.98	128	eP	03	08.39	-1.3
KLU	2.00	113	iPc	03	08.60	-1.4
VLZ	2.02	124	eP	03	08.70	-1.5
TZL	2.05	96	eP	03	10.68	0.0
PAX	2.09	70	eP	03	11.14	-0.2
RDT	2.16	217	ePd	03	12.40	0.1
KNIM	2.20	153	eP	03	10.38	-2.4
FID	2.22	133	iPc	03	11.56	-1.5
WRH	2.29	18	eP	03	12.46	-1.6
HDA	2.45	30	ePc	03	15.66	-0.7
LTI	2.46	157	iPc	03	14.08	-2.3
CCB	2.50	20	ePc	03	15.22	-1.8
MDM	2.74	14	iPc	03	18.92	-1.6
CNPM	2.89	195	eP	03	22.56	0.0
GLM	2.89	20	eP	03	20.74	-1.8
GLB	2.95	105	ePc	03	21.80	-1.7
TTA	2.95	285	eP	03	22.05	-1.5

41 obs. associated

& SEP 12, 1991 16h 03m 03.61s
58.903 N 154.613 W
DEPTH = 123.8km
ALASKA PENINSULA (12)
<AEIC>.

MCNL	0.32	27	iPc	03	20.58	0.8
			eS	03	33.61	
CDD	0.50	87	iPc	03	21.39	-0.9
			eS	03	37.45	
AUI	0.75	54	eP	03	22.96	-1.0
			eS	03	37.85	
AUW	0.75	51	iPc	03	23.18	-0.8
			eS	03	38.95	
AUH	0.76	52	eP	03	23.38	-0.8
AUP	0.77	53	eP	03	23.86	-0.4
AUL	0.77	51	eP	03	23.10	-1.1
SYI	1.19	103	eP	03	27.13	-1.1
RED	1.78	31	eP	03	34.30	-0.8
RS1	1.82	30	eP	03	33.74	-2.0
RS2	1.83	30	eP	03	33.82	-2.0
CNPM	1.85	69	eP	03	34.84	-1.0
			eS	03	57.55	
REF	1.86	31	eP	03	34.08	-2.1
NCT	1.87	26	eP	03	34.14	-2.1
RDT	2.01	33	eP	03	35.70	-2.3
SVW	2.27	348	eP	03	39.46	-1.7
CKL	2.57	25	eP	03	43.05	-2.1
SLKM	2.75	52	eP	03	46.33	-1.0
			eS	04	16.48	
SUA	3.21	35	eP	03	51.15	-2.5
KNK	3.98	48	eP	04	00.38	-3.4
CUT	4.11	29	eP	04	02.91	-2.6
VZW	4.59	58	eP	04	08.83	-3.3
KLU	5.05	55	eP	04	14.78	-3.7

23 obs. associated

? SEP 12, 1991 17h 21m 04.45± 1.65s
36.939 N ±25.0km 31.962 E ±20.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (CSS).

ELL	1.66	264	iPn	21	34.00	0.2
LFK	2.09	142	ePn	21	40.90	0.9
CSS	2.26	150	eP	21	41.50	-1.0
			eS	22	05.30	
KHL	2.38	306	ePn	21	44.00	-0.2

S.D. = 1.4 on 4 of 4 obs.

• SEP 12, 1991 18h 45m 17.45± 1.26s
35.737 N ±11.8km 22.313 E ± 6.4km
DEPTH = 33.0km (normal)
CENTRAL MEDITERRANEAN SEA (400)
MD 3.6 (THE). ML 3.5 (ATH).

VLI	1.10	27	ePb	45	38.50	1.9
ATH	2.50	26	ePn	45	57.00	0.4
NPS	2.73	99	ePn	45	59.00	-1.0
AGG	3.28	0	ePd	46	09.82	2.1
			eS	46	50.00	
PAIG	4.32	14	ePc	46	22.30	-0.2
LIT	4.36	2	ePc	46	23.42	0.3
			eS	47	15.00	
KEK	4.44	334	ePn	46	24.60	0.4
KZN	4.58	355	ePn	46	27.20	0.9
OUR	4.77	16	ePc	46	28.38	-0.5
FNA	5.09	352	iPd	46	33.54	0.0
			eS	47	30.00	
SOH	5.14	9	ePc	46	33.54	-0.7
KNT	5.44	5	ePc	46	37.78	-0.5
SRS	5.46	10	ePd	46	37.78	-0.9
SOI	5.53	297	P	46	39.90	0.3
			eSn	47	36.80	
LCI	5.73	324	P	46	39.90	-2.5
			eSn	47	40.00	
ROI	5.95	312	P	46	45.50	-0.1
ATN	5.99	296	P	46	47.30	1.1
			eSn	47	47.80	
CZI	6.02	307	P	46	45.90	-0.6
MEU	6.11	285	P	46	49.50	1.6
			eSn	47	53.90	
CSI	6.25	312	P	46	51.30	1.5
BRT	6.52	323	P	46	51.50	-2.0
			eSn	47	59.00	
MGR	6.91	311	P	46	57.70	-1.4
			eSn	48	09.80	
SGO	7.32	313	P	47	03.90	-0.8
			eSn	48	19.50	

S.D. = 1.3 on 23 of 23 obs.

• SEP 12, 1991 19h 31m 18.30± 1.75s
34.250 S ±18.8km 70.535 W ±13.8km
DEPTH = 113.2 ± 9.2 km
CHILE-ARGENTINA BORDER REGION (127)
Felt in the Sontiogo area, Chile.

CHCH	0.33	343	iP	31	34.80	-0.1
PCH	0.63	2	iP	31	37.00	0.2
TACH	0.68	331	iP	31	37.00	-0.1
LNV	0.78	292	iP	31	38.00	0.1
SAN	0.80	352	iP	31	38.10	-0.1
			iS	31	51.00	
PEL	1.11	353	iPc	31	41.40	0.1
			iS	31	56.30	
LCCH	1.16	312	iP	31	41.40	-0.3
ROCH	1.33	343	iP	31	43.60	-0.4
			iS	32	00.30	
IHA	1.53	323	eP	31	46.50	0.5
			iS	32	05.70	
JACH	1.56	358	iP	31	46.60	0.0
			iS	32	05.40	
SIV	20.08	27	P	35	45.00	0.0

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

SEP 12, 1991 19h 43m 57.36± 0.24s
41.965 N ± 3.3km 20.644 E ± 2.4km
DEPTH = 10.0km (geophysicist)
3.8mb (1 obs.)
ALBANIA (391)
ML 3.8 (SKO). MD 3.8 (THE).

SKO	0.59	89	iPgc	44	07.90	-1.5
			iSg	44	16.50	
OHR	0.86	172	iPgc	44	12.30	-1.7
			iSg	44	26.20	
FNA	1.30	155	iPc	44	22.34	0.8
			eS	44	41.42	
VAY	1.58	113	iPn	44	25.20	-0.3
			iSn	44	45.40	
			iSg	44	47.50	
GRG	1.66	127	iPc	44	27.02	0.3
			eS	44	49.42	
KKB	1.82	92	iPd	44	30.00	1.0
			Sg	44	57.00	
KNT	1.87	115	iPc	44	30.29	0.6
VTS	2.00	71	iP	44	32.00	0.2
			iSg	45	00.00	
THE	2.20	127	ePd	44	37.46	3.1X
LIT	2.33	143	iPd	44	36.60	0.3
			eS	45	05.58	
MMB	2.34	98	iP	44	37.00	0.5
			Sg	45	12.00	
SOH	2.34	118	ePc	44	37.53	1.0
			iS	45	03.17	
SRS	2.37	110	ePc	44	37.54	0.6
			iS	45	06.38	
IGT	2.44	186	ePd	44	39.46	1.6
			iS	45	10.42	
BRT	2.81	248	P	44	43.70	0.6
			eSn	45	17.50	
BEO	2.86	357	ePn	44	48.00	4.2X
			e(Sn)	45	30.00	
BAI	2.96	255	P	44	45.00	-0.2
OUR	3.00	122	iPc	44	46.18	0.4
			eS	45	18.57	
PLD	3.03	86	eP	44	46.00	-0.2
			iSg	45	36.00	
RZN	3.06	94	iP	44	46.00	-0.8
			Sg	45	37.00	
PAIG	3.07	131	ePc	44	47.14	0.4
AGG	3.21	156	iPd	44	48.97	0.2
			eS	45	27.14	
HVAR	3.33	293	ePn	44	50.60	0.1
KDZ	3.58	93	iP	44	53.00	-1.1
			Sg	45	51.00	
BZS	3.72	11	ePc	44	53.00	-3.0
ROI	3.91	234	P	45	00.00	1.2
CSI	3.96	238	P	44	58.30	-1.2
TDS	4.00	236	P	44	59.50	-0.5
			eSn	45	42.10	
MMN	4.09	241	P	45	02.80	1.6
			eSn	45	45.50	
ALN	4.20	103	ePd	45	02.50	-0.3
MGR	4.26	246	P	45	03.90	0.2
			eSn	45	52.10	
SGO	4.26	253	P	45	03.90	0.2
			eSn	45	50.50	
CZI	4.39	233	P	45	05.60	0.0
SDI	5.11	269	P	45	15.50	-0.3
			eSn	46	13.00	
ZAG	5.12	320	i(Pn)	45	16.00	0.2
			iPg	45	33.20	
PTJ	5.19	321	e(Pn)	45	18.40	1.5
MLR	5.21	46	eP	45	17.60	0.3
SOI	5.25	224	P	45	15.70	-2.0
			eSn	46	14.50	
VBY	5.27	314	ePn	45	24.20	6.2X
			eSn	46	19.60	
AQU	5.40	277	P	45	19.50	-0.4
ATN	5.50	228	P	45	18.50	-2.8
			eSn	46	20.50	
RIY	5.66	309	ePn	45	25.00	1.5
			iSn	46	28.90	
CEY	5.87	312	ePn	45	27.80	1.3
			eSn	46	36.00	
ARV	5.88	288	P	45	25.60	-1.0
			eSn	46	30.10	
MNS	5.93	277	P	45	27.40	0.0
			eSn	46	31.00	
ASS	6.00	283	P	45	27.90	-0.5
			eSn	46	33.40	
LJU	6.00	315	ePn	45	29.50	1.2
			eSn	46	40.50	
TRI	6.22	309	ePn	45	30.70	-0.7
			iSn	46	40.00	
			iSg	47	17.30	
			i	47	20.00	
VOY	6.34	312	ePn	45	33.40	0.2
			eSn	46	46.50	
CRE	6.61	287	P	45	37.70	0.7
			eSn	46	48.50	
SFI	6.74	290	P	45	40.00	1.2
PGD	6.82	289	P	45	40.50	0.4
VVI	7.16	307	P	45	43.60	-1.1
SPC	7.23	358	eP	45	52.60	6.8X
FVI	7.30	312	P	45	46.60	0.1
			eSn	47	05.00	

12d 19h

KBA 7.30 317 iPnd 45 46.60 -0.2
i 45 47.50
i 45 59.40
iSn 47 11.90
CTI 7.66 305 P 45 51.00 -0.7
eSn 47 14.00
WTTA 8.32 313 iPnc 46 00.00 -1.1
i 46 01.90
iSn 47 35.00
i 47 35.60
KHC 8.71 328 ePn 46 07.00 0.7
eSn 47 05.50
eSg 47 41.50
EKA 20.51 319 Pc 48 34.60 -3.4X
0.8s 3.70nm 3.8mb
S.D. = 1.0 on 55 of 60 obs.

? SEP 12, 1991 20h 00m 26.49± 4.94s
40.715 N ± 7.7km 29.817 E ±37.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

HRT 0.16 313 iPg 00 30.30 0.2
eSg 00 35.00
YLV 0.37 247 ePg 00 34.30 0.2
IZI 0.46 215 iPg 00 35.80 -0.1
eSg 00 44.30
ISK 0.67 302 ePg 00 40.10 0.3
CTT 1.14 293 ePn 00 47.20 -0.6
S.D. = 0.5 on 5 of 5 obs.

? SEP 12, 1991 21h 10m 07.72± 4.53s
10.506 N ±28.3km 62.097 W ±24.9km
DEPTH = 10.0km (geophysicist)
NEAR COAST OF VENEZUELA (97)
MD 3.5 (TRN).

TCE 0.39 61 eP 10 16.00 0.3
eS 10 27.00
TRN 0.70 78 eP 10 20.49 -1.0
eS 10 35.53
TBH 1.01 91 eP 10 27.50 0.6
eS 10 44.50
GRW 1.70 15 eP 10 38.00 0.4
eS 11 02.00
SVB 2.87 17 eP 10 54.00 -0.4
eS 11 32.00
S.D. = 0.9 on 5 of 5 obs.

SEP 12, 1991 23h 06m 30.18± 1.00s
29.698 N ± 8.2km 95.688 E ± 5.8km
DEPTH = 34.4 ± 11.0 km
4.6mb (9 obs.)
EASTERN XIJANG-INDIA BORDER REG.(313)

LSA 3.95 271 eP 07 31.30 0.9
CD2 7.08 78 Pg 08 38.40 24.2X
Sg 10 12.00
KMI 7.75 124 ePg 08 52.00 28.3X
Sg 10 33.00
KKN 9.33 261 P 08 43.48 -2.1
LZH 9.36 45 eP 08 46.00 0.1
1.0s 16.00nm 5.2mb
pP 08 51 00
GYA 10.22 106 P 08 57.00 -0.7
S 10 52.00
CHG 11.23 164 eP 09 12.00 0.5
WMO 15.47 338 P 10 12.20 4.7X
BTO 15.97 43 eP 10 13.00 -0.9
TIY 16.05 56 eP 10 16.40 1.4
Z 14s 0.50um
N 11s 0.40um
GAR 22.85 301 eP 11 31.60 0.0
QUE 24.88 278 eP 11 53.90 2.5
HFS 60.83 325 eP 16 41.40 0.3
0.3s 2.20nm 4.8mb
WR2 61.85 138 eP 16 48.40 -0.1
0.4s 2.60nm 4.7mb
NAO 62.10 326 P 16 48.70 -1.0
0.6s 1.80nm 4.4mb
ASPA 64.53 141 iPd 17 06.00 -0.1
1.1s 8.10nm 4.7mb
CDF 67.44 314 eP 17 24.30 -0.3
LPL 68.80 311 eP 17 33.50 0.2
0.7s 3.30nm 4.5mb
LBF 70.03 313 eP 17 40.20 -0.3
0.7s 2.75nm 4.4mb

SMF 70.25 313 eP 17 41.70 -0.1
0.7s 3.85nm 4.6mb
SSF 70.30 313 eP 17 42.00 -0.1
0.8s 4.05nm 4.5mb
AVF 70.50 313 eP 17 43.40 0.1
TCF 71.43 313 eP 17 48.50 -0.5
S.D. = 1.0 on 20 of 23 obs.

% SEP 12, 1991 23h 09m 01.99± 3.86s
41.565 N ±25.0km 12.704 E ±18.0km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

RDP 0.19 3 Pd 09 06.10 -0.2
eSg 09 09.40
RMP 0.25 360 P 09 06.90 -0.3
eSg 09 11.00
AZI 0.69 52 P 09 15.40 -0.3
eSg 09 25.30
MNS 0.82 359 P 09 17.70 -0.2
eSg 09 30.50
SDI 0.85 80 P 09 18.20 -0.1
eSg 09 31.60
AQU 0.95 33 P 09 20.50 0.5
eSg 09 33.50
ASS 1.50 359 P 09 29.00 -0.1
eSg 09 49.00
ARV 1.94 5 P 09 36.00 0.7
eSn 10 00.00
S.D. = 0.4 on 8 of 8 obs.

? SEP 13, 1991 00h 15m 09.21± 5.23s
32.467 S ±32.2km 71.698 W ±24.1km
DEPTH = 10.0km (geophysicist)
NEAR COAST OF CENTRAL CHILE (135)

ROCH 0.77 131 iP 15 24.50 0.2
iS 15 36.50
JACH 0.96 103 iPd 15 27.10 -0.4
iS 15 41.50
LCCH 1.01 174 eP 15 27.50 -0.8
iS 15 43.00
PEL 1.09 129 iPd 15 29.70 0.0
iS 15 46.00
TACH 1.34 152 iP 15 34.00 0.0
iS 15 53.00
LNV 1.50 171 eP 15 36.50 0.3
PCH 1.52 139 iP 15 36.50 -0.1
iS 15 58.00
CHCH 1.71 149 iP 15 40.00 0.8
iS 16 03.00
S.D. = 0.6 on 8 of 8 obs.

? SEP 13, 1991 00h 28m 39.82±12.72s
33.901 S ±49.4km 70.148 W ±96.7km
DEPTH = 33.0km (normal)
CHILE-ARGENTINA BORDER REGION (127)

PCH 0.41 312 iP 28 47.60 -1.6
iS 28 55.80
CHCH 0.42 265 iPc 28 48.00 -1.3
iS 28 56.20
TACH 0.70 290 iPc 28 53.20 -0.1
iS 29 05.30
PEL 0.88 329 iP 28 56.50 0.7
iS 29 10.50
LNV 1.05 267 iPc 28 59.00 0.8
iS 29 15.00
LCCH 1.26 289 iPd 29 02.80 1.6
iS 29 21.50
S.D. = 1.6 on 6 of 6 obs.

% SEP 13, 1991 01h 20m 55.46± 1.61s
39.465 N ± 6.4km 26.299 E ±14.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

EZN 0.36 3 iPg 21 02.90 0.0
eSg 21 08.00
KGT 1.25 38 iPn 21 19.20 0.5
IZM 1.30 145 iPn 21 19.80 0 2
EDC 1.49 53 iPn 21 22.50 0 2
MFT 1.52 29 ePn 21 22.60 -0.2
DST 1.81 85 ePn 21 26.50 -0.4
CTT 2.34 43 ePn 21 34.50 -0 1
IZI 2.59 69 ePn 21 38.00 -0.2
DMK 2.60 25 ePn 21 38.00 -0.3

HRT 2.92 61 ePn 21 43.00 0.2
S.D. = 0.3 on 10 of 10 obs.

SEP 13, 1991 01h 34m 18.68± 1.57s
10.456 N ±10.2km 85.234 W ±10.9km
DEPTH = 54.2 ± 15.3 km
4.7mb (13 obs.) 4.9Msz (8 obs.)
COSTA RICA (78)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 20S, 32C
Centroid Location:
Origin Time 01:34:18.8 0.5
Lat 9.82N 0.06 Lon 85.64W 0.07
Dep 32.4 4.3 Half-duration 1.6
Moment Tensor; Scale 10**16 Nm
Mrr= 5.57 0.39 Mtt=-4.88 0.45
Mff=-0.70 0.72 Mrt= 3.90 1.07
Mrf=-2.89 0.92 Mtf= 3.19 0.37
Principal Axes:
T Val= 7.31 Plg=70 Azm= 46
N 0.96 5 302
P -8.27 19 210
Best Double Couple:Mo=7.8*10**16
NP1:Strike=291 Dip=26 Slip= 78
NP2: 124 64 96

UPA 5.81 104 iPc 35 42.50 -1.9
1.0s 50.00nm 4.8mb
Z 18s 11.00um 4.6Msz
CLMC 10.80 127 eP 36 54.77 1.3
HOQC 11.00 129 eP 36 56.83 0.5
SDV 14.48 95 eP 37 46.30 3.9X
TOV 15.22 91 e(P) 38 02.20 10.4X
PPM 15.52 305 eP 37 56.20 0.1
MRX 17.93 303 (P) 38 19.00 -6.9X
NNA 23.80 159 eP 39 32.00 4.4X
1.2s 20.31nm 4.5mb
BLA 26.99 8 P 40 00.00 2.6
1.0s 20.00nm 4.7mb
TUL 27.09 341 eP 39 56.90 -1.4
0.8s 3.50nm 4.0mb
Z 22s 1.31um 4.5Msz
N 22s 0.46um
E 20s 0.56um
eS 45 01.00
LR 49 16.00
MEO 27.11 335 iPc 39 57.50 -1.0
FVM 27.80 351 P 40 04.00 -0.7
CBN 28.52 13 eP 40 13.00 1.9
ACO 29.00 337 e(P) 40 24.90 9.4X
ALO 31.12 325 eP 40 34.00 -0.6
1.0s 4.75nm 4.2mb
ANMO 31.13 325 P 40 35.00 0.4
1.3s 12.02nm 4.5mb
ZOBO 31.49 147 P 40 42.60 4.2X
Z 18s 2.47um 4.9Msz
S 45 50.00
LR 53 36.00
LPB 31.72 147 eP 40 41.00 0.7
Z 18s 3.44um 5.1Msz
LR 53 16.00
CNCB 32.02 148 P 40 41.70 -1.3
TBR 32.07 16 P 40 46.50 3.9X
CCH 33.48 146 eP 40 56.00 0.6
GLD 34.16 332 P 41 00.60 -0.4
GOL 34.19 332 P 41 00.50 -0.8
GLA 35.29 314 eP 41 12.00 1.4
SIV 35.53 137 P 41 11.40 -1.3
PLM 36.90 313 eP 41 25.00 0.7
RSSD 37.28 337 P 41 27.80 0.4
Z 22s 1.59um 4.8Msz
RVR 37.60 314 eP 41 30.00 0.1
GSC 37.89 316 eP 41 34.00 1.5
SBB 38.27 314 eP 41 38.00 2.3
BW06 38.56 331 P 41 36.00 -2.2
1.1s 8.93nm 4.6mb
CLC 38.71 316 eP 41 41.00 1.7
ISA 39.23 315 eP 41 44.00 0.3
LRM 42.22 332 eP 42 08.40 0.1
ORV 43.32 318 P 42 17.80 0.7
BAO 45.08 125 eP 42 33.00 1.4
NEW 46.19 331 P 42 39.00 -1.0
PPD 46.36 134 eP 42 41.10 -0.5
SCH 46.60 15 eP 42 43.00 -0.1
PNT 48.12 330 eP 42 55.00 -0.1
0.7s 8.00nm 4.8mb

```
SOB1    48.25 112 eP     42 56.10  -0.4
VAO     50.09 132 eP     43 10.00  -0.6
INK     65.75 342 eP     44 58.00  -1.7
MBC     68.29 352 eP     45 15.00  -0.6
        1.0s      9.00nm          4.7mb
PMR     68.57 333 P      45 16.60  -1.0
        0.5s      7.02nm          4.9mb
      Z 20s       1.50um          5.2Msz
SLKM    68.75 331 P      45 17.60  -1.2
FBA     69.12 336 P      45 19.80  -1.1
        0.6s      6.65nm          4.7mb
RSO     69.94 331 P      45 25.20  -1.1
SVW     71.46 331 P      45 33.50  -1.8
TOL     76.64  51 iPd    46 16.00  10.4X
KIC     79.55  85 (P)    46 23.00   0.9
ADK     82.76 321 P      46 38.00  -0.1
        0.7s     55.81nm          5.7mb
GRF     86.26  40 eP     46 58.00   2.2
        2.0s     71.00nm          5.5mb
      Z 22s       0.20um          4.5Msz
                  e      50 28.00
KHC     87.88  41 eP     47 11.00   7.3X
      Z 18s       0.30um          4.7Msz
LZH   132.92 350 ePKP    53 31.00   0.8
      Z 22s       0.46um          5.1Msz
KKN   140.89  13 PKP    54 00.00  14.6X
HYB   148.01  30 ePKP   54 02.00   4.6X
BDT   152.16 351 ePKP    54 11.00   7.4X
      S.D. = 1.2  on  46 of  58 obs.
-----------------------------------------
*  SEP  13, 1991  02h 23m 26.59± 1.96s
   51.224 N ±21.2km   15.786 E ± 9.3km
   DEPTH =  10.0km  (geophysicist)
 POLAND                              (548)
      ML 3.2 (VKA), 3.2 (GRF).

KSP      0.50 140 iP     23 34.30  -2.4
                 iS     23 43.00
                 eLR    23 48.50
BRG      1.21 254 iPg    23 49.80   0.6
                 iSg    24 10.30
PRU      1.47 213 ePn    23 54.10   1.0
                 Pg     23 55.30
                 e      23 59.10
                 Sn     24 12.00
                 Sg     24 19.00
CLL      1.75 274 iPn    23 55.30  -1.9
                 iPg    23 58.40
                 eSg    24 25.00
KHC      2.53 215 Pn     24 08.90   0.5
                 Pg     24 14.00
                 eSn    24 43.00
                 Sg     24 53.80
MOX      2.70 259 ePg    24 18.00   7.1X
                 iSg    24 58.00
WET      2.80 223 ePn    24 12.60   0.4
KRA      2.89 112 eP     24 15.50   2.0
                 eS     24 52.30
VKA      2.98 173 iPgc   24 22.40   7.6X
                 iSg    25 05.00
GRF      3.30 244 ePn    24 19.00  -0.3
                 ePg    24 31.10
                 eSg    25 17.90
      S.D. = 1.7  on   8 of  10 obs.
-----------------------------------------
?  SEP  13, 1991  03h 18m 05.95± 1.14s
   38.475 N ± 8.6km   24.053 E ±18.6km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                          (365)
      MD 2.9 (ATH).

ATH      0.57 208 ePg    18 17.50   0.0
                 eSg    18 25.00
PRK      1.90  65 ePb    18 47.00   8.4X
VLI      1.97 207 ePb    18 39.60   0.0
RDO      2.90  23 ePn    18 53.00   0.0
OHR      3.64 317 ePn    19 03.50   0.0
      S.D. = 0.1  on   4 of   5 obs.
-----------------------------------------
?  SEP  13, 1991  04h 27m 38.42± 2.83s
    7.327 S ±19.6km  124.033 E ±17.1km
   DEPTH =  54.4 ± 28.0 km
   4.1mb (  4 obs.)
 BANDA SEA                           (280)

KUPT     2.84 189 eP     28 23.00   0.7
MTN      8.88 129 eP     29 46.30  -0.5
         0.3s   108.00nm          6.3mb X
                 eS     31 21.00
WR2     16.06 142 iPc    31 18.70  -3.5X
         0.7s     7.80nm          3.9mb
                 eS     34 10.80
ASPA    18.81 151 iPd    31 56.50   0.1
         1.2s    11.10nm          4.0mb
                 eS     35 15.60
WARB    18.92 173 iPd    31 56.10  -1.6
OIS     20.01 133 iPc    32 10.00   0.5
         0.3s     8.00nm          4.5mb
STK     29.41 148 eP     33 39.70   0.8
         0.5s     2.80nm          4.2mb
CHG     35.87 317 eP     34 35.10  -0.2
      S.D. = 1.2  on   7 of   8 obs.
-----------------------------------------
%  SEP  13, 1991  05h 06m 07.21± 0.48s
   40.560 N ± 4.7km   27.711 E ± 4.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)

EDC      0.24 151 iPg    06 13.00   0.6
                 eSg    06 16.00
KGT      0.33 251 iPg    06 14.20   0.2
MFT      0.40 305 iPg    06 15.00  -0.4
CTT      0.80  43 iPg    06 23.00   0.2
DST      1.18 143 ePn    06 29.00  -0.3
DMK      1.26   2 ePn    06 31.00   0.4
YLV      1.27  89 ePn    06 30.50  -0.3
EZN      1.29 236 ePn    06 31.00  -0.1
IZI      1.36  99 ePn    06 32.00  -0.3
      S.D. = 0.4  on   9 of   9 obs.
-----------------------------------------
*  SEP  13, 1991  05h 33m 22.46± 1.01s
    3.080 N ±12.5km   84.601 W ± 9.9km
   DEPTH =  10.0km  (geophysicist)
   4.4mb (  3 obs.)
 OFF COAST OF CENTRAL AMERICA        ( 76)

CUMC     7.05 107 eP     35 06.27  -2.4
ANCC     7.73  87 ePc    35 17.87   0.0
HOOC     7.96  87 eP     35 20.70  -0.6
CLMC     8.06  84 eP     35 23.11   0.5
SILC     8.26  92 eP     35 25.51  -0.1
PURC     8.27  95 ePc    35 26.24   0.5
BUGC     8.37  84 eP     35 27.36   0.5
HOBC     8.54  81 eP     35 29.77   0.5
NNA     16.84 153 eP     37 20.00  -0.1
         1.2s    15.63nm          4.0mb
ZOBO    25.20 140 P      38 51.60   1.0
         1.1s     8.70nm          4.4mb
      Z 22s       0.29um          3.7Msz
                  S      43 24.00
                  LR     46 40.00
LPB     25.41 141 P      38 53.20   0.8
CNCB    25.69 141 P      38 56.30   1.1
CCH     27.30 139 eP     39 26.00  16.3X
ANMO    37.65 330 (P)    40 40.70   1.0
MBC     75.63 352 eP     45 13.50   4.5X
         1.0s    18.00nm          5.1mb
WR2    138.46 243 ePKP   52 48.60  -2.5
         0.5s     1.60nm
GKN    147.41  18 PKP    53 11.64   5.1X
KKN    147.80  17 PKP    53 12.30   5.0X
GUN    147.85  16 PKP    53 13.14   5.6X
DMN    147.92  17 PKP    53 12.78   5.3X
PKI    148.04  17 PKP    53 13.00   5.2X
      S.D. = 1.3  on  14 of  21 obs.
-----------------------------------------
    SEP  13, 1991  06h 11m 11.22± 0.32s
    15.047 N ± 5.6km  147.540 E ± 6.3km
    DEPTH =  33.0km  (normal)
    4.9mb (  7 obs.)
 MARIANA ISLANDS REGION              (215)

GUA      2.96 240 eP     11 57.00   0.1
                 eS     12 33.00
PJG      2.97 241 eP     11 57.00  -0.1
MAT     22.97 340 (P)    16 12.00  -1.9
PMG     24.30 181 eP     16 27.00   0.1
WHN     34.11 303 eP     17 54 00  -1.1
OIS     36.23 193 iPd    18 12.30  -0.9
         0.5s     5 00nm          4.7mb
BJI     37.00 318 eP     18 19.00  -0.5
WR2     37.11 201 iPc    18 20.00  -0.6
         0.8s    16 70nm          5 0mb
XAN     39.59 306 eP     18 40 80  -0.6
GYA     39.72 293 P      18 44.20   1.6
HHC     40.43 317 P      18 49.00   0.7
ASPA    40.72 199 iPd    18 50.40  -0.3
         0.5s    11.00nm          4.9mb
                 i      20 01.80
BTO     41.35 315 eP     18 55.80   0.0
CD2     43.00 299 eP     19 09.00  -0.4
LZH     44.18 307 eP     19 20.00   0.9
         1.5s    37.00nm          5.0mb
                 sP     19 30.50
CHG     46.53 282 eP     19 38.80   1.0
GTA     48.19 310 eP     19 53.80   3.0X
         1.2s    10.00nm          4.7mb
WMO     58.04 312 P      21 04.50   0.9
GUN     58.26 294 P      21 01.56  -4.2X
PKI     58.69 293 P      21 09.26   0.6
         1.0s    21.00nm          5.2mb
KKN     58.80 294 P      21 09.54   0.3
DMN     58.96 293 P      21 10.38  -0.1
GKN     59.36 294 P      21 12.54  -0.6
FBA     65.82  25 (P)    21 54.50  -0.7
INK     72.04  23 eP     22 34.00   0.5
MBC     76.23  14 ePc    22 57.30  -0.4
         1.0s    24.00nm          5.2mb
PNT     80.58  41 eP     23 22.00   0.1
LRM     86.16  44 eP     23 50.60  -0.2
GOL     93.15  48 P      24 24.20   0.3
KIC    145.25 306 PKP    30 47.58  -0.6
TIC    145.30 306 PKP    30 47.62  -0.6
LIC    145.56 306 PKP    30 48.48  -0.2
ZOBO   145.66  97 PKP    30 50.20   0.7
LPB    145.70  97 PKP    30 50.30   0.9
CNCB   145.82  98 PKP    30 51.20   1.4
CCH    147.60  99 PKP    30 56.00   3.7X
SIV    152.42  96 PKP    31 06.00   6.7X
      S.D. = 0.8  on  33 of  37 obs.
-----------------------------------------
    SEP  13, 1991  07h 08m 16.67± 0.58s
    44.881 N ± 6.1km   22.298 E ± 5.6km
    DEPTH =  10.0km  (geophysicist)
 ROMANIA                             (358)
      MG 3.2 (BEO).

SSR      0.39 268 iPd    08 26.00   1.2
SRE      0.68 108 iPc    08 29.60  -0.6
BZS      0.88 327 iPc    08 33.00  -0.5
DEV      1.09  23 iPd    08 37.00  -0.1
BEO      1.31 268 ePg    08 41.00   0.1
                 iSg    09 02.00
COZ      1.51  72 iPc    08 43.00  -1.0
MLR      2.65  75 iPc    09 03.00   2.7
BMR      2.91  16 ePd    09 11.00   7.1X
SKO      2.97 192 ePn    09 04.80   0.0
                 i      09 49.80
PSZ      3.46 332 ePn    09 10.90  -0.9
VAY      3.56 177 ePn    09 12.70  -0.4
OHR      3.92 197 ePn    09 17.80  -0.5
      S.D. = 1.2  on  11 of  12 obs.
-----------------------------------------
*  SEP  13, 1991  07h 58m 17.56± 1.87s
   31.249 S ±16.9km   67.771 W ±31.7km
   DEPTH =  33.0km  (normal)
 SAN JUAN PROVINCE, ARGENTINA        (137)

ZON      0.83 249 iPd    58 40.70   7.8X
JACH     2.79 238 iP     59 02.00   1.0
                 iS     59 33.00
PEL      3.11 232 iPd    59 06.00   0.5
                 iS     59 41.00
ROCH     3.24 237 iPc    59 07.20  -0.3
                 iS     59 43.50
SAN      3.29 227 iPc    59 09.20   1.2
                 iS     59 46.60
PCH      3.31 224 iPd    59 09.60   1.2
                 iS     59 48.50
TACH     3.59 227 iPd    59 12.20  -0.1
                 iS     59 52.00
CHCH     3.62 221 iPd    59 13.20   0.5
                 iS     59 54.70
LCCH     3.91 234 iPd    59 15.00  -1.7
LNV      4.09 228 iPd    59 17.00  -2.3
                 iS     00 01.50
CCH     13.88   6 P      01 40.80   6.2X
CNCB    14.38 359 P      01 42.00   0.7
LPB     14.65 359 P      01 47.00   2.2
ZOBO    14.92 359 P      01 48.00  -0.3
ARE     15.11 346 eP     01 49.00  -1.6
```

13d 08h

SIV 16.37 23 P 02 05.50 -1.1
S.D. = 1.4 on 14 of 16 obs.

? SEP 13, 1991 08h 15m 35.40± 1.30s
44.807 N ±23.0km 149.667 E ±19.6km
DEPTH = 33.0km (normal)
4.6mb (3 obs.)
KURIL ISLANDS (221)

KUSJ 3.97 246 eP 16 35.90 0.5
eS 17 18.80
ASAJ 5.08 265 P 16 55.80 4.6X
HOOJ 5.23 245 eP 16 55.50 2.2
eS 17 53.60
MRRJ 6.68 252 eP 17 15.30 1.6
eS 18 28.20
OFUJ 8.26 229 P 17 34.30 -1.5
S 18 58.80
LZH 35.54 272 eP 22 30.00 -1.4
1.2s 22.00nm 5.0mb
FBA 39.17 37 P 23 03.00 1.6
KKN 53.25 274 P 24 53.60 0.4
PKI 53.29 274 P 24 53.60 -0.1
DMN 53.48 274 P 24 53.00 -2.0
GKN 53.58 275 P 24 55.80 0.2
WR2 65.94 196 iPc 26 20.30 0.0
0.6s 2.90nm 4.6mb
GBA 67.95 267 Pc 26 31.60 -1.6
0.4s 1.50nm 4.4mb
S.D. = 1.6 on 12 of 13 obs.

? SEP 13, 1991 08h 28m 18.04± 8.01s
40.622 N ±12.0km 30.118 E ±57.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

HRT 0.40 300 iPg 28 26.00 -0.2
eSg 28 31.00
IZI 0.57 240 iPg 28 29.70 0.1
eSg 28 38.70
YLV 0.57 265 iPg 28 29.60 -0.1
eSg 28 38.00
ISK 0.92 299 ePg 28 36.00 0.4
CTT 1.38 293 ePn 28 43.10 -0.3
S.D. = 0.4 on 5 of 5 obs.

? SEP 13, 1991 08h 31m 17.48± 2.91s
22.160 S ±17.8km 67.539 W ±18.1km
DEPTH = 317.0 ± 55.6 km
CHILE-BOLIVIA BORDER REGION (124)

ANT 3.06 239 eP 32 15.50 0.1
iS 32 53.00
CCH 4.93 16 P 32 34.80 -1.0
CNCB 5.34 355 iPd 32 41.30 0.6
S 33 39.00
LPB 5.62 355 Pd 32 44.70 0.8
S 33 45.00
ZOBO 5.89 355 iPd 32 47.10 0.0
S 33 49.70
ARE 6.79 326 eP 32 57.00 -0.6
iS 34 09.50
SIV 8.66 46 iPc 33 20.20 0.1
VAO 19.02 96 (P) 35 32.00 13.8X
S.D. = 0.9 on 7 of 8 obs.

? SEP 13, 1991 09h 56m 45.39± 1.04s
39.117 N ± 8.6km 27.670 E ±11.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZM 0.79 204 iPg 57 00.90 0.2
iSg 57 13.40
EDC 1.24 7 ePn 57 09.00 0.6
EZN 1.26 305 ePn 57 08.40 -0.4
IZI 1.85 48 ePn 57 17.00 -0.5
S.D. = 0.9 on 4 of 4 obs.

? SEP 13, 1991 11h 01m 42.38± 0.88s
27.179 N ±16.4km 127.463 E ±33.7km
DEPTH = 33.0km (normal)
4.6mb (5 obs.)
RYUKYU ISLANDS (238)

WR2 47.32 171 iPd 10 14.90 0.0
0.7s 3.70nm 4.5mb
FBA 63.53 28 P 12 11.40 0.0
1.0s 2.70nm 4.3mb
INK 68.29 23 eP 12 42.00 0.2
MBC 69.07 14 eP 12 46.00 -0.5
1.0s 19.00nm 5.1mb
NUR 72.72 330 eP 13 10.00 1.3
NAO 78.44 333 P 13 39.80 -1.4
0.6s 1.80nm 4.3mb
FFC 88.05 26 eP 14 31.00 0.5
0.6s 8.00nm 5.2mb
S.D. = 1.0 on 7 of 7 obs.

• SEP 13, 1991 12h 12m 46.09± 0.77s
45.358 N ± 6.6km 21.283 E ± 7.2km
DEPTH = 10.0km (geophysicist)
ROMANIA (358)
MG 3.2 (BEO).

BZS 0.35 42 iPc 12 53.00 -0.3
TIM 0.38 354 iPc 12 53.00 -0.9
SSR 0.59 146 iPc 12 58.00 -0.1
BEO 0.80 228 iPg 13 01.00 -0.5
iSg 13 13.00
DEV 1.25 65 iPd 13 10.00 0.6
TNR 2.12 81 ePc 13 17.00 -5.1X
COZ 2.16 90 iPc 13 25.50 2.8X
UZD 2.25 304 ePn 13 25.10 1.2
PSZ 2.73 340 ePn 13 25.20 -5.7X
BMR 2.77 33 ePd 14 02.00 30.6X
SKO 3.39 178 ePn 13 48.50 8.4X
e 14 37.00
PTJ 3.77 280 eP 13 58.20 12.5X
VRI 3.85 80 ePd 13 58.00 11.3X
ZST 4.04 316 eP 13 44.00 -5.2X
S.D. = 1.0 on 6 of 14 obs.

• SEP 13, 1991 12h 17m 08.83± 1.33s
42.710 N ±11.7km 23.934 E ±19.6km
DEPTH = 10.0km (geophysicist)
BULGARIA (359)
MD 3.3 (THE).

SRS 1.61 189 ePd 17 36.42 -1.0
iS 17 59.14
KNT 1.73 207 ePc 17 38.30 -0.8
eS 18 01.94
SOH 1.94 193 ePc 17 41.94 -0.2
eS 18 07.50
OUR 2.37 179 ePd 17 48.85 0.5
iS 18 21.30
ALN 2.40 138 ePd 17 48.02 -0.8
PAIG 2.79 184 ePd 17 56.50 2.2
eS 18 32.58
MLR 3.13 27 eP 18 04.00 4.7X
e 24 03.00
VRI 3.74 31 ePd 18 08.00 0.2
S.D. = 1.4 on 7 of 8 obs.

SEP 13, 1991 12h 56m 57.16± 0.26s
9.884 S ± 3.7km 149.917 E ± 5.7km
DEPTH = 27.9km (9 depth phases)
5.0mb (14 obs.)
EASTERN NEW GUINEA REG., P.N.G. (207)

PMG 2.76 280 iPd 57 42.00 1.5
LAT 4.32 318 eP 58 04.20 1.6
CTA 10.74 199 iPKPd 59 31.00 -1.4
1.0s 10.00nm 5.0mb
e 01 22.00
ePP 01 45.00
OIS 14.54 222 eP 00 23.00 0.0
0.3s 3.00nm 4.3mb
e 02 43.00
RMQ 16.55 184 eP 00 59.70 10.7X
0.9s 52.00nm
8RS 17.62 172 iPc 01 03.00 0.5
1.0s 7.60nm 3.8mb X
WR2 18.04 235 iPd 01 07.60 -0.1
0.7s 9.60nm 4.0mb
eS 04 16.60
WRA 18.05 235 P 01 07.20 -0.7
DZM 19.96 129 iPc 01 29.90 -0.4
ASPA 20.53 226 iPc 01 36.20 0.0
0.7s 18.90nm 4.6mb
Z 20s 0.60um 4.0Msz
COO 20.67 175 eP 01 39.20 1.6
0.7s 15.00nm 4.5mb
CMS 21.83 189 eP 01 49.00 -0.2
STK 23.21 198 eP 02 03.00 0.2
0.7s 12.20nm 4.5mb
BWA 24.46 183 eP 02 14.70 -0.4
CAN 25.33 182 eP 02 23.00 -0.3
MAT 47.47 347 (P) 05 24.00 -7.6X
CHG 57.79 300 eP 06 49.40 0.7
XAN 58.50 320 Pc 06 52.80 -0.6
pP 07 01.50 29km
BJI 58.68 330 eP 06 53.50 -1.0
TIY 58.92 326 Pc 06 54.40 -2.0
CD2 60.04 314 P 07 03.60 -0.6
HHC 61.64 328 P 07 14.60 -0.3
BTO 62.29 327 eP 07 19.00 -0.3
LZH 63.02 319 eP 07 24.50 0.2
1.0s 34.00nm 5.4mb
pP 07 33.00 27km
SHL 66.55 303 eP 07 47.00 -0.4
GTA 67.55 320 Pd 07 53.40 -0.1
1.0s 10.00nm 4.9mb
pP 08 02.80 30km
LSA 68.87 307 P 08 01.20 -1.1
GUN 72.40 303 P 08 23.50 -0.1
0.8s 26.00nm 5.3mb
PKI 72.67 303 P 08 24.92 -0.2
1.0s 15.00nm 5.0mb
KKN 72.85 303 P 08 26.22 0.2
DMN 72.93 303 P 08 26.92 0.4
YAK 73.39 350 eP 08 27.90 -0.3
GKN 73.46 303 P 08 29.66 0.1
WMQ 77.60 319 P 08 52.80 0.2
MAW 79.81 203 P 09 05.40 1.3
SPA 80.18 180 eP 09 07.00 0.6
1.1s 20.83nm 5.1mb
ANM 81.46 18 P 09 13.80 1.0
pP 09 22.00 26km
SVW 82.58 23 P 09 20.00 1.2
0.7s 29.07nm 5.5mb
pP 09 28.80 28km
RSO 83.37 25 P 09 23.30 0.2
SLKM 84.46 25 P 09 28.40 0.0
pP 09 37.10 27km
PMR 85.47 25 P 09 33.20 -0.1
0.9s 22.50nm 5.4mb
pP 09 42.10 28km
FBA 87.64 22 P 09 42.80 -1.1
0.8s 37.93nm 5.7mb
pP 09 51.90 28km
BALM 88.12 27 P 09 47.50 1.1
pP 09 56.50 28km
INK 94.20 21 eP 10 23.00 8.7X
EPRU 144.91 324 ePKP 16 33.00 -0.8
EJIF 145.40 324 ePKP 16 34.50 -0.1
S.D. = 0.8 on 43 of 46 obs.

• SEP 13, 1991 14h 43m 29.06± 0.77s
15.158 N ±10.8km 147.576 E ±14.3km
DEPTH = 33.0km (normal)
4.3mb (3 obs.)
MARIANA ISLANDS REGION (215)

GUA 3.04 238 eP 44 16.00 0.0
eS 44 52.90
PJG 3.05 240 eP 44 16.30 0.1
MAT 22.88 340 eP 48 30.00 -0.8
WR2 37.23 201 eP 50 39.00 -0.5
0.7s 2.40nm 4.2mb
ASPA 40.84 199 eP 51 09.10 -0.4
0.7s 2.20nm 4.0mb
LZH 44.15 306 eP 51 40.50 3.9X
1.5s 34.00nm 4.9mb
pP 51 46.00 18kmX
CHTO 46.54 282 P 51 56.00 0.3
KIC 145.22 306 PKP 03 06.20 0.2
TIC 145.26 307 PKP 03 06.30 0.3
LIC 145.53 306 PKP 03 07.30 0.8
S.D. = 0.6 on 9 of 10 obs.

? SEP 13, 1991 17h 33m 58.19± 6.98s
4.913 N ±87.0km 76.191 W ±59.9km
DEPTH = 110.0km (geophysicist)
COLOMBIA (103)
MD 3.1 (UVC).

HOBC 0.56 174 iPd 34 15.61 -0.2
eS 34 27.20
BUGC 1.01 184 eP 34 20.05 0.1

		eS	34 35.00			
CLMC	1.09	200	eP	34 21.60	0.8	
HOOC	1.50	197	ePc	34 25.47	-0.2	
			eS	34 44.50		
ANCC	1.54	206	iPc	34 25.52	-0.4	
			eS	34 44.60		

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

---

* SEP 13, 1991 18h 10m 43.11± 0.96s
47.469 N ± 8.5km 7.290 E ± 7.0km
DEPTH = 10.0km (geophysicist)
SWITZERLAND (544)
ML 1.5 (STR).

BBS	0.15	92	Pg	10 46.90	0.3	
LOMF	0.34	249	Pg	10 49.98	-0.1	
MOF	0.40	345	Pg	10 51.21	-0.1	
			Sg	10 57.22		
FEL	0.64	50	Pg	10 55.45	-0.5	
CDF	0.94	359	Pg	11 01.49	0.3	

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

? SEP 13, 1991 18h 31m 52.66± 7.86s
18.137 N ±77.2km 100.553 W ±37.4km
DEPTH = 33.0km (normal)
GUERRERO, MEXICO (59)

III	1.06	77	iP	32 10.50	-0.9	
			iS	32 32.60		
MRX	1.67	339	iP	32 20.00	0.0	
			(S)	32 43.50		
PPM	2.05	63	iP	32 25.60	-0.4	
IIA	2.06	60	eP	32 25.70	0.1	
IISM	3.13	74	(P)	32 42.00	1.2	

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

? SEP 13, 1991 18h 49m 26.45± 1.51s
23.828 S ±15.5km 66.858 W ±19.2km
DEPTH = 141.5 ± 45.6 km
JUJUY PROVINCE, ARGENTINA (128)

ANT	3.26	271	iPd	50 17.20	-0.3	
			iS	50 52.20		
CNCB	7.06	351	P	51 10.20	1.1	
LPB	7.35	351	eP	51 05.00	-7.8X	
ZOBO	7.61	351	P	51 16.20	-0.3	
SIV	9.51	36	iPd	51 40.30	-0.9	
PPD	14.44	86	(P)	52 46.00	0.6	
BAO	19.53	69	ePc	53 45.10	-0.3	

S.D. = 1.2 on 6 of 7 obs.

---

* SEP 13, 1991 19h 01m 21.18± 2.19s
1.619 N ±12.6km 126.967 E ±17.5km
DEPTH = 84.6 ± 17.4 km
4.9mb (9 obs.)
NORTHERN MOLUCCA SEA (266)

MNI	2.13	265	ePd	01 56.70	1.1	
			eS	02 25.50		
MTN	14.95	164	eP	04 47.00	-2.3	
WR2	22.63	162	iPc	06 15.50	-0.4	
			e	06 17.70		
OIS	25.28	151	iPc	06 41.80	0.4	
	0.4s		8.00nm		4.5mb	
ASPA	26.02	165	eP	06 47.80	-0.4	
	0.3s		17.60nm		5.1mb	
WARB	27.64	181	eP	07 03.50	0.6	
FORR	32.31	178	eP	07 43.00	-1.1	
	0.3s		19.00nm		5.4mb	
CHG	32.34	304	eP	07 44.00	-0.7	
CHTO	32.34	304	P	07 43.80	-0.9	
MRWA	32.41	198	iPc	07 45.20	0.1	
	0.4s		5.00nm		4.7mb	
BAL	33.50	196	eP	07 54.00	-0.6	
	0.3s		3.00nm		4.6mb	
KLB	34.17	194	eP	08 00.50	0.2	
	0.4s		11.00nm		5.1mb	
MUN	34.94	196	eP	08 07.00	0.1	
NWAO	35.57	194	eP	08 13.00	0.7	
	0.3s		4.00nm		4.8mb	
STK	36.09	159	iPc	08 16.30	-0.3	
	0.4s		6.60nm		4.9mb	
BWA	41.12	153	eP	09 00.50	1.9	
BFD	41.22	161	eP	09 00.00	0.8	
	0.4s		6.00nm		4.8mb	
CAN	42.13	153	eP	09 07.80	1.0	
GUN	47.17	308	P	09 49.00	1.3	
PKI	47.40	307	P	09 48 40	-1.1	
KKN	47.59	307	P	09 50.00	-0.9	
DMN	47.66	307	P	09 51.00	-0.4	
GKN	48.20	307	P	09 55.60	0.1	
MAIO	70.98	308	iPc	12 33.00	1.0	

S.D. = 1.0 on 24 of 24 obs.

SEP 13, 1991 19h 36m 04.75± 0.70s
41.747 N ± 7.1km 22.948 E ± 5.8km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 1.8 (SKO).

KKB	0.16	40	iPg	36 08.00	-0.4	
			iSg	36 10.00		
VAY	0.51	214	iPg	36 14.40	-0.7	
			iSg	36 21.30		
MMB	0.61	105	iPgc	36 17.00	0.0	
			iSg	36 25.00		
VTS	0.87	13	iPg	36 21.00	-0.5	
SKO	1.15	282	ePn	36 27.00	0.8	
			eSn	36 41.00		
RZN	1.33	92	iP	36 29.00	-0.3	
			iSg	36 50.00		
KDZ	1.85	92	iP	36 38.00	1.2	
			iSg	37 03.00		

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

? SEP 13, 1991 19h 36m 53.61± 8.14s
31.542 S ±74.5km 70.864 W ±30.3km
DEPTH = 120.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)

JACH	1.16	169	iPd	37 17.60	-0.1	
			iS	37 37.30		
ROCH	1.43	185	iP	37 20.70	-0.2	
			iS	37 43.60		
PEL	1.60	175	iPd	37 22.70	0.0	
			iS	37 46.80		
LCCH	2.02	197	iP	37 28.20	0.5	
PCH	2.09	172	iP	37 29.20	0.4	
			iS	37 57.90		
TACH	2.11	182	iPc	37 28.90	0.0	
			iS	37 58.10		
CHCH	2.39	176	iP	37 32.50	-0.1	
			iS	38 04.20		
LNV	2.45	191	iP	37 32.80	-0.5	
			iS	38 04.80		

S.D. = 0.4 on 8 of 8 obs.

? SEP 13, 1991 20h 33m 36.50± 1.71s
39.034 N ±19.2km 21.604 E ± 8.1km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 2.6 (THE).

AGG	0.57	91	iPc	33 48.14	0.1	
IGT	1.10	297	iPc	33 57.25	0.0	
LIT	1.27	32	ePd	34 00.21	0.2	
			eS	34 18.00		
OHR	2.16	344	ePn	34 20.00	6.9X	
OUR	2.25	54	ePc	34 13.94	-0.3	

S.D. = 0.4 on 4 of 5 obs.

? SEP 13, 1991 21h 11m 34.82± 5.54s
15.501 S ±55.1km 167.439 E ±22.2km
DEPTH = 113.3 ± 51.7 km
4.7mb (5 obs.)
VANUATU ISLANDS (186)

BKM	2.29	160	iP	12 12.50	0.3	
			iS	12 39.10		
PVC	2.38	160	iP	12 13.50	0.2	
			iS	12 40.30		
DZM	6.60	188	iPc	13 10 00	-0.9	
			iS	14 23.30		
RMO	20.56	235	eP	16 18.00	11.5X	
	0.7s		10.00nm			
OLP	24.26	239	iPc	16 44.00	1.3	
	0.4s		22.00nm		5.0mb	
WR2	31.78	257	iPc	17 50 10	-0.5	
	0.4s		3.30nm		4.4mb	
ASPA	32.56	250	iPd	17 56 80	-0.6	
	0.4s		12.90nm		5.1mb	
FORR	39.03	240	eP	18 52.40	0.3	
	0.3s		3.00nm		4.6mb	
WARB	39.43	248	eP	18 55.70	0.2	
	0.2s		1.00nm		4.3mb	
BSF	144.01	338	ePKP	30 56.10	-2.6	
HAU	144.03	338	ePKP	30 55.80	-2.8	
FLN	145.38	346	ePKP	30 59.70	-1.1	
	0.8s		6.70nm			
LDF	145.45	345	ePKP	31 00.00	-0.9	
LOR	145.52	340	ePKP	31 00.60	-0.5	
	0.7s		3.85nm			
LBF	145.72	340	ePKP	31 01.20	-0.3	
	0.8s		5.35nm			
SSF	145.81	340	ePKP	31 01.80	0.2	
	0.6s		5.40nm			
GRR	145.82	346	ePKP	31 01.40	-0.2	
	0.7s		6.60nm			
LPL	145.96	335	ePKP	31 02.70	0.5	
	0.6s		1.70nm			
LPG	145.97	335	ePKP	31 02.80	0.5	
	0.8s		4.70nm			
SMF	146.07	340	ePKP	31 02.40	0.3	
	0.9s		5.75nm			
AVF	146.10	340	ePKP	31 02.10	0.0	
	1.0s		7.00nm			
LPF	146.20	346	ePKP	31 02.60	0.4	
	0.5s		3.65nm			
BGF	146.47	341	ePKP	31 03.40	0.7	
	0.5s		4.00nm			
MAF	146.86	341	ePKP	31 04.70	1.3	
TCF	146.91	341	ePKP	31 04.80	1.3	
LSF	147.15	342	ePKP	31 05.10	1.3	
	0.5s		2.90nm			
MFF	147.31	344	ePKP	31 05.70	1.7	
	0.7s		5.50nm			
LPO	148.67	341	ePKP	31 09.50	3.2X	
EPF	150.42	341	ePKP	31 14.20	5.1X	

S.D. = 1.2 on 26 of 29 obs.

SEP 13, 1991 22h 20m 15.67± 0.51s
39.209 N ± 4.2km 23.595 E ± 5.6km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
MD 3.2 (THE). ML 3.1 (ATH).

PAIG	0.72	5	iPc	20 30.46	0.6	
AGG	1.00	260	ePc	20 33.52	-1.1	
			iS	20 49.17		
OUR	1.16	15	iPc	20 37.14	-0.2	
			iS	20 53.65		
LIT	1.23	317	ePc	20 38.16	-0.4	
			eS	20 55.08		
ATH	1.24	176	ePn	20 38.50	-0.2	
THE	1.50	341	ePd	20 42.65	0.0	
			iS	21 03.10		
SOH	1.62	354	ePd	20 44.06	-0.3	
KZN	1.78	309	ePn	20 48.50	1.7	
SRS	1.91	360	iPc	20 47.50	-1.0	
GRG	1.97	333	ePc	20 49.85	0.4	
KNT	2.02	345	iPc	20 49.97	-0.2	
			iS	21 15.82		
PRK	2.08	88	ePb	20 54.50	3.5X	
EZN	2.20	73	ePn	20 53.00	0.2	
VAY	2.25	340	ePn	20 52.60	-0.9	
RDO	2.44	37	ePn	20 56.20	0.0	
VLI	2.54	192	ePn	20 58.00	0.4	
OHR	2.86	312	ePn	21 03.30	1.0	

S.D. = 0.8 on 16 of 17 obs.

% SEP 13, 1991 22h 32m 06.12± 1.15s
59.796 N ± 9.5km 6.389 E ± 9.5km
DEPTH = 5.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 1.8 (BER).

ODD1	0.17	46	iPc	32 09.74	0.1	
			eS	32 11.84		
EGD	0.75	310	eP	32 21.14	-0.1	
			eS	32 31.47		
KMY	0.83	225	iPc	32 22.52	0.0	
			iS	32 33.54		
HYA	1.38	356	eP	32 31.49	-0.5	
			eS	32 49.78		
SUE	1.50	328	eP	32 34.11	0.4	
			eS	32 52.34		

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

---

* SEP 14, 1991 00h 57m 05.29± 1.61s
10.050 N ±13.7km 69.968 W ±13.1km
DEPTH = 10.0km (geophysicist)

14d 00h

VENEZUELA (101)
Felt at Cararo and El Tacuyo.

TOV	0.31	147	iPgd	57 11.50	-0.3
			iSg	57 15.70	
SDV	1.33	210	iPnc	57 28.10	-1.9
			iSn	57 44.80	
MORO	1.82	63	iP	57 36.40	-0.6
CEOS	1.90	122	iP	57 38.10	-0.1
CAR	3.03	81	iP	58 02.00	7.8X
			iS	58 39.00	
OLLA	3.12	90	eP	57 55.50	0.0
			eS	58 30.90	
LLAV	3.14	82	eP	57 56.10	0.3
			eS	58 33.00	
GUAN	4.26	91	eP	58 11.00	-0.8
ZOBO	26.21	176	P	02 45.00	2.1
			i	10 44.00	
CNCB	26.76	176	P	02 49.00	1.1
			i	10 56.00	

S.D. = 1.3 on 9 of 10 obs.

? SEP 14, 1991 01h 08m 19.00± 4.45s
44.975 N ±30.7km 3.423 E ±26.4km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 1.9 (LDG).

CAF	0.97	268	Pg	08 37.20	-0.2
			Sg	08 50.00	
MAF	1.38	335	Pg	08 44.00	-0.3
			Sg	09 00.40	
TCF	1.56	327	Pg	08 47.20	0.3
			Sg	09 06.00	
BGF	1.63	346	Pg	08 47.00	-0.9
			Sg	09 07.50	
SMF	1.70	10	Pg	08 49.20	0.4
			Sg	09 10.00	
LSF	1.84	314	Pg	08 51.60	0.7
			Sg	09 14.00	

S.D. = 0 7 on 6 of 6 obs.

% SEP 14, 1991 01h 35m 24.88± 1.20s
44.186 N ±10.5km 7.390 E ± 8.9km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.4 (GEN).

ENR	0.05	29	P	35 27.48	0.4
			S	35 29.35	
STV	0.07	321	P	35 27.08	-0.3
			S	35 28.11	
PZZ	0.38	327	P	35 33.33	0.6
			S	35 37.18	
IMI	0.45	127	P	35 33.91	-0.2
			S	35 39.54	
FIN	0.59	87	P	35 37.46	0.6
BHB	0.66	352	P	35 37.26	-0.8
			S	35 47.51	
PCP	0.90	66	P	35 41.71	-0.5

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

? SEP 14, 1991 01h 45m 43.03± 1.33s
40.297 N ±15.1km 28.715 E ± 7.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZI	0.58	86	iPg	45 55.00	0.2
			eSg	46 04.00	
EDC	0.65	275	ePg	45 56.00	-0.1
CTT	0.88	346	iPg	46 00.00	0.1
			iSg	46 12.50	
HRT	0.90	54	ePg	46 00.00	-0.2

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

% SEP 14, 1991 01h 48m 22.25± 1.44s
45.182 N ±11.1km 3.173 E ±10.2km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.4 (LDG).

MAF	1.12	338	Pg	48 43.20	-0.1
			Sg	48 59.40	
RJF	1.18	277	Pg	48 44.00	-0.2
			Sg	49 01.20	
TCF	1.30	329	Pg	48 46.40	0.1
			Sg	49 05.00	
BGF	1.39	351	Pg	48 47.40	-0.3
			Sg	49 06.80	
LPO	1.50	251	Pg	48 49.00	-0.2
			Sg	49 10.00	
SMF	1.54	17	Pg	48 48.40	-1.3
			Sg	49 09.00	
LSF	1.57	313	Pg	48 50.40	0.2
			Sg	49 13.50	
AVF	1.61	4	Pg	48 50.20	-0.6
			Sg	49 12.00	
LFF	1.74	263	Pg	48 53.00	0.3
			Sg	49 18.60	
LBF	1.89	17	Pg	48 55.00	0.1
			Sg	49 19.60	
SSF	1.89	7	Pg	48 55.20	0.3
			Sg	49 20.20	
LOR	2.14	13	Pg	49 00.20	1.7
			Sg	49 26.90	
EPF	2.96	224	Pg	49 14.40	4.1X
			Sg	49 54.00	

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

% SEP 14, 1991 02h 31m 31.71± 0.53s
46.889 N ± 5.7km 0.246 E ± 6.2km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.3 (LDG).

MFF	0.39	223	Pg	31 39.40	-0.4
			Sg	31 45.20	
LSF	1.09	125	Pg	31 51.00	-1.2
			Sg	32 04.40	
LPF	1.44	323	Pg	31 57.50	-0.3
			Sg	32 16.00	
TCF	1.48	113	Pg	31 58.00	-0.4
			Sg	32 16.40	
GRR	1.68	334	Pg	32 01.20	0.0
			Sg	32 23.20	
LDF	1.72	352	Pg	32 01.80	-0.1
			Sg	32 24.00	
MAF	1.73	112	Pg	32 02.40	0.3
			Sg	32 23.00	
RJF	1.81	150	Pg	32 04.80	1.6
			Sg	32 27.20	
BGF	1.82	100	Pg	32 03.40	0.1
			Sg	32 24.80	
FLN	1.94	346	Pg	32 05.40	0.4
			Sg	32 30.00	
LFF	1.98	170	Pg	32 08.60	3.0X
			Sg	32 34.00	
CAF	2.34	146	Pg	32 14.00	3.2X
			Sg	32 44.50	
LOR	2.50	80	Pg	32 16.00	3.0X
			Sg	32 46.00	
LBF	2.56	87	Pg	32 17.00	3.1X
			Sg	32 47.60	

S.D. = 0.8 on 10 of 14 obs.

% SEP 14, 1991 04h 03m 20.75± 1.34s
17.967 N ±15.7km 66.317 W ± 4.4km
DEPTH = 10.0km (geophysicist)
PUERTO RICO REGION (90)

SJG	0.21	48	iP	03 26.00	0.6
CLLP	0.27	294	P	03 27.20	0.7
CPD	0.39	79	P	03 28.80	0.1
LPR	0.54	51	P	03 31.20	-0.6
			S	03 38.20	
APR	0.62	321	P	03 33.00	-0.2
			S	03 41.50	
MGP	0.74	273	P	03 34.90	-0.3
			S	03 45.90	
MCP	0.88	301	P	03 37.30	-0.3
			S	03 49.20	

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

• SEP 14, 1991 04h 10m 05.58± 0.70s
26.796 S ± 5.1km 71.421 W ±16.4km
DEPTH = 33.0km (normal)
OFF COAST OF NORTHERN CHILE (121)

ANT	3.21	17	eP	10 54.50	-0.3
			iS	11 46.20	
ZON	5.30	154	eP	11 31.00	6.4X
JACH	5.91	173	eP	11 34.50	1.3
ROCH	6.16	177	eP	11 37.00	0.1
PEL	6.36	174	iPc	11 40.00	0.5
			iS	12 50.20	
LCCH	6.66	181	eP	11 43.00	-0.6
SAN	6.67	175	eP	11 43.00	-0.8
PCH	6.85	174	iPd	11 46.50	0.1
TACH	6.85	177	eP	11 46.00	-0.3
LNV	7.14	180	eP	11 48.50	-1.8
ARE	10.28	360	iP	12 33.00	-1.2
			iS	14 24.00	
CNCB	10.44	18	P	12 38.00	1.4
ZOBO	10.91	17	P	12 42.00	-1.1
Z	24s		0.20um		
			LR	16 20.00	
SIV	14.43	44	P	13 23.40	-6.1X
PPD	18.91	80	eP	14 26.10	0.0
VAO	22.49	86	eP	15 03.40	-0.3
			e	15 11.40	
KIC	72.40	73	(P)	21 31.40	0.6
WR2	127.23	211	iPKPd	29 11.50	2.6
	0.4s		3.80nm		

S.D. = 1.2 on 16 of 18 obs.

SEP 14, 1991 04h 26m 55.10± 0.62s
43.112 N ± 8.2km 0.632 W ± 3.8km
DEPTH = 10.0km (geophysicist)
PYRENEES (378)
ML 1.2 (STR).

ESCF	0.05	129	Pg	26 57.37	0.0
			Sg	26 59.51	
ATE	0.06	242	Pg	26 57.45	0.1
			Sg	26 59.06	
MADF	0.14	284	Pg	26 58.64	0.2
			Sg	27 01.08	
ISSF	0.15	235	Pg	26 58.62	0.0
			Sg	27 01.44	
LHE	0.20	178	Pg	26 59.38	-0.2
JAU	0.21	111	Pg	26 59.79	0.1
			Sg	27 03.07	
ELYF	0.27	283	Pg	27 00.60	-0.2
			Sg	27 05.06	
BOH	0.28	268	Pg	27 00.79	-0.2
			Sg	27 04.91	
EPF	0.72	96	Pg	27 09.00	-0.3
			Sg	27 19.00	
LPO	2.05	39	Pg	27 34.40	4.4X
			Sg	28 00.50	
LFF	2.08	28	Pg	27 35.00	4.6X
			Sg	28 02.40	

S.D. = 0.2 on 9 of 11 obs.

? SEP 14, 1991 05h 19m 36.17± 2.69s
5.837 N ±34.6km 127.517 E ±43.9km
DEPTH = 33.0km (normal)
4.7mb (6 obs.)
PHILIPPINE ISLANDS REGION (248)

AAI	9.48	176	e(P)	21 43.10	-10.5X
WR2	26.49	165	iPd	25 10.80	-1.7
	0.3s		35.90nm		5.5mb
QIS	28.79	156	eP	25 37.00	3.6X
ASPA	29.98	168	iPd	25 42.60	-1.5
	0.3s		12.50nm		5.2mb
CHG	30.68	297	eP	25 50.00	-0.4
			e	26 35.00	
WARB	31.84	181	eP	25 59.00	-1.4
MRWA	36.57	197	eP	26 41.00	0.0
	0.4s		1.00nm		4.1mb
BAL	37.69	195	eP	26 50.50	0.2
KLB	38.37	193	eP	26 56.00	-0.1
	0.3s		4.00nm		4.7mb
MUN	39.12	195	eP	27 03.00	0.7
NWAO	39.77	194	eP	27 09.00	1.3
	0.6s		5.00nm		4.5mb
STK	39.84	161	iPd	27 11.20	2.9
	0.3s		3.90nm		4.6mb

S.D. = 1.6 on 10 of 12 obs.

SEP 14, 1991 05h 53m 22.64± 0.64s
40.101 N ± 5.9km 142.708 E ±10.3km
DEPTH = 33.0km (normal)
NEAR EAST COAST OF HONSHU, JAPAN (228)

OFUJ	1.30	219	iPd	53 44.40	-0.2
			S	54 00.60	
AOMJ	1.84	285	iP+	53 51.50	-1.0
			S	54 13.90	
HOOJ	2.32	11	eP	53 59.90	0.6

		eS	54 28.50		
MRRJ	2.63 333	eP	54 03.30	-0.3	
		eS	54 32.30		
YAMJ	2.83 228	P	54 06.80	0.3	
		S	54 41.20		
KUSJ	3.35 26	P	54 13.10	-0.8	
		eS	54 50.40		
ASAJ	4.01 359	eP	54 24.40	1.1	
NIIJ	4.07 227	P	54 24.80	0.7	
KAKJ	4.37 208	eP	54 27.80	-0.6	
		eS	55 18.30		
CHJJ	4.99 217	eP	54 37.00	-0.3	
MAT	5.01 226	eP	54 38.00	0.4	
	0.7s	19.86nm		4.7mb X	
MTMJ	5.21 229	eP	54 40.90	0.4	
INK	51.20 28	eP	02 24.00	-0.4	
	S.D. = 0.7	on 13 of 13 obs.			

% SEP 14, 1991 06h 03m 39.95± 0.81s
42.462 N ± 8.1km 13.173 E ± 8.3km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

AQU	0.20 122	P	03 43.70	-0.7	
		eSg	03 47.00		
MNS	0.37 258	P	03 47.60	0.0	
		eSg	03 54.60		
ASS	0.72 328	P	03 53.40	-0.7	
		eSg	04 04.70		
SDI	0.89 147	P	03 57.80	0.7	
		eSg	04 11.00		
ARV	1.05 351	P	04 00.50	0.7	
		eSg	04 15.40		
	S.D. = 1.0	on 5 of 5 obs.			

---

* SEP 14, 1991 06h 33m 34.66± 2.29s
32.737 S ±15.1km 71.593 W ±17.1km
DEPTH = 33.0km (normol)
NEAR COAST OF CENTRAL CHILE (135)

IHA	0.29 188	eP	33 41.70	-0.6	
		iS	33 49.40		
ROCH	0.54 116	iPd	33 45.10	-1.0	
		iS	33 55.70		
LCCH	0.74 178	iP	33 48.20	-0.4	
		iS	34 00.90		
JACH	0.85 87	iPd	33 48.20	-2.0	
		iS	34 01.00		
PEL	0.86 118	iPd	33 50.30	-0.2	
		iS	34 04.60		
SAN	1.06 133	iPd	33 53.40	0.1	
		iS	34 10.60		
TACH	1.07 149	iP	33 54.00	0.7	
		iS	34 10.80		
LNV	1.22 173	iPc	33 55.30	-0.2	
PCH	1.26 135	iPc	33 56.90	0.7	
		iS	34 16.70		
CHCH	1.43 147	iP	33 59.80	1.2	
		iS	34 21.80		
ZON	2.74 65	eP	34 19.00	1.6	
	S.D. = 1.2	on 11 of 11 obs.			

SEP 14, 1991 07h 04m 34.39± 1.02s
39.395 N ±10.3km 25.873 E ± 6.6km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
MD 3.1 (ATH)

PRK	0.34 116	iPgd	04 42.20	0.7	
		eSg	04 44.60		
EZN	0.55 39	iPg	04 47.00	1.4	
		eSg	04 52.20		
IZM	1.47 132	ePn	05 04.50	3.5X	
ALN	1.51 5	eP	05 02.38	1.0	
OUR	1.73 303	iP	05 04.80	0.1	
		i	05 31.09		
RDO	1.77 352	ePn	05 05.00	-0.2	
PAIG	1.77 288	eP	05 05.24	-0.1	
		i	05 33.41		
EDC	1.80 58	ePn	05 05.00	-0.7	
SOH	2.40 307	iP	05 09.61	-4.8X	
DMK	2.82 30	ePn	05 19.00	-1.3	
YLV	2.93 65	ePn	05 21.00	-1.0	
	S.D. = 1.0	on 9 of 11 obs.			

? SEP 14, 1991 07h 22m 12.26± 1.68s
22.552 S ±15.6km 67.241 W ±16.2km
DEPTH = 33.0km (normol)
CHILE-BOLIVIA BORDER REGION (124)

ANT	3.14 248	iPd	23 00.50	0.0	
		iS	23 41.00		
CCH	5.25 12	(P)	23 30.00	-0.8	
CNCB	5.75 353	P	23 39.00	0.8	
LPB	6.04 352	P	23 42.80	0.7	
ZOBO	6.31 352	P	23 45.00	-0.9	
SIV	8.75 43	Pd	24 19.80	0.3	
	S.D. = 0.9	on 6 of 6 obs.			

% SEP 14, 1991 08h 46m 38.87± 1.98s
15.292 N ± 4.3km 60.409 W ±21.2km
DEPTH = 33.0km (normol)
LEEWARD ISLANDS (92)
ML 3.1 (FDF).

CRM	0.73 223	iPc	46 52.73	0.1	
		S	47 01.70		
MVM	0.87 213	iPc	46 55.18	0.4	
		S	47 06.10		
FDF	0.91 232	iPc	46 55.32	0.0	
	0.1s	7.21nm			
		S	47 06.40		
BIM	1.00 220	iPc	46 56.99	0.3	
		S	47 09.60		
BBL	1.06 283	eP	46 57.68	0.3	
MGG	1.07 306	ePd	46 57.50	-0.1	
DEG	1.19 328	ePc	46 59.16	-0.2	
		S	47 13.90		
SFG	1.22 322	eP	47 00.00	0.3	
DOG	1.38 302	eP	47 02.29	0.3	
PAG	1.43 301	eP	47 03.07	0.3	
		S	47 19.40		
SEG	1.53 316	eP	47 04.96	0.8	
BPA	2.23 322	eP	47 14.50	0.2	
	S.D. = 0.3	on 12 of 12 obs.			

? SEP 14, 1991 09h 00m 20.63±11.50s
17.860 N ±88.4km 62.751 W ±41.9km
DEPTH = 10.0km (geophysicist)
LEEWARD ISLANDS (92)
ML 3.5 (FDF).

BPA	1.18 133	eP	00 42.55	-0.1	
		S	00 55.20		
SEG	1.88 140	eP	00 53.44	0.4	
		S	01 14.90		
PAG	2.09 150	eP	00 56.60	0.4	
		S	01 20.90		
DOG	2.12 149	eP	00 56.60	0.0	
DEG	2.23 133	eP	00 57.92	-0.3	
MGG	2.37 144	eP	01 00.40	0.2	
BBL	2.62 152	eP	01 03.10	-0.7	
	S.D. = 0.5	on 7 of 7 obs.			

? SEP 14, 1991 09h 32m 55.32± 6.40s
9.070 S ±67.9km 123.400 E ±21.1km
DEPTH = 135.5 ± 17.0 km
4.5mb (3 obs.)
TIMOR REGION, INDONESIA (289)

KUPT	1.09 169	eP	33 20.50	0.7	
MTN	8.47 117	eP	34 56.10	-0.3	
	0.3s	73.00nm		5.8mb X	
		eS	36 26.00		
MBL	12.50 196	eP	35 48.00	-1.6	
		eS	38 55.00		
WR2	15.14 137	iPc	36 21.60	-1.8	
	0.4s	13.70nm		4.6mb	
		eS	39 00.80		
NANU	15.40 208	eP	36 26.00	-0.5	
		eS	39 05.00		
WARB	17.30 170	eP	36 51.50	1.5	
ASPA	17.65 147	eP	36 55.60	1.3	
	0.3s	10.10nm		4.6mb	
QIS	19.36 128	iPd	37 17.80	4.8X	
MRWA	21.21 198	eP	37 32.50	0.9	
	0.4s	2.00nm		3.9mb	
	S.D. = 1.7	on 8 of 9 obs.			

? SEP 14, 1991 10h 15m 49.68± 1.83s
36.911 N ± 6.4km 9.744 W ±15.5km
DEPTH = 21.7 ± 6.0 km
WEST OF GIBRALTAR (384)
MD 3.4 (RBA). mbLg 3.3 (MDD).

CNIL	3.02 99	eP	16 40.00	2.8	
GIBL	3.04 90	eP	16 38.00	0.5	
PLAT	3.31 103	eP	16 40.50	-0.8	
ALJ	3.33 93	eP	16 43.00	1.2	
EJIF	3.47 96	eP	16 44.95	1.4	
		eS	17 20.60		
EPRU	3.62 88	eP	16 46.29	0.5	
		eS	17 23.50		
EHOR	3.70 74	eP	16 47.06	0.2	
		eS	17 23.10		
AVE	4.08 151	iPnd	16 53.20	0.9	
		eS	17 34.20		
		iS	17 36.50		
EPLA	4.26 41	eP	16 55.46	0.6	
		eS	17 39.90		
EBAN	4.90 73	eP	17 03.39	-0.5	
		eS	17 53.10		
ECOG	4.95 84	eP	17 04.60	-0.2	
		eS	17 54.80		
EGUA	4.95 89	eP	17 05.58	0.9	
		eS	17 55.20		
AFC	4.97 84	eP	17 04.75	-0.3	
		eS	17 56.40		
IFR	5.07 131	iPn	17 06.00	-0.6	
		iSn	17 57.00		
TOL	5.37 55	iPn	17 11.00	0.4	
		iSn	18 07.00		
		eSb	18 21.50		
		iSg	18 30.00		
GUD	5.74 48	eP	17 15.10	-0.8	
		eS	18 15.30		
EHUE	5.77 79	eP	17 15.40	-0.8	
		eS	18 15.70		
ERUA	5.83 19	eP	17 18.25	1.2	
		eS	18 19.90		
EVIA	5.99 71	eP	17 17.88	-1.5	
TIO	6.32 160	iPn	17 23.00	-1.0	
		iSn	18 27.00		
ETOR	7.16 55	eP	17 35.27	-0.5	
		eS	18 47.50		
ECHE	7.41 66	eP	17 38.51	-0.7	
ECRI	7.96 42	eP	17 46.74	-0.3	
	S.D. = 1.1	on 23 of 23 obs.			

& SEP 14, 1991 10h 25m 01.30s
61.384 N 140.005 W
DEPTH = 10.0km (geophysicist)
5.0mb (34 obs.) 4.3Msz (6 obs.)
SOUTHERN YUKON TERRITORY, CANADA(18)
<PGC>. ML 5.1 (PMR). Felt at Burwosh Landing.

CTGM	0.77 237	iPd	25 15.14	-1.3	
BALM	1.19 254	P	25 22.35	-1.1	
YAH	1.33 220	ePd	25 25.86	-0.2	
HYT	1.34 114	Pc	25 25.50	-0.5	
TGL	1.51 247	iPd	25 28.09	-0.4	
CROM	1.65 249	iPd	25 29.92	-0.7	
		eS	25 49.67		
WAX	1.68 237	iPd	25 31.12	0.2	
		eS	25 50.48		
WRG	1.68 217	iPd	25 33.34	2.5	
CYK	1.79 224	eP	25 34.53	2.2	
GLB	1.83 273	ePd	25 33.18	0.1	
		eS	25 50.92		
SNH	1.84 230	eP	25 32.30	-0.9	
YKU	1.84 176	iPc	25 37.40	4.2	
HMT	2.33 245	eP	25 41.63	1.3	
TMW	2.40 326	ePd	25 39.94	-1.3	
WHC	2.47 103	P	25 41.50	-0.8	
RAGM	2.49 248	eP	25 44.58	2.0	
KAIM	2.62 238	eP	25 45.98	1.6	
PLBC	2.65 135	Pc	25 45.60	0.9	
TZL	2.66 287	eP	25 46.29	1.3	
SGAM	2.69 253	eP	25 46.90	1.5	
DWY	2.69 5	Pd	25 44.40	-1.0	
KLU	2.84 275	iPc	25 49.56	1.9	
		eS	26 22.03		
SDG	2.86 296	ePc	25 47.90	0.1	
CVA	2.92 256	eP	25 50.55	1.9	
PAX	3.02 304	eP	25 49.12	-0.9	
TOA	3.02 287	ePd	25 52.20	2.1	
VLZ	3.07 268	iPc	25 51.87	1.2	
VZW	3.18 267	iPc	25 53.40	1.0	
FID	3.21 261	ePc	25 54.69	1.9	
HIN	3.33 256	eP	25 55.28	0.9	
THY	3.36 310	eP	25 55.63	0.7	

14d 10h

GLI	3.48	265	iPc	25	57.25	0.8	KVN	26.14	139	eP	30	39.30	2.1	KRA	67.75	14	eP	35	59.00	-1.6
MID	3.70	241	e(P)	26	02.90	3.2	PCC	26.33	147	iPc	30	40.41	1.7	KHC	67.81	18	iPc	36	02.00	1.0
DJE	3.72	318	eP	25	58.66	-1.4	CMB	26.38	143	eP	30	41.00	1.8				e	36	10.60	
SML	4.00	280	eP	26	04.65	0.7		1.6s		37.52nm			4.8mb	LOR	67.85	26	eP	36	01.40	0.1
ABF	4.05	136	eP	26	06.00	1.5	ARN	26.70	146	eP	30	44.60	2.4		1.4s		13.05nm			4.9mb
KNK	4.06	274	eP	26	05.89	1.1	GCC	26.88	147	ePc	30	45.03	1.3		Z 19s		0.38um			4.6Msz
			eS	26	48.40		DUG	26.94	129	eP	30	46.20	1.7	BSF	67.90	23	eP	36	01.70	0.0
LTI	4.09	254	iPd	26	05.95	0.8		1.4s		23.50nm			4.7mb	SSF	67.97	26	eP	36	02.20	0.2
GHO	4.28	279	eP	26	08.41	0.4	BONR	27.08	140	P	30	48.10	2.2		1.3s		11.65nm			4.9mb
PLRM	4.38	277	eP	26	09.79	0.5	RSSD	27.29	113	eP	30	48.50	0.7	AVF	68.20	26	eP	36	03.40	0.0
PMR	4.38	277	eP	26	11.00	1.7		1.2s		32.07nm			4.9mb		1.5s		18.30nm			5.0mb
HDA	4.39	317	eP	26	07.35	-2.2	FRI	27.55	143	iPc	30	51.51	1.7	WMO	68.27	325	P	36	04.20	0.2
RND	4.59	300	eP	26	14.89	2.5	PRI	28.07	145	ePc	30	56.98	2.2	BGF	68.31	27	eP	36	04.10	0.0
PMS	4.61	272	eP	26	13.80	1.2	MSU	28.65	130	eP	31	01.90	1.8	TCF	68.43	27	eP	36	04.90	0.0
PWA	4.74	278	eP	26	16.10	1.7	CLC	29.26	141	eP	31	07.00	1.6	SMF	68.44	26	eP	36	04.80	-0.1
MCK	4.76	304	eP	26	12.35	-2.4	GSC	29.98	140	eP	31	14.00	2.1	GTA	68.49	314	eP	36	05.00	-0.5
HUR	4.79	294	eP	26	16.43	1.3	SBB	30.24	142	eP	31	15.00	0.8		1.4s		20.00nm			5.1mb
SEW	4.81	259	eP	26	15.17	-0.2	MWC	30.61	143	eP	31	20.00	2.5				pP	36	12.20	23kmX
WRH	4.82	314	eP	26	13.82	-1.8	RVR	31.02	142	eP	31	22.00	1.1	SPC	68.64	14	eP	36	06.50	0.1
CCB	4.83	316	ePc	26	12.79	-2.9	TPC	31.32	140	eP	31	25.00	1.3				e	36	14.50	
GLM	4.92	320	eP	26	13.95	-3.2	PLM	31.77	141	eP	31	29.00	1.2	RJF	69.21	28	eP	36	09.80	0.1
SIT	4.96	149	eP	26	17.80	0.3	GLA	32.68	139	eP	31	38.00	2.5		Z 19s		0.17um			4.3Msz
CUT	4.96	286	eP	26	18.10	0.6	ANMO	33.96	126	ePc	31	48.20	1.3	ZST	69.23	16	eP	36	09.30	-0.4
			eS	27	10.15		ALO	33.97	126	ePc	31	48.00	1.1	WTTA	69.32	20	i(P)	36	08.30	-2.2
FBA	4.99	318	eP	26	15.60	-2.4		1.4s		36.63nm			5.1mb		1.8s		35.10nm			5.2mb
SLKM	5.06	264	iPd	26	19.13	0.2	DAG	37.31	19	eP	32	15.00	0.5				i	36	10.50	
SUA	5.16	276	eP	26	21.87	1.4		1.0s		29.00nm			5.0mb				i	36	28.00	
BWN	5.17	307	eP	26	17.94	-2.5	SCH	37.33	66	eP	32	16.00	1.0				e	37	31.00	
MDM	5.17	317	ePc	26	17.53	-3.0	TUL	37.63	112	iPd	32	18.00	0.3	LFF	69.37	29	eP	36	11.40	0.7
TRF	5.21	298	eP	26	16.60	-4.6		1.6s		41.50nm			5.0mb	CAF	69.69	28	eP	36	12.90	0.3
NEA	5.23	312	eP	26	18.83	-2.6		Z 16s		0.23um			4.1MszX	LPO	69.72	28	eP	36	13.20	0.4
KTH	5.51	298	eP	26	25.49	0.0				eLg	44	57.70			1.4s		26.15nm			5.2mb
SKT	5.52	281	eP	26	25.90	0.4				LR	46	41.00		XAN	69.84	304	P	36	12.90	-0.9
FYU	5.69	338	ePd	26	26.21	-1.6	YAK	39.49	312	iP	32	33.70	0.8	LZH	69.99	309	eP	36	14.80	0.0
CGLM	5.78	275	eP	26	27.49	-1.7				epP	32	56.00	95kmX		1.5s		85.00nm			5.7mb
SPU	5.81	273	eP	26	30.05	0.4				ePP	34	05.00			Z 18s		0.25um			4.5Msz
NCG	5.84	276	eP	26	30.40	0.3				e	38	37.00					pP	36	22.00	23kmX
CNPM	5.86	256	eP	26	29.77	-0.5	GBTN	43.18	100	eP	33	03.80	0.2	WHN	70.66	298	eP	36	19.00	0.3
REF	6.25	267	eP	26	34.63	-1.4	TKL	43.40	100	eP	33	05.50	0.2				sP	36	29.00	
RDN	6.28	268	eP	26	34.84	-1.4	NAV	43.49	96	eP	33	06.00	-0.1	TOL	72.93	34	eP	36	33.00	0.8
RDW	6.31	267	eP	26	36.13	-0.6	BLA	43.75	95	eP	33	08.00	-0.2	CD2	74.63	307	eP	36	41.50	-0.7
KDC	7.31	246	ePc	26	51.20	0.6		1.0s		10.00nm			4.6mb	SKO	75.90	14	eP	36	49.50	0.3
INK	7.47	19	P	26	48.30	-4.6	KEV	48.82	6	eP	33	48.00	0.2				e	36	55.00	
	0.7s		64.00nm			5.9mb	SOD	51.18	7	iP	34	06.00	0.2	OHR	76.67	15	eP	36	54.00	0.4
SVW	7.54	275	eP	26	53.40	-0.5	CN2	54.77	298	eP	34	31.50	-1.4	GYA	77.44	303	iPc	36	59.00	0.8
TTA	7.65	289	eP	26	54.90	-0.6				pP	34	40.00	28kmX		1.0s		10.00nm			4.9mb
IMA	7.66	314	eP	26	55.40	-0.3	NAO	56.08	17	P	34	41.60	-0.6	MAIO	81.37	344	eP	37	20.00	0.8
BDBC	10.56	112	P	27	38.50	2.9		1.0s		13.00nm			4.9mb	GKN	83.89	321	P	37	33.20	0.8
YKA	11.98	74	eP	27	52.90	-2.0	HFS	57.13	15	eP	34	49.00	-0.7	KKN	83.89	321	P	37	33.40	0.9
	0.8s		7.40nm			5.0mb		1.0s		11.80nm			4.9mb	PKI	84.06	321	P	37	34.00	0.5
SDN	12.31	250	eP	28	00.50	1.2	NUR	57.86	9	iP	34	54.30	-0.5	CHG	87.38	306	eP	37	49.50	-0.2
GDR	14.02	140	P	28	24.71	2.8		0.7s		9.30nm			4.9mb	SPA	151.22	180	ePKP	44	45.00	-3.5
BTB	14.45	139	P	28	31.04	3.3	EKA	58.76	27	P	35	01.00	-0.2		0.7s		9.77nm			
WHB	14.75	132	P	28	34.61	3.1		1.0s		15.40nm			5.1mb		192 obs. ossocioted					
SHB	14.88	135	P	28	35.66	2.4	BJI	61.75	302	eP	35	21.00	-0.8	----------						
WPB	15.05	134	P	28	38.55	3.1		1.5s		35.00nm			5.3mb	? SEP 14, 1991 10h 45m 46.86± 6.08s						
NAB	15.15	136	P	28	39.43	2.6	HHC	62.90	306	eP	35	28.90	-0.7	14.660 N ±31.2km 60.644 W ±30.2km						
BIB	15.23	134	P	28	40.40	2.6	BTO	63.71	307	eP	35	34.00	-1.0	DEPTH = 106.3 ± 47.6 km						
HNB	15.60	133	P	28	45.23	2.7	OBN	63.83	2	eP	35	35.00	-0.3	WINDWARD ISLANDS					(95)	
SNB	15.82	135	P	28	48.30	2.9		1.2s		44.00nm			5.5mb							
PGC	15.83	136	P	28	48.11	2.6				e	35	36.00		MVM	0.27	247	iPd	46	03.07	-0.2
MCW	16.02	135	eP	28	49.70	1.7				i	35	42.00					S	46	13.80	
MBC	16.50	17	eP	28	48.50	-5.4	ENN	64.92	23	eP	35	42.50	0.0	CRM	0.28	290	iPd	46	02.82	-0.5
	1.0s		65.00nm			4.7mb		0.8s		9.00nm			5.0mb				S	46	13.20	
PNT	16.65	127	P	29	01.40	5.3	TIY	65.25	304	eP	35	42.50	-2.4	BIM	0.44	251	iPc	46	03.68	0.5
	1.7s		5.00nm			3.4mb X		Z 25s		0.60um			4.7MszX	FDF	0.50	279	eP	46	03.66	0.1
GMW	17.01	137	eP	29	03.00	2.4		N 20s		1.10um					0.1s		8.69nm			
RMW	17.42	135	eP	29	08.20	2.5	FLN	65.49	28	eP	35	46.10	-0.1				S	46	15.20	
BMW	17.82	139	eP	29	12.80	2.1		1.5s		31.35nm			5.3mb	BBL	1.18	317	ePd	46	10.05	0.0
LON	18.03	136	eP	29	15.70	2.3		Z 21s		0.17um			4.2Msz				S	46	25.80	
DPW	18.38	128	eP	29	20.00	2.4	CLL	65.60	18	eP	35	46.00	-0.9	MGG	1.41	333	ePd	46	12.82	0.1
NEW	18.48	125	eP	29	20.80	2.0		1.7s		15.00nm			4.9mb				S	46	30.20	
	1.1s		67.59nm			4.7mb	LDF	65.73	28	eP	35	47.60	-0.2	DOG	1.66	326	ePd	46	15.92	0.1
VGB	19.46	136	eP	29	32.00	1.2		1.4s		26.15nm			5.2mb	SFG	1.67	341	eP	46	16.12	0.2
FFC	20.94	91	eP	29	45.00	-1.2	MOX	66.03	19	eP	35	50.00	0.3	PAG	1.69	324	eP	46	15.90	-0.4
	1.2s		35.00nm			4.6mb		2.0s		30.00nm			5.1mb				S	46	36.30	
LRM	22.33	122	eP	30	01.90	1.3	LPF	66.05	29	eP	35	50.30	0.5	DEG	1.69	346	ePc	46	16.53	0.2
FHC	22.81	147	eP	30	08.12	3.1	BRG	66.17	18	eP	35	50.60	0.1	SEG	1.92	335	eP	46	19.50	0.4
LBFM	22.88	143	eP	30	08.30	2.4		1.5s		15.00nm			5.0mb				S	46	40.40	
WDC	23.40	145	iPc	30	13.95	3.1				e	35	58.00		BPA	2.64	334	eP	46	28.20	-0.5
MIN	23.89	143	iPc	30	18.36	2.7	KSP	66.53	16	eP	35	52.50	-0.3		S.D. = 0.4		on 12 of 12 obs.			
ORV	24.65	144	ePc	30	24.53	1.6	GRF	66.89	20	eP	35	56.20	1.0	----------						
			eS	31	02.89			Z 21s		0.10um			4.0Msz	? SEP 14, 1991 11h 13m 00.90± 1.37s						
BW06	26.02	122	eP	30	37.60	1.5	PRU	67.12	18	eP	35	56.60	0 0	37.095 N ± 9.4km 36.034 E ±17.1km						
	1.3s		35.79nm			4.9mb	CDF	67.43	23	eP	35	59.10	0.4	DEPTH = 10.0km (geophysicist)						
BKS	26.02	147	e(P)	30	38.10	2.3	HAU	67.65	24	eP	36	00.40	0.4	TURKEY					(366)	
	1.2s		75.00nm			5.3mb		Z 19s		0.15um			4.2Msz	ML 4.1 (CSS).						

FAM	2.66	219	eP	13	44.80	0.2
			eS	14	19.60	
LFK	2.72	229	eP	13	37.90	-7.5X
CSS	3.05	227	eP	13	49.00	-1.1
			eS	14	26.50	
BHL	3.20	186	Pn	13	53.00	0.7
			Sn	14	40.00	
PPCY	3.72	235	eP	13	58.80	-0.8
			eS	14	45.60	
BBTK	3.76	318	eP	14	11.00	10.7X
			iS	15	03.00	
KVT	3.98	0	eP	14	03.00	-0.3
KAS	4.62	338	eP	14	23.00	10.6X
ELL	4.92	268	iP	14	18.00	1.2

S.D. = 1.2 on 6 of 9 obs.

? SEP 14, 1991 12h 29m 08.91± 4.61s
40.682 N ±12.0km 30.172 E ±33.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

HRT	0.41	290	iPg	29	16.90	-0.4
GBZT	0.56	281	ePg	29	20.70	0.4
			iSg	29	27.40	
YLV	0.62	260	iPg	29	21.40	0.0
			eSg	29	31.80	
IZI	0.64	237	iPg	29	21.60	-0.1
			eSg	29	32.00	
CTT	1.40	290	iPn	29	34.90	0.4
DMK	2.15	303	ePn	29	45.00	-0.3

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

? SEP 14, 1991 12h 34m 57.49± 1.30s
15.986 N ±21.3km 94.612 W ±10.5km
DEPTH = 33.0km (normal)
3.8mb (1 obs.)
NEAR COAST OF OAXACA, MEXICO (66)

SCX	2.04	68	eP	35	31.20	1.0
			iS	36	01.50	
OXX	2.30	299	iP	35	33.24	-0.8
			(S)	36	06.00	
TPX	2.51	115	iP	35	36.58	-0.3
IISM	3.98	319	iP	35	57.65	-0.1
			(S)	36	46.80	
LVVM	4.12	335	(P)	35	55.81	-3.9X
			(S)	36	51.21	
IIT	4.64	311	(P)	36	08.97	1.6
PPM	4.90	309	(P)	36	11.00	-0.3
			iS	37	05.00	
IIA	4.98	310	iP	36	14.50	2.6
			(S)	37	10.80	
III	5.21	298	iP	36	14.00	-1.5
			(S)	37	13.20	
MRX	7.28	302	(P)	36	44.80	0.6
MEO	19.06	350	iPc	39	18.00	-1.8
TUL	19.87	357	e(P)	39	39.70	10.9X
ANMO	21.66	333	P	39	46.50	-1.0
	1.0s		3.75nm			3.8mb

S.D. = 1.5 on 11 of 13 obs.

SEP 14, 1991 12h 48m 20.38± 0.93s
36.450 N ± 4.3km 8.209 W ± 8.6km
DEPTH = 25.0 ± 4.3 km
WEST OF GIBRALTAR (384)
MD 3.2 (RBA). mbLg 3.1 (MDD).

EVAL	1.63	46	ePn	48	48.80	1.0
			eSn	49	05.50	
CNIL	1.74	92	eP	48	53.00	3.6X
GIBL	1.85	78	eP	48	55.00	4.0X
PLAT	2.01	99	eP	48	54.00	0.7
MOMI	2.01	93	eP	48	53.50	0.2
ALJ	2.11	83	eP	48	55.50	0.7
EJIF	2.21	89	ePn	48	57.00	0.9
LIJA	2.29	78	eP	48	57.00	-0.4
EPRU	2.45	77	ePn	49	01.10	1.5
			eSn	49	26.50	
EHOR	2.73	59	ePn	49	04.16	0.6
			eSn	49	33.40	
AVE	3.21	168	iPn	49	11.00	0.6
			iSn	49	43.50	
EGUA	3.75	83	ePn	49	18.06	0.0
			eSn	49	59.90	
ECOG	3.81	76	ePn	49	19.83	0.8
			eSn	50	00.50	
AFC	3.83	77	ePn	49	19.70	0.5
			eSn	50	02.20	
IFR	3.87	138	iPn	49	19.50	-0.3
			iSn	49	58.50	
E8AN	3.92	63	ePn	49	19.76	-0.7
			eSn	50	01.60	
EPLA	3.98	24	ePn	49	21.63	0.4
			eSn	50	04.40	
EHUE	4.69	71	ePn	49	30.35	-1.1
			eSn	50	20.60	
TOL	4.74	42	iPnc	49	32.00	-0.1
			iSn	50	22.00	
			eSb	50	32.50	
			eSg	50	43.00	
EVIA	5.03	63	ePn	49	34.68	-1.7
GUD	5.26	36	ePn	49	39.37	-0.1
			eSn	50	34.30	
TIO	5.57	172	iPn	49	43.00	-0.9
			iSn	50	39.00	
ERUA	5.99	8	ePn	49	49.96	0.2
			eSn	50	54.70	
STS	6.43	358	ePn	49	56.46	0.5
			eSn	51	04.90	
ETOR	6.50	46	ePn	49	56.26	-0.7
			eSn	51	04.50	
ECRI	7.56	34	ePn	50	11.25	-0.6
			eSn	51	30.80	

S.D. = 0.8 on 24 of 26 obs.

SEP 14, 1991 13h 16m 39.76± 0.16s
40.171 N ± 3.2km 105.046 E ± 2.7km
DEPTH = 24.8km (16 depth phases)
5.1mb (53 obs.) 4.5Msz (7 obs.)
WESTERN NEI MONGOL, CHINA (323)
ML 5.2 (BJI).

BTO	3.82	82	Pn	17	39.00	0.5
			Pg	17	49.00	
			Sn	18	23.50	
GTA	4.10	261	iPnc	17	43.20	0.6
Z	12s		30.20um			
			Pg	17	56.40	
			Sn	18	33.00	
			Sg	18	50.00	
LZH	4.19	193	Pn	17	45.00	1.2
Z	12s		11.50um			
			Pg	17	52.00	
			Sn	18	40.00	
			Sg	18	50.00	
HHC	5.01	80	iPnc	17	55.60	0.1
Z	18s		15.10um			
			Pg	18	09.50	
			Sg	19	17.00	
TIY	6.26	111	Pnd	18	11.40	-1.6
			Pg	18	33.90	
			Sn	19	29.80	
XAN	6.86	152	Pn	18	20.60	-0.8
			Sg	20	11.00	
BJI	8.53	87	P	18	44.50	-0.2
Z	14s		4.10um			
CD2	9.30	187	P	18	54.60	-0.8
Z	12s		2.90um			
E	10s		12.50um			
TIA	10.29	109	eP	19	08.30	-0.7
Z	16s		7.00um			
E	14s		5.70um			
IRK	12.11	358	eP	19	33.20	-0.4
			e	19	41.00	
			e	22	05.50	
			iSg	22	58.30	
WHN	12.24	139	eP	19	34.00	-1.3
	1.0s		30.00nm			5.5mb
Z	16s		3.00um			
N	11s		3.10um			
E	10s		4.60um			
			sP	19	48 00	
			S	21	50.00	
DL2	12.87	90	eP	19	45.00	1.3
N	14s		2.70um			
WMO	13.41	291	iPc	19	49.00	-2.0
	1.3s		100.00nm			5.6mb
Z	12s		5.60um			5.3MszX
			sP	19	57.00	
			eS	22	13.00	
GYA	13.74	174	P	19	55.40	-0.1
			S	22	31.20	
NJ2	13.78	122	Pc	19	54.40	-1.4
Z	14s		5.10um			
	N	11s		2.50um		
	E	11s		1.80um		
				pP	19	59.00
				sP	20	05.00
SNY	14.10	77	Pc	20	01.20	1.3
	1.2s		60.00nm			5.2mb
	Z	16s		9.60um		5.0MszX
	E	13s		4.40um		
KMI	15.13	188	Pd	20	18.60	4.8X
	0.6s		60.00nm			5.1mb
	Z	12s		1.90um		4.8MszX
	N	10s		0.90um		
	E	10s		3.70um		
				sP	20	26.00
LSA	15.44	232	eP	20	16.00	-2.0
	E	10s		0.80um		
CN2	15.59	70	Pc	20	20.00	0.5
	1.2s		100.00nm			4.9mb
	Z	14s		19.00um		4.6Msz
				pP	20	27.00
				eS	23	10.00
SSE	15.92	120	P	20	27.00	3.3X
	1.0s		15.00nm			4.1mb
	Z	16s		2.60um		4.2MszX
	N	10s		1.40um		
	E	11s		1.70um		
				sP	20	34.00
MDJ	18.64	68	eP	20	58.00	0.3
	Z	15s		4.00um		
	E	10s		4.40um		
GUN	20.00	238	P	21	13.20	-0.5
	0.7s		790.00nm			6.2mb X
KKN	20.47	239	P	21	17.84	-0.6
	0.6s		343.00nm			5.9mb
PKI	20.53	238	P	21	18.54	-0.7
DMN	20.70	239	P	21	20.56	-0.4
GKN	20.75	240	P	21	20.28	-1.1
	0.8s		475.00nm			6.0mb
OIZ	21.47	168	eP	21	30.80	2.2
	E	14s	3.40um			
			eS	25	22.00	
			sS	25	38.00	
CHG	21.92	196	eP	21	33.70	0.6
	0.8s		7.84nm			4.2mb
			eS	25	44.00	
KSH	22.30	278	eP	21	38.00	1.1
	E	12s	5.80um			
			eS	25	42.00	
LOE	22.87	188	eP	21	42.00	-0.4
BDT	23.44	195	eP	21	49.50	1.6
	0.8s		36.30nm			5.0mb
NST	24.78	191	eP	22	11.20	10.2X
NDI	25.55	252	iPc	22	08.50	0.3
	0.5s		21.13nm			5.0mb
MAT	26.17	87	(P)	22	16.00	2.1
	1.0s		18.00nm			4.7mb
GAR	26.69	279	eP	22	18.90	0.0
			eS	26	47.00	
			eSS	27	47.00	
			e	33	21.00	
BAG	27.25	146	eP	22	30.10	5.9X
HYB	32.23	233	eP	23	08.00	-0.4
QUE	32.48	264	eP	23	10.90	0.3
IPM	35.62	187	ePd	23	45.00	7.5X
MAIO	35.69	279	iPc	23	40.00	1.9
			eS	28	32.00	
GBA	35.87	230	Pc	23	38.10	-1.5
	0.7s		7.20nm			4.7mb
KOD	38.56	227	eP	24	03.10	0.4
IR4	42.57	281	iPc	24	37.60	2.2
IR7	42.61	282	iPc	24	37.50	1.9
IR1	42.66	282	iPc	24	38.20	2.1
IR5	42.82	281	eP	24	40.00	2.6
OBN	46.56	313	iPd	25	07.50	0.6
	1.2s		44.00nm			5.3mb
	Z	16s		0.80um		4.8MszX
	N	16s		0.50um		
	E	16s		0.60um		
				i	25	16.00 28km
				iPP	27	06.00
				e	27	07.00
				e	31	04.00
				LR	44	04.00
DHR	47.26	270	eP	25	14.00	1.1
MSL	47.88	286	eP	25	18.00	0.4
			e	25	21.50	12kmX
BHD	48.29	282	eP	25	21.50	0.7

```
14d  13h

KEV      48.88 333 iP     25 25.00    0.1
SOD      49.31 330 iP     25 28.30    0.1
KAF      50.40 323 iP     25 36.40   -0.2
         0.5s      5.90nm          4.8mb
MJMA     51.21 273 iPc    25 42.70   -0.7
NUR      51.57 321 iP     25 45.30   -0.2
         0.6s     18.30nm          5.2mb
OASM     52.43 274 iPd    25 52.70    0.1
UOSK     53.49 275 iPc    26 01.50    1.1
AFIF     53.77 272 iPc    26 04.70    2.2
UPP      55.10 322 iP     26 11.20   -0.5
                   i      26 18.90   25km
VRI      55.39 304 ePd    26 14.50    0.5
CSS      55.67 289 eP     26 16.00   -0.2
MLR      56.04 304 eP     26 19.00    0.1
AYN      56.70 281 iPc    26 23.30   -0.3
                   e      26 30.00   22km
HFS      56.82 323 eP     26 23.20   -0.9
         0.6s     20.90nm          5.3mb
      Z  17s       0.65um          4.8MszX
                   LR     50 47.00
HOL      57.21 282 iPc    26 26.70   -0.5
                   e      26 33.30   22km
BADA     57.63 282 iP     26 30.00   -0.2
KRA      57.77 311 eP     26 30.60   -0.3
      Z  18s       0.90um          4.9Msz
                   e      26 39.80   30km
NAO      57.82 325 P      26 29.70   -1.4
         0.8s     14.70nm          5.1mb
SPC      57.96 310 iP     26 33.20    0.7
BZS      58.72 305 eP     26 37.00   -0.6
KSP      59.51 313 ePc    26 42.50   -0.5
SRO      59.73 309 eP     26 44.30   -0.2
VAY      60.12 301 eP     26 46.80   -0.5
ZST      60.27 310 iP     26 48.60    0.4
SKO      60.55 302 eP     26 49.00   -1.2
                   i      26 50.40   5kmX
BRG      60.81 313 iP     26 51.40   -0.5
         1.2s     22.00nm          5.2mb
                   i      27 00.80   31km
                   i      29 16.80
PRU      60.90 312 Pc     26 52.60    0.1
         1.0s     12.00nm          5.0mb
      Z  16s       0.60um          4.8MszX
                   e      27 00.10   25km
CLL      61.12 314 iPc    26 53.60   -0.3
         1.1s     20.00nm          5.2mb
                   i      27 02.30   28km
OHR      61.39 301 eP     26 55.20   -0.8
KHC      61.86 312 P      26 59.00   -0.1
      Z  12s       0.40um          4.8MszX
                   e      27 07.10   26km
MOX      62.21 314 iPc    27 01.50    0.1
         1.5s     17.00nm          5.0mb
      Z  15s       0.50um          4.8MszX
      N  16s       0.40um
      E  16s       0.20um
HOF      62.23 314 eP     27 01.50    0.0
         1.0s     12.00nm          5.0mb
WET      62.25 312 iPc    27 01.90    0.2
         1.0s     12.00nm          5.0mb
VBY      62.69 308 ePc    27 04.40   -0.2
GRF      62.91 313 ePc    27 06.70    0.7
         1.1s     39.00nm          5.5mb
      Z  19s       0.50um          4.7Msz
                   e      27 15.60   29km
INK      63.39  21 eP     27 07.00   -1.9
FVI      63.61 310 P      27 09.60   -1.0
WTTA     63.93 311 iPc    27 12.80   -0.2
         0.9s     22.10nm          5.3mb
                   i      27 20.50   25km
                   i      27 31.50
                   i      27 47.40
                   e      29 03.00
                   e      29 46.00
TDS      65.05 302 P      27 20.30    0.1
ENN      65.22 316 eP     27 21.50    0.5
         0.9s     13.00nm          5.1mb
                   e      27 30.50   29km
SGO      65.24 303 Pd     27 21.30    0.0
ASS      65.55 306 Pd     27 23.50    0.1
SFI      65.59 308 P      27 24.20    0.7
PGD      65.69 308 P      27 25.00    0.6
WR2      65.76 150 iPd    27 23.90   -0.8
         0.6s      5.80nm          4.9mb
                   i      27 29.80   19km
CDF      65.79 314 eP     27 24.60   -0.2
```

```
         0.9s      9.85nm          4.9mb
SOI      66.10 300 P      27 26.20   -0.6
BSF      66.38 313 eP     27 28.40   -0.3
         0.9s      8.20nm          4.9mb
HAU      66.53 314 eP     27 29.20   -0.3
      Z  19s       0.22um          4.4Msz
LPG      67.73 311 iPc    27 37.70    0.2
         0.9s     18.85nm          5.2mb
LPL      67.73 311 iPc    27 37.60    0.2
         0.9s     19.65nm          5.2mb
BNI      68.03 311 P      27 39.30    0.1
PGF      68.08 308 iPc    27 39.80    0.3
         0.9s     37.65nm          5.5mb
SBF      68.27 309 eP     27 40.30   -0.3
         0.7s     28.65nm          5.5mb
LOR      68.33 314 iPc    27 40.00   -0.9
         0.9s     11.45nm          5.0mb
      Z  19s       0.20um          4.4Msz
LBF      68.43 314 eP     27 40.70   -0.8
OIS      68.47 145 eP     27 46.00    4.1X
                   e      34 20.00
SSF      68.65 314 iPc    27 42.20   -0.6
         0.9s      6.55nm          4.8mb
SMF      68.71 314 iPc    27 42.70   -0.5
         0.8s     14.80nm          5.2mb
AVF      68.89 314 iPc    27 43.90   -0.4
         0.8s      9.40nm          5.0mb
ASPA     68.97 152 iPd    27 45.00    0.0
         0.5s     13.90nm          5.3mb
                   i      27 51.00   19km
LMR      69.12 309 eP     27 45.30   -0.5
         0.9s     13.10nm          5.1mb
LRG      69.14 310 eP     27 46.00    0.1
      Z  19s       0.22um          4.4Msz
BGF      69.31 314 eP     27 46.60   -0.3
MAF      69.67 314 iPc    27 49.20    0.1
         0.9s     17.20nm          5.2mb
LDF      69.67 317 eP     27 48.60   -0.4
FLN      69.76 317 iPc    27 48.90   -0.6
         0.9s     13.10nm          5.1mb
      Z  20s       0.73um          4.9Msz
TCF      69.83 314 eP     27 50.00   -0.1
         0.9s     10.65nm          5.0mb
GRR      70.18 317 iPc    27 51.90   -0.2
         0.5s      7.30nm          5.1mb
LPF      70.50 317 eP     27 54.20    0.1
CAF      70.74 313 eP     27 56.20    0.6
         1.1s     12.20nm          4.9mb
RJF      70.81 313 iPc    27 56.30    0.2
         0.8s      6.70nm          4.8mb
      Z  21s       0.22um          4.4Msz
MFF      70.92 315 iPc    27 57.00    0.3
         0.9s     22.95nm          5.3mb
CTAO     71.19 139 e(P)   27 53.00   -5.5X
LPO      71.38 313 iPc    27 59.70    0.2
LFF      71.47 313 iPc    28 00.70    0.7
         0.6s      7.20nm          4.9mb
EPF      72.89 312 eP     28 08.20   -0.3
         0.8s      4.05nm          4.5mb
OLP      75.77 144 iPc    28 32.40    7.3X
TOL      77.44 312 iPc    28 35.20    0.7
         1.1s     37.97nm          5.3mb
RMO      77.80 141 eP     28 54.20   17.8X
STK      79.28 149 iPc    28 51.30    6.9X
         0.4s      9.30nm          5.2mb
FFC      82.68  15 eP     29 02.00   -0.2
         0.8s     11.00nm          5.0mb
COO      82.72 141 eP     29 04.20    1.6
DZM      84.25 125 iPc    29 19.00    8.3X
BWA      84.33 145 eP     29 12.70    2.0
                   e      29 18.60   19km
CAN      85.34 145 eP     29 22.50    6.7X
MTD      88.59 247 iPd    29 30.40   -1.6
ORV      89.99  34 P      29 45.20    6.8X
                   pP     29 51.80   21km
BUL      92.93 246 iPc    29 50.50   -1.7
         1.0s     10.00nm          5 2mb
SIV     153.65 329 PKPc   36 37.00    7.7X
ZOBO    155.45 344 ePKP   36 39.00    5.8X
LPB     155.70 344 (PKP)  36 31.00   -2.4
CNCB    155.95 343 PKP    36 42.00    8.1X
        S.D. = 0.9  on 127 of 143 obs.
----------------------------------------
? SEP 14, 1991  14h 02m 29.21±13.49s
  31.987 S ±94.7km   71.796 W ±55.5km
  DEPTH =  33.0km  (normal)
NEAR COAST OF CENTRAL CHILE        (135)
```

```
ROCH     1.18 146 iP     02 49.00   -0.7
                  iS     03 03.20
JACH     1.23 125 iP     02 50.40    0.1
                  iS     03 05.40
PEL      1.49 141 iP     02 54.00    0.1
                  iS     03 11.80
LCCH     1.50 173 iP     02 54.00    0.0
                  iS     03 11.90
TACH     1.81 157 iP     02 58.90    0.3
                  iS     03 20.50
PCH      1.95 147 iP     03 00.80    0.0
LNV      1.99 171 eP     03 01.00   -0.2
                  iS     03 24.80
CHCH     2.17 154 iP     03 04.20    0.5
                  iS     03 30.00
      S.D. = 0.4  on  8 of  8 obs.
----------------------------------------
  SEP 14, 1991  14h 14m 41.98± 0.32s
  39.136 S ± 5.6km  174.236 E ± 8.2km
  DEPTH = 588.4 ±  5.0 km
  5.0mb (  5 obs.)
NORTH ISLAND, NEW ZEALAND          (159)

NRZ      0.31 229 P      15 52.10    0.9
MOZ      0.77  35 P      15 51.70   -0.1
                  S      16 47.90
BSZ      0.85 141 P      15 52.30    0.4
RUZ      0.86  90 Pd     15 51.70   -0.3
                  S      16 45.00
CNZ      1.02  94 Pc     15 52.20   -0.2
NGZ      1.06  93 P      15 52.40   -0.2
WLZ      1.67  40 P      15 54.00   -0.2
                  S      16 51.80
DIW      1.68 188 P      15 54.40    0.2
WAHZ     1.74 110 iPd    15 54.40    0.0
MNG      1.76 147 iPd    15 54.90    0.5
                  S      16 51.50
WHH      1.78  83 Pc     15 53.60   -1.0
KIW      1.80 163 iPd    15 55.20    0.6
TTH      2.05 102 P      15 56.10    0.5
CAW      2.07 162 iPd    15 56.30    0.7
TCW      2.08 179 iPd    15 56.40    0.8
MRW      2.12 170 iPd    15 56.50    0.7
                  S      16 55.40
PGZ      2.16 134 iPd    15 56.30    0.0
TEHZ     2.17 114 iPc    15 56.40    0.0
WEL      2.19 169 P      15 56.80    0.4
                  S      16 56.30
WDW      2.21 165 iPd    15 56.80    0.3
PAHZ     2.21  84 P      15 55.70   -0.9
MTW      2.24 155 iPd    15 56.90    0.2
MOH      2.26  91 Pc     15 56.50   -0.3
BHW      2.32 168 P      15 57.40    0.4
MOW      2.41 162 Pd     15 57.80    0.3
URZ      2.41  70 P      15 55.70   -1.7
                  S      16 53.10
BLW      2.42 157 Pd     15 57.90    0.4
AMW      2.46 152 P      15 58.20    0.5
CCW      2.61 180 Pd     15 59.40    0.9
KUZ      2.66  27 P      15 58.20   -0.5
THZ      2.81 201 Pd     15 59.70    0.1
                  S      17 01.10
NOZ      3.01  81 P      15 59.80   -0.8
WCZ      3.19   2 Pd     16 02.70    1.0
DSZ      3.20 215 Pd     16 01.70   -0.1
KHZ      3.32 189 iPd    16 02.90    0.4
                  S      17 08.00
HBZ      3.54  66 P      16 02.30   -1.6
LTZ      3.94 202 P      16 06.70    0.1
                  S      17 13.80
MOZ      4.72 194 Pd     16 12.90    0.6
WVZ      4.74 213 P      16 12.10   -0.4
                  S      17 22.70
EWZ      5.06 209 Pc     16 14.80   -0.2
BWZ      6.29 210 Pc     16 24.90   -0.6
ODZ      6.48 203 Pd     16 27.80    0.6
MSCZ     6.95 210 P      16 31.20   -0.4
LRCZ     6.95 210 P      16 30.90   -0.8
MHZ      6.97 210 P      16 31.50   -0.4
LSCZ     6.98 210 P      16 31.30   -0.6
SBCZ     6.99 210 P      16 31.40   -0.5
CMCZ     7.05 210 P      16 32.10   -0.4
                  S      17 59.90
TLC      7.16 211 P      16 33.60   -0.1
MSZ      7.26 218 P      16 33.60   -0.8
                  S      18 02.80
TUZ      7.61 205 P      16 38.50    0.8
```

```
BCZ      8.33 212 P      16 44.80   0.3
SIZ      8.93 208 P      16 51.10   0.8
DZM     18.27 336 iPc    18 22.10   0.5
OLP     28.00 288 iPd    19 49.40   0.8
        0.4s    16.00nm          5.0mb
ASPA    37.39 282 iPd    21 07.40   0.1
        0.3s    24.70nm          5.3mb
                  iS     26 13.40
FORR    38.35 268 eP     21 15.50   0.5
        0.2s     3.00nm          4.5mb
WR2     39.22 287 iPc    21 21.70  -0.5
        0.3s    32.40nm          5.4mb
                  iS     26 42.20
WARB    41.66 273 eP     21 41.00  -0.5
MTN     46.16 292 iPc    22 15.30  -1.2
MBL     49.60 275 eP     22 40.50  -1.7
SPA     51.05 180 iPc    22 50.30  -2.3
        0.6s    16.26nm          4.6mb
KEV    144.78 341 ePKP   33 09.00  -3.6X
SOD    146.49 338 ePKP   33 18.00   2.6
KAF    149.84 330 ePKP   33 22.60   1.8
        0.4s     4.30nm
NUR    151.42 328 iPKP   33 26.60   3.4X
     S.D. = 0.8  on  64 of  66 obs.
-------------------------------------
%  SEP  14, 1991  14h 58m 48.12± 0.77s
   42.396 N ± 7.7km   13.047 E ± 6.7km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                    (381)

AQU      0.27  99 P      58 53.60  -0.2
                 eSg     58 57.80
MNS      0.27 268 P      58 53.80  -0.1
                 eSg     58 58.40
ASS      0.73 337 P      59 02.50   0.0
                 eSg     59 13.90
SDI      0.90 140 P      59 05.50   0.2
                 eSg     59 17.50
ARV      1.11 356 P      59 09.00   0.1
                 eSg     59 24.50
     S.D. = 0.2   on   5 of   5 obs.
-------------------------------------
&  SEP  14, 1991  15h 19m 24.10s
   61.484 N          139.898 W
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN YUKON TERRITORY, CANADA( 18)
      <PGC>. ML 4.0 (PGC), 4.5 (PMR).

CTGM     0.87 234 iP     19 37.42  -3.5
                 eS     19 48.52
HYT      1.34 119 Pc     19 47.70  -1.1
YAH      1.44 220 eP     19 48.17  -2.3
BCPM     1.54 175 iP     19 50.75  -0.9
TGL      1.60 244 iP     19 50.35  -2.2
                 eS     20 10.07
CROM     1.73 247 iP     19 52.26  -2.4
                 eS     20 13.47
WAX      1.78 236 iP     19 53.43  -1.7
                 eS     20 15.23
WRG      1.79 217 eP     19 55.91   0.6
PNL      1.84 172 iP     19 56.13   0.2
GLB      1.88 270 eP     19 55.35  -1.2
                 eS     20 16.95
CYK      1.89 223 eP     19 57.31   0.6
YKU      1.94 177 eP     19 59.60   2.2
SNH      1.95 229 eP     19 56.90  -0.7
HON      2.10 166 iP     19 59.51  -0.2
TMW      2.34 323 eP     20 02.31  -1.0
HMT      2.42 244 eP     20 02.99  -1.4
WHC      2.45 106 P      20 03.60  -1.2
RAGM     2.58 247 eP     20 03.02  -3.6
DWY      2.59   5 P      20 06.60  -0.1
PLBC     2.68 138 P      20 08.00  -0.1
TZL      2.69 285 eP     20 07.93  -0.2
KAIM     2.72 237 eP     20 03.78  -4.8
SGAM     2.77 251 iP     20 09.72   0.4
SDG      2.86 294 eP     20 10.64   0.0
KLU      2.89 273 eP     20 11.75   0.7
CVA      3.00 254 eP     20 13.38   0.9
PAX      3.00 302 eP     20 11.90  -0.8
TOA      3.04 285 eP     20 15.40   2.2
VLZ      3.12 266 eP     20 13.65  -0.6
VZW      3.24 265 eP     20 15.58  -0.5
FID      3.28 260 eP     20 17.11   0.6
GLI      3.54 263 eP     20 19.45  -0.7
KNK      4.11 273 eP     20 27.79  -0.5
GHO      4 32 278 eP     20 30.71  -0.6

HDA      4.36 315 eP     20 29.30  -2.5
PLRM     4.42 275 eP     20 33.67   1.0
PMR      4.42 275 eP     20 34.70   2.0
RND      4.58 299 eP     20 36.68   1.6
PMS      4.66 271 eP     20 36.10   0.0
PWA      4.78 276 eP     20 39.10   1.4
HUR      4.80 292 eP     20 38.82   0.7
GLM      4.88 319 eP     20 36.54  -2.8
FBA      4.95 317 eP     20 36.50  -3.7
SIT      5.02 150 eP     20 45.00   3.8
SLKM     5.12 264 eP     20 40.29  -2.4
MDM      5.13 316 eP     20 39.57  -3.2
SKT      5.55 280 eP     20 47.90  -0.9
FYU      5.61 338 eP     20 48.65  -0.9
INK      7.36  19 P      21 12.00  -2.1
        0.5s    22.70nm          5.6mb X
KDC      7.40 245 eP     21 15.30   0.6
SVW      7.58 274 eP     21 16.00  -1.3
IMA      7.63 313 e(P)   21 19.20   1.1
LON     18.07 137 eP     23 38.40   1.8
NEW     18.49 125 eP     23 43.00   1.2
BW06    26.02 122 eP     25 03.00   4.0
MSU     28.68 130 eP     25 24.00   0.8
ANMO    33.98 126 eP     26 10.50   0.7
        57 obs. associated
-------------------------------------
*  SEP  14, 1991  16h 19m 41.76± 0.94s
    4.474 S ±11.5km  135.068 E ± 9.3km
    DEPTH =  33.0km  (normal)
    4.5mb (  4 obs.)
 IRIAN JAYA REGION, INDONESIA     (196)

JAY      5.95  71 ePd    21 10.40   0.4
AAI      6.90 276 eP     21 23.50   0.2
MTN      9.18 205 eP     21 56.10   1.1
        0.4s   208.00nm          6.7mb X
                  eS     23 35.00
PMG     12.96 113 eP     22 45.00  -1.3
WR2     15.40 182 eP     23 16.80  -1.5
        0.3s     7.30nm          4.4mb
                  eS     25 57.00
OIS     16.58 165 eP     23 32.00  -1.5
                  eS     26 30.00
CTA     18.96 146 iPc    24 04.60   1.6
        1.0s    20.00nm          4.3mb
                  ipP    24 26.90
                  e(S)   27 24.00
CTAO    18.96 146 iPc    24 04.60   1.6
        1.0s    40.00nm          4.6mb
                  ipP    24 16.90
                  e(S)   27 24.00
ASPA    19.11 183 iPd    24 07.80   2.9X
        0.5s    38.00nm          4.9mb
                  eS     27 29.60
WAR8    23.05 200 eP     24 49.00   3.7X
                  eS     29 04.00
CHG     42.44 304 eP     27 35.00  -0.5
CNC8   148.92 133 PKP    39 36.00  10.6X
LPB    149.01 133 (PKP)  39 35.00   9.6X
ZOBO   149.16 132 ePKP   39 38.00  12.2X
     S.D. = 1.5  on   9 of  14 obs.
-------------------------------------
&  SEP  14, 1991  16h 49m 55.07s
   59.724 N          153.515 W
   DEPTH = 127.4km
 SOUTHERN ALASKA                  (  2)
      <AEIC>.

OPT      0.16 116 iP     50 11.92   0.7
AUW      0.36 176 eP     50 12.40   0.6
AUH      0.36 174 eP     50 12.94  -0.5
AUP      0.37 172 eP     50 12.94  -0.6
AUI      0.39 173 eP     50 12.70  -0.8
INW      0.40  29 eP     50 12.43  -1.3
RED      0.79  28 eP     50 15.37  -0.9
CDD      0.80 185 eP     50 15.01  -1.3
RSO      0.83  27 eP     50 16.05  -0.7
RDW      0.84  25 eP     50 15.80  -1.0
                  eS     50 31.46
REF      0.87  28 eP     50 16.19  -0.9
                  eS     50 32.54
RDN      0.88  25 eP     50 16.38  -0.7
                  eS     50 32.08
HOM      0.95  93 eP     50 16.93  -0.6
                  eS     50 34.03
NNL      1.16  73 eP     50 19.60  -0.1
CNPM     1 18  99 eP     50 18.64  -1.2

                  eS     50 37.15
SYI      1.26 152 eP     50 19.66  -1.0
                  S      50 38.09
CKL      1.59  21 eP     50 23.85  -0.6
SPU      1.63  26 eP     50 23.67  -1.3
BGL      1.64  19 eP     50 24.39  -0.7
SVW      1.74 324 eP     50 24.58  -1.6
CGLM     1.76  24 eP     50 25.72  -0.7
SLKM     1.83  63 eP     50 26.61  -0.6
SEW      2.08  78 eP     50 29.19  -1.1
SUA      2.22  37 iP     50 31.85  -0.3
SKT      2.46  22 eP     50 34.56  -0.7
PMS      2.48  50 eP     50 34.53  -1.0
PWA      2.63  41 eP     50 37.47   0.1
PLRM     2.86  47 eP     50 38.47  -1.9
LTI      2.87  81 iP     50 39.36  -1.2
KNK      3.02  54 eP     50 40.06  -2.4
GHO      3.05  46 eP     50 40.97  -2.0
CUT      3.12  29 eP     50 42.99  -0.8
FID      3.66  71 eP     50 48.36  -2.6
VZW      3.71  66 eP     50 50.57  -1.1
VLZ      3.83  65 eP     50 52.15  -1.1
KLU      4.14  61 eP     50 55.39  -2.2
       36 obs. associated
-------------------------------------
&  SEP  14, 1991  17h 33m 43.83s
   57.805 N          138.297 W
   DEPTH =  10.0km  (geophysicist)
 OFF COAST OF SOUTHEASTERN ALASKA( 20)
      <AEIC>. ML 2.5 (AEIC).

HON      1.68 350 eP     34 08.12  -5.3
                  S      34 29.52
SIT      1.77 114 eP     34 11.21  -3.5
                  eS     34 30.49
PNL      1.96 343 eP     34 12.78  -4.6
                  S      34 38.60
BCPM     2.26 343 eP     34 17.07  -4.8
                  eS     34 46.63
YAH      3.12 327 eP     34 29.32  -4.9
KLU      5.35 317 eP     35 03.26  -2.4
       6 obs. associated
-------------------------------------
&  SEP  14, 1991  17h 54m 30.60s
   34.020 N          118.110 W
   DEPTH =  10.0km
 SOUTHERN CALIFORNIA              ( 43)
      <PAS-P>. ML 3.3 (PAS). Felt (IV)
      at Bell, Cudahy and Pico Rivera.
      Also felt at Downey and
      Montbello.

MWC      0.21  12 iPd    54 35.00  -0.2
SSK      0.39  61 eP     54 38.00  -0.7
CIS      0.66 202 eP     54 42.80  -0.9
SBB      0.71  19 iPd    54 43.50  -1.1
PEC      0.80  99 iPc    54 45.00  -1.2
SCI      1.10 200 ePd    54 49.90  -1.3
PLM      1.24 122 eP     54 52.00  -1.7
ABL      1.24 312 eP     54 52.40  -1.3
BCH      2.00 306 eP     55 04.40  -0.5
PHAM     2.61 315 eP     55 12.50  -1.1
8ONR     3.93 358 e(P)   55 35.00   2.4
       11 obs. associated
-------------------------------------
   SEP  14, 1991  18h 58m 25.85± 1.03s
   38.264 N ± 9.4km   26.726 E ± 7.4km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                       (365)
      ML 3.5 (ATH).

IZM      0.44  72 iPg    58 35.20   0.3
                 eSg     58 42.70
PRK      1.04 340 ePn    58 44.30  -1.2
CIN      1.26 121 iPc    58 48.00  -1.3
EZN      1.59 349 ePn    58 54.40   0.3
EDC      2.26  23 ePn    59 04.50   0.7
ATH      2.39 264 ePn    59 07.00   1.3
IZI      2.97  45 ePn    59 14.50   0.5
RDO      3.02 343 iPnc   59 12.50  -2.0
YLV      3.08  41 ePn    59 16.20   0.7
NPS      3.13 197 ePnc   59 23.30   7.2X
DMK      3.64  12 ePn    59 24.00   0.6
     S.D. = 1.3  on  10 of  11 obs.
-------------------------------------
&  SEP  14, 1991  19h 00m 00.05s
   37.226 N          116.428 W
```

14d 19h

DEPTH = 0.0km
5.5mb (75 obs.) 4.2Msz (7 obs.)
SOUTHERN NEVADA (41)
<DOE>. ML 5.3 (BRK). 37' 13' 32.30" N., 116' 25' 41.27" W., Surfoce Elev. 1979 m., Depth of Buriol 658 m., Shot Time 190000.049, "HOYA," Nevodo Test Site (Dept. of Energy).

BONR 1.66 297 iPc 00 30.80 0.0
CLC 1.69 214 iPc 00 30.70 -0.4
GSC 1.94 189 iPc 00 34.20 -0.6
KVN 2.25 325 iPc 00 39.00 -0.3
ISA 2.27 227 iPc 00 39.30 -0.2
FRI 2.63 266 iPc 00 44.28 -0.3
e 01 12.40
SBB 2.77 205 iPc 00 45.80 -0.9
TPC 3.13 174 iPc 00 50.70 -0.9
SSK 3.18 199 iPc 00 52.20 -0.3
CMB 3.24 286 iPc 00 52.68 -0.6
MWC 3.28 204 ePc 00 53.60 -0.3
ABL 3.28 225 eP 00 53.30 -0.6
RVR 3.32 194 iPc 00 53.90 -0.4
PEC 3.38 190 iPc 00 55.00 -0.2
PAS 3.38 205 iPc 00 55.10 -0.1
PHAM 3.49 248 eP 00 56.20 -0.5
HAY 3.57 169 ePd 00 56.80 -1.1
PRI 3.57 254 iPc 00 57.45 -0.6
BCH 3.59 237 iPc 00 57.90 -0.4
MSU 3.60 68 iP 00 58.00 -0.6
PLM 3.88 185 iPc 01 02.00 -0.5
SAO 4.04 265 iPc 01 03.49 -1.1
PRS 4.07 259 iPc 01 03.89 -1.0
eS 01 30.20
DUG 4.10 43 eP 01 04.20 -1.3
CIS 4.14 204 ePc 01 05.00 -0.9
GLA 4.37 162 iPc 01 07.90 -1.3
GCC 4.45 269 eP 01 15.24 4.8
SCI 4.58 203 ePc 01 11.40 -0.8
ORV 4.61 302 iPc 01 11.65 -1.0
BKS 4.66 280 iPnc 01 12.30 -1.1
iPbc 01 22.90
ZSP 4.68 281 iPd 01 13.17 -0.5
PCC 4.75 275 iPc 01 13.37 -1.3
MIN 5.10 309 ePd 01 19.49 -0.3
DAU 5.14 50 eP 01 20.80 0.3
WDC 5.83 307 iPc 01 28.43 -1 4
PTI 6.44 28 eP 01 37.50 -1.2
BW06 7.65 41 iPc 01 55.50 -0.2
ANMO 8.39 103 ePc 02 04.00 -2.0
GOL 9.02 71 eP 02 14.20 -0.6
LRM 9.09 18 ePc 02 17.10 1.4
GLD 9.14 71 eP 02 16.50 0.1
SHW 9.95 336 eP 02 29.00 1.5
BMW 10.54 333 eP 02 36.00 0.5
NEW 11.04 358 eP 02 43.00 0.6
RSSD 11.65 50 eP 02 48.00 -2.9
PNT 12.30 350 P 03 00.00 0.6
1.0s 4.60nm 4.7mb
PGC 12.52 338 eP 03 03.00 0.8
ACO 13.83 87 iPc 03 20.50 0.7
MEO 14.65 94 iPc 03 31.80 1.3
SIO 16.25 89 eP 03 51.60 0.3
TUL 16.63 88 ePc 03 55.20 -1.0
1.0s 158.90nm 5.1mb
Z 20s 0.32um 4.6Msz
N 20s 0.32um
E 20s 0.47um
e 05 10.30
eLg 08 44.50
LR 09 47 00
UYO 18.10 93 iPc 04 14.00 -0.5
FFC 20.11 25 iPc 04 36.00 -2.1
1.0s 552.00nm 5.8mb
OLY 20.16 87 eP 04 37.30 -1.5
FVM 20.60 80 eP 04 42.20 -1.2
1.0s 230.00nm 5.5mb
ELC 21.63 82 ePc 04 53.20 -0.7
PWLA 22.99 87 eP 05 08.00 0.6
IIA 23.79 134 iP 05 18.20 2.9
PPM 23.88 134 (P) 05 29.00 12.3
III 23.96 137 (P) 05 17.30 0.1
IIT 24.10 134 (P) 05 21.00 2.5
IISM 24.67 132 eP 05 27.20 3.5
YKA 25.32 2 eP 05 28.10 -1.5
1.0s 31 70nm 5.0mb

GBTN 25.90 84 eP 05 34.70 -0.7
TKL 26.25 83 eP 05 38.00 -0.6
NAV 28.26 79 eP 05 56.00 -1.0
BLA 28.57 79 eP 05 59.00 -0.8
0.8s 27.18nm 5.1mb
CVL 29.95 77 eP 06 11.10 -1.0
CBN 30.76 76 iP 06 18.90 -0.3
1.0s 41.00nm 5.3mb
TOA 30.96 333 eP 06 22.10 1.3
PMS 31.73 330 eP 06 28.30 0.7
PMR 31.76 331 eP 06 28.40 0.6
1.1s 70.10nm 5.5mb
LVNJ 32.35 71 eP 06 31.70 -1.5
INK 32.56 348 ePc 06 33.00 -1.6
1.0s 31.00nm 5.2mb
GMTN 32.78 70 iP 06 35.20 -1.7
PNJ 32.80 70 iP 06 35.70 -1.3
FBA 33.33 336 eP 06 41.30 -0.1
SVW 34.21 327 eP 06 49.20 0.0
SDN 34.71 316 eP 06 53.70 0.3
TTA 35.21 330 eP 06 57.60 -0.1
1.0s 30.00nm 5.1mb
IMA 35.99 335 ePc 07 04.60 0.2
1.4s 75.50nm 5.3mb
MIM 36.09 62 eP 07 04.00 -1.3
SCH 37.78 46 ePc 07 17.10 -2.3
1.0s 46.00nm 5.2mb
FRB 38.96 32 ePc 07 28.40 -0.7
0.7s 69.00nm 5.4mb
MBC 39.13 359 ePc 07 30.10 -0.4
0.9s 48.00nm 5.1mb
HOBC 49.27 122 ePc 08 51.26 -1.6
CLMC 49.32 123 ePc 08 52.26 -1.1
ANCC 49.39 123 ePc 08 52.29 -1.4
HOOC 49.58 123 eP 08 53.82 -1.6
SDV 50.03 112 eP 08 57.80 -1.0
TOV 50.06 111 iPc 08 59.00 0.1
PURC 50.61 124 ePc 09 02.67 -0.9
CUMC 50.64 126 eP 09 03.68 -0.1
TPT 59.66 215 iP 10 08.40 -0.1
1.1s 20.00nm 5.2mb
RUV 59.73 215 iP 10 08.90 -0.1
1.1s 40.00nm 5.5mb
VAH 59.89 215 iP 10 10.00 -0.1
1.1s 30.00nm 5.3mb
NNA 61.47 135 eP 10 19.00 -2.0
1.1s 18.99nm 5.2mb
ARE 68.13 133 eP 11 04.00 -0.5
ZOBO 69.99 130 iPc 11 14.20 -2.1
1.0s 30.00nm 5.4mb
Z 24s 0.08um 3.9MszX
LR 36 04.00
KEV 70.03 13 eP 11 12.00 -3.1
LPB 70.20 130 P 11 16.20 -1.2
1.0s 60.00nm 5.7mb
CNCB 70 49 130 P 11 18.00 -1.3
EKA 71.69 34 Pd 11 23.20 -2.2
1.1s 26.50nm 5.3mb
SOD 72.03 14 iP 11 24.80 -2.5
CCH 72.05 129 eP 11 27.00 -1.4
NAO 73.24 24 P 11 32.60 -1.9
0.8s 17.60nm 5.2mb
SIV 74.25 125 iPc 11 39.40 -1.6
HFS 74.69 23 eP 11 40.70 -2.2
Z 16s 0.10um 4.2MszX
LR 40 52.00
UPP 76.12 22 iP 11 49.10 -1.9
KAF 76.53 17 iP 11 50.80 -2.5
0.7s 13.60nm 5.2mb
FLN 77.26 38 iPc 11 56.50 -1.1
1.2s 101.15nm 5.8mb
Z 19s 0.08um 4.0Msz
GRR 77.33 38 iPc 11 57.00 -1.0
1.2s 77.35nm 5.7mb
LPF 77.48 38 iPc 11 57.70 -1.1
1.0s 66.00nm 5.7mb
NUR 77.52 19 iP 11 56.70 -2.1
1.0s 32.00nm 5.4mb
LDF 77.55 38 iPc 11 58.10 -1.1
1.2s 80.35nm 5.7mb
WIT 77.64 31 eP 12 00.00 0.4
UCC 78.10 34 P 12 00.90 -1.3
SNF 78.27 34 iPc 12 01.83 -1.3
WTS 78.29 32 eP 12 03.00 -0.2
1 0s 40.00nm 5.5mb
DOMF 78.35 35 P 12 02.40 -1.2
DOU 78.70 34 Pc 12 04.30 -1.2

1.1s 146.10nm 6.0mb
ENN 78.81 33 iPc 12 05.40 -0.7
0.9s 54.00nm 5.6mb
MFF 78.90 39 iPc 12 05.70 -1.0
1.1s 65.95nm 5.6mb
MEM 78.96 33 iPc 12 05.92 -1.0
MDJ 79.05 318 eP 12 06.00 -1.5
BNS 79.21 32 ePc 12 07.00 -1.2
1.2s 60.00nm 5.5mb
MAT 79.23 308 iPc 12 07.40 -1.3
1.2s 75.00nm 5.6mb
WLF 79.71 34 iPc 12 10.55 -0.4
LSF 79.98 38 iPc 12 11.10 -1.4
1.1s 39.05nm 5.3mb
GRC 80.00 37 P 12 11.36 -1.2
EPLA 80.03 47 eP 12 11.32 -1.6
TCF 80.29 38 iPc 12 12.80 -1.4
0.9s 40.95nm 5.4mb
ECRI 80.36 43 iPd 12 13.96 -0.8
SSF 80.37 37 iPc 12 13.50 -1.1
1.2s 89.25nm 5.6mb
LOR 80.39 37 iPc 12 13.80 -0.9
1.1s 133.55nm 5.8mb
Z 19s 0.10um 4.2Msz
BGF 80.41 38 iPc 12 13.60 -1.2
0.9s 56.50nm 5.5mb
AVF 80.49 37 iPc 12 13.70 -1.5
1.2s 74.40nm 5.5mb
LFF 80.49 40 iPc 12 14.50 -0.8
1.1s 73.25nm 5.6mb
MAF 80.51 38 iPc 12 14.20 -1.2
1.3s 57.75nm 5.4mb
RJF 80.63 39 iPc 12 14.70 -1.3
1.2s 71.40nm 5.5mb
Z 19s 0.08um 4.1Msz
LBF 80.65 37 iPc 12 14.90 -1.3
1.2s 72.90nm 5.5mb
VITF 80.70 35 P 12 15 16 -1.2
GUD 80.76 46 iPc 12 15.69 -1.3
SMF 80.83 37 iPc 12 15.50 -1.6
1.0s 58.00nm 5.5mb
GWF 80.87 34 P 12 16.09 -1.2
LPO 80.90 40 iPc 12 16.50 -0.9
1.0s 42.00nm 5.4mb
AGO 80.91 38 P 12 15.74 -1.8
HAU 81.02 35 iPc 12 17.00 -1.0
1.1s 83.05nm 5.7mb
Z 20s 0.13um 4.3Msz
PYM 81.06 38 P 12 16.62 -1.8
CDF 81.14 34 P 12 17.46 -1.3
CAF 81.17 39 iPc 12 17.80 -1.1
0.9s 54.05nm 5.6mb
PLDF 81.20 38 P 12 17.59 -1.5
ECH 81.23 34 P 12 17.81 -1.3
EVAL 81.24 49 eP 12 17.74 -1.6
BTH 81.25 42 Pd 12 18.00 -1.3
i(PcP)12 22.00
e 12 49.00
MOX 81.30 30 iPd 12 18.90 -0.5
1.2s 37.00nm 5.3mb
TOL 81.32 46 iPc 12 18.50 -1.3
1.2s 93.75nm 5.7mb
CLL 81.33 29 iPc 12 18.20 -1.4
1.3s 49.00nm 5.4mb
BSF 81.35 35 P 12 18.82 -1.1
LIBD 81.48 34 P 12 19.34 -1.0
MOF 81.49 35 P 12 19.07 -1.5
LBL 81.55 38 P 12 19.88 -1.1
EPF 81.61 41 iPc 12 20.00 -1.3
1.2s 35.70nm 5.3mb
HOF 81.66 31 eP 12 20.20 -1.1
1.1s 27.00nm 5.3mb
LOMF 81.72 35 P 12 20.34 -1.4
ENSF 81.76 42 P 12 21.88 -0.3
CN2 81.78 320 P 12 20.40 -1.6
ETOR 81.82 44 eP 12 21.41 -1.1
EGRA 81.84 42 eP 12 23.43 1.1
FEL 81.87 34 P 12 21.03 -1.6
GRF 81.87 31 iPc 12 22.20 -0.2
1.2s 58.00nm 5.6mb
Z 20s 0.10um 4.2Msz
BBS 81.95 35 P 12 21.80 -1.1
PEL 81.98 143 eP 12 23.50 0.4
EHOR 81.98 48 eP 12 21.75 -1.5
BRG 82.04 29 iPc 12 21.90 -1.4
1.0s 40.00nm 5.5mb
i 12 31.50

LESF	82.10	41	P	12	22.96	-0.8
SSB	82.15	38	P	12	22.74	-1.3
SLE	82.16	34	ePd	12	23.30	-0.7
SAN	82.24	143	eP	12	25.00	0.5
LNV	82.29	144	eP	12	24.50	-0.1
ZLA	82.33	34	ePd	12	24.40	-0.5
GRBF	82.37	41	P	12	23.80	-1.4
PCH	82.45	143	eP	12	26.00	0.4
CHCH	82.64	143	eP	12	26.50	0.0
TRGS	82.83	41	P	12	26.96	-0.8
RSL	82.85	36	P	12	26.93	-0.9
DIX	82.93	36	ePd	12	28.20	-0.2
KSP	82.96	28	iPc	12	26.80	-1.3
PRU	82.98	29	Pc	12	27.20	-1.0
	1.2s	20.70nm			5.2mb	
		e		12	38.50	
WET	82.98	31	eP	12	27.20	-1.0
	1.3s	46.00nm			5.5mb	
LPL	83.03	36	iPc	12	28.50	-0.3
	1.1s	48.85nm			5.6mb	
BAO	83.03	115	eP	12	29.50	0.5
EVIA	83.05	46	eP	12	28.24	-0.7
LPG	83.05	36	iPc	12	28.70	-0.3
	1.1s	53.70nm			5.7mb	
LLS	83.06	34	ePd	12	28.80	-0.1
FUR	83.07	32	iPc	12	28.10	-0.6
	1.2s	74.00nm			5.8mb	
EROO	83.18	43	iPd	12	28.46	-0.9
MMK	83.21	35	ePd	12	30.00	0.2
EBR	83.23	43	eP	12	29.00	-0.6
KHC	83.27	30	iPc	12	29.00	-0.8
	1.2s	20.00nm			5.2mb	
		e		15	40.50	
LSD	83.27	36	P	12	29.70	-0.4
ECOG	83.34	48	eP	12	29.73	-0.7
BNI	83.35	37	P	12	39.20	8.9
AFC	83.37	48	eP	12	29.73	-0.9
ETER	83.44	41	eP	12	30.08	-0.6
RRL	83.50	37	P	12	30.93	-0.3
ORX	83.53	36	P	12	30.41	-0.8
RSP	83.55	36	P	12	30.93	-0.4
VDL	83.57	34	ePd	12	31.60	0.1
TMA	83.58	35	ePd	12	31.20	-0.4
AVE	83.61	53	iP	12	31.00	-0.7
EGUA	83.64	48	eP	12	31.25	-0.6
OSS	83.71	34	ePd	12	32.30	0.1
BHB	83.78	37	P	12	31.64	-0.8
CDR	83.92	38	ePd	12	32.50	-0.6
WTTA	83.92	33	iPc	12	32.40	-0.9
	1.2s	46.00nm			5.6mb	
		i		12	41.60	
		i		13	16.40	
PZZ	83.96	37	P	12	32.98	-0.5
DOI	84.03	37	P	12	42.00	8.3
BHG	84.09	32	eP	12	33.20	-0.7
	1.2s	41.00nm			5.5mb	
SNY	84.15	319	Pc	12	34.00	-0.2
	1.4s	80.00nm			5.8mb	
STV	84.26	37	P	12	33.08	-1.8
ENR	84.32	37	P	12	33.08	-2.1
KMR	84.35	31	iP+	12	34.20	-1.0
LRG	84.37	38	iPc	12	34.70	-0.7
	1.1s	36.65nm			5.5mb	
Z	19s	0.10um			4.2Msz	
FRF	84.44	38	iPc	12	34.80	-0.9
	1.2s	77.35nm			5.8mb	
ROB	84.48	37	P	12	34.51	-1.5
LMR	84.54	38	eP	12	35.30	-0.9
	1.1s	80.60nm			5.9mb	
SBF	84.59	37	iPc	12	35.20	-1.4
	0.8s	32.25nm			5.6mb	
PCP	84.61	36	P	12	34.92	-1.7
FIN	84.70	36	P	12	35.33	-1.8
IMI	84.78	37	P	12	35.64	-1.9
KBA	84.80	32	iPc	12	36.50	-1.2
	1.2s	30.10nm			5.4mb	
		i		12	40.60	
BOB	84.86	35	P	12	46.00	8.1
CTI	84.87	33	P	12	46.30	8.3
KRA	84.94	27	iPd	12	37.10	-1.0
	1.0s	74.00nm			5.9mb	
		e		12	45.90	
PPD	85.01	122	eP	12	39.00	0.2
		e		12	50.50	
OBN	85.18	15	iPc	12	37.40	-1.8
	1.1s	********	nm		8.5mb	X
		e		12	38.50	
		e		13	00.00	
TIO	85.25	55	iP	12	39.80	-0.4
ESEL	85.27	42	iPd	12	39.26	-0.7
ZST	85.42	29	eP	12	39.50	-1.0
SPC	85.78	27	iP	12	42.30	-0.3
PII	86.16	36	P	12	51.10	6.8
SRO	86.20	29	iP	12	43.70	-0.7
PGF	86.34	37	iPc	12	43.90	-1.5
	0.6s	7.20nm			5.0mb	
PGD	86.59	35	P	12	54.70	8.0
SFI	86.62	35	P	12	55.00	8.5
PSZ	86.71	28	eP	12	46.20	-0.8
VBY	86.85	32	eP	12	46.20	-1.5
DL2	87.29	318	eP	12	49.50	-0.4
ARV	87.44	34	P	12	58.60	8.0
ASS	87.65	35	P	12	58.50	6.9
VAO	88.62	120	(P)	12	54.00	-2.5
BJI	89.21	322	eP	12	58.00	-1.1
	1.0s	6.00nm			4.8mb	
BZS	89.29	28	eP	12	57.00	-2.3
HNR	90.61	259	e(P)	13	04.00	-1.9
HHC	90.73	326	eP	13	06.00	-0.3
	1.2s	60.00nm			5.8mb	
MLR	90.95	25	eP	13	06.00	-1.3
BTO	91.62	326	eP	13	09.20	-1.2
TIA	91.67	319	eP	13	10.00	-0.6
SKO	92.30	30	eP	13	11.00	-2.4
OHR	92.76	31	eP	13	14.00	-1.6
TIY	92.84	323	eP	13	15.50	-0.5
Z	18s	0.50um			5.0Msz	
SSE	93.28	313	Pc	13	18.00	0.0
	1.0s	20.00nm			5.5mb	
VAY	93.30	30	eP	13	16.70	-1.2
DZM	93.44	245	iPc	13	20.00	1.1
NJ2	93.89	316	Pc	13	20.70	-0.1
WMQ	96.41	343	eP	13	35.00	2.6
GTA	96.77	333	eP	13	33.80	-0.3
	1.2s	10.00nm			5.3mb	
XAN	97.48	323	P	13	36.00	-1.3
WR2	116.83	265	iPKPd	18	46.60	-2.0
	0.6s	5.70nm				
ASPA	119.13	261	iPKPc	18	50.50	-2.4
	1.2s	8.50nm				
SPA	127.04	180	iPKPc	19	06.50	-0.4
	1.1s	17.86nm				
GBA	127.79	343	PKPd	19	07.80	-1.8
	0.6s	3.50nm				
KRI	143.84	65	iPKPd	19	36.90	-2.7
CER	143.90	97	iPKPc	19	35.60	-3.5
	0.6s	8.57nm				
BUL	145.17	71	iPKPc	19	36.90	-4.9
	0.8s	31.72nm				
MTD	145.22	63	iPKPd	19	37.90	-3.9
KIM	146.57	87	iPKPc	19	43.50	-0.3
FRS	147.41	88	ePKP	19	44.50	-0.4
	1.1s	139.24nm				
		i		19	46.40	
HVD	147.88	90	iPKPc	19	34.70	-11.2
CIR	147.91	69	iPKPd	19	59.00	13.0
SEK	148.65	84	iPKPc	19	49.30	2.1
	0.7s	47.95nm				
MAW	149.57	179	ePKP	19	51.00	3.8
	1.0s	53.00nm				

283 obs. associoted

% SEP 14, 1991 19h 08m 47.82± 0.76s
40.648 N ± 5.6km 23.669 E ± 8.3km
DEPTH = 10.0km (geophysicist)
GREECE (364)

SOH	0.30	306	ePc	08	54.22	0.2
			eS	08	58.26	
OUR	0.39	143	ePc	08	56.06	0.2
			eS	09	02.34	
SRS	0.47	353	iPd	08	57.42	0.0
			eS	09	04.42	
PAIG	0.72	179	ePc	09	01.70	-0.3
KNT	0.78	312	ePd	09	02.74	-0.2
LIT	1.05	239	ePd	09	07.86	0.2

S.D. = 0.3 on 6 of 6 obs

? SEP 14, 1991 19h 34m 59.68± 1.68s
31.796 S ±26.6km 69.862 W ±21.7km
DEPTH = 110.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

ZON	1.04	76	iPc	35	21.50	-0.1
			eS	35	35.50	
JACH	1.08	215	iPc	35	22.90	0.8
			iS	35	40.90	
PEL	1.51	207	iPd	35	27.60	0.5
			iS	35	48.40	
ROCH	1.52	219	iPc	35	27.50	0.1
			iS	35	49.90	
SAN	1.79	202	(P)	35	25.70	-4.7X
			iS	35	54.20	
PCH	1.90	197	iPc	35	32.40	0.4
			iS	35	58.20	
TACH	2.06	206	iPc	35	34.00	0.0
			iS	36	00.60	
LCCH	2.21	220	iPd	35	35.60	-0.3
			iS	36	02.90	
CHCH	2.23	197	iPd	35	36.10	-0.1
			iS	36	04.80	
LNV	2.52	211	iPc	35	38.60	-1.3
			iS	36	09.20	

S.D. = 0.7 on 9 of 10 obs.

---

* SEP 14, 1991 19h 38m 16.76± 0.77s
29.102 N ± 8.2km 51.340 E ±10.4km
DEPTH = 33.0km (normol)
4.0mb (2 obs.)
SOUTHERN IRAN (353)

SHI	1.17	62	iPc	38	36.50	-0.5
			e(S)	38	56.00	
DHR	2.98	201	iPc	39	05.00	2.2
RYD	6.07	225	eP	39	48.00	1.3
IR5	6.13	354	eP	39	54.00	6.5X
IR4	6.13	357	eP	39	49.00	1.4
MJMA	6.27	240	eP	39	47.30	-2.2
IR1	6.32	355	eP	39	51.00	0.8
IR7	6.61	355	eP	39	55.50	1.2
QASM	7.55	248	eP	40	08.00	0.7
AFIF	8.84	238	eP	40	28.00	2.7X
MAIO	9.93	42	eP	40	44.00	3.6X
MSL	10.01	319	eP	40	40.50	-0.8
			e	42	25.50	
MLR	25.84	316	eP	43	51.00	4.1X
KKN	29.81	84	P	44	22.08	-1.2
CLL	36.14	319	e(P)	45	16.00	-1.6
HFS	40.03	332	eP	45	50.00	0.0
	0.4s	1.10nm			4.0mb	
SOD	41.08	346	eP	45	59.00	0.5
NAO	41.60	331	P	45	58.60	-4.3X
	0.9s	2.80nm			4.0mb	
CHTO	44.44	92	(P)	46	34.00	7.4X
TIC	57.51	259	(P)	48	03.80	-1.7

S.D. = 1.5 on 14 of 20 obs.

? SEP 14, 1991 20h 21m 45.79± 3.34s
32.521 S ±25.3km 71.227 W ±15.2km
DEPTH = 33.0km (normol)
NEAR COAST OF CENTRAL CHILE (135)

ROCH	0.49	158	iPd	21	56.50	0.1
			iS	22	04.80	
JACH	0.56	107	iPd	21	57.30	0.0
			iS	22	06.60	
PEL	0.77	144	iPd	22	00.40	0.1
			iS	22	11.40	
LCCH	0.99	197	iPd	22	03.70	0.3
			iS	22	17.00	
SAN	1.04	153	eP	22	04.50	0.3
			iS	22	18.10	
TACH	1.16	168	iPc	22	05.40	-0.3
			iS	22	20.70	
PCH	1.25	152	iPd	22	06.90	-0.2
			iS	22	23.90	
LNV	1.44	186	iPc	22	09.50	-0.3
			iS	22	28.50	
CHCH	1.49	161	iP	22	10.60	0.0
			iS	22	30.80	

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

SEP 14, 1991 20h 52m 57.71± 0.55s
32.787 N ± 6.1km 46.377 E ± 6.4km
DEPTH = 33.0km (normol)
4.0mb (1 obs.)
IRAN-IRAQ BORDER REGION (346)

BHD	1.74	287	ePnd	53	25.00	-1.1
			e	53	31.50	
			iSn	53	57.00	

14d 20h

			iS*	54 09.00		
			iSg	54 21.00		
SLY	2.90	346	ePn	53 44.00	1.5	
			ePg	54 20.00		
			eSn	55 05.50		
IR5	4.25	54	eP	54 02.00	0.1	
IR1	4.43	53	iPd	54 04.50	-0.1	
IR4	4.48	56	iPd	54 04.70	-0.5	
IR7	4.55	49	eP	54 05.50	-0.7	
TAB	5.27	360	eP	54 32.00	15.7X	
SHI	6.13	119	eP	54 29.00	0.5	
MJMA	6.97	188	iPc	54 40.00	-0.2	
OASM	7.12	201	eP	54 42.70	0.4	
HFS	34.77	332	eP	59 46.90	0.1	
	0.3s		0.60nm		4.0mb	
	S.D. = 0.8		on	10 of	11 obs.	

SEP 14, 1991 20h 57m 32.79± 0.35s
40.625 N ± 3.3km 22.934 E ± 2.9km
DEPTH = 5.0km (geophysicist)
GREECE (364)
MD 3.2 (ATH). ML 2.9 (SKO). Felt at Thessaloniki.

THE	0.02	74	iPc	57 34.82	0.9	
			eS	57 35.50		
SOH	0.37	58	iPc	57 40.82	0.5	
GRG	0.52	309	ePd	57 43.10	-0.2	
			eS	57 50.93		
KNT	0.54	357	iPc	57 43.74	0.2	
LIT	0.62	213	ePc	57 45.74	0.5	
			iS	57 54.42		
SRS	0.70	45	iPc	57 46.25	-0.6	
VAY	0.75	339	iPg	57 46.70	-1.0	
			i	57 54.60		
			iSg	57 56.20		
OUR	0.85	110	ePc	57 49.30	-0.3	
			eS	58 00.75		
PAIG	0.90	140	iPc	57 49.78	-0.7	
			iS	58 02.89		
KZN	0.94	251	ePd	57 51.20	-0.1	
FNA	1.19	278	ePd	57 54.86	-0.7	
KKB	1.25	5	iPg	57 56.00	-0.4	
			iSg	58 12.00		
AGG	1.67	196	iPd	58 02.70	-0.1	
			eS	58 25.39		
OHR	1.69	287	iPn	58 03.90	0.7	
RZN	1.71	51	iPg	58 04.00	0.4	
			eSg	58 27.00		
SKO	1.75	321	ePn	58 04.00	0.0	
			e	58 06.20		
			iSn	58 26.60		
VTS	1.98	6	iP	58 09.00	1.6	
			iPg	58 11.00		
			iS	58 37.00		
PLD	1.99	41	iP	58 09.00	1.6	
RDO	2.04	74	ePd	58 07.50	-0.7	
KDZ	2.14	61	iP	58 09.00	-0.6	
ALN	2.38	82	iPd	58 12.42	-0.7	
DIM	2.42	53	ePg	58 18.00	4.3X	
KEK	2.57	250	ePd	58 21.00	5.2X	
PVL	3.15	34	iPg	58 28.00	4.1X	
VRI	5.93	27	eP	59 03.00	-0.3	
	S.D = 0.8		on	22 of	25 obs.	

SEP 14, 1991 21h 00m 09.08± 0.29s
40.670 N ± 3.0km 22.952 E ± 2.8km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 3.8 (ATH), 3.4 (SKO). MD 3.4 (THE). Felt ot Thessaloniki.

THE	0.04	166	ePc	00 10.62	-0.5	
SOH	0.34	64	ePd	00 16.46	0.3	
KNT	0.49	355	ePd	00 19.42	0.3	
GRG	0.51	305	ePd	00 18.70	-0.7	
SRS	0.66	47	ePc	00 22.14	-0.1	
			eS	00 32.78		
LIT	0.67	212	ePc	00 21.50	-0.9	
			eS	00 29.90		
VAY	0.71	336	iPg	00 22.40	-0.7	
			iSg	00 32.30		
OUR	0.85	113	ePc	00 25.58	0.1	
PAIG	0.93	143	ePd	00 25.66	-1.1	
			eS	00 38.50		
KZN	0.97	248	ePg	00 27.20	-0.4	
MMB	1.09	32	iPg	00 29.00	-0.6	
			iSg	00 43.00		
KKB	1.20	5	iPg	00 31.00	-0.4	
			eSg	00 48.00		
FNA	1.20	276	ePc	00 32.02	0.5	
			eS	00 47.74		
RZN	1.68	52	iPg	00 39.00	0.3	
OHR	1.69	286	iPnd	00 39.10	0.2	
			iSn	01 01.80		
AGG	1.71	196	eP	00 38.10	-1.1	
SKO	1.73	319	iPn	00 39.70	0.4	
			iPg	00 41.70		
			iSn	01 02.50		
			iSg	01 03.90		
VTS	1.93	6	iP	00 43.00	0.6	
			iS	01 09.00		
			iSg	01 14.00		
PLD	1.95	42	iP	00 44.00	1.5	
			eS	01 10.00		
RDO	2.02	76	iPnd	00 43.40	-0.1	
KDZ	2.10	61	iP	00 44.00	-0.8	
DIM	2.38	54	ePg	00 53.00	4.2X	
KEK	2.60	249	ePn	00 53.00	1.2	
EZN	2.72	107	ePn	00 56.00	2.5	
ATH	2.76	167	ePn	00 54.00	-0.1	
PVL	3.10	34	iP	00 57.00	-1.9	
DMK	3.80	71	ePn	01 18.00	9.0X	
LCI	3.83	267	P	01 09.00	-0.3	
			eSn	01 51.00		
VLI	3.95	180	ePn	01 11.50	0.5	
BRT	4.37	275	P	01 16.00	-1.0	
			eSn	02 10.00		
BEO	4.54	337	ePn	01 33.00	13.7X	
MLR	5.29	23	eP	01 30.50	0.3	
MGR	5.67	267	P	01 37.00	1.5	
			eSn	02 38.50		
SGO	5.82	271	P	01 37.00	-0.4	
VRI	5.88	27	ePc	01 38.00	-0.3	
SOI	5.94	246	P	01 40.50	1.3	
	S.D. = 0.9		on	33 of	36 obs.	

SEP 14, 1991 21h 03m 02.16± 1.19s
1.950 N ± 5.7km 121.511 E ± 7.6km
DEPTH = 24.5 ± 8.5 km
4.8mb (16 obs.)
MINAHASSA PENINSULA, SULAWESI (265)

PCI	3.29	211	iPc	03 56.00	2.7	
			i(S)	04 25.20		
TSM	4.31	303	iPc	04 06.80	-1.1	
	0.2s		96.30nm			
DAV	6.52	38	eP	04 39.00	0.0	
KKM	6.67	308	ePc	04 41.30	0.1	
	0.5s		33.00nm		5.5mb	
BAG	14.40	356	eP	06 31.00	4.3X	
IPM	20.62	278	ePd	07 42.00	-0.5	
SNG	21.46	285	eP	07 51.40	0.4	
NANU	25.05	193	eP	08 25.50	-0.7	
NST	25.10	304	eP	08 28.10	1.4	
WR2	25.15	151	iPc	08 26.20	-1.0	
	0.8s		25.70nm		4.9mb	
			epP	08 39.60	55kmX	
			iPcP	10 01.80		
KHT	25.97	301	iPd	08 35.70	0.8	
BDT	26.84	306	eP	08 43.00	0.2	
	0.7s		21.50nm		4.9mb	
CHG	27.74	309	eP	08 50.70	-0.4	
	1.2s		17.97nm		4.7mb	
ASPA	28.17	155	iPc	08 53.70	-1.3	
	0.6s		12.70nm		4.8mb	
			e	12 07.80		
WARB	28.41	170	eP	08 56.00	-1.0	
	0.4s		3.00nm		4.4mb	
OIS	28.55	142	eP	08 58.00	-0.3	
	0.5s		8.00nm		4.7mb	
WHN	29.24	347	eP	09 07.50	3.1X	
MRWA	31.44	189	iPd	09 22.30	-1.6	
	0.6s		10.00nm		4.9mb	
BAL	32.70	188	eP	09 33.00	-1.9	
CD2	33.34	332	eP	09 39.40	-1.2	
XAN	34.02	341	eP	09 45.40	-1.1	
LZH	37.70	336	e(P)	10 25.00	7.2X	
	1.0s		13.00nm		4.7mb	
	Z 18s		0.25um		4.1Msz	
MAT	37.72	22	eP	10 16.00	-1.8	
	0.8s		11.19nm		4.7mb	
BJI	38.22	353	eP	10 22.00	0.2	
STK	38.67	152	eP	10 25.50	-0.2	
	0.6s		11.00nm		4.8mb	
LSA	39.92	317	P	10 35.60	-1.1	
GTA	42.20	335	P	10 56.20	1.2	
	0.8s		10.00nm		4.6mb	
MDJ	43.08	8	eP	11 01.50	-0.4	
KKN	43.12	310	P	11 02.58	-0.2	
	1.0s		43.00nm		5.2mb	
BWA	44.14	148	eP	11 12.50	1.9	
HYB	44.90	293	eP	11 16.70	-0.3	
GBA	45.09	287	Pd	11 18.70	0.2	
	1.3s		18.80nm		4.9mb	
CAN	45.12	148	eP	11 19.30	0.7	
WMO	51.36	329	P	12 07.50	0.5	
OUE	58.76	304	eP	13 00.20	-0.9	
MAIO	66.50	309	iPc	13 52.00	-0.4	
MAW	80.32	199	eP	15 13.00	0.6	
OBN	85.49	325	eP	15 39.00	-0.1	
	1.0s		21.00nm		5.3mb	
			e	15 39.50		
SPA	91.94	180	iPc	16 09.40	-0.4	
	0.8s		9.17nm		5.3mb	
BUL	93.38	250	iPc	16 16.20	-1.1	
KIC	125.71	279	(PKP)	22 03.20	-1.3	
TIC	125.95	280	(PKP)	22 03.90	-1.0	
LNV	145.94	161	ePKP	22 41.50	0.4	
CHCH	146.21	162	ePKPc	22 43.00	1.3	
TACH	146.38	161	ePKP	22 43.50	1.6	
PCH	146.54	162	iPKPc	22 44.40	2.1	
PEL	146.93	161	iPKPc	22 45.20	2.3	
	S.D. = 1.2		on	44 of	47 obs.	

• SEP 14, 1991 21h 07m 24.82± 0.58s
31.229 S ± 7.5km 69.899 W ±15.2km
DEPTH = 110.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

ZON	1.09	107	iPc	07 48.00	0.7	
JACH	1.56	202	iPd	07 54.00	1.1	
			iS	08 15.70		
ROCH	1.98	208	iPc	07 58.50	0.3	
			iS	08 23.50		
PEL	2.02	199	iPd	07 59.00	0.4	
			iS	08 25.00		
SAN	2.31	196	ePd	08 02.70	0.3	
			iS	08 32.30		
IHA	2.32	219	e(P)	08 20.00	17.5X	
			iS	08 33.00		
PCH	2.44	192	iPd	08 04.60	0.4	
			iS	08 35.40		
TACH	2.57	200	iPc	08 05.40	-0.4	
			iS	08 36.70		
LCCH	2.65	212	iPc	08 06.40	-0.4	
			iS	08 37.50		
CHCH	2.77	193	iPd	08 08.20	-0.3	
			iS	08 41.80		
LNV	3.00	205	iPd	08 10.10	-1.5	
CNCB	14.46	7	P	10 47.30	1.3	
LPB	14.72	7	P	10 54.00	4.9X	
ZOBO	14.98	7	P	10 53.00	0.4	
SIV	17.18	30	P	11 17.20	-2.2	
	S.D. = 1.1		on	13 of	15 obs.	

SEP 14, 1991 21h 28m 10.56± 0.91s
39.809 N ± 7.0km 142.814 E ±13.1km
DEPTH = 58.0 ± 11.2 km
NEAR EAST COAST OF HONSHU, JAPAN(228)

OFUJ	1.15	231	iP+	28 30.80	0.1	
			S	28 44.50		
AOMJ	2.01	293	P	28 42.00	-0.7	
			S	29 04.30		
HOOJ	2.60	8	eP	28 51.50	0.7	
YAMJ	2.71	234	P	28 52.70	0.1	
MRRJ	2.93	334	eP	28 55.50	-0.1	
			eS	29 29.10		
KUSJ	3.58	23	P	29 04.60	-0.2	
			eS	29 42.90		
NIIJ	3.94	231	P	29 11.00	1.1	
KAKJ	4.16	211	P	29 11.80	-1.2	
			S	29 59.00		
ASAJ	4.31	358	eP	29 15.00	0.0	
CHJJ	4.82	220	P	29 21.60	-0.7	
MAT	4.88	229	eP	29 24.00	0.8	
			eS	30 21.00		
CHTO	43.08	254	P	36 07.30	0.8	
KKN	48.54	274	P	36 49.32	-0.7	
	0.6s		17.00nm		5.2mb	

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

% SEP 14, 1991 23h 39m 37.37± 0.68s
42.526 N ± 6.5km 13.113 E ± 7.6km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

AQU	0.27	129	P	39	42.60	-0.6
			eSg	39	47.60	
MNS	0.35	246	P	39	44.60	0.0
			eSg	39	49.50	
ASS	0.64	329	P	39	50.20	0.0
			eSg	40	00.50	
SDI	0.97	147	P	39	56.50	0.6
			eSg	40	07.50	
ARV	0.98	353	P	39	56.40	0.4
			eSg	40	10.50	
CRE	1.39	323	P	40	02.50	-0.4

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

• SEP 14, 1991 23h 49m 38.60± 0.98s
36.918 N ± 9.6km 30.609 E ± 9.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ELL	0.59	253	iPg	49	52.00	1.4
			eSg	49	59.00	
KHL	1.65	329	iPn	50	07.50	-0.2
CIN	2.12	289	eP	50	13.00	-1.6
ALT	2.17	350	ePn	50	16.00	0.7
PPCY	2.47	145	eP	50	24.00	4.5X
CSS	2.95	131	eP	50	26.00	-0.3
IZM	3.04	300	ePn	50	27.00	-0.6
BBTK	3.37	29	eP	50	44.00	11.5X
IZI	3.53	346	ePn	50	35.30	0.7

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

& SEP 14, 1991 23h 55m 32.20s
38.760 N 122.722 W
DEPTH = 6.0km
NORTHERN CALIFORNIA (36)
<BRK>. ML 3.6 (BRK).
Mo=3.6*10**14 Nm (BRK).

NWRM	0.33	203	iP	55	39.00	0.1
ZSP	0.89	156	iPc	55	49.14	-0.5
			eS	56	01.74	.
BKS	0.96	156	iPd	55	50.50	-0.4
			iS	56	04.20	
ORV	1.24	50	iPd	55	53.45	-2.1
PCC	1.29	168	iPc	55	54.53	-1.9
			eS	56	13.33	
GCC	1.82	161	eP	56	01.77	-2.5
WDC	1.82	4	eP	56	02.94	-1.4
CMB	1.97	111	eP	56	05.83	-0.7
			i	56	31.21	
SAO	2.23	153	eP	56	07.58	-2.7
FHC	2.26	335	eP	56	21.00	10.3
PRS	2.65	156	eP	56	14.88	-1.4
			eS	56	38.58	
FRI	2.97	126	iPc	56	20.19	-0.5
BONR	3.57	102	eP	56	35.00	5.5
BCH	4.15	149	P	56	39.00	1.5

14 obs. associated

SEP 15, 1991 00h 11m 39.36± 0.67s
44.771 N ± 6.7km 22.296 E ± 6.2km
DEPTH = 10.0km (geophysicist)
ROMANIA (358)

SSR	0.40	283	ePc	11	49.00	1.4
SRE	0.66	99	iPd	11	53.50	1.0
BZS	0.97	331	iPc	11	57.00	-0.8
DEV	1.19	21	iPc	12	01.00	-0.6
BEO	1.31	273	ePn	11	56.50	-7.1X
COZ	1.55	69	iPd	12	06.50	-0.7
TNR	1.65	57	ePd	12	08.00	-0.5
MLR	2.68	73	eP	12	27.00	3.5X
SKO	2.87	193	ePn	12	24.00	-1.9
VRI	3.31	69	ePc	12	33.50	1.2
VAY	3.45	177	ePn	12	35.00	0.7
PSZ	3.56	333	ePn	12	36.10	0.3

S.D. = 1.2 on 10 of 12 obs.

SEP 15, 1991 00h 20m 50 30± 0.48s
30.617 N ±10.1km 66.735 E ± 5.1km
DEPTH = 33.0km (normal)

4.8mb (11 obs.) 4.2Msz (3 obs.)
PAKISTAN (710)

QUE	0.47	156	iPd-	21	02.90	2.3
MAIO	8.29	315	eP	22	47.00	-4.2X
	0.9s		25.58nm			5.3mb
			eS	24	32.00	
NDI	9.32	99	iPd	23	02.50	-2.9
	0.4s		12.71nm			5.5mb
			iS	24	47.00	
KSH	11.62	38	P	23	36.00	-0.9
E	10s		13.40um			
SHI	12.34	269	eP	23	46.00	-0.7
IR4	14.07	293	eP	24	10.00	0.5
IR1	14.29	294	eP	24	12.00	-0.3
IR5	14.32	293	eP	24	11.00	-1.8
IR7	14.42	295	eP	24	13.50	-0.7
DHR	15.21	258	eP	24	23.00	-1.3
KKN	16.44	95	P	24	37.36	-2.9
	0.7s		88.00nm			5.0mb
HYB	16.99	138	eP	24	51.00	3.9X
			eS	27	27.50	
TAB	18.40	299	eP	25	05.00	0.4
RYD	18.76	257	eP	25	07.00	-2.0
BHD	19.15	284	eP	25	13.50	0.0
			eS	28	51.00	
			eSS	29	14.00	
			eLQ	31	25.00	
MJMA	19.47	261	eP	25	13.30	-4.1X
MSL	20.47	293	eP	25	33.00	5.2X
OASM	20.90	263	eP	25	31.30	-1.1
LSA	21.12	86	Pc	25	34.60	-0.5
N	12s		0.50um			
			S	29	26.00	
WMO	21.19	46	iPc	25	35.00	-0.2
	1.2s		40.00nm			4.7mb
Z	10s		0.80um			4.4MszX
N	10s		0.90um			
E	10s		1.90um			
			pP	25	39.50	16kmX
			sS	29	32.00	
AFIF	21.88	258	eP	25	50.00	7.7X
AYN	26.70	274	eP	26	27.30	-1.1
BADA	27.63	274	eP	26	38.00	1.1
GTA	28.35	63	Pc	26	44.00	0.6
	1.4s		30.00nm			4.8mb
LZH	31.34	70	eP	27	11.00	0.8
	1.5s		28.00nm			4.9mb
Z	20s		0.40um			4.1Msz
CHG	31.42	104	eP	27	12.10	1.3
	0.8s		9.14nm			4.7mb
KMI	32.20	91	eP	27	21.20	3.3X
OBN	32.52	328	eP	27	19.00	-1.0
	1.5s		*******nm			8.0mb X
Z	20s		0.60um			4.3Msz
N	18s		0.50um			
			ePP	28	45.00	
			LR	39	30.00	
GYA	35.19	87	P	27	44.80	1.2
BTO	36.26	62	eP	27	53.00	0.6
SPC	39.48	312	eP	28	21.30	1.9
KRA	39.84	313	eP	28	23.00	0.9
BJI	40.97	63	eP	28	32.00	0.5
Z	20s		0.30um			4.2Msz
ZST	41.39	310	eP	28	34.70	-0.2
			e	30	12.10	
TIA	42.05	68	eP	28	40.90	0.4
KSP	42.27	313	eP	28	43.50	1.4
SOD	43.74	339	eP	28	51.00	-2.8
BRG	43.75	313	eP	28	55.40	1.3
			e	28	58.60	
KHC	43.81	311	eP	28	55.20	0.5
MOX	45.20	313	iP	29	08.00	2.2
GRFO	45.39	311	(P)	29	08.20	0.9
HFS	45.72	326	eP	29	07.60	-2 2
	0.4s		0.80nm			4.0mb
NAO	47.27	326	P	29	21.10	-0.9
	1.0s		4.30nm			4 4mb
DOU	49.67	312	Pc	29	42.30	1.5
SNF	49.86	312	P	29	44.70	2.5
MBC	73.33	2	eP	32	22.00	2.1
	1.4s		16.00nm			4.8mb
INK	80.23	8	eP	32	57.00	-1.5
ASPA	84.00	122	eP	33	23.90	5.0X
	1.5s		8.60nm			4.7mb

S.D. = 1.5 on 41 of 48 obs.

SEP 15, 1991 01h 05m 52.71± 0.41s
10.941 N ± 5.8km 124.801 E ±10.0km
DEPTH = 33.0km (normal)
4.7mb (11 obs.) 4.4Msz (5 obs.)
LEYTE, PHILIPPINE ISLANDS (256)

MAP	1.01	233	iPc	06	08.00	-2.6
CGP	2.47	182	eP	06	29.00	-2.6
			eS	07	03.50	
DAV	3.90	169	eP	06	54.00	2.1
PGP	4.54	304	eP	07	07.00	6.1X
OCP	5.17	316	eP	07	23.00	13.2X
BAG	6.81	323	eP	07	36.80	3.7X
MNI	9.44	180	eP	08	09.50	0.0
SSE	20.33	351	P	10	28.50	-0.4
	0.6s		10.00nm			4.3mb
Z	20s		0.70um			4.0Msz
N	12s		0.40um			
E	12s		0.90um			
			pP	10	36.50	30kmX
			sP	10	44.00	
			eS	14	14.00	
			esS	14	27.00	
JAY	20.71	129	ePd	10	35.20	2.2
NJ2	21.71	346	eP	10	42.00	-1.0
			sP	10	53.80	
WHN	21.79	335	eP	10	45.50	1.8
			sP	11	02.50	
GYA	23.05	315	P	11	00.20	3.8X
Z	15s		0.80um			4.3MszX
N	14s		1.20um			
E	14s		0.70um			
LOE	23.26	289	eP	11	02.00	3.6X
SNG	24.17	263	eP	11	08.00	0.8
KMI	25.22	307	eP	11	19.40	1.9
TIA	26.10	346	eP	11	24.90	-0.4
Z	16s		0.50um			4.1MszX
E	13s		0.70um			
CHTO	26.16	290	(P)	11	29.00	2.9
XAN	27.20	330	P	11	34.50	-0.9
CD2	27.85	319	eP	11	42.00	0.6
Z	16s		0.90um			4.4MszX
N	13s		1.00um			
TIY	28.88	339	eP	11	50.00	-0.7
Z	20s		0.60um			4.2Msz
N	13s		0.40um			
BJI	29.97	347	eP	12	00.00	-0.3
	0.8s		6.00nm			4.4mb
Z	16s		0.29um			4.0MszX
SNY	30.79	358	eP	12	06.10	-1.3
Z	16s		0.80um			4.5MszX
E	11s		0.40um			
			S	17	08.00	
LZH	31.41	326	eP	12	13.50	0.2
	1.0s		18.00nm			4.9mb
Z	17s		0.59um			4.3MszX
N	19s		1.89um			
E	20s		1.64um			
HHC	32.00	341	eP	12	19.00	0.7
Z	18s		1.00um			4.5Msz
N	12s		0.40um			
BTO	32.30	339	eP	12	20.00	-0.9
N	11s		0.30um			
E	12s		0.30um			
CN2	32.74	1	eP	12	23.00	-1.6
Z	17s		1.00um			4.6MszX
N	12s		0.30um			
E	12s		0.30um			
MDJ	33.81	6	eP	12	30.50	-3.3X
OIS	34.52	155	eP	12	39.00	-1.3
	0.7s		13.00nm			5.0mb
ASPA	35.53	166	iPd	12	48.60	-0.2
	0.7s		15.50nm			5.0mb
GTA	36.02	326	P	12	53.60	0.6
	1.0s		10.00nm			4.7mb
Z	18s		0.70um			4.5Msz
N	15s		1.40um			
CTAO	37.37	146	iP	13	06.00	1.6
KKN	40.66	300	P	13	32.84	0.9
	0.8s		29.00nm			5.1mb
STK	45.51	160	eP	14	11.10	0.1
	0.7s		6.40nm			4.6mb
WMO	45.81	322	P	14	14.50	1.1
Z	20s		1.20um			4.8Msz
			eS	20	50.00	
GBA	46.30	278	Pd	14	17.00	-0.5
	0.7s		3.80nm			4.5mb

15d 01h

DZM 52.39 129 iPd 15 04.10 -0.3
MAIO 63.73 305 eP 16 30.00 6.2X
FBA 79.08 26 P 17 55.50 0.4
INK 84.20 21 eP 18 21.00 -0.7
MBC 85.37 12 eP 18 27.00 -0.5
0.7s 3.00nm 4.6mb
NAO 91.78 333 P 18 56.60 -1.7
1.0s 2.00nm 4.5mb
S.D. = 1.4 on 34 of 41 obs.

? SEP 15, 1991 01h 39m 41.44± 3.72s
40.723 N ± 8.2km 29.779 E ±31.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

HRT 0.13 320 iPg 39 44.50 -0.1
eSg 39 49.50
YLV 0.35 243 ePg 39 48.50 -0.1
eSg 39 58.50
IZI 0.45 211 iPg 39 50.70 0.1
eSg 39 59.00
ISK 0.64 302 ePg 39 54.50 0.2
S.D. = 0.2 on 4 of 4 obs.

SEP 15, 1991 02h 12m 24.94± 0.39s
30.724 N ± 7.6km 66.763 E ± 5.1km
DEPTH = 25.9km (2 depth phases)
4.6mb (9 obs.) 4.6Msz (7 obs.)
PAKISTAN (710)

QUE 0.56 163 iPd- 12 37.30 1.1
MAIO 8.23 314 eP 14 22.00 -3.7X
0.9s 25.58nm 5.4mb
GAR 8.76 18 eP 14 30.20 -2.8
eS 16 11.00
NDI 9.32 100 eP 14 38.00 -2.6
e 16 27.00
KSH 11.52 38 eP 15 09.00 -1.9
S 17 18.00
SHI 12.37 269 eP 15 20.00 -2.4
IR4 14.05 293 eP 15 46.00 1.4
IR1 14.26 293 eP 15 47.00 -0.4
IR5 14.30 293 eP 15 46.00 -1.9
IR7 14.40 294 eP 15 48.00 -1.2
DHR 15.26 257 eP 15 55.00 -5.3X
KKN 16.42 96 P 16 10.68 -4.8X
HYB 17.05 138 eP 16 21.00 -2.2
e 16 25.50
eS 19 36.00
SLY 18.44 291 ePc 16 42.50 2.1
RYD 18.81 256 eP 16 43.00 -2.0
BHD 19.14 283 eP 16 48.00 -0.9
eS 20 20.00
eLQ 22 57.00
iLR 23 32.00
MJMA 19.51 261 iPd 16 46.00 -7.4X
GBA 19.67 148 Pc 16 54.90 -0.2
1.0s 15.00nm 4.2mb
MSL 20.45 292 eP 17 02.50 -0.6
ePP 17 27.50
eS 20 52.50
eLQ 23 30.00
eLR 24 37.00
OASM 20.94 263 eP 17 03.30 -4.9X
LSA 21.09 87 P 17 10.30 0.0
E 10s 0.50um
WMO 21.10 46 iPc 17 09.50 -0.3
1.3s 40.00nm 4.7mb
Z 24s 2.10um 4.4MszX
N 14s 5.40um
E 10s 2.20um
pP 17 17.00 27km
AFIF 21.93 258 eP 17 23.30 5.0X
KOD 22.69 152 eP 17 28.00 1.9
SHL 22.72 97 iP 17 28.50 2.3
eS 21 32.20
BHL 26.43 285 P 18 02.00 0.4
S 22 40.00
AYN 26.72 274 eP 18 04.00 -0.1
BADA 27.65 274 eP 18 12.70 0.1
GTA 28.28 63 iPc 18 19.00 0.6
1.2s 20.00nm 4.7mb
Z 16s 1.50um 4.7MszX
N 15s 1.40um
LZH 31.29 70 P 18 44.00 -1.2
1.6s 29.00nm 4.9mb
Z 20s 0.99um 4.5Msz
N 15s 1.33um
pP 18 51.00 24km
CHG 31.42 105 eP 18 46.10 -0.3
CD2 31.68 80 eP 18 50.50 1.9
Z 18s 1.80um 4.8Msz
E 13s 1.60um
OBN 32.44 327 eP 18 55.00 0.1
1.0s ******nm 8.0mb X
Z 18s 1.80um 4.8Msz
N 18s 1.80um
E 18s 1.00um
e 20 27.00 538kmX
LR 28 40.00
MLR 34.94 307 eP 19 19.00 2.2
GYA 35.17 87 P 19 20.00 1.1
Z 18s 0.90um 4.6Msz
N 16s 2.60um
E 16s 0.90um
BTO 36.19 62 eP 19 28.00 0.6
N 14s 0.60um
E 14s 0.70um
TIY 38.11 67 Pc 19 43.00 -0.5
Z 20s 1.30um 4.7Msz
N 15s 0.60um
SPC 39.43 311 eP 19 56.50 1.9
KRA 39.78 313 eP 20 08.20 10.9X
ZST 41.34 309 eP 20 06.50 -3.6X
KSP 42.21 313 eP 20 18.40 1.2
BRG 43.69 313 eP 20 30.80 1.5
1.1s 10.00nm 4.5mb
e 20 46.00 59kmX
e 20 56.60
KHC 43.76 311 eP 20 29.50 -0.4
Z 20s 0.50um 4.4Msz
N 18s 0.10um
E 18s 0.60um
e 20 54.50 107kmX
CLL 44.33 314 e(P) 20 49.00 14.6X
MOX 45.14 313 eP 20 42.80 1.8
Z 19s 0.50um 4.5Msz
N 21s 0.80um
NAO 47.19 326 P 20 55.40 -1.6
0.9s 3.20nm 4.3mb
DOU 49.62 312 P 21 24.80 8.8X
TOL 57.15 300 eP 22 14.50 2.7X
KRI 59.26 222 iPd 22 27.60 0.7
BUL 62.47 221 eP 22 46.10 -2.5
MBC 73.22 2 eP 23 56.00 1.1
1.0s 9.00nm 4.8mb
INK 80.12 8 eP 24 34.00 0.4
FBA 80.95 14 (P) 24 38.40 0.3
YKA 87.10 1 eP 25 10.80 1.5
1.0s 2.40nm 4.4mb
LPB 136.59 278 ePKP 32 07.00 19.4X
CNCB 136.61 278 PKP 31 51.00 3.1X
S.D. = 1.5 on 43 of 56 obs.

---

* SEP 15, 1991 02h 27m 20.00± 1.97s
2.800 N ± 9.3km 128.451 E ±15.1km
DEPTH = 79.9 ± 18.9 km
4.9mb (6 obs.)
HALMAHERA, INDONESIA (267)

MNI 3.85 250 eP 28 17.00 -1.1
AAI 6.45 182 ePc 28 57.00 2.7
CGP 6.75 327 eP 28 59.00 0.6
PCI 9.37 247 ePc 29 33.00 -1.4
TSM 10.66 278 ePd 29 46.50 -5.4X
KUPT 13.74 200 eP 30 38.00 5.3X
MTN 15.77 170 eP 30 57.00 -1.8
PIP 17.23 334 iPd 31 21.00 4.0X
KNA 18.43 179 eP 31 31.60 -0.2
TRT 18.92 236 ePc 31 36.50 -0.9
WR2 23.34 166 iPc 32 23.60 1.5
0.7s 109.30nm 5.4mb
e 43 01.60
MBL 25.26 199 eP 32 40.00 -0.5
OIS 25.66 155 iPc 32 45.20 1.0
0.8s 39.00nm 5.0mb
ASPA 26.84 169 iPd 32 55.20 0.2
1.0s 10.00nm 4.3mb
CTAO 28.68 143 eP 33 18.00 6.3X
CHG 32.97 301 eP 33 50.00 0.5
MAT 34.76 14 (P) 34 16.00 11.3X
1.0s 35.00nm
KLB 35 68 196 eP 34 12.00 -0.5
XAN 36.03 332 eP 34 15.00 -0.5
CD2 36.41 323 eP 34 25.00 6.3X
BRS 38.09 144 eP 34 30.00 -2.9
BJI 38.70 345 eP 34 37.00 -0.8
0.8s 5.00nm 4.5mb
Z 20s 0.84um 4.6Msz
N 10s 0.52um
LZH 40.18 328 eP 34 51.50 1.2
1.5s 26.00nm 4.9mb
Z 15s 0.24um 4.2MszX
HHC 40.83 340 eP 35 01.80 6.3X
BFD 41.88 163 iPc 35 05.70 1.8
1.0s 40.00nm 5.2mb
KKN 48.10 305 P 35 55.24 1.2
KOD 51.14 281 eP 36 19.30 1.7
GBA 51.51 285 P 36 24.00 3.9X
FBA 84.82 25 (P) 39 44.60 -2.0
ZOBO 158.90 130 PKP 47 31.00 19.7X
SIV 163.88 145 (PKP) 47 25.00 9.3X
S.D. = 1.6 on 21 of 31 obs.

SEP 15, 1991 02h 55m 47.48± 0.57s
39.305 N ± 5.8km 20.684 E ± 4.7km
DEPTH = 14.7 ± 3.4 km
GREECE-ALBANIA BORDER REGION (392)
MD 3.1 (ATH).

IGT 0.35 310 ePd 55 55.84 0.9
iS 56 02.58
KEK 0.80 301 ePb 56 02.50 0.0
VLS 1.13 184 ePb 56 08.50 0.3
KZN 1.30 40 ePb 56 10.40 -0.8
AGG 1.31 102 ePd 56 11.01 -0.2
eS 56 30.10
FNA 1.57 20 ePc 56 16.37 1.5
eS 56 38.70
LIT 1.60 60 ePc 56 15.90 0.5
OHR 1.81 3 iPn 56 19.00 0.7
LCI 2.34 297 P 56 33.50 7.5X
eSn 56 55.00
PAIG 2.40 74 ePd 56 26.90 0.1
VAY 2.48 35 ePn 56 28.00 0.1
KNT 2.51 42 ePd 56 28.86 0.4
SOH 2.55 53 ePc 56 29.58 0.6
iS 57 03.06
SKO 2.73 12 ePn 56 29.50 -2.0
e 57 04.50
OUR 2.74 67 ePd 56 32.09 0.4
SRS 2.87 50 ePc 56 33.06 -0.4
eS 57 10.62
BRT 3.10 302 P 56 46.00 9.3X
eSn 57 18.50
ROI 3.20 276 P 56 37.70 -0.5
MGR 4.04 283 P 56 57.00 6.9X
SGO 4.32 289 P 57 01.30 7.2X
S.D. = 0.9 on 16 of 20 obs.

? SEP 15, 1991 03h 16m 20.96± 1.27s
40.876 N ±13.1km 22.917 E ± 6.9km
DEPTH = 10.0km (geophysicist)
GREECE (364)

KNT 0.29 357 iPd 16 26.62 -0.3
eS 16 30.78
SOH 0.34 99 ePd 16 27.50 -0.4
eS 16 32.06
GRG 0.40 282 ePd 16 29.26 0.1
eS 16 34.42
SRS 0.56 65 ePc 16 33.06 0.6
eS 16 39.26
S.D. = 0.8 on 4 of 4 obs.

& SEP 15, 1991 03h 21m 16.31s
61.242 N 149.376 W
DEPTH = 38.1km
SOUTHERN ALASKA (2)
<AEIC>. ML 2.5 (AEIC).

PMS 0.09 272 iPd 21 22.53 -0.2
PLRM 0.37 18 iPd 21 24.81 -0.4
eS 21 31.42
KNK 0.48 69 iPd 21 25.98 -0.7
eS 21 33.23
PWA 0.48 330 iPd 21 26.56 -0.1
GHO 0.57 22 iPd 21 27.67 -0.4
eS 21 36.64
SUA 0.70 289 iPd 21 29.34 -0.5
SML 0.76 41 eP 21 30.21 -0.4

```
SLKM    0.84 210 iPc   21 30.97   -0.9
SEW     1 14 182 eP    21 35.21   -0.8
                eS     21 50.26
SCM     1.15  58 eP    21 37.23    1.0
GLI     1.17 107 eP    21 35.38   -1.0
                eS     21 50.88
KNIM    1.20 137 eP    21 35.95   -1.0
                eS     21 52.07
CUT     1.24 340 eP    21 37.96    0.5
SKT     1.27 307 iPd   21 38.11    0.2
                eS     21 55.48
CGLM    1.27 274 eP    21 38.14    0.1
SPU     1.30 268 eP    21 38.58    0.3
                eS     21 56.00
NCG     1.35 278 eP    21 39.54    0.4
VZW     1.38  96 eP    21 39.24   -0.3
                eS     21 57.87
LTI     1.42 147 ePc   21 38.57   -1.4
BGL     1.46 272 eP    21 41.11    0.5
VLZ     1.48  93 iPc   21 40.73   -0.1
                eS     22 00.22
FID     1.50 108 ePc   21 40.02   -1.1
                eS     21 58.45
NNL     1.53 219 iPc   21 42.36    0.8
RDT     1.63 247 eP    21 43.63    0.6
KLU     1.68  80 iPc   21 43.65   -0.2
                eS     22 05.03
HUR     1.75 356 ePd   21 46.15    1.5
TOA     1.76  59 eP    21 45.62    0.7
REF     1.79 247 eP    21 46.07    0.5
RDN     1.81 248 eP    21 45.78    0.0
RSO     1.83 246 eP    21 45.51   -0.6
RDW     1.84 247 eP    21 45.67   -0.6
RED     1.86 245 eP    21 46.62    0.2
CNPM    1.95 209 eP    21 47.17   -0.5
TZL     2.05  65 eP    21 49.24    0.2
RND     2.19   6 eP    21 52.12    1.0
SDG     2.23  53 eP    21 52.51    0.9
TRF     2.26 350 ePd   21 52.97    0.8
KTH     2.43 343 ePd   21 55.45    1.0
MCK     2.51   4 eP    21 57.37    1.8
PAX     2.53  45 eP    21 56.82    0.9
GLB     2.69  83 eP    21 58.14   -0.1
TGL     3.23  96 eP    22 04.77   -1.1
WRH     3.30  10 eP    22 06.98    0.3
CCB     3.49  11 eP    22 09.76    0.2
      44 obs. ossociated
-----------------------------------------
?  SEP  15, 1991  03h 37m 08.88± 1.45s
   2.076 N ±13.4km  123.345 E ± 9.9km
   DEPTH =  58.3 ± 15.9 km
   4.1mb (  1 obs.)
 CELEBES SEA                       (262)

MNI     1.62 113 ePd   37 35.50    0.0
                eS     37 45.50
PCI     4.59 230 ePd   38 17.50    0.1
                eS     38 35.00
ASPA   27.57 159 eP    42 51.40   -1.2
       1.1s     5.30nm          4.1mb
BWA    43.28 149 eP    45 09.40    2.8X
                e      45 18.40
GUN     44.05 309 P    45 13.70    0.4
PKI     44.25 309 P    45 14.80   -0.2
CAN     44.28 150 eP   45 15.90    1.2
                i      45 25.30
KKN     44.46 309 P    45 16.30   -0.2
DMN     44.51 308 P    45 17.00    0.1
GKN     45.06 309 P    45 21.00   -0.2
     S.D. = 0.8  on   9 of  10 obs.
-----------------------------------------
*  SEP  15, 1991  06h 02m 18.48± 0.66s
   17.870 S ±11.5km  115.875 W ±14.4km
   DEPTH =  10.0km  (geophysicist)
   4.8mb ( 12 obs.)
 SOUTHERN EAST PACIFIC RISE        (684)

LPB     45.56  96 P    10 42.00    0.8
ZOBO    45.58  95 P    10 42.10    0.6
     Z  24s      0.40um          4.3MszX
                LR     24 22.00
CNCB    45.63  96 P    10 43.00    1.1
CCH     47.28  97 P    10 55.20    0.6
PLM     50.94 359 eP    11 24.00    1.6
TPC     51.68 360 eP    11 28.00    0.2
MWC     51.84 358 eP    11 29.00   -0.2
SBB     52.30 358 eP    11 32 00   -0.5

SIV     52.31  97 P    11 32.00   -0.9
GSC     52.88 359 eP    11 36.00   -0.9
ANMO    53.28  10 P    11 40.10    0.2
        1.0s     10.25nm          4.7mb
CLC     53.42 358 eP    11 39.00   -1.7
MEO     54.88  17 iPd   11 51.00   -0.5
MSU     56.19   3 P    12 01.90    0.7
TUL     56.77  19 ePc   12 05.50    0.4
        0.6s     3.70nm          4.6mb
                e      12 10.00
DUG     57.83   3 P    12 13.00    0.3
        0.8s     5.56nm          4.6mb
GOL     58.10  10 P    12 14.10   -0.6
        1.0s     8.75nm          4.8mb
BW06    60.62   5 P    12 30.00   -2.1
        1.0s     5.00nm          4.6mb
RSSD    62.63  10 P    12 44.50   -1.1
        1.0s     8.68nm          4.9mb
SHW     64.02 355 P    12 54.20   -0.3
VAO     64.26 107 eP    12 54.60   -2.0
LON     64.54 355 P    12 59.00    1.2
NEW     65.84 359 P    13 05.80   -0.3
        1.2s    16.67nm          5.1mb
PGC     66.56 355 eP    13 12.00    1.4
PNT     66.97 357 eP    13 15.00    1.7
        0.5s     2.00nm          4.6mb
SPA     72.24 180 iPd   13 45.10   -0.6
        1.1s    33.33nm          5.3mb
YKA     80.10   1 eP    14 30.40    0.8
        0.9s     3.40nm          4.3mb
FBA     86.05 347 P    15 00.20    0.1
        1.0s    15.00nm          5.1mb
INK     86.89 354 eP    15 03.00   -1.1
M8C     93.93 359 eP    15 37.00    0.1
        1.0s     7.00nm          5.0mb
BRG    128.49  38 e(PKP)21 26.80   -0.3
KHC    128.86  41 PKP   21 28.30    0.3
CHG    146.97 277 ePKP   22 02.90    1.2
     S.D. = 1.0  on  33 of  33 obs.
-----------------------------------------
    SEP  15, 1991  06h 39m 12.35± 0.11s
    17.879 S ± 2.9km  116.021 W ± 3.3km
    DEPTH =  10.0km  (geophysicist)
    5.6mb ( 34 obs.)  4.7Msz (  9 obs.)
  SOUTHERN EAST PACIFIC RISE        (684)
        Mo=4.0*10**17 Nm (PPT).
        CENTROID, MOMENT TENSOR     (HRV)
        Dato Used: GDSN
        L.P.B.: 15S, 33C
        Centroid Location:
        Origin Time          06:39:16.0 0.7
        Lat 18.64S 0.07 Lon 116.10W 0.07
        Dep  15.0 FIX Half-durotion  2.4
        Moment Tensor;   Scale 10**17 Nm
          Mrr=-2.81 0.11   Mtt= 2.38 0.10
          Mff= 0.43 0.14   Mrt= 3.21 0.50
          Mrf=-2.39 0.39   Mtf=-0.42 0.14
         Principal Axes:
          T  Val=  4.47  Plg=28  Azm= 24
          N        0.62       9       119
          P       -5.08      60       225
        Best Double Couple:Mo=4.8*10**17
         NP1:Strike= 92 Dip=18 Slip=-119
         NP2:        302     74      -81

RKT     18.50 250 iP    43 37.20    6.7X
        1.4s    235.00nm          5.2mb
RUV     30.17 270 eP    45 26.00    0.9
        1.2s     50.00nm          5.2mb
TPT     30.43 271 eP    45 27.00   -0.4
        1.2s     95.00nm          5.5mb
PAE     31.94 265 eP    45 44.00    3.4X
        1.2s    145.00nm          5.8mb
PT10    38.11  87 e(P)  46 33.00   -0.5
NNA     38.25  87 eP    46 34.00   -0.8
        1.1s    18.99nm          4.8mb
III     39.53  25 eP    46 47.60    2.1
OXX     39.59  30 (P)   46 48.80    2.8
MRX     40.09  22 (P)   46 53.00    3.2X
PPM     40.50  26 eP    46 56.50    2.7
IIA     40.56  26 (P)   46 56.50    2.8
IIT     40.59  26 (P)   46 56.50    2.2
IISM    40.96  27 (P)   46 59.80    2.8
CUMC    41.95  68 ePd   47 07.40    1.5
ARE     42.49  95 eP    47 11.00    0.9
LCCH    42.63 120 ePd   47 11.50    0 8
LNV     42.85 121 eP    47 13.00    0.6

TACH    43.18 120 iPd   47 15.80    0.6
PEL     43.31 120 iPd   47 17.20    0.9
SAN     43.38 120 ePd   47 17.50    0.7
CHCH    43.46 121 iPd   47 18.00    0.5
PCH     43.53 120 iPd   47 18.50    0.4
PURC    43.92  67 ePd   47 23.13    1.1
ANCC    44.07  65 eP    47 22.74    0.1
SILC    44.12  66 ePd   47 24.16    0.7
HOOC    44.25  65 eP    47 24.32    0.0
CLMC    44.51  65 ePd   47 26.50    0.1
ZON     44.78 117 eP    47 29.00    0.8
BUGC    44.78  65 iPd   47 29.37    0.9
UPA     44.84  56 (P)   47 28.20   -0.6
     Z  18s      2.06um          5.1Msz
HOBC    45.12  64 ePd   47 31.54    0.3
LPB     45.70  96 P    47 37.00    0.9
        1.2s    125.00nm          5.8mb
                i      49 16.00
                LR     53 24.00
ZOBO    45.72  96 iPd   47 37.00    0.6
        1.0s     54.50nm          5.5mb
     Z  19s      0.66um          4.6Msz
                S      54 28.00
                LR     59 32.00
CNCB    45.77  96 iPd   47 38.00    1.2
                i      49 16.70
CCH     47.42  97 P    47 50.00    0.4
GLA     50.66   1 eP    48 14.00    0.1
PLM     50.95 359 iPd   48 16.00   -0.3
                e      49 32.00
PEC     51.49 359 P    48 20.70    0.5
        1.3s     39.04nm          5.2mb
RVR     51.60 359 eP    48 21.00    0.0
TPC     51.69 360 iPd   48 22.00    0.2
                e      49 35.00
SSK     51.82 358 P    48 23.60    0.7
MWC     51.85 358 eP    48 23.00   -0.1
                e      49 36.00
SDV     52.12  63 eP    48 25.00   -0.5
SYP     52.25 356 eP    48 27.00    0.9
SBB     52.30 358 iPd   48 26.00   -0.4
ABL     52.52 357 P    48 28.10   -0.1
GSC     52.89 359 iPd   48 31.00    0.2
                e      49 39.00
BCH     52.91 356 P    48 31.60    0.6
TOV     53.29  63 eP    48 32.70   -1.4
ISA     53.30 358 eP    48 34.00    0.2
ANMO    53.31  10 P    48 34.80    0.7
CLC     53.42 358 iPd   48 34.00   -0.6
                e      49 41.00
PRI     53.90 355 iPd   48 39.15    0.9
CWC     54.06 358 iP    48 39.00   -0.4
PRS     54.15 355 iPd   48 40.46    0.5
SAO     54.59 355 iPc   48 43.92    0.8
FRI     54.68 356 iPd   48 43.52   -0.3
GCC     54.90 354 iPd   48 45.84    0.4
PCC     55.40 354 iPd   48 49.48    0.4
BONR    55.58 358 P    48 51.10    0.4
UYO     55.68  22 iPd   48 49.80   -1.4
BKS     55.76 354 iPc   48 52.80    1.1
        1.0s    109.00nm          5.8mb
                eS     56 54.00
                eLO    05 13.00
CMB     55.77 356 P    48 52.00    0.3
ZSP     55.83 354 eP    48 53.51    1.4
CAR     56.08  64 iP    48 51.80   -2.7
MSU     56.21   4 P    48 56.00    0.9
VVO     56.31  20 eP    48 54.30   -1.4
NWRM    56.40 354 P    48 57.10    0.9
SIO     56.51  19 eP    48 56.10   -1.0
ACO     56.57  16 iPc   48 57.70    0.1
KVN     56.66 358 P    48 58.90    0.5
TUL     56.82  20 iPc   48 58.30   -1.0
        1.0s     76.90nm          5.7mb
     Z  18s      0.28um          4.4Msz
                e      56 42.00
                e      00 43.00
                e      03 35.00
                LR     07 21.00
ORV     57.36 355 iPd   49 03.29    0.2
DUG     57.85   3 P    49 07.20    0.6
        1.2s    109.24nm          5.8mb
GOL     58.13  10 P    49 08.20   -0.6
        1.0s     56.25nm          5.6mb
MIN     58.15 355 iPd   49 08.04   -0.7
GLD     58.21  10 P    49 10.00    0.8
        1.2s     85.86nm          5.7mb
```

15d 06h

AIA	58.33	157	eP	49	09.80	0.2	STK	90.77	236	eP	52	18.00	0.7	MOX	127.27	39	iPKPc	58	18.50	-0.2
WDC	58.47	354	iPd	49	10.37	-0.4		0.8s		3.60nm			4.7mb		1.8s		53.00nm			
FOX	58.57	353	iPc	49	12.79	1.3	CTA	90.92	249	iP	52	19.00	0.8				i	00	20.00	
PWLA	58.90	27	P	49	12.20	-1.7		1.5s		69.44nm			5.8mb	GRF	127.32	41	iPKPd	58	19.50	0.6
LST	59.54	24	P	49	17.20	-1.1	MBC	93.94	359	ePd	52	31.10	0.3		Z 22s		0.10um			4.5Msz
ELC	60.40	24	P	49	23.00	-1.2		1.0s		55.00nm			5.9mb				e	58	22.00	
FVM	60.55	23	P	49	24.10	-1.1	MAW	94.76	180	eP	52	35.00	0.0	HOF	127.53	40	ePKP	58	19.00	-0.2
PPD	60.57	106	eP	49	24.40	-1.4	WR2	101.38	245	iPdiff	53	06.20	0.3	PGF	127.55	50	iPKPc	58	19.90	0.3
			e	49	37.40			0.9s		3.40nm			5.0mb		1.1s		29.30nm			
			e	50	10.10		MDJ	119.63	312	PKPc	58	03.50	-0.7	FUR	127.81	42	ePKP	58	20.30	0.5
BW06	60.64	5	P	49	24.20	-1.9	LPF	119.74	44	iPKPc	58	04.00	-0.3	CLL	127.87	38	iPKPd	58	19.30	-0.5
	1.0s		45.83nm			5.6mb		1.1s		12.20nm					1.7s		57.00nm			
TPP	60.73	67	eP	49	26.55	-0.3	GRR	119.83	44	iPKPc	58	04.30	-0.1	OGA	128.00	44	iPKPc	58	21.20	0.7
TRN	60.92	66	eP	49	25.90	-2.2		1.1s		19.55nm				WTTA	128.29	43	iPKPd	58	20.90	-0.1
GBTN	61.19	29	P	49	27.90	-1.7	FLN	120.03	44	iPKPc	58	04.50	-0.3		1.2s		64.70nm			
TKL	61.39	30	P	49	29.30	-1.7		1.0s		16.00nm							i	58	27.70	
MNG	62.38	233	eP	49	38.00	0.2	LDF	120.29	44	iPKPc	58	05.00	-0.3				i	58	34.60	
VGB	63.24	356	P	49	43.60	0.5		1.1s		17.10nm							e	00	06.00	
LRM	63.48	3	eP	49	44.30	-0.7	MFF	120.50	46	iPKPc	58	05.70	-0.1				e	00	20.00	
SHW	64.01	355	P	49	48.80	0.4		1.1s		17.10nm				WET	128.52	41	iPKPd	58	21.30	0.1
NAV	64.15	31	P	49	47.50	-1.8	EPF	121.17	50	iPKPc	58	07.30	0.1	8RG	128.58	38	iPKPd	58	21.40	0.2
BLA	64.25	31	P	49	49.00	-1.0		1.1s		25.65nm					1.2s		54.00nm			
	1.0s		22.50nm			5.3mb	LFF	121.29	48	iPKPc	58	07.50	0.2				i	58	24.20	
BMW	64.38	354	P	49	50.90	0.2		1.3s		28.90nm							i	58	29.50	
VAO	64.39	107	eP	49	50.10	-1.2	LPO	121.63	48	ePKP	58	07.80	-0.2				e	00	27.00	
LON	64.54	356	P	49	51.30	-0.4	LSF	121.69	46	iPKPc	58	07.70	-0.4	KAF	128.59	22	iPKP	58	19.90	-0.9
BAO	64.85	99	ePd	49	53.60	-0.8		1.1s		13.45nm					0.8s		17.50nm			
GMW	65.40	355	P	49	57.10	-0.1	RJF	121.80	47	iPKPc	58	08.10	-0.2	CTI	128.63	45	PKP	58	30.80	9.2X
CVL	65.82	32	P	49	59.10	-0.9		1.3s		28.90nm				BUL	128.70	136	iPKPd	58	18.30	-4.2X
NEW	65.84	359	P	49	59.80	-0.2	TCF	122.16	46	iPKPc	58	08.70	-0.3		1.0s		7.50nm			
	1.0s		93.75nm			5.9mb		0.9s		4.10nm				NJ2	128.79	297	PKPc	58	21.00	-1.1
NA2	66.30	32	P	50	02.50	-0.5	CAF	122.22	48	iPKPc	58	09.20	0.0	KHC	128.96	41	iPKPd	58	22.00	0.0
MCW	66.53	355	P	50	05.00	0.6		1.4s		26.15nm					1.2s		29.00nm			
CBN	66.55	32	iP	50	03.80	-0.8	MAF	122.41	46	iPKPc	58	09.20	-0.2				e	00	26.00	
	1.0s		30.00nm			5.4mb	BGF	122.55	46	iPKPc	58	09.40	-0.3	NUR	129.02	24	iPKP	58	20.90	-0.8
PGC	66.56	355	eP	50	05.00	0.5		1.1s		35.40nm					0.8s		61.60nm			
	1.1s		118.00nm			6.0mb	CN2	122.67	311	PKPc	58	08.50	-1.5	VVI	129.17	45	PKP	58	32.10	9.6X
LSCZ	66.77	228	eP	50	06.30	0.0	UCC	122.78	41	PKP	58	10.80	0.9	PGD	129.22	48	PKP	58	31.80	8.9X
LRCZ	66.79	228	P	50	06.40	-0.1	SNF	122.80	41	iPKPc	58	10.08	0.1	FVI	129.23	44	PKP	58	31.40	8.9X
SBCZ	66.81	228	P	50	07.00	0.5	AVF	122.86	45	iPKPc	58	09.60	-0.6	PRU	129.26	39	PKPd	58	22.50	0.0
CMCZ	66.84	228	P	50	07.00	0.3		1.0s		8.00nm					1.5s		30.00nm			
MHZ	66.84	228	P	50	07.40	0.7	SSF	122.93	45	iPKPc	58	10.00	-0.4	SFI	129.30	47	PKP	58	32.20	9.5X
PNT	66.97	357	ePd	50	07.00	-0.2		1.1s		15.85nm				CRE	129.44	48	PKP	58	31.40	8.2X
	1.1s		40.00nm			5.5mb	DOU	123.08	41	PKPc	58	10.30	-0.2	KBA	129.46	43	iPKPd	58	22.70	-0.5
TLC	66.98	228	eP	50	07.80	0.1		1.0s		33.30nm							i	58	35.00	
BMA	67.00	108	eP	50	07.70	-0.3	NAO	123.08	28	PKP	58	09.40	-0.8	TIA	129.90	302	ePKP	58	22.90	-1.3
LVNJ	69.83	32	P	50	24.40	-0.7		1.0s		15.00nm				KSP	129.97	38	ePKPd	58	23.50	-0.3
GMTN	70.18	33	iP	50	26.80	-0.4	LOR	123.13	45	iPKPc	58	10.60	-0.2		1.2s		34.00nm			
PNJ	70.21	33	eP	50	26.90	-0.5		1.3s		25.25nm							e	02	16.40	
TBR	70.35	32	P	50	27.80	-0.5		Z 21s		0.17um			4.7Msz	CIR	129.98	139	iPKPd	58	26.50	1.7
SPA	72.23	180	iPd	50	40.00	0.5	SMF	123.22	46	iPKPc	58	10.50	-0.5	BJI	130.07	308	ePKP	58	23.50	-0.8
	0.6s		86.18nm			6.0mb		1.1s		17.10nm				VOY	130.14	44	ePKPd	58	24.10	-0.3
DZM	72.26	252	iPc	50	41.40	1.0	LBF	123.26	45	iPKPc	58	10.70	-0.4	MNS	130.25	49	PKP	58	33.40	8.7X
BNH	74.36	32	P	50	52.50	0.5		1.1s		22.00nm				LJU	130.56	44	ePKP	58	25.00	-0.1
SIT	76.38	349	eP	51	04.20	1.0	COLF	123.29	47	PKP	58	10.98	-0.2	CEY	130.58	45	ePKP	58	25.50	0.3
EMM	76.38	33	P	51	04.20	0.7	KEV	123.43	15	ePKP	58	11.00	0.4	VKA	130.96	41	iPKPc	58	26.00	0.2
CAI	77.47	93	iPc	51	10.80	0.5	ENN	123.76	40	ePKP	58	12.00	0.1		2.0s		104.00nm			
YKA	80.11	1	eP	51	23.80	0.3		0.9s		18.00nm				VBY	131.20	45	ePKPd	58	26.50	0.2
	1.1s		31.30nm			5.2mb	WTS	123.99	39	ePKP	58	12.50	0.2	ZST	131.48	41	ePKP	58	26.30	-0.5
SNA	80.94	162	iPd	51	27.80	-0.2		1.0s		42.00nm							e	00	48.70	
	1.1s		103.80nm			5.8mb	SNY	124.26	309	ePKP	58	12.20	-0.9				e	02	01.30	
KDC	81.19	341	eP	51	29.70	0.3	HAU	124.64	44	iPKPc	58	13.60	-0.1	ZAG	131.59	44	ePKP	58	27.00	0.0
SDN	82.08	336	P	51	34.10	0.0		1.1s		12.20nm				KRI	131.69	134	iPKPd	58	27.50	-0.8
	1.0s		326.00nm			6.4mb		Z 21s		0.22um			4.8Msz	SRO	132.37	41	iPKPc	58	28.70	0.2
KLU	82.63	346	P	51	36.70	-0.2	HFS	124.66	28	ePKP	58	11.70	-1.6				e	59	52.40	
TAU	82.77	227	eP	51	39.00	0.9		0.9s		11.30nm							e	00	45.00	
COO	82.85	240	eP	51	39.90	1.1		Z 20s		0.22um			4.8Msz	KRA	132.42	37	ePKPc	58	28.50	0.0
	1.1s		17.00nm			5.1mb				LR	40	23.00			1.2s		58.00nm			
TOA	83.22	346	eP	51	40.60	0.6	BSF	124.97	44	iPKPc	58	14.20	-0.3				e	58	36.00	
PMR	83.48	345	eP	51	41.40	0.2		1.1s		17.10nm				WHN	132.71	295	ePKP	58	29.00	-0.6
	0.9s		109.90nm			6.1mb	SOD	125.05	17	iPKP	58	13.00	-0.9	MGR	132.88	51	PKP	58	38.30	8.6X
SCH	83.62	26	ePd	51	41.30	-0.8	CDF	125.16	43	iPKPc	58	14.60	-0.2	SPC	132.98	38	ePKP	58	29.50	-0.4
	1.0s		46.00nm			5.6mb		1.1s		14.65nm							e	01	10.00	
CAN	83.80	235	eP	51	44.20	0.6	LPL	125.40	47	iPKPc	58	16.50	1.0	UZD	133.01	42	ePKP	58	30.00	0.3
BWA	84.52	236	eP	51	45.80	-1.5		1.1s		26.85nm				MTD	133.06	135	iPKPd	58	28.00	-2.8
FBA	86.02	347	iPd	51	54.20	0.3	LPG	125.41	47	iPKPc	58	16.60	0.9	PSZ	133.31	40	iPKP	58	30.30	-0.1
RMO	86.70	243	iPd	52	09.90	11.8X		1.1s		34.20nm				HHC	133.32	310	ePKP	58	30.00	-0.7
	0.9s		36.00nm				BNI	125.44	47	PKP	58	27.70	12.2X	TIY	133.37	305	ePKP	58	30.00	-0.8
INK	86.88	354	ePd	51	57.70	-0.3	LRG	125.49	49	iPKPc	58	15.80	0.4	IRK	133.38	327	ePKP	58	30.20	-0.1
	1.0s		54.00nm			5.7mb		1.1s		43.95nm				TDS	133.57	52	PKP	58	40.00	9.0X
ADK	87.15	327	P	51	59.00	-0.6		Z 20s		0.15um			4.7Msz	SOI	133.71	54	PKP	58	39.90	8.6X
	1.1s		146.25nm			6.1mb	LMR	125.61	49	iPKPc	58	15.80	0.1	BTO	134.52	310	ePKP	58	32.00	-1.0
CMS	87.52	238	eP	52	03.50	1.5		1.1s		24.40nm				BZS	135.33	42	ePKP	58	34.00	-0.2
BFD	88.12	232	eP	52	05.60	0.8	FRF	125.68	49	iPKPc	58	16.00	0.1				e	19	34.50	
	1.1s		49.00nm			5.7mb		1.1s		36.65nm				SKO	136.60	47	iPKP	58	36.00	-0.7
IMA	88.34	346	ePd	52	05.20	-0.1	DL2	126.05	305	ePKP	58	16.20	-0.5				i	58	38.40	
	1.3s		50.70nm			5.7mb	CKI	126.68	48	PKP	58	26.60	8.8X	XAN	136.87	301	PKP	58	36.50	-1.0

OBN	137.37	23	iPKPd	58	37.50	-0.2
	1.1s	*******	nm			
	Z 20s	0.30um			5.0Msz	
		i		58	44.00	
		ePP		01	12.00	
		iPKS		02	11.00	
VTS	137.59	46	iPKPc	58	39.00	0.2
VAY	137.62	48	ePKP	58	39.40	0.7
KKB	137.78	47	iPKP	58	39.00	0.0
MLR	138.12	40	ePKP	58	31.00	-8.7X
MMB	138.33	47	iPKP	58	39.00	-1.0
VRI	138.41	40	ePKP	58	49.50	9.5X
		e		01	29.50	
PVL	138.76	44	iPKPc	58	41.00	0.3
PLD	138.80	46	iPKPc	58	40.00	-0.8
RZN	138.98	46	iPKPc	58	41.00	-0.4
DIM	139.39	45	iPKPc	58	42.00	0.2
KDZ	139.47	46	iPKPc	58	42.00	0.0
GYA	139.71	290	PKP	58	38.20	-4.9X
JMB	139.91	44	iPKPc	58	42.00	-0.8
PSN	140.39	42	ePKP	58	43.00	-0.6
LZH	140.45	305	ePKP	58	41.50	-2.7
GTA	142.28	312	PKPd	58	41.60	-5.7X
			pPKP	58	45.60	
KMI	143.32	288	PKPc	58	46.50	-3.1X
	5.0s	0.50nm				
KHL	143.71	49	ePKP	58	46.30	-3.4X
LOE	144.06	275	ePKP	58	49.00	-1.8
ELL	144.62	51	iPKP	58	51.00	-0.4
KAS	145.11	41	iPKPd	58	51.20	-0.8
BBTK	145.26	44	iPKP	58	52.00	-0.3
NST	145.35	272	iPKPd	58	54.50	1.6
BDT	146.63	274	ePKP	58	55.20	0.2
	0.9s	109.00nm				
CHG	146.83	277	ePKPd	58	54.90	-0.5
	1.5s	227.78nm				
BSI	147.03	252	ePKPd	58	46.20	-9.6X
NAI	147.17	123	iPKP	58	58.50	2.2
PPCY	147.17	53	ePKP	58	57.00	1.6
WMO	147.31	327	PKP	58	55.00	-0.5
CSS	147.88	52	ePKP	59	00.00	3.4X
HLW	147.97	62	ePKP	58	56.50	-0.4
FAM	148.37	51	ePKP	59	01.00	3.6X
BHL	150.07	52	PKP	59	04.00	3.8X
AKSR	150.53	74	ePKP	59	02.00	1.0
HOL	151.24	61	ePKPc	59	02.00	0.1
BADA	151.41	63	ePKPc	59	03.00	0.9
AYN	152.15	62	ePKPc	59	04.00	0.8
LSA	152.57	300	PKP	59	02.80	-1.7
SHL	153.01	291	ePKP	59	04.00	-0.8
MSL	153.96	41	ePKP	59	05.60	0.0
SLY	155.91	39	ePKPd	59	08.50	0.3
KSH	156.11	337	PKP	59	09.00	0.4
BHD	156.67	45	ePKP	59	10.00	0.7
GUN	157.52	300	PKP	59	10.38	-0.6
PKI	158.04	300	PKP	59	10.64	-1.0
KKN	158.06	301	PKP	59	10.52	-1.0
	1.6s	211.00nm				
GAR	158.24	347	ePKP	59	11.50	0.3
DMN	158.27	300	PKP	59	10.94	-0.8
GKN	158.50	302	PKP	59	10.64	-1.2
	1.3s	112.00nm				
IR7	158.65	31	iPKPd	59	12.50	0.7
IR1	158.92	31	iPKPd	59	13.70	1 6
IR4	159.16	31	iPKPd	59	13.50	1.1
OASM	159.37	63	ePKPc	59	13.00	0.3
AFIF	159 63	69	ePKPc	59	13.50	0 4
MJMA	160.94	62	ePKP	59	14.50	0.1
MAIO	161.23	11	iPKPd	59	16.00	1 6
		e		03	46.00	
RYD	162 45	64	ePKPc	59	17 00	1 1
NDI	163 78	314	iPKPd	59	17.80	0 7
DHR	164.69	54	ePKPc	59	18.00	0.1
OUE	167.45	348	iPKPd	59	21.80	1.5
	1.4s	720.93nm				
		e		00	26.20	

S.D. = 0.9 on 279 of 306 obs.

% SEP 15, 1991 07h 18m 50.49± 0.87s
3.919 N ±11.1km 76.325 W ±22.0km
DEPTH = 100.0km (geophysicist)
COLOMBIA (103)
MD 2.9 (UVC).

CLMC	0.24	261	ePc	19	06.02	-0.5
			eS	19	17.80	
HOBC	0.47	24	eP	19	06.62	0.2
			eS	19	18.80	
HOOC	0.54	215	iPc	19	07.17	0.0
			eS	19	19.80	
ANCC	0.67	233	eP	19	08.25	0.3
			eS	19	21.60	
SILC	1.22	181	ePc	19	14.15	0.0
			eS	19	32.00	
PURC	1.59	181	eP	19	18.72	0.0

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

SEP 15, 1991 07h 19m 03.66± 0.84s
42.291 N ± 6.8km 25.465 E ± 6.8km
DEPTH = 5.0km (geophysicist)
BULGARIA (359)
MD 3.4 (THE).

DIM	0.25	168	iPgc	19	09.00	0.3
			iSg	19	11.00	
PLD	0.60	252	iPgc	19	14.00	-1.6
			iSg	19	21.00	
KDZ	0.64	183	iPgc	19	15.00	-1.5
			iSg	19	23.00	
RZN	0.82	223	iPgd	19	18.00	-2.2
			iSg	19	29.00	
JMB	0.85	78	iPgd	19	30.00	9.5X
PVL	0.93	354	iPc	19	21.00	-0.9
			iSg	19	37.00	
ALN	1.46	162	iPd	19	30.33	-0.3
			eS	19	50.32	
MMB	1.47	242	iPd	19	31.00	0.1
			iS	19	53.00	
VTS	1.70	281	iPd	19	34.00	-0.2
			iSg	20	00.00	
DMK	1.77	105	ePn	19	35.50	0.4
KKB	1.82	257	iP	19	37.00	1.1
SRS	1.83	231	ePd	19	37.12	1.1
			iS	20	02.46	
KNT	2.23	240	ePd	19	42.96	1.2
			iS	20	14.16	
OUR	2.25	210	ePd	19	43.60	1.5
			eS	20	14.00	
VAY	2.37	247	ePn	19	47.50	3.7X
PSN	2.43	54	ePg	19	50.00	5.3X
GRG	2.66	241	ePd	19	48.95	1.0
MLR	3.22	6	eP	20	06.50	10.5X

S.D. = 1.3 on 14 of 18 obs.

% SEP 15, 1991 08h 55m 27.95± 1.14s
46.836 N ± 8.0km 2.208 E ± 7.6km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.1 (LDG).

BGF	0.52	122	Pg	55	38.40	-0.1
			Sg	55	45.00	
TCF	0.55	180	Pg	55	39.20	0.2
			Sg	55	46.50	
MAF	0.66	158	Pg	55	41.00	-0.1
			Sg	55	50.00	
LSF	0.75	219	Pg	55	42.60	0.0
			Sg	55	52.00	
AVF	0.79	93	Pg	55	43.20	-0.1
			Sg	55	53.00	
SSF	0.92	75	Pg	55	45.50	0.0
			Sg	55	57.20	
SMF	1.14	99	Pg	55	49.40	0.1
			Sg	56	03.80	
LOR	1.21	68	Pg	55	50.40	-0.1
			Sg	56	06.00	
LBF	1.22	82	Pg	55	50.80	0 1
			Sg	56	06.40	

S.D. = 0.1 on 9 of 9 obs

% SEP 15, 1991 09h 34m 00.61± 0.82s
40.814 N ± 7.0km 29.633 E ± 7.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

HRT	0.03	74	iPg	34	02.50	-0.2
GBZT	0.14	260	ePg	34	03.40	-0.6
			iSg	34	05.50	
YLV	0.32	219	iPg	34	07.00	-0.2
			iSg	34	11.50	
IZI	0.49	194	ePg	34	11.00	0.4
CTT	0.97	290	ePg	34	19.50	0.5
			eSg	34	33 00	
DMK	1.73	306	ePn	34	31.00	0.0

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

SEP 15, 1991 10h 27m 37.18± 0.81s
6.839 S ± 4.5km 147.333 E ± 6.8km
DEPTH = 82.6 ± 7.4 km
5.1mb (24 obs.)
EASTERN NEW GUINEA REG., P.N.G. (207)

YYYY	1.48	294	iPd	28	03.80	0.9
			eS	28	07.90	
MDG	2.21	316	iPd	28	15.00	2.5
PMG	2.56	184	iPd-	28	17.10	-0.3
			eS	28	48.50	
RAB	5.49	62	iPd	28	57.20	-0.9
	0.8s	358.21nm			5.7mb	
JAY	7.88	303	ePd	29	40.50	9.3X
HNR	12.75	103	P	30	41.00	4.3X
			S	33	09.00	
CTA	13.21	184	iPc	30	45.00	2.2
	1.3s	144.23nm			5.4mb	
		i		30	55.00	
		i		31	01.00	
		i		31	43.00	
		i(S)		33	06.00	
OIS	15.56	208	iPc	31	12.50	-0.6
	0.6s	24.00nm			4.6mb	
MTN	17.04	248	eP	31	30.00	-1.7
WR2	18.12	223	iPc	31	42.20	-2.8
	0.5s	53.10nm			5.0mb	
		iS		34	56.70	
RMO	19.59	176	iPc	32	12.00	10.6X
	1.0s	75.00nm				
OLP	19.86	188	iPc	32	04.40	0.2
	0.6s	223.00nm			5.7mb	
KNA	20.23	242	eP	32	05.60	-2.5
GUA	20.39	353	eP	32	08.50	-1.2
	0.7s	120.55nm			5.3mb	
PJG	20.44	353	eP	32	08.20	-2.1
BRS	21.08	166	iPd	32	16.80	0.0
	0.9s	10.00nm			4.2mb	
		i		32	20.80	
		i		32	28.00	
ASPA	21.13	216	iPd	32	16.80	-0.5
	0.8s	87.20nm			5.1mb	
		eS		36	07.80	
DZM	23.86	131	iPc	32	44.40	0.2
COO	24.00	170	eP	32	46.90	1.5
	0.8s	23.00nm			4.7mb	
CMS	24.56	183	eP	32	51.10	0.4
STK	25.49	191	iPc	32	59.80	0.5
	0.7s	15.10nm			4.6mb	
		eS		37	36.20	
BWA	27.47	178	eP	33	16.80	-0.7
WARB	27.55	223	eP	33	18.50	0.2
CAN	28.39	177	eP	33	26.10	0.3
FORR	29.92	215	eP	33	39.20	-0.3
MBL	30.17	239	eP	33	41.00	-0.8
BFD	30.51	188	iPc	33	44.20	-0.4
	0.9s	32.00nm			5.1mb	
COOL	34.26	222	eP	34	16.50	-0.9
NANU	34.39	240	eP	34	18.50	-0.1
	0.5s	22.00nm			5.3mb	
MRWA	36.98	229	eP	34	40.60	0.2
	0.5s	20.00nm			5.3mb	
KLB	37.00	224	eP	34	39.00	-1.5
	0.3s	10.00nm			5.2mb	
BAL	37.19	227	eP	34	42.00	-0.2
NWAO	38.14	223	eP	34	50.00	-0.1
MUN	38.30	225	eP	34	51.80	0.3
MAT	43.99	349	iPd	35	36.30	-1.8
	1.1s	27.85nm			5.0mb	
		eS		42	06.00	
OFUJ	45.99	354	P	35	53.40	-0.4
IPM	47.59	283	ePc	36	07.20	0.2
	0.8s	62.50nm			5.6mb	
AOMJ	47.60	353	eP	36	06.50	0.0
SNG	48.64	286	eP	36	15.90	0.9
NST	51.82	296	eP	36	41.00	1.8
KHT	52.88	294	eP	36	48.40	1.3
CHG	54.08	299	ePc	36	56.60	0.7
	1.0s	22.25nm			5.1mb	
XAN	54.54	321	P	36	57.10	-2.0
			pP	37	17.50	81kmX
CD2	56.09	314	P	37	09.20	-1.2
SHL	62.75	303	iP	37	56.00	-0.5
GTA	63.59	320	P	38	01.40	-0.3
	0.8s	10.00nm			4.8mb	

15d 10h

```
GUN     68.60 303 P      38 34.40    0.3
        0.7s     61 00nm          5.6mb
PKI     68.88 303 P      38 35.96    0.2
KKN     69.06 303 P      38 37.34    0.6
        0.8s     61.00nm          5.6mb
DMN     69.14 303 P      38 38.12    0.8
GKN     69.67 303 P      38 40.94    0.5
KOD     71.61 283 eP     38 53.30    0.8
HYB     72.06 291 eP     38 54.50   -0.4
GBA     72.29 287 Pc     38 56.90    0.8
        1.1s     10.50nm          4.6mb
WMQ     73.64 319 eP     39 04.50    0.8
MAW     81.61 203 iPd    39 47.50    0.5
        0.9s     16.00nm          4.9mb
SPA     83.21 180 iPc    39 57.00    1.5
        0.7s     39.06nm          5.5mb
QUE     85.16 301 eP     40 07.40    1.3
FBA     85.82  23 P      40 07.80   -0.6
        1.0s      2.60nm          4.2mb
HFS    116.45 336 ePKP   46 11.20   -1.5
        0.5s      1.50nm
CNCB   137.91 124 PKP    46 48.00   -7.7X
LPB    137.95 124 PKP    46 54.00   -1.6
ZOBO   138.07 124 PKP    46 56.80    0.8
SIV    143.87 129 PKP    47 03.40   -2.1
PPD    145.98 148 ePKP   47 10.00    1.0
VAO    147.21 155 ePKP   47 14.00    3.0X
KIC    152.26 271 PKP    47 20.96    2.1
LIC    152.53 270 PKP    47 21.10    1.9
TIC    152.54 271 PKP    47 21.30    2.0
BAO    153.00 146 ePKPd  47 29.30    9.3X
     S.D. = 1.2  on  64 of  70 obs.
-------------------------------------------
   SEP  15, 1991  10h 40m 27.02± 0.55s
   33.994 N ± 9.2km   24.902 E ± 5.3km
   DEPTH =  10.0km  (geophysicist)
   4.1mb (  8 obs.)
 CENTRAL MEDITERRANEAN SEA          (400)
     ML 4.4 (CSS). MD 4.2 (ATH).

NPS      1.40  25 ePb    40 51.40   -1.1
                 eSb    41 09.30
VLI      3.16 330 ePn    41 20.10    2.4
ELL      4.93  55 iPn    41 44.00    1.0
KHL      5.71  40 ePn    41 50.00   -4.0X
PPCY     6.21  80 eP     42 02.50    1.5
                 eS     43 09.50
CSS      7.03  80 eP     42 11.00   -1.5
                 eS     43 25.60
VAY      7.54 347 eP     42 27.40    7.7X
OHR      7.82 337 eP     42 28.50    5.0X
SOI      8.24 302 P      42 29.00   -0.4
                 eSn    43 57.00
ROI      8.70 312 P      42 36.70    0.9
ATN      8.70 301 P      42 36.00    0.2
CZI      8.77 309 P      42 36.10   -0.6
MMN      9.24 312 P      42 41.20   -2.1
MGR      9.66 312 P      42 58.90    9.8X
                 eSn    44 29.00
HOL      9.85 116 eP     42 51.00   -0.6
                 eS     44 37.00
BADA    10.22 120 eP     42 57.00    0.3
                 eS     44 50.00
AYN     10.77 115 eP     43 04.00   -0.2
                 eS     45 00.00
PGF     15.11 309 eP     44 08.10    5.8X
        0.9s     11.45nm          4.3mb
WTTA    16.61 327 e(P)   44 13.00   -8.6X
        1.1s     11.80nm          3.9mb
                 i      44 24.90
                 i      44 43.50
KHC     17.30 334 eP     44 31 00    0.9
WET     17.57 333 eP     44 34.30    0.8
PRU     17.71 338 eP     44 34.50   -0.7
LPG     18.03 315 eP     44 43.40    3.9X
LPL     18.05 315 eP     44 43.40    3.7X
GRF     18.66 331 e(P)   44 40.00   -6.9X
     Z  20s      0.10um
GRFO    18.66 331 P      44 45.90   -1.0
CLL     19.35 337 iPc    44 53.70   -1.6
BSF     19.39 321 eP     44 56.50    0.6
HAU     19.73 321 eP     44 59.70    0.0
LBF     20.46 316 eP     45 07.30    0.0
        0.7s      3.30nm          3.8mb
LOR     20.67 316 eP     45 10.00    0.5
        0.7s      2.75nm          3.7mb
BGF     20.91 313 eP     45 12.60    0.7
        0.5s      3.30nm          4.0mb
LSF     21.57 312 eP     45 19.60    0.9
DOU     21.94 323 P      45 19.80   -2.5
OBN     22.63  18 eP     45 29.00   -0.1
MFF     22.77 311 eP     45 32.50    1.9
LDF     23.65 316 eP     45 39.00   -0.1
LPF     23.94 314 eP     45 41.80   -0.1
        0.6s      4.50nm          4.2mb
FLN     23.94 316 eP     45 41.70   -0.2
        0.6s      3.60nm          4.1mb
GRR     23.99 315 eP     45 41.80   -0.6
GKN     50.94  80 P      49 31.60    0.7
DMN     51.47  80 P      49 35.20    0.1
KKN     51.54  80 P      49 35.40   -0.2
        0.7s     14.00nm          5.0mb
PKI     51.73  80 P      49 36.80   -0.4
GUN     51.99  79 P      49 39.20    0.1
     S.D. = 1.1  on  36 of  45 obs.
-------------------------------------------
?  SEP  15, 1991  10h 45m 44.69± 8.26s
   40.654 N ±10.4km   30.008 E ±55.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)

HRT      0.31 303 iPg    45 50.50   -0.6
YLV      0.49 260 iPg    45 54.80    0.1
                 eSg    46 04.80
IZI      0.52 232 iPg    45 55.00   -0.2
                 eSg    46 04.00
ISK      0.83 300 ePg    46 01.00    0.3
CTT      1.29 293 ePn    46 09.00    0.3
     S.D. = 0.6  on   5 of   5 obs.
-------------------------------------------
•  SEP  15, 1991  11h 01m 22.26± 2.02s
   41.765 N ±20.3km   24.348 E ± 7.7km
   DEPTH =   5.0km  (geophysicist)
 GREECE-BULGARIA BORDER REGION      (363)

SRS      0.86 222 iPd    01 39.21   -0.1
SOH      1.20 219 iPc    01 45.66    0.5
                 iS     02 00.85
KNT      1 25 242 ePd    01 45.92    0.1
                 eS     02 03.40
VAY      1.41 252 ePn    01 48.40   -0.1
OUR      1.46 191 ePd    01 48.80   -0.4
                 iS     02 11.37
ALN      1.54 124 ePc    01 50.60    0.1
                 eS     02 11.16
     S.D. = 0.4  on   6 of   6 obs.
-------------------------------------------
•  SEP  15, 1991  13h 06m 41.87± 2.00s
   15.005 S ±11.4km  167.219 E ±15.9km
   DEPTH = 175.0 ± 16.6 km
   4.6mb (  6 obs.)
 VANUATU ISLANDS                    (186)

DZM      7.07 186 iPd    08 23.50   -0.4
                 iS     09 45.10
HNR      9.01 307 P      08 50.00    0.5
                 S      10 30.00
RMQ     20.67 234 eP     11 22.70   13.1X
        0.6s     18.00nm
CMS     25.52 226 iPc    11 56.70    0.7
        0.2s      3.00nm          4.6mb
STK     28.78 230 iPc    12 26.80    1.4
        0.4s      8.30nm          4.8mb
                 e      15 31.00
WR2     31.69 256 eP     12 49.40   -1.7
        0.2s      2.30nm          4.6mb
                 e      15 37.90
ASPA    32.53 249 iPc    12 57.10   -1.3
        1.2s      8.10nm          4.3mb
FORR    39.10 239 eP     13 54.10    0.4
        0.3s      3.00nm          4.4mb
SPA     75.09 180 iPd    18 05.80   -0.2
        0.8s     10 42nm          4.6mb
CHTO    75.15 294 P      18 06.80   -0.1
FBA     86.63  18 P      19 05.30   -0.9
CDF    142.81 338 ePKP   25 53.10   -3.0
HAU    143.49 338 ePKP   25 54.60   -2.6
SFJ    144.35 329 PKP    26 07.30    8.6X
PGD    144.45 329 PKP    26 07 40    8.3X
MME    144.71 330 PKP    26 08.10    8.4X
LDF    144.92 345 iPKPc  25 59.70    0.2
        1.2s     23.80nm
LOR    144.98 340 iPKPc  25 59.00   -0.7
        0.7s      7.15nm
SSF    145.28 340 iPKPc  26 00.20    0.0
        0.9s     33.60nm
GRR    145.29 346 iPKPc  25 59.80   -0.3
        0.5s     11.65nm
LPL    145.42 336 iPKPc  26 01.10    0.3
        0.6s      8.10nm
LPG    145.43 336 iPKPc  26 01.30    0.4
        0.5s      7.65nm
SMF    145.53 340 iPKPc  26 00.60   -0.1
        1.0s     16.00nm
AVF    145.56 340 iPKPc  26 00.60   -0.1
        1.0s      9.00nm
LPF    145.67 346 iPKPc  26 01.10    0.3
        0.7s     16.55nm
BGF    145.93 341 iPKPc  26 02.00    0.7
        0.5s      9.50nm
MAF    146.32 341 iPKPc  26 03.30    1.3
        0.7s      4.40nm
TCF    146.37 341 iPKPc  26 03.30    1.2
        0.9s      9.85nm
SBF    146.47 333 ePKP   26 03.30    0.9
LSF    146.62 342 iPKPc  26 03.80    1.4
        0.9s     16.40nm
PGF    146.77 330 iPKPc  26 04.30    1.4
        0.9s     16.40nm
MFF    146.77 344 iPKPc  26 04.40    1.8X
        0.7s     12.15nm
FRF    147.05 334 iPKPc  26 05.10    1.9X
        0.9s      9.85nm
LRG    147.26 334 iPKPc  26 05.80    2.3X
        0.9s      8.20nm
LMR    147.29 334 iPKPc  26 05.80    2.2X
        0.9s      8.20nm
RJF    147.47 341 iPKPc  26 06.50    2.7X
        0.5s      4.35nm
CAF    147.63 340 iPKPc  26 07.10    3.0X
        1.0s      8.00nm
LFF    148.04 342 iPKPc  26 09.20    4.5X
        0.6s      9.90nm
LPO    148.13 341 ePKP   26 08.30    3.4X
        0.6s      6.30nm
EPF    149.89 341 ePKP   26 12.90    5.2X
     S.D. = 1.2  on  27 of  40 obs.
-------------------------------------------
?  SEP  15, 1991  13h 25m 23.70± 4.81s
   33.706 S ±13.8km   72.171 W ±33.9km
   DEPTH =  10.0km  (geophysicist)
 OFF COAST OF CENTRAL CHILE         (134)

LCCH     0.55  65 iPd    25 35.60    0.7
                 iS     25 42.00
LNV      0.68 112 iPd    25 38.00    0.8
IHA      0.81  33 iPd    25 39.10   -0.3
                 iS     25 49.70
TACH     1.03  87 iPd    25 42.60   -0.6
                 iS     25 56.00
ROCH     1.22  53 iPd    25 46.30   -0.2
                 iS     26 01.40
CHCH     1.28 101 iPd    25 47.20   -0.4
                 iS     26 03.40
SAN      1.29  79 iP     25 47.00   -0.6
                 iS     26 02.50
PEL      1.36  66 iPd    25 49.00    0.2
                 iS     26 06.20
PCH      1.38  87 iPd    25 48.70   -0.4
                 iS     26 06.80
JACH     1.67  53 iPd    25 54.00    0.8
                 iS     26 14.50
     S.D. = 0.6  on  10 of  10 obs.
-------------------------------------------
•  SEP  15, 1991  14h 57m 56.36± 0.95s
   5.372 S ± 9.2km  146.859 E ±13.5km
   DEPTH = 224.3 ±  6.9 km
   5.1mb (  6 obs.)
 EASTERN NEW GUINEA REG., P.N.G.    (207)

MDG      1.08 276 iPc    58 29.00   -0.4
YYYY     1.24 226 iPc    58 30.80    0.1
                 eS     58 54.80
JAY      6.76 295 iPc    59 34.80    0.3
CTA     14.64 182 iPd    01 15.00    0.5
                 i      01 25.00
                 i      01 43.00
CTAO    14.64 182 iPd    01 15.00    0.5
        1 5s   215.05nm          5.3mb
                 i      01 25.00
                 i      01 43.00
```

```
QIS    16.66 204 iPd   01 37.60  -1.3
       0.6s    27.00nm          4.9mb
WR2    18.91 219 iPc   02 01.90  -0.7
       0.6s    83.10nm          5.4mb
                 ipP   02 05.40
                 iS    05 24.20
KNA    20.54 238 eP    02 19.50   0.6
RMO    21.08 175 iPd   02 35.10  11.0X
       0.6s    14.00nm
ASPA   22.06 213 iPd   02 35.10   1.4
       0.6s    67.20nm          5.4mb
                 ipP   02 44.80  36kmX
                 eS    06 28.00
                 esS   06 38.70
BRS    22.61 166 iP    02 39.50   0.4
STK    26.83 190 eP    03 29.80  11.8X
       0.6s     3.90nm
WARB   28.31 221 eP    03 31.60   0.1
FORR   30.88 213 eP    03 53.20  -0.7
       0.4s     3.00nm          4.3mb
BFD    31.90 187 iPc   04 01.90  -0.8
       0.7s    20.00nm          4.9mb
FBA    84.66  23 P     10 05.50  -0.1
PPD   147.47 147 (PKP) 17 18.00   4.8X
     S.D. = 0.8  on  14 of  17 obs.
-------------------------------------
   SEP  15, 1991  15h 10m 31.59± 0.41s
    1.696 S ± 5.9km   12.833 W ± 8.8km
   DEPTH =  10.0km  (geophysicist)
   4.9mb ( 27 obs.)  4.5Msz ( 10 obs.)
 NORTH OF ASCENSION ISLAND          (407)

LIC    11.07  45 P     13 12.20  -0.9
     Z  20s     2.50um
KIC    11.37  45 P     13 14.50  -2.7
                 S     15 12.00
                 TT    21 26.00
KIC    11.37  45 P     13 14 62  -2.6
WIN    35.72 128 eP    17 25.00  -7.8X
TOL    42.15  10 eP    18 24.00  -1.9
CER    43.57 140 e(P)  18 35.00  -2.6
KRI    44.37 112 iPd   18 47.30   2.8
BUL    44.43 117 iPd   18 46.00   1.0
KIM    44.82 131 iPc   18 49.00   1.0
       1.2s    31.25nm          5.1mb
FRS    45.73 131 iPc   18 56.20   1.3
       1.3s    67.31nm          5.5mb
EPF    46.08  13 iPc   18 58.90   1.3
MTD    46 18 112 iPd   18 57.20  -1.6
SLR    46 22 125 iPc   18 57.50  -1.6
       1.0s    30.00nm          5.3mb
SEK    46.81 128 iPd   19 04.80   1.0
       0.7s    13.70nm          5.1mb
LPO    47.84  13 eP    19 12.00   0.6
LRG    48.14  19 iPc   19 15.10   1.4
       0.9s     8.20nm          4.8mb
     Z  21s     0.65um          4.6Msz
CAF    48.28  14 iPc   19 15.40   0.5
       1.0s    11.00nm          4.9mb
FRF    48.33  19 iPc   19 16.30   1.1
       1.1s    12.20nm          4.9mb
RJF    48.50  14 iPc   19 17.10   0.6
     Z  22s     0.25um          4.2Msz
SBF    48.86  19 iPc   19 20.50   1.1
       0.9s    19.65nm          5.1mb
STV    49.16  19 P     19 22.97   1.3
PZZ    49.32  19 P     19 24.30   1.3
ROB    49.38  20 P     19 24.61   1.2
LSF    49.40  13 iPc   19 24.30   0.9
FIN    49.42  20 P     19 24.20   0.5
SIV    49.58 250 P     19 25.00  -0.3
RRL    49.59  18 P     19 26.25   1.0
TCF    49.59  14 iPc   19 26.00   1.0
       1.0s     8.00nm          4.7mb
MAF    49.61  14 iPc   19 26.30   1.2
       1.1s     7.35nm          4.6mb
PCP    49.83  20 P     19 28.91   2.1
BGF    50.00  14 iPc   19 29.00   1.0
       1.0s     9.00nm          4.7mb
LPG    50.10  18 iPc   19 30.60   1.4
       0.9s     9.85nm          4.8mb
LPL    50.11  18 iPc   19 30.60   1.4
       0.9s    10.65nm          4.8mb
LSD    50.19  18 P     19 30.86   1.0
SMF    50.33  15 iPc   19 31.10   0.5
AVF    50.34  14 iPc   19 31.30   0.7
LPF    50.58  10 iPc   19 32.60   0.2

ORX    50.61  19 P     19 31.68  -1.1
SSF    50.63  14 iPc   19 33.60   0.8
LBF    50.68  15 iPc   19 33.60   0.3
       0.9s     8.20nm          4.7mb
LOR    50.91  15 iPc   19 35.40   0.4
       0.9s     4.90nm          4.4mb
     Z  19s     0.25um          4.3Msz
GRR    50.96  10 iPc   19 35.60   0.3
LDF    51.29  11 iPc   19 38.10   0.3
BBS    52.10  17 P     19 43.78  -0.2
BSF    52.22  17 iPc   19 44.60  -0.4
HAU    52.25  16 iPc   19 45.10  -0.1
       0.9s     6.55nm          4.6mb
     Z  19s     0.32um          4.4Msz
VITF   52.34  16 P     19 45.62  -0.2
FEL    52.62  18 P     19 47.17  -0.9
ECH    52.67  17 P     19 47.53  -0.8
OGA    52.71  20 iPc   19 48.70  -0.1
       1.0s     8.00nm          4.6mb
CDF    52.88  17 P     19 49.13  -0.8
WTTA   53.26  21 iPd   19 52.10  -0.8
       1.1s    28.60nm          5.1mb
                 i     19 59.50
                 e     21 46.00
SKO    53.39  32 iP    19 55.40   1.8
GWF    53.49  17 P     19 53.90  -0.4
KBA    53.73  22 iPd   19 56.20  -0.1
                 i     20 02.40
                 i     20 12.60
ENN    54.67  14 eP    20 03.00   0.1
       0.9s    10.00nm          4.8mb
GRF    55.22  19 ePd   20 06.50  -0.5
     Z  18s     0.20um          4.2Msz
                 e     20 13.90
WET    55.30  20 eP    20 07.10  -0.5
       1.0s    16.00nm          5.0mb
                 i     20 14.50
KHC    55.54  21 Pd    20 08.50  -0.8
       1.1s     5.40nm          4.5mb
     Z  18s     0.40um          4.5Msz
     N  18s     0.10um
     E  18s     0.40um
                 e     20 16.00
                 e     22 11.50
VKA    55.85  23 iPc   20 11.80   0.3
WTS    56.02  15 eP    20 13.00   0.4
       1.0s    21.00nm          5.1mb
ZST    56.10  24 eP    20 12.80  -0.5
BZS    56.11  29 eP    20 11.50  -1.9
MOX    56.17  18 ePd   20 13.00  -0.9
       1.6s    18.00nm          4.9mb
CNCB   56.25 251 P     20 14.00  -1.6
SRO    56.30  25 eP    20 08.60  -6.1X
                 e     20 14.70
ZOBO   56.30 252 P     20 13.80  -2.2
     Z  20s     0.76um          4.8Msz
                LR     37 08.00
LPB    56.32 251 eP    20 06.00  -9.9X
     Z  18s     1.37um          5.1Msz
                LR     39 40.00
PRU    56.60  21 P     20 15.70  -1.2
     Z  18s     0.30um          4.4Msz
                 e     20 23.30
BRG    57.14  20 eP    20 19.80  -0.9
       1.6s    17.00nm          4.8mb
                 e     22 28.00
CLL    57.19  19 eP    20 20.00  -1.1
       1.5s    19.00nm          4.9mb
                 i     20 27.60
KSP    57.94  21 ePc   20 25.70  -0.6
SPC    58.17  25 eP    20 28.00  -0.2
MLR    58.18  31 eP    20 28.00  -0.3
KRA    58.72  24 eP    20 30.00  -1.8
     Z  20s     0.90um          4.9Msz
     E  20s     1.00um
                 e     20 38.50
HFS    65.03  14 eP    21 12.70  -1.3
       0.9s    20.00nm          5.3mb
     Z  17s     0.14um          4.2MszX
                LR     47 36.00
OBN    69.54  28 eP    21 42.00  -0.4
                 e     21 48.00
SOD    74.24  15 iP    22 10.20  -0.1
OUE    82.02  59 eP    22 57.40   3.4X
MEO    87.46 305 iPd   23 20.20  -0.8
SPA    88.32 180 iPc   23 26.90   2 3
       1.2s    19.01nm          5.3mb

WR2   141.30 125 ePKP  29 58.60  -6.8X
       0.9s     2.00nm
QIS   145.10 131 iPKPd 30 11.80  -0.1
       0.8s    22.00nm
RMO   146.82 149 ePKP  30 27.00  12.4X
CTA   150.18 138 iPKPc 30 25.20   5.2X
       1.0s    12.50nm
     S.D. = 1.2  on  78 of  85 obs.
-------------------------------------
&  SEP  15, 1991  15h 49m 44.50s
    32.050 N          114.970 W
    DEPTH =   6.0km  (geophysicist)
 W. ARIZONA-SONORA BORDER REGION ( 46)
      <PAS-P>. ML 3.4 (PAS).

GLA     1.01   7 eP    50 02.00  -2.0
BAR     1.57 294 eP    50 11.80  -1.2
                eS     50 32.30
PLM     2.06 310 e(P)  50 22.00   1.8
PEC     2.60 316 e(P)  50 33.00   5.2
SSK     3.14 314 e(P)  50 40.00   4.4
      5 obs. ossociated
-------------------------------------
%  SEP  15, 1991  16h 13m 02.50± 2.30s
    38.154 N ±22.1km   27.661 E ± 9.1km
    DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)

IZM     0.40 308 iPg   13 10.00  -0.6
                eSg    13 14.50
KHL     1.48  83 ePn   13 29.30   0.1
EZN     1.97 328 ePn   13 37.00   0.8
EDC     2.20   4 ePn   13 40.00   0.5
IZI     2.59  32 ePn   13 45.00  -0.3
YLV     2.75  28 ePn   13 47.00  -0.5
     S.D. = 0.7  on   6 of   6 obs.
-------------------------------------
&  SEP  15, 1991  16h 57m 43.30s
    48.614 N          123.014 W
    DEPTH =  20.1km
 VANCOUVER ISLAND REGION            ( 25)
      <PGC>. ML 3.1 (PGC). MD 3.0
      (SEA). Felt mildly at Richmond
      and Sidney, British Columbia.
      Also felt at Ferry Landing and
      Deer Harbor, Washington.

MCW     0.14  61 Pc     57 46.95  -0.8
SNB     0.19 327 Pc     57 47.92  -0.5
VGZ     0.29 226 P      57 49.32  -0.5
PGC     0.29 277 Pd     57 49.23  -0.6
OHW     0.43 132 Pd     57 51.78  -0.4
BLN     0.61 177 Pd     57 54.85  -0.3
                S      58 02.90
CMW     0.62 107 P      57 54.95  -0.6
                S      58 04.15
STW     0.64 224 Pc     57 55.23  -0.4
                S      58 04.15
HNB     0.72  23 Pd     57 55.97  -1.1
VDB     0.73  55 Pc     57 56.35  -0.9
MBW     0.76  77 Pd     57 57.35  -0.5
BIB     0.82 346 Pd     57 57.53  -1.1
JCW     0.84 120 Pd     57 58.37  -0.7
                S      58 09.52
NAB     0.89 313 Pd     57 58.65  -1.3
OBC     0.92 231 Pc     57 59.90  -0.5
                S      58 12.50
OSD     0.92 210 Pc     58 00.18  -0.4
                S      58 12.54
PFB     0.95 268 Pd     57 59.72  -1.2
HDW     0.97 182 P      58 00.33  -1.0
                S      58 14.14
RPW     1.01  99 Pd     58 01.47  -0.6
                S      58 14.92
BLH     1.02 139 Pd     58 01.80  -0.3
                S      58 15.62
OTR     1.03 240 Pc     58 01.95  -0.5
WPB     1.05 353 Pd     58 01.26  -1.4
GMW     1.08 172 P      58 02.09  -1.1
OSP     1.10 253 P      58 02.49  -1.0
                S      58 17.50
OFK     1.12 234 P      58 03.60  -0.1
SHB     1.14 330 Pd     58 02.70  -1.4
HTW     1.16 134 P      58 03.91  -0.6
                S      58 19.48
OOW     1.18 222 Pc     58 05.22   0.5
SPW     1.18 154 P      58 04.80   0.2
```

15d 16h

SMW	1.31	190	Pd	58	07.38	0.8		SEP 15, 1991 18h 26m 27.51± 0.37s								e	33 53.00	
ALB	1.37	299	P	58	06.34	-0.9		44.822 N ± 3.5km 22.417 E ± 4.4km							WR2	19.01	220 iPc	31 14.30 -0.7
RMW	1.41	144	P	58	07.93	-0.1		DEPTH = 10.0km (geophysicist)								0.7s	167.10nm	5.5mb
MEW	1.43	170	P	58	09.12	0.9		ROMANIA					(358)				eS	34 40.50
WHB	1.52	1	P	58	09.11	-0.4		MG 3.5 (BEO).							RMO	20.76	176 iPd	31 44.10 11.4X
GSM	1.63	149	P	58	11.37	0.1										0.6s	62.00nm	
CPW	1.64	183	P	58	12.31	0.9	SRE	0.58	106 iPc	26	40.60	1.3			OLP	21.02	188 iPd	31 36.00 0.7
			S	58	35.03		BZS	0.98	325 ePd	26	44.50	-1.5				0.7s	62.00nm	5.2mb
GHW	1.65	162	P	58	12.06	0.7	DEV	1.12	18 iPd	26	48.50	0.1			ASPA	22.10	215 iPd	31 47.20 1.3
OZB	1.68	283	P	58	11.59	-0.2	DRA	1.32	96 iPd	26	56.00	4.1X				0.6s	37.90nm	5.0mb
ONR	1.81	197	Pc	58	14.38	0.7	BEO	1.40	271 iPg	26	54.40	1.4					eS	35 41.60
			S	58	38.62				iSg	27	16.40				BRS	22.23	167 iPd	31 47.50 0.4
RVC	1.81	157	P	58	14.68	0.8	COZ	1.45	69 iPd	26	54.50	0.5				0.9s	8.40nm	4.2mb
BTB	1.86	298	P	58	14.10	-0.5	TNR	1.55	57 ePd	26	56.00	0.8			DZM	24.65	133 iPc	32 10.10 -0.3
NLW	1.86	106	P	58	15.69	1.1	MTUR	1.92	77 eP	27	04.50	3.9X			CMS	25.74	183 eP	32 17.30 -3.0
			S	58	39.76		VTS	2.30	165 iPc	27	07.00	0.8			STK	26.64	191 eP	32 28.30 -0.2
FMW	1.91	151	P	58	15.83	0.5			iPg	27	13.00					0.7s	4.40nm	4.2mb
			S	58	40.90				iS	27	35.00				WARB	28.42	222 eP	32 45.40 0.7
REMR	1.96	156	P	58	16.62	0.5	MLR	2.58	74 eP	27	14.00	3.8X			BWA	28.65	178 eP	32 46.20 -0.4
			S	58	42.19		PVL	2.65	126 eP	27	10.00	-0.9			CAN	29.56	177 eP	32 54.60 -0.1
LMW	2.01	166	P	58	17.67	1.0			iPg	27	17.00				FORR	30.91	213 eP	33 06.50 0.0
			S	58	43.48				iS	27	51.00					0.4s	4.00nm	4.5mb
LON	2.03	156	P	58	17.81	0.8	SKO	2.94	194 ePn	27	17.20	2.1			MAT	42.84	349 (P)	34 46.00 -0.6
			S	58	43.57				e	27	20.70					1.1s	20.25nm	4.6mb
LON	2.03	156	P	58	17.92	0.9			i	27	24.60				FBA	84.73	23 P	39 19.70 0.1
			S	58	45.05				i	28	03.40				YKA	98.71	28 eP	40 26.30 1.6
ETW	2.06	118	Pc	58	18.10	0.6	ISR	2.95	82 eP	27	14.00	-1.3				0.9s	1.00nm	4.3mb
			S	58	45.24		KKB	2.99	170 iP	27	16.00	0.1			ZOBO	138.70	122 PKP	46 16.00 2.9X
CBB	2.09	314	P	58	17.33	-0.5			iPg	27	26.00				SIV	144.59	128 PKP	46 22.00 -0.8
BMW	2.15	184	Pc	58	19.20	0.5			iSg	28	10.00					S.D. = 1.2	on 23 of 25 obs.	
			S	58	24.68		PLD	3.19	148 iPn	27	18.00	-0.6			•	SEP 15, 1991 19h 48m 42.95± 1.41s	
CBSW	2.15	111	P	58	18.86	0.2			iPg	27	28.00					2.287 S ± 9.3km 79.437 W ±22.5km		
WPW	2.16	152	P	58	20.02	1.1	VRI	3.21	69 eP	27	21.50	2.5				DEPTH = 121.5 ± 15.0 km		
			S	58	47.34		UZD	3.22	305 iPn	27	19.00	0.0				NEAR COAST OF ECUADOR		(105)
TBM	2.18	131	P	58	21.10	2.0	MMB	3.37	163 iPd	27	22.00	0.7				MD 4.5 (QUI). Felt in the		
			S	58	50.30				iPg	27	33.00					Guaronda area.		
CZM	2.21	171	P	58	20.64	1.1	VAY	3.50	178 ePn	27	23.30	0.2						
KOSW	2.22	165	P	58	21 03	1.2	BUD	3.56	320 ePn	27	23.60	-0.2						
WTV	2.24	113	P	58	20.71	0.7	PSZ	3.56	331 ePn	27	19.60	-4.3X			QUIL	1.60	19 P	49 13.30 0.8
DHW2	2.26	105	P	58	21.05	0.9	DIM	3.58	140 iPg	27	36.00	11.8X					S	49 35.30
			S	58	51.45		KNT	3.68	174 ePc	27	25.58	0.0			VC1	1.93	32 Pd	49 16.50 -0.2
TDL	2.33	166	Pc	58	22.43	1.1			eS	28	10.50				GGP	2.26	22 P	49 21.50 0.6
			S	58	52.87		SRS	3.80	166 iPc	27	27.10	-0.3			OUR	2.29	23 eP	49 21.00 -0.1
PNT	2.35	71	P	58	22.00	0.6			eS	28	14.00						eS	49 53.30
	0.4s	12.00nm					JMB	3.83	126 eP	27	26.00	-1.8			YANA	2.32	22 Pd	49 22.10 0.5
ERK	2.35	169	Pc	58	22.52	0.9	KDZ	3.85	144 iP	27	27.00	-1.1			ANGL	2.67	45 eP	49 21.80 -4.2X
EBG	2.37	135	Pd	58	23.34	1.5	GRG	3.86	180 ePd	27	29.50	1.2			CAYA	2.76	32 P	49 27.30 -0.1
			S	58	54.94		OHR	3.89	198 ePn	27	32.30	3.6X			COTA	2.83	23 P	49 29.30 1.1
NAC	2.39	141	P	58	23.61	1.5	SOH	4.06	170 iPc	27	30.78	-0.2			PURC	5.52	34 eP	50 05.02 0.5
			S	58	55.06		SRO	4.13	318 eP	27	39.30	7.4X			ANCC	6.31	24 eP	50 13.60 -1.4
SOSW	2.45	166	P	58	24.23	1.2			i	28	20.50						eS	51 23.10
			S	58	55.91		PSN	4.30	103 eP	27	34.00	-0.4			HOOC	6.37	26 eP	50 13.63 -2.4
FL2	2.46	169	Pc	58	24.12	0.9	SPC	4.61	342 eP	27	39.20	0.1			NNA	9.97	165 eP	51 03.00 -1.5
RVW	2.47	176	P	58	24.38	1.1			e	29	16.50					0.5s	4.93nm	4.6mb X
REMW	2.48	167	P	58	25.28	1.7	OUR	4.63	165 iPc	27	38.14	-1.0					eS	57 49.00
ESD	2.49	166	P	58	25.25	1.6	PTJ	4.68	286 e(P)	27	38.80	-1.1			ZOBO	17.81	142 P	52 48.00 2.7X
HSR	2.51	167	P	58	25.16	1.3	LIT	4.72	179 ePd	27	41.21	0.8			LPB	18.02	142 eP	53 02.00 14.3X
JLK	2.54	166	P	58	25.64	1.4	ALN	4.74	145 ePd	27	40.06	-0.7			CNCB	18.31	143 P	52 52.00 0.9
			S	58	58.40		PAIG	4.98	169 ePd	27	42.82	-1.2			SIV	22.64	128 P	53 35.40 0.8
NLO	2.54	187	Pd	58	25.05	0.7	AGG	5.80	181 iPc	27	55.26	-0.4			ANMO	44.87	328 (P)	56 47.50 0.3
LVP	2.58	171	P	58	26.00	1.1	KHC	7.42	309 ePn	28	24.00	5.5X				S.D. = 1.2	on 14 of 17 obs.	
			S	59	03.31				e	29	36.80				&	SEP 15, 1991 19h 53m 55.30s		
CDFW	2.58	165	P	58	26.48	1.6			eSg	29	52.50					34.160 N 117.330 W		
			S	59	00.45			S.D. = 1.1	on 31 of 39 obs.							DEPTH = 9.0km		
SAW	2.59	109	P	58	26.37	1.5										SOUTHERN CALIFORNIA		(43)
			S	59	02.01			SEP 15, 1991 19h 27m 03.29± 0.81s								<PAS-P>. ML 3.2 (PAS). Felt ot		
EPH	2.62	118	P	58	26.56	1.2		5.654 S ± 7.3km 147.346 E ± 9.5km								San Bernardino.		
VTG	2.63	128	P	58	25.98	0.5		DEPTH = 164.4 ± 8.1 km										
ASR	2.65	158	P	58	27.50	1.7		4.7mb (9 obs.)										
MTMW	2.65	168	P	58	27.03	1.2		EASTERN NEW GUINEA REG., P.N.G.					(207)		RVR	0.17	193 iPc	53 59.00 -0.1
			S	59	02.53										PEC	0.30	152 iPd	54 01.30 -0.3
MXC	2.75	137	P	58	28.17	1.0	YYYY	1.49	247 eP	27	35.30	0.9			SSK	0.31	280 iPc	54 01.30 -0.4
GULW	2.86	160	P	58	27.92	-0.9			eS	27	58.90				MWC	0.61	276 iPc	54 06.70 -0.8
BRVW	2.95	135	P	58	30.91	0.8	MDG	1.61	284 eP	27	35.60	0.2			SBB	0.67	322 iPc	54 07.40 -1.3
			S	59	14.27		PMG	3.74	183 iPd	27	59.00	-2.1			PAS	0.70	269 iPc	54 08.10 -1.1
MDW	2.97	131	P	58	30.88	0.6			eS	28	41.00				PLM	0.89	154 ePd	54 11.50 -1.2
WAH2	2.98	127	P	58	30.83	0.5	JAY	7.32	295 eP	28	47.70	-1.0			TPC	1.06	93 iPc	54 14.90 -0.6
CRF	3.03	125	P	58	31.24	0.1	HNR	13.04	107 eP	30	04.00	0.4			CIS	1.17	230 eP	54 16.10 -1.1
OD2	3.14	111	P	58	33.06	0.4			eS	32	38.00				GSC	1.22	21 iPc	54 17.60 -0.5
GBL	3.14	129	P	58	33.25	0.6	CTA	14.39	184 iPc	30	22.00	1.3			BAR	1.58	159 ePd	54 22.40 -1.1
			S	59	20.01				i	30	35.00				ABL	1.71	294 eP	54 25.00 -0.6
RSW	3.22	132	P	58	34.07	0.2	CTAO	14.39	184 iPc	30	22.00	1.3			GLA	2.36	117 eP	54 34.40 -0.5
			S	59	23.03				i	30	35.00				BCH	2.49	295 eP	54 35.00 -1.7
DPW	3.30	101	P	58	35.55	0.5			e	33	06.00					14 obs. associated		
			S	58	43.09		QIS	16.61	206 eP	30	48.30	0 1						
	87 obs. associated							1.0s	165 00nm			5.3mb			&	SEP 15, 1991 22h 03m 11.97s		
									i	31	15.10					61.724 N 149.648 W		

DEPTH = 40.3km
SOUTHERN ALASKA (2)
<AEIC>. ML 3.2 (AEIC), 3.0 (PMR).

PWA	0.13	236	eP	03 18.70	-0.1
PLRM	0.28	118	iPc	03 19.31	-0.7
			eS	03 25.76	
PMR	0.28	118	iPc	03 19.70	-0.3
GHO	0.35	82	iPc	03 20.38	-0.5
			eS	03 27.83	
PMS	0.48	175	iPd	03 22.10	-0.5
SUA	0.59	244	ePd	03 22.96	-1.1
SML	0.63	82	iPc	03 23.70	-0.9
			eS	03 33.08	
KNK	0.65	118	iPc	03 24.13	-0.7
			eS	03 34.04	
CUT	0.74	337	iPd	03 25.34	-0.7
SKT	0.93	287	iPc	03 27.59	-1.1
			eS	03 40.68	
SCM	1.11	83	eP	03 31.03	-0.3
CGLM	1.21	251	iPc	03 32.13	-0.6
			eS	03 47.66	
NCG	1.24	256	iPc	03 32.68	-0.6
			eS	03 49.04	
SLKM	1.25	193	iPd	03 31.93	-1.4
			eS	03 49.60	
HUR	1.26	0	iPd	03 33.31	-0.1
			eS	03 50.28	
SPU	1.28	246	ePc	03 32.95	-0.7
			eS	03 49.54	
BGL	1.39	252	ePc	03 34.93	-0.5
CKL	1.40	249	iPc	03 34.83	-0.6
			eS	03 53.89	
GLI	1.50	123	iPc	03 36.00	-0.8
			eS	03 55.41	
SEW	1.63	176	eP	03 37.68	-0.9
VZW	1.63	113	eP	03 38.27	-0.5
			eS	04 00.29	
KNIM	1.66	145	ePd	03 37.15	-2.0
TOA	1.69	75	iPc	03 40.70	1.1
VLZ	1.70	109	ePc	03 38.80	-0.8
			eS	04 01.36	
RND	1.73	12	iPd	03 40.04	-0.1
TRF	1.76	351	iPd	03 40.47	-0.2
RDT	1.77	230	eP	03 39.63	-1.0
KLU	1.80	96	iPc	03 40.56	-0.5
			eS	04 04.01	
FID	1.82	121	ePc	03 39.99	-1.3
DFR	1.86	234	ePd	03 41.40	-0.6
NNL	1.87	206	eP	03 41.77	-0.3
LTI	1.90	152	ePd	03 40.43	-2.1
KTH	1.93	343	iPd	03 42.86	-0.1
REF	1.93	231	eP	03 42.20	-1.0
RDN	1.94	233	iPc	03 42.09	-1.1
RS2	1.97	231	eP	03 43.25	-0.5
RSO	1.97	231	eP	03 42.81	-0.9
NCT	1.97	235	eP	03 42.98	-0.7
RS1	1.97	231	eP	03 42.96	-0.8
RDW	1.98	232	eP	03 43.23	-0.6
TZL	2.03	79	eP	03 44.96	0.6
MCK	2.04	9	ePd	03 44.87	0.2
SDG	2.09	66	ePc	03 45.89	0.6
HOM	2.29	206	eP	03 44.82	-3.4
PAX	2.32	55	eP	03 49.32	0.7
CNPM	2.34	200	eP	03 47.17	-1.7
INW	2.38	227	eP	03 48.52	-1.0
BWN	2.46	2	eP	03 50.00	-0.5
OPT	2.72	222	eP	03 54.34	0.1
GLB	2.81	93	eP	03 54.40	-1.1
WRH	2.85	14	eP	03 54.82	-1.2
NEA	2.88	5	eP	03 55.59	-0.8
SVW	2.94	260	eP	03 55.70	-1.6
HDA	2.96	23	eP	03 57.02	-0.5
CCB	3.05	15	eP	03 57.75	-1.1
TTA	3.21	295	iPc	03 59.70	-1.5
CROM	3.29	104	eP	04 02.63	0.1
FBA	3.30	14	eP	04 01.40	-1.0
MDM	3.31	11	ePd	04 01.46	-1.2
GLM	3.43	16	eP	04 03.64	-0.7
CDD	3.44	217	eP	04 04.83	0.4
TGL	3.44	103	eP	04 04.32	-0.1
BALM	3.58	98	P	04 06.00	-0.5
KDC	4.24	201	e(P)	04 15.50	-0.2
IMA	4.71	340	eP	04 21.50	-1.1

65 obs. associated

SEP 15, 1991 22h 56m 20.60± 0.20s
31.512 S ± 3.7km 69.936 W ± 5.0km
DEPTH = 110.4km (17 depth phases)
5.2mb (25 obs.)
SAN JUAN PROVINCE, ARGENTINA (137)
Felt (V) in Mendozo and San Juan Provinces. Also felt (IV) ot Santiogo, Chile.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 28S, 60C
Centroid Location:
Origin Time 22:56:26.0 0.2
Lat 31.58S 0.02 Lon 69.96W 0.03
Dep 123.2 1.1 Half-duration 3.2
Moment Tensor; Scale 10**17 Nm
Mrr= 0.12 0.10 Mtt=-1.94 0.20
Mff= 1.82 0.20 Mrt= 0.05 0.10
Mrf=-0.32 0.10 Mtf= 6.72 0.15
Principal Axes:
T Val= 6.93 Plg= 2 Azm=127
N 0.12 87 351
P -7.04 2 217
Best Double Couple:Mo=7.0*10**17
NP1:Strike=262 Dip=87 Slip= 0
NP2: 172 90 177

ZON	1.07	92	iPc	56 46.30	3.3X
			eS	57 03.30	
JACH	1.29	205	iPd	56 46.00	0.5
ROCH	1.72	212	iPd	56 49.60	-1.1
PEL	1.75	201	iPd	56 50.80	-0.1
SAN	2.03	197	iPd	56 54.40	-0.1
IHA	2.09	223	iPc	56 52.90	-2.3
			iS	57 15.40	
PCH	2.16	193	iPd	56 56.40	0.2
TACH	2.30	201	iPd	56 56.80	-1.2
LCCH	2.40	215	iPd	56 57.60	-1 6
CHCH	2.49	194	iPd	57 00.80	0.3
LNV	2.74	207	iPd	57 01.60	-2.1
ANT	7.79	357	eP	58 06.00	-6.8X
			iS	59 26.80	
LPA	10.61	112	iPc+	58 49.20	-1.6
	0.8s	1146.27nm			6.7mb X
			eS	00 40.00	
CCH	14.48	15	P	59 38.20	-3.6X
CNCB	14.74	7	P	59 41.90	-3.4X
LPB	15.01	7	P	59 46.00	-2.5
	1.0s	960.00nm			6.0mb
			i	59 48.20	
			S	02 37.00	
ARE	15.05	354	eP	59 48.00	-0.9
			iS	02 27.00	
ITB7	15.26	69	e(P)	59 51.00	-0.3
ZOBO	15.26	7	P	59 48.00	-3.9X
			i	59 51.20	
			S	02 30.00	
ITB1	15.32	67	Pd	59 52.00	0.0
ITB	15.39	68	e(P)	59 51.00	-1.9
SIV	17.44	30	P	00 11.70	-6.7X
			i	00 16.40	
PPD	19.10	65	iPd	00 36.50	-0.8
PT10	20.40	340	eP	00 49.50	-1.4
NNA	20.45	340	iPc	00 50.30	-1.1
	1.2s	109.38nm			5.1mb
			eS	04 36.00	
VAO	22.08	73	eP	01 06.90	-0.7
			i	01 08.30	5kmX
			i	01 24.70	
			i	01 33 20	
BMA	24.53	75	eP	01 32.40	1.2
			e	01 37.70	19kmX
			e	01 57 60	
RDJ	25.21	77	eP	01 41 60	4.0X
BAO	25.50	57	ePd	01 39.50	-1.0
CUMC	33.16	345	iPc	02 49.82	0.7
AIA	33.94	176	eP	02 56 20	1.5
PURC	34.20	349	iPc	02 59 62	1.6
SILC	34.55	349	iPc	03 01.84	0.9
SOB1	34.92	57	eP	03 03 10	-0.6
HOOC	35.36	348	ePc	03 07 08	-0.6
ANCC	35.45	348	eP	03 08.06	-0.1
BUGC	35.72	349	eP	03 10.50	0.0
CLMC	35.76	349	iPc	03 10.39	-0.5
HOBC	36.15	349	iPc	03 13.66	-0.5
CAI	39.46	58	iPd	03 41.00	-0.7
SDV	40.17	359	iP	03 45 90	-1.8
TOV	41.06	0	eP	03 53.60	-1.2
CAR	41.88	4	iP	04 01.00	-0.6
MGP	49.31	4	P	04 58.00	-2.3
SJG	49.47	5	iP	04 59.00	-2.6
LPR	49.69	5	P	05 00.00	-3.2X
APR	49.77	4	P	05 01.20	-2.6
SNA	53.16	157	iPd	05 27.70	-1.0
	0.8s	108.96nm			5.9mb
IISM	56.70	329	(P)	05 56.00	1.1
IIT	57.15	328	(P)	06 01.80	3.4X
PPM	57.33	327	eP	06 02.00	2.0
IIA	57.42	327	(P)	06 02.30	2.4
MRX	59.10	325	eP	06 13.50	1.9
BLA	69.07	351	P	07 18.00	1.7
UYO	69.30	338	iPc	07 16.50	-1.2
MEO	71.24	335	iPd	07 28.50	-1.0
TUL	71.32	338	eP	07 28.20	-1.8
	1.0s	37.60nm			5.2mb
			e	07 57.20	115km
			eS	16 32.00	
FVM	71.73	343	P	07 31.10	-1.3
	1.0s	80.00nm			5.5mb
			pP	07 59.00	110km
PNJ	72.16	357	eP	07 34.20	-0.5
LIC	72.30	71	Pc	07 36.02	-0.2
Z	20s	0.19um			4.4Msz
TIC	72.55	71	P	07 37.72	0.0
KIC	72.61	71	Pc	07 38.00	0.0
	0.6s	27.00nm			5.2mb
CER	72.89	119	e(P)	07 24.50	-15.0X
	0.9s	55.38nm			
ACO	73.16	336	iPc	07 41.00	0.2
ALO	74.49	330	eP	07 48.60	-0.2
	1.1s	44.30nm			5.2mb
			epP	08 17.00	111km
ANMO	74.50	330	P	07 48.00	-0.8
	1.0s	26.25nm			5.0mb
			pP	08 16.00	110km
MAW	75.05	163	eP	07 51.50	0.2
	1.0s	37.00nm			5.1mb
WIN	76.16	108	eP	07 57.50	-1.1
	1.0s	20.00nm			4.9mb
BAR	77.63	321	eP	08 17.00	10.8X
			e	08 34.00	61kmX
GLD	78.10	333	P	08 10.00	1.2
GOL	78.11	333	P	08 09.50	0.5
	1.0s	16.25nm			4.8mb
			pP	08 38.00	111km
PLM	78.25	321	eP	08 12.00	2.2
			e	08 37.00	95kmX
TPC	78.40	322	eP	08 11.00	0.5
			e	08 39.00	109km
PV09	78.64	330	P	08 10.80	-1.2
			pP	08 41.00	119km
PEC	78.82	322	P	08 12.00	-0.8
RVR	79.02	321	eP	08 14.00	0.3
			e	08 42.00	109km
FRS	79.12	118	iPc	08 14.10	-0.4
	0.8s	74.63nm			5.5mb
MWC	79.56	321	eP	08 17.00	0.1
			e	08 46.00	113km
GSC	79.72	323	eP	08 18.00	0.4
			e	08 46.00	108km
SBB	79.79	322	eP	08 18.00	0.0
			e	08 45.00	104km
CLC	80.53	322	eP	08 32.00	10.1X
			e	08 50.00	65kmX
SYP	80.83	320	eP	08 25.00	1.5
			e	08 52.00	104km
RSSD	81.46	336	P	08 26.10	-0.6
	1.0s	28.47nm			5.0mb
			pP	08 55.00	112km
SEK	81.58	118	eP	08 28.60	0.8
	0.9s	46.22nm			5.3mb
BW06	82.39	332	P	08 31.20	-0.4
	1.0s	10.00nm			4.6mb
			pP	08 59.00	107km
SLR	83.43	116	iPc	08 33.50	-3.8X
	0.9s	33.61nm			5.3mb
ORV	85.38	323	P	08 46.50	0.0
			pP	09 16.00	113km
TIO	85.93	50	iP	08 51.00	1.4
			i	09 20.00	111km
LRM	86.07	332	eP	08 50.50	0.4
BUL	86.63	111	iPd	08 53.30	-0.1
	1.1s	31.65nm			5.2mb
			i	09 46.40	217kmX

15d 23h

AVE	87.37	48	eP	08	58.80	2.5
			i	09	28.00	111km
			i	10	17.00	
KRI	89.20	109	iPd	09	08.90	3.2X
			i	09	55.20	186kmX
LFF	99.52	43	eP	09	52.90	0.9
	0.6s		3.60nm			5.2mb
LPO	99.63	43	eP	09	53.30	0.8
MFF	99.98	41	eP	09	54.70	0.7
	0.7s		5.50nm			5.3mb
RJF	100.18	43	ePdiff	09	55.40	0.3
	Z 20s		0.68um			5.1Msz
CAF	100.29	43	ePdiff	09	56.30	0.7
YKA	100.29	341	ePdiff	10	00.90	5.8X
	0.7s		0.90nm			4.5mb
LPF	100.32	40	ePdiff	09	55.70	0.1
GRR	100.63	39	ePdiff	09	57.00	0.0
	0.7s		5.50nm			5.3mb
LSF	100.73	42	ePdiff	09	58.00	0.5
	0.9s		4.10nm			5.1mb
FLN	101.05	39	ePdiff	09	59.00	0.1
	Z 20s		0.30um			4.8Msz
TCF	101.14	42	ePdiff	09	59.70	0.3
LDF	101.14	39	ePdiff	09	59.40	0.1
	0.7s		5.50nm			5.3mb
MAF	101.30	42	ePdiff	10	01.00	0.9
BGF	101.65	42	ePdiff	10	02.40	0.8
AVF	102.07	42	ePdiff	10	03.90	0.4
SMF	102.27	43	ePdiff	10	05.10	0.7
	0.9s		4.90nm			5.3mb
SSF	102.31	42	ePdiff	10	04.90	0.4
	0.8s		2.70nm			5.1mb
LBF	102.54	42	ePdiff	10	06.00	0.4
LOR	102.62	42	ePdiff	10	06.30	0.4
	Z 21s		0.45um			5.0Msz
VOY	108.01	47	e(PKP)	14	51.00	14.4X
			e	15	28.00	
LJU	108.41	47	e(PKP)	14	53.00	15.7X
			e	15	26.00	
VBY	108.63	48	e(PKP)	14	51.50	13.8X
			e	15	35.00	
KHC	109.20	44	ePKP	14	48.50	9.8X
			e	15	05.00	
			e	15	31.00	
INK	109.97	339	ePKP	14	49.00	9.5X
WRZ	123.77	208	iPKPc	15	05.90	-1.5
	0.4s		7.20nm			
			i	15	38.60	
OBN	124.43	42	ePKP	15	08.00	0.5
	1.0s	*******	nm			
	Z 20s		0.30um			5.0Msz
			e	34	30.00	
SHI	130.92	76	ePKP	15	21.00	-0.1
MAIO	138.14	69	ePKP	15	37.00	2.5
			e	16	10.00	
KOD	143.14	118	ePKP	15	42.90	-1.2
QUE	143.14	81	ePKP	15	32.90	-10.7X
PJG	143.45	249	ePKP	15	44.90	0.7
			e	16	08.80	
GBA	145.18	113	PKPc	15	45.10	-2.1
	0.8s		54.20nm			
HYB	148.20	109	ePKP	15	55.00	2.9X
	1.0s		50.00nm			
			e	16	25.00	
KGM	149.98	166	ePKP	16	01.50	6.6X
BSI	150.65	149	ePKPd	15	57.50	1.6
NDI	151.50	87	ePKP	15	58.00	1.2
IPM	151.89	161	ePKPd	16	03.50	5.7X
	1.0s		49.90nm			
			e	16	34.30	
GKN	157.67	92	PKP	16	07.00	1.6
DMN	157.96	94	PKP	16	04.20	-1.7
KKN	158.16	93	PKP	16	07.60	1.6
PKI	158.21	94	PKP	16	07.60	1.4
CHG	163.86	139	ePKP	16	13.30	1.5
GTA	168.52	44	ePKP	16	16.60	1.5
			sPKP	16	48.60	
BJI	170.15	331	ePKP	16	19.00	3.2X
TIA	172.49	311	ePKP	16	17.70	0.7
LZH	173.10	47	ePKP	16	25.50	8.1X
	2.0s		25.00nm			
	Z 25s		0.48um			
			i	17	00.00	
			PP	18	19.00	
CDZ	174.56	95	ePKP	16	19.40	1.4
XAN	177 30	21	ePKP	16	19.50	1.1
	S.D. = 1.2		on 114 of 140 obs.			

& SEP 15, 1991 22h 59m 52.14s
60.100 N 146.949 W
DEPTH = 2.3km
SOUTHERN ALASKA (2)
<AEIC>. ML 2.5 (AEIC).

LTI	0.46	263	iPd	00	01.56	0.3
			eS	00	08.84	
KNIM	0.47	303	iPc	00	01.90	0.5
			eS	00	09.19	
FID	0.69	19	iPd	00	05.38	-0.6
			eS	00	15.30	
MID	0.74	155	eP	00	05.59	-1.4
GLI	0.79	355	iPc	00	07.32	-0.5
			eS	00	18.88	
VZW	0.98	11	iPc	00	10.41	-1.1
			eS	00	24.93	
VLZ	1.08	16	ePc	00	11.90	-1.2
			eS	00	27.63	
SEW	1.25	271	ePd	00	14.61	-1.5
			eS	00	32.05	
KLU	1.49	19	ePc	00	18.26	-1.7
			eS	00	38.38	
KNK	1.51	331	eP	00	19.14	-1.1
			eS	00	39.93	
SLKM	1.68	286	eP	00	20.62	-2.0
			eS	00	43.16	
PMS	1.72	313	eP	00	21.93	-1.4
			eS	00	45.45	
PLRM	1.84	325	eP	00	23.45	-1.5
SML	1.84	339	eP	00	24.50	-0.5
			eS	00	49.27	
GHO	1.94	331	ePc	00	26.07	-0.4
CROM	2.00	69	iPd	00	25.07	-2.4
GLB	2.05	47	iPd	00	26.02	-2.0
			eS	00	51.56	
TOA	2.05	10	eP	00	27.48	-0.6
PWA	2.12	319	eP	00	27.92	-1.0
TGL	2.15	70	iPd	00	26.96	-2.6
NNL	2.18	270	eP	00	28.86	-1.0
CNPM	2.24	257	eP	00	29.22	-1.6
SUA	2.31	308	eP	00	30.00	-1.9
YAH	2.61	82	eP	00	33.52	-2.7
SPU	2.74	296	eP	00	35.43	-2.5
RDT	2.75	282	iPd	00	35.55	-2.6
CUT	2.81	327	eP	00	37.88	-1.1
CKL	2.87	295	eP	00	37.63	-2.3
REF	2.89	280	ePd	00	37.43	-2.8
DFR	2.89	282	ePd	00	37.28	-2.9
CTGM	2.91	70	eP	00	38.22	-2.2
RSO	2.91	280	eP	00	37.81	-2.8
RS1	2.92	280	eP	00	37.78	-2.8
RS2	2.92	280	ePd	00	37.79	-2.8
BGL	2.92	296	eP	00	38.76	-1.8
SKT	2.92	312	eP	00	38.20	-2.3
RDN	2.92	281	iPd	00	37.59	-3.0
RDW	2.94	280	eP	00	38.05	-2.9
NCT	3.01	281	eP	00	38.87	-2.9

39 obs. associated

? SEP 15, 1991 23h 17m 48.98± 0.75s
32.636 S ±11.3km 70.054 W ±11.8km
DEPTH = 90.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)

JACH	0.46	264	iPc	18	05.00	1.3
			iS	18	18.50	
PEL	0.73	226	iPd	18	06.60	0.5
			iS	18	21.50	
ROCH	0.87	247	iPd	18	08.40	0.6
			iS	18	24.50	
SAN	0.96	212	iPd	18	09.00	0.4
			iS	18	25.20	
PCH	1.06	201	iPd	18	10.00	0.3
			iS	18	27.00	
TACH	1.26	216	iPd	18	12.00	-0.1
			iS	18	31.00	
CHCH	1.39	201	iPd	18	13.50	-0.2
			iS	18	34.30	
IHA	1.39	253	eP	18	12.50	-1.2
			iS	18	36.00	
LCCH	1.52	236	iP	18	15.00	-0.4
			iS	18	37.00	
ZON	1.60	47	eP	18	16.00	-0.4
LNV	1.74	220	iPd	18	17.50	-0.7
			iS	18	40.50	

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

• SEP 15, 1991 23h 41m 32.37± 1.43s
36.792 N ±11.1km 71.478 E ± 9.6km
DEPTH = 107.2 ± 18.4 km
4.8mb (10 obs.)
AFGHANISTAN-TAJIKISTAN BORD REG.(717)

KSH	4.43	52	P	42	41.70	3.0
			S	43	31.30	
QUE	7.59	211	eP	43	24.50	2.4
			eS	44	48.90	
NDI	9.42	148	iPd	43	48.00	1.3
	0.6s		33.33nm			5.4mb
			iS	45	27.00	
MAIO	9.66	271	eP	43	47.00	-3.0
	0.8s		10.98nm			4.8mb
			eS	45	27.00	
GKN	14.14	125	P	44	48.52	-0.6
	0.4s		54.00nm			5.1mb
WMQ	14.21	55	P	44	47.50	-2.4
			eS	47	22.50	
KKN	14.71	124	P	44	55.24	-1.2
DMN	14.71	125	P	44	56.14	-0.4
	0.3s		45.00nm			5.1mb
PKI	14.94	124	P	44	58.30	-1.2
	0.6s		25.00nm			4.7mb
GUN	15.04	122	P	44	59.84	-0.9
HYB	20.29	160	eP	46	05.00	3.3X
GTA	22.42	75	iPc	46	26.40	3.5X
	0.8s		20.00nm			4.5mb
NUR	37.82	324	eP	48	40.00	0.5
SOD	39.64	335	eP	48	55.00	0.4
NAO	44.55	322	P	49	34.40	-0.3
	0.6s		2.60nm			4.2mb
MBC	67.03	3	ePc	52	15.60	0.4
	0.5s		11.00nm			5.0mb
INK	73.56	9	eP	52	55.00	0.3
YKA	80.94	3	eP	53	36.00	0.4
	0.6s		2.80nm			4.3mb
ASPA	84.10	125	iPc	53	53.90	1.4
	0.8s		6.40nm			4.6mb
	S.D. = 1.7		on 17 of 19 obs.			

SEP 16, 1991 00h 16m 27.82± 1.02s
18.026 N ± 6.5km 70.842 W ± 6.3km
DEPTH = 47.9 ± 9.8 km
4.5mb (17 obs.)
DOMINICAN REPUBLIC REGION (88)

MCP	3.57	83	P	17	22.00	-0.1
MGP	3.57	90	iP	17	21.00	-1.1
APR	3.93	83	iP	17	28.80	1.6
SJG	4.46	88	eP	17	35.00	0.2
TOV	8.25	173	eP	18	28.70	0.9
SDV	9.09	179	eP	18	37.80	-1.7
BLA	20.89	338	eP	21	09.00	0.6
	0.8s		14.77nm			4.4mb
FVM	26.25	323	eP	22	01.70	1.4
	0.8s		15.15nm			4.6mb
UYO	26.51	312	e(P)	22	03.10	0.3
ZOBO	34.18	175	P	23	12.00	0.5
LPB	34.45	175	P	23	20.00	6.4X
CNCB	34.73	175	P	23	17.00	0.8
SIV	35.15	164	P	23	18.80	-0.4
CCH	35.49	172	P	23	12.00	-10.4X
ANMO	35.82	305	eP	23	25.30	0.3
	0.8s		3.36nm			4.3mb
GOL	36.83	313	eP	23	33.00	-0.5
	0.7s		1.46nm			4.0mb
BW06	40.99	315	e(P)	24	06.50	-1.6
NEW	48.07	320	eP	25	08.50	4.0X
	0.9s		8.77nm			4.8mb
YKA	53.74	337	eP	25	45.70	-1.4
	0.7s		1.70nm			4.2mb
MBC	63.29	348	eP	26	50.00	-3.5X
	1.0s		8.00nm			4.8mb
LPF	63.35	45	eP	26	53.90	-0.5
GRR	63.49	44	eP	26	54.90	-0.4
FLN	63.75	44	eP	26	57.30	0.3
MFF	63.92	46	eP	26	57.80	-0.3
LDF	63.99	44	eP	26	58.30	-0.2
	0.8s		5.35nm			4.6mb
EPF	64.27	50	eP	27	00.50	-0.1
	0.7s		3.85nm			4.5mb
LFF	64.53	48	eP	27	01.80	-0.3
LPO	64.85	49	eP	27	03.70	-0.5

```
LSF     65.08   47 eP     27 04.90   -0.8
RJF     65.08   48 eP     27 05.00   -0.7
KIC     65.35   91 (P)    27 09.00    1.1
CAF     65.47   48 eP     27 07.70   -0.6
        0.8s      4.05nm            4.5mb
TCF     65.55   47 eP     27 08.10   -0.6
        0.9s      4.90nm            4.5mb
AVF     66.33   46 eP     27 12.80   -0.8
        0.9s      3.30nm            4.4mb
SSF     66.42   46 eP     27 13.30   -1.0
LOR     66.66   46 eP     27 14.80   -1.0
        0.7s      4.40nm            4.6mb
SMF     66.67   46 eP     27 14.90   -0.9
FBA     68.30  333 ePc    27 26.00    0.3
        0.8s      8.28nm            4.8mb
BSF     68.62   45 eP     27 27.00   -1.2
LPL     68.74   47 eP     27 29.10    0.0
        0.9s      4.10nm            4.4mb
LPG     68.75   47 eP     27 29.40    0.1
NAO     70.39   31 P      27 42.80    4.2X
        0.9s      5.80nm            4.5mb
IMA     70.78  335 eP     27 41.70    0.6
        0.9s      4.70nm            4.4mb
SVW     71.89  329 eP     27 47.80    0.1
BRG     72.98   41 eP     27 56.40    2.2
KHC     72.98   43 P      27 54.50    0.1
PRU     73.48   42 eP     27 59.80    2.6
ZST     75.44   44 eP     28 11.40    2.9X
SRO     76.31   44 eP     28 15.90    2.5
KRA     76.89   41 eP     28 20.90    4.3X
NUR     77.16   30 eP     28 07.00  -10.9X
STK    147.66  239 ePKP    36 09.50    3.3X
        0.7s      1.90nm
      S.D. = 1.0   on   43 of   52 obs.
-------------------------------------------
?  SEP  16, 1991   00h 29m 23.06± 6.33s
   14 031 N ±36.2km    61.346 W ±30.5km
   DEPTH =  10.0km  (geophysicist)
 WINDWARD ISLANDS                  ( 95)
      MD 3.0 (TRN).

SLB     0.36  124 eP     29 30.48    0.0
                eS     29 35.98
SLW     0.40   91 eP     29 31.20    0.0
                eS     29 36.31
SOA     0.68  164 eP     29 39.22    2.7X
                eS     29 43.98
SVB     0.76  173 eP     29 37.16   -0.8
                eS     29 40.81
FCV     0.87  174 eP     29 40.59    0.7
                eS     29 53.59
      S.D. = 1.1   on    4 of    5 obs.
-------------------------------------------
?  SEP  16, 1991   00h 52m 36.73± 3.70s
    2.309 N ±22.1km    76.175 W ±20.9km
   DEPTH =  10.0km  (geophysicist)
 COLOMBIA                          (103)
      MD 3.6 (UVC).

PURC    0.19  274 iPd    52 41.06   -0.1
                eS     52 47.00
SILC    0.41  336 eP     52 45.08   -0.2
                eS     52 54.10
HOOC    1.24  338 eP     53 00.06    0.1
                eS     53 20.30
ANCC    1.38  330 ePd    53 02.80    0.7
CLMC    1.61  346 eP     53 04.78   -0.6
HOBC    2.03    1 eP     53 11.67    0.1
      S.D. = 0.6   on    6 of    6 obs.
-------------------------------------------
?  SEP  16, 1991   01h 46m 04.75± 2.13s
   42.922 N ± 9.0km   17.562 E ±20.7km
   DEPTH =  10.0km  (geophysicist)
 ADRIATIC SEA                      (382)

HVAR    0.86  288 iPgd   46 20.30   -0.9
                i(Sg)  46 28.50
BAI     1.87  196 P      46 36.00   -1.1
BRT     2.06  188 P      46 45.20    5.4X
                eSg    47 08.00
SGO     2.90  216 P      46 53.30    1.5
SDI     3.03  248 P      46 53.00   -0.7
VBY     3.07  328 ePn    47 03.80    9.7X
                eSn    47 47.10
PTJ     3.19  339 e(P)   47 17.40   21.4X
ARV     3.43  281 P      47 00.20    0.9
ASS     3.60  274 P      47 02.10    0.3
CEY     3.60  322 eP     47 15.50   13.7X
                e(Sn)  47 57.50
LJU     3.80  326 e(Pn)  47 05.50    0.9
                e(Sn)  47 45.50
VOY     4.07  321 ePn    47 07.50   -0.9
                eSg    48 17.30
CRE     4.16  282 P      47 12.80    3.1X
FVI     5.01  319 P      47 28.10    6.5X
      S.D. = 1.2   on    8 of   14 obs.
-------------------------------------------
%  SEP  16, 1991   02h 09m 22.29± 3.45s
   43.866 N ±18.1km    8.516 E ±18.1km
   DEPTH =  10.0km  (geophysicist)
 CORSICA                           (380)
      ML 2.0 (GEN).

FIN     0.41  327 P      09 30.69    0.0
                S      09 37.13
IMI     0.46  276 P      09 31.18   -0.4
                S      09 37.66
ROB     0.63  313 P      09 34.57   -0.5
                S      09 43.59
PCP     0.68    2 P      09 35.71    0.0
                S      09 45.43
SBF     0.78  270 Pg     09 37.60    0.0
                Sg     09 48.00
ENR     0.87  295 P      09 39.30    0.2
                S      09 50.27
STV     0.94  294 P      09 40.64    0.4
                S      09 52.41
PZZ     1.20  303 P      09 44.94    0.2
                S      10 00.73
      S.D. = 0.3   on    8 of    8 obs.
-------------------------------------------
&  SEP  16, 1991   02h 46m 36.51s
   61.299 N          150.920 W
   DEPTH =  52.7km
 SOUTHERN ALASKA                   (  2)
      <AEIC>. ML 2.5 (AEIC).

SUA     0.19   27 iPd    46 45.24   -0.1
                eS     46 53.34
CGLM    0.52  271 iPc    46 47.81   -0.6
SPU     0.56  258 iPc    46 48.08   -0.7
                iS     46 57.59
NCG     0.61  281 iPc    46 48.71   -0.7
                iS     46 58.80
PWA     0.61   54 iPd    46 49.13   -0.2
                eS     46 59.87
PMS     0.66   94 iPc    46 49.62   -0.4
                eS     47 00.70
CKL     0.69  262 iPc    46 49.71   -0.8
                eS     47 00.69
BGL     0.71  268 iPc    46 50.02   -0.7
                eS     47 00.09
SKT     0.74  337 ePd    46 50.29   -0.8
                iS     47 01.24
SLKM    0.86  156 ePc    46 51.98   -0.7
                eS     47 04.75
PLRM    0.91   70 iPc    46 52.41   -0.8
                eS     47 05.77
RDT     1.03  226 iPc    46 54.08   -0.9
                iS     47 08.39
GHO     1.07   63 iPc    46 54.77   -0.7
                eS     47 09.80
DFR     1.12  231 ePc    46 55.40   -0.8
                iS     47 11.14
CUT     1.15   15 ePd    46 55.49   -1.1
REF     1.19  228 iPc    46 56.61   -0.7
KNK     1.19   83 iPc    46 56.53   -0.6
                iS     47 13.19
RDN     1.20  230 iPd    46 56.47   -0.9
                eS     47 12.22
NCT     1.23  234 eP     46 57.08   -0.7
RS2     1.23  228 eP     46 57.28   -0.6
                eS     47 14.09
RSO     1.23  228 iPd    46 57.17   -0.7
                eS     47 14.02
RDW     1.23  229 ePc    46 57.21   -0.7
                iS     47 14.29
RED     1.27  227 eP     46 56.92   -1.3
                eS     47 14.36
NNL     1.27  189 ePc    46 59.12    0.8
                eS     47 15.51
SML     1.34   66 eP     46 58.14   -1.1
SEW     1.40  148 eP     46 58.70   -1.3
                eS     47 19 05
CNPM    1.79  185 ePc    47 04.60   -0.9
KNIM    1.83  120 ePc    47 03.27   -2.8
GLI     1.91  101 iPc    47 04.63   -2.5
LTI     1.97  129 ePd    47 05.76   -2.2
OPT     2.01  216 eP     47 08.68    0.1
VZW     2.13   95 eP     47 08.05   -2.3
VLZ     2.23   92 ePc    47 09.35   -2.3
FID     2.23  102 iPc    47 08.85   -2.9
KTH     2.26  360 eP     47 11.84   -0 4
SVW     2.28  267 ePc    47 10.56   -2.0
RND     2.32   24 eP     47 13.44    0.3
TOA     2.40   68 eP     47 13.48   -0.7
KLU     2.41   83 iPc    47 12.06   -2.3
CDD     2.74  211 eP     47 16.84   -2.1
      40 obs. associated
-------------------------------------------
?  SEP  16, 1991   03h 07m 09.38± 2.68s
   13.595 N ±26.5km    89.152 W ±42.1km
   DEPTH = 168.1 ± 32.9 km
    4.1mb (  4 obs.)
 EL SALVADOR                       ( 73)

TPX     3.28  294 iP     08 01.50   -0.1
                iS     08 52.00
SCX     4.59  313 (P)    08 38.50   20.1X
UYO    21.04  348 iPc    11 41.00   -0.2
MEO    22.76  340 iPd    11 58.40    0.4
SIO    22.98  345 eP     12 00.30    0.2
TUL    23.01  346 eP     12 01.00    0.6
        0.8s      8.10nm            4.3mb
ANMO   26.39  327 (P)    12 33.50    1.3
GOL    29.67  334 P      12 59.20   -2.4
        1.0s      9.00nm            4.5mb
RSSD   32.98  340 P      13 29.80   -0.6
LRM    37.68  333 eP     14 10.60    0.4
SIV    40.43  136 (P)    14 33.00    0.1
PNT    43.53  331 eP     14 58.00    0.2
        0.5s      2.00nm            4.0mb
YKA    52.08  345 eP     16 00.10   -3.7X
        0.5s      0.80nm            3.7mb
      S.D. = 1.1   an   11 af   13 obs.
-------------------------------------------
?  SEP  16, 1991   03h 31m 12.01± 4.49s
    4.120 N ±22.7km    77.043 W ±34.3km
   DEPTH =  33.0km  (normal)
 NEAR WEST COAST OF COLOMBIA       (102)
      MD 3.2 (UVC).

CLMC    0.53  116 ePd    31 23.52    0.2
                eS     31 31.00
ANCC    0.63  164 iPc    31 24.57    0.1
                eS     31 32.80
HOOC    0.77  148 iPc    31 25.95   -0.7
                eS     31 35.30
BUGC    0.82  106 iPc    31 27.17    0.0
                eS     31 37.40
HOBC    0.93   76 iPc    31 28.87    0.0
SILC    1.59  154 eP     31 38.93    0.4
      S.D. = 0.5   an    6 af    6 obs.
-------------------------------------------
?  SEP  16, 1991   03h 42m 29.57± 0.96s
   43.641 N ±12.4km    12.110 E ±10.0km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                     (381)

CRE     0.12  264 Pc     42 32.00   -0.6
                eSg    42 34.10
SFI     0.34  326 P      42 37.00    0.5
                eSg    42 43.10
ARV     0.62  103 P      42 41.40   -0.7
                eSg    42 50.50
ASS     0.70  145 P      42 44.20    0.8
      S.D. = 1.3   an    4 of    4 obs.
-------------------------------------------
   SEP  16, 1991   03h 48m 01.13± 1.68s
   45.108 N ± 7.3km   125.946 W ±12.0km
   DEPTH =  10.0km  (geophysicist)
 OFF COAST OF OREGON               ( 30)

KMOR    1.81   72 P      48 31.54   -1.1
                S      48 52.67
NLO     2.01   60 Pc     48 35.46   -0.1
ONR     2.33   40 P      48 40.16    0.1
BMW     2.34   53 P      48 39.82   -0.5
RVW     2.48   64 P      48 42.01   -0.2
                S      49 11.19
PGO     2.49   80 P      48 43.32    1.0
```

16d 03h

GT2 2.60 88 P 48 43.75 -0.3
LVP 2.66 68 P 48 44.99 0.0
S 49 17.46
CPW 2.70 45 Pc 48 45.01 -0.5
S 49 16.48
FL2 2.75 65 P 48 46.09 -0.1
CZM 2.75 60 Pc 48 45.61 -0.5
MTMW 2.78 69 P 48 46.52 -0.1
S 49 19.53
VLMM 2.79 80 P 48 46.75 0.0
ERK 2.80 63 Pc 48 46.20 -0.6
SHW 2.82 66 P 48 47.60 0.4
STD 2.84 65 P 48 47.54 0.0
HSR 2.85 67 P 48 48.24 0.6
JLK 2.86 67 P 48 48.02 0.3
SMW 2.86 38 Pc 48 47.28 -0.4
HBO 2.89 115 P 48 47.67 -0.5
TDL 2.89 63 P 48 47.79 -0.4
OOW 2.90 24 Pc 48 48.61 0.4
CDFW 2.92 68 P 48 49.02 0.6
TDH 2.94 85 P 48 48.80 -0.1
VLL 3.03 82 P 48 50.13 0.0
S 49 25.18
OSD 3.13 29 P 48 51.59 0.0
S 49 27.87
GULW 3.17 74 P 48 52.67 0.6
S 49 29.30
VFP 3.17 85 P 48 52.58 0.4
S 49 29.54
GHW 3.21 52 P 48 52.79 0.3
ASR 3.23 70 P 48 52.79 -0.2
HDW 3.23 37 P 48 52.88 -0.1
GMW 3.28 41 P 48 53.16 -0.4
S 49 30.57
LON 3.32 59 P 48 54.23 0.0
S 49 33.22
RVC 3.32 55 P 48 54.60 0.3
REMR 3.34 58 P 48 54.70 0.1
GLF 3.36 63 P 48 55.23 0.3
S 49 34.23
STW 3.42 26 Pc 48 56.04 0.5
WPW 3.46 61 P 48 56.61 0.4
FMW 3.49 57 P 48 57.02 0.3
BLN 3.55 34 P 48 58.01 0.6
S 49 38.52
GSM 3.57 53 P 48 57.92 0.2
VGB 3.67 82 eP 48 59.50 0.3
GL2 3.70 75 P 48 59.49 -0.2
RMW 3.71 49 Pd 49 00.06 0.2
S 49 41.97
NAC 3.93 64 P 49 03.22 0.4
JCW 4.14 40 P 49 05.83 0.0
S 49 52.58
EBG 4.16 62 P 49 06.52 0.4
MCW 4.16 30 P 49 06.32 0.2
MXC 4.22 68 P 49 07.06 0.2
CMW 4.23 37 P 49 07.24 0.1
JBO 4.33 83 P 49 08.31 -0.2
BRVW 4.39 70 P 49 09.54 0.2
RPW 4.52 41 Pc 49 11.04 -0.2
MDW 4.58 69 P 49 12.10 0.1
ETW 4.62 55 P 49 12.98 0.2
RSW 4.63 72 P 49 13.32 0.5
WAH2 4.75 67 P 49 14.63 0.2
GBL 4.77 70 P 49 14.90 0.1
LOCW 4.82 68 P 49 15.75 0.3
WTV 4.89 56 P 49 15.97 -0.5
DHW2 5.14 54 P 49 18.96 -1.1
DPW 6.02 60 eP 49 31.20 -1.2
PNT 6.03 43 eP 49 32.00 -0.4
0.3s 26.00nm 5.4mb X
pP 49 39.00
NEW 6.84 59 eP 49 42.90 -1.1
S.D. = 0.5 on 64 of 64 obs.

% SEP 16, 1991 03h 51m 02.20± 0.80s
42.497 N ± 8.9km 142.217 E ± 9.0km
DEPTH = 33.0km (normal)
HOKKAIDO, JAPAN REGION (224)

HOOJ 0.80 98 P 51 16.90 -0.1
eS 51 28.30
MRRJ 0.85 266 P 51 17.30 -0.4
eS 51 28.50
ASAJ 1.65 11 eP 51 29.40 0.2
AOMJ 2.38 216 eP 51 40.40 0.7
OFUJ 3.44 187 eP 51 54.40 -0.4
eS 52 33.80
S.D. = 0.6 on 5 of 5 obs.

SEP 16, 1991 04h 03m 06.50± 0.26s
5.229 S ± 4.1km 145.758 E ± 5.4km
DEPTH = 44.2km (2 depth phases)
4.9mb (12 obs.) 4.6Msz (5 obs.)
EASTERN NEW GUINEA REG., P.N.G. (207)

MDG 0.03 134 iPd 03 13.50 -1.2
YYYY 1.03 168 eP 03 27.10 2.3
MNDI 2.28 246 eP 03 48.50 5.8X
eS 04 26.00
PMG 4.38 162 iPc 04 11.80 -0.5
eS 05 02.00
RAB 6.47 81 eP 04 42.00 0.3
iS 06 04.00
HNR 14.68 107 eP 06 35.00 1.9
CTA 14.78 178 iPc 06 27.00 -7.4X
1.8s 90.91nm 4.8mb
epP 06 44.50
i(PP) 07 07.00
eS 09 21.00
CTAO 14.78 178 iPc 06 27.00 -7.4X
1.8s 134.68nm 5.0mb
epP 06 44.50
i(PP) 07 07.00
e 09 16.00
e(S) 09 21.00
e 09 30.00
MTN 16.30 241 eP 06 53.00 -1.0
0.5s 95.00nm 5.2mb
OIS 16.37 201 eP 06 55.00 0.1
e 09 55.00
AAI 17.58 274 eP 07 12.50 2.5
KNA 19.69 237 eP 07 34.40 -0.7
OLP 21.29 184 eP 07 52.00 0.5
RMO 21.33 173 eP 08 04 00 12.0X
ASPA 21.60 211 iPd 07 54.40 -0.3
0.7s 21.80nm 4.7mb
Z 21s 2.30um 4.6Msz
eS 11 49.80
KUPT 22.48 256 eP 08 09.50 6.0X
BRS 23.03 164 eP 08 07.00 -1.8
i 08 16.20
i 08 38.50
i 08 44.00
eS 12 09.00
DAV 23.57 301 eP 08 26.00 11.9X
COO 25.87 168 eP 08 34.00 -2.0
DZM 26.10 132 iPd 08 36.50 -1.7
STK 26.80 188 iPc 08 44.70 0.2
0.5s 9.10nm 4.6mb
eS 13 26.80
WARB 27.72 219 eP 08 53.50 0.6
BWA 29.16 175 eP 09 06.60 0.8
MBL 29.71 235 eP 09 11.00 0.1
CAN 30.09 175 eP 09 14.90 0.7
CNB 30.12 174 eP 09 25.20 10.7X
0.6s 7.00nm
BFD 31.93 185 e(P) 09 30.00 -0.2
BAG 32.90 311 eP 09 51.00 11.9X
NANU 33.91 237 eP 09 49.00 1.4
COOL 34.45 219 eP 09 52.00 -0.2
MRWA 36.90 226 eP 10 13.00 0.0
KLB 37.10 222 eP 10 14 50 -0.1
BAL 37.20 224 eP 10 16 00 0.5
NWAO 38.29 220 eP 10 22.00 -2.6
IIDJ 41.16 350 eP 10 48.10 -0.2
CHJJ 41.55 352 P 10 51 30 -0.1
TSRJ 41.58 348 eP 10 52 20 0.5
MAT 42.15 351 eP 10 56.00 -0 4
1.0s 10.00nm 4.5mb
Z 20s 1.06um 4.7Msz
eS 17 08 00
MTMJ 42.26 350 eP 10 57 30 -0.1
NIIJ 42.72 352 P 11 00.30 -0.7
SSE 43.08 329 eP 11 05.00 1.0
Z 20s 0.90um 4.7Msz
E 10s 0.50um
pP 11 17.00 43km
URZ 43.50 143 eP 11 06 90 -0.5
HBZ 43.80 142 eP 11 10.80 1.0
0.4s 26.00nm 5 3mb
MNG 44.19 147 eP 11 12 00 -0.9
0.3s 3.00nm 4.5mb
BWZ 44.49 155 eP 11 16.00 0.7
NJ2 45.06 327 Pc 11 20.00 0.0
Z 20s 0.40um 4.3Msz
sP 11 36.50
TUZ 45.56 157 eP 11 23.60 -0.2
WHN 46.57 322 eP 11 33.00 1.1
PSI 47.44 278 ePc 11 40.50 1.3
TIA 49.18 329 eP 11 51.90 -0.4
KHT 50.80 294 eP 12 07.00 2.0
MDJ 51.70 345 eP 12 11.50 0.1
CHTO 51.93 299 (P) 12 15.00 1.5
XAN 52.31 321 Pc 12 15.00 -1.2
BJI 52.63 332 eP 12 16.50 -1.9
Z 21s 0.61um 4.6Msz
CD2 53.86 315 P 12 27.80 0.2
HHC 55.53 329 eP 12 36.50 -3.3X
Z 26s 0.70um 4.6MszX
eS 20 26.00
LZH 56.82 320 eP 12 48.50 -0.7
GTA 61.36 321 Pd 13 20.40 -0.2
0.8s 10.00nm 5.0mb
pP 13 33.20 45km
CSY 65.68 195 eP 13 51.30 3.0X
0.6s 40.20nm 5.6mb
GUN 66.41 303 P 13 53.48 -0.6
PKI 66.69 303 P 13 55.44 -0.4
KKN 66.87 303 P 13 55.06 -1.8
DMN 66.96 303 P 13 56.46 -1.0
GKN 67.48 303 P 13 59.48 -1.1
KOD 69.72 283 eP 14 18.50 3.7X
SVW 80.05 25 eP 15 16.90 4.0X
TTA 80.83 23 eP 15 33.80 16.8X
MAW 82.48 203 eP 15 26.00 0.6
PMR 83.05 26 eP 15 36.60 8.2X
IMA 83.28 21 eP 15 31.80 2.0
1.6s 18.10nm 4.9mb
SPA 84.81 180 eP 15 37.00 -0.5
0.5s 9.72nm 5.2mb
FBA 84.96 23 eP 15 37.30 -0.7
INK 91.39 22 eP 16 20.00 11.3X
YKA 99 07 28 eP 17 02 50 18.7X
0.9s 1.70nm
CNCB 140.10 124 ePKP 22 39.00 5.2X
LPB 140.14 124 PKP 22 40.00 6.3X
ZOBO 140.25 123 PKP 22 35.00 0.9
LR 09 28.00
SDV 143.71 82 ePKP 22 41.70 2 0
TOV 144.48 81 ePKP 22 44 50 3.6X
SIV 146.09 129 PKP 22 42.80 -0.7
PPD 148.17 149 ePKP 22 50.00 3.3X
e 22 52.50
e 23 06.80
TIC 150.90 274 PKP 22 57.64 6.6X
LIC 150.92 273 PKP 22 57.72 6.7X
BAO 155.20 147 e(PKP)23 04.00 6.9X
S.D. = 1.1 on 62 of 85 obs.

% SEP 16, 1991 05h 31m 11.71± 0.40s
39.352 N ± 3.5km 28.995 E ± 4.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ALT 0.92 109 iPg 31 29.00 -0.3
eSg 31 43.00
IZI 1.05 20 iPn 31 32.00 0.4
KHL 1.11 158 iPn 31 31.80 -0.7
YLV 1.25 13 ePn 31 35.50 0.6
EDC 1.32 319 iPn 31 36.00 -0.1
GPA 1.38 47 iPn 31 37.50 0.5
GBZT 1.48 13 ePn 31 37.80 -0.5
HRT 1.56 19 iPn 31 39.50 0.0
IZM 1.65 235 iPn 31 41.70 0.8
CTT 1.85 347 iPn 31 43.50 -0.2
MFT 1.95 318 ePn 31 45.00 -0.2
EZN 2.12 284 iPn 31 47.50 -0.1
DMK 2.64 339 iPn 31 54.40 -0.7
ELL 2.70 164 ePn 31 56.50 0.5
S.D. = 0.5 on 14 of 14 obs.

& SEP 16, 1991 06h 35m 15.71s
46.087 N 123.928 W
DEPTH = 5.1km
WASHINGTON-OREGON BORDER REGION (28)
<SEA>.

NLO 0.33 90 Pc 35 20.60 -1.8
BMW 0.62 51 Pd 35 25.18 -3.0
S 35 31.76

RVW 0.83 85 Pc 35 27.49 -4.7
CPW 1.04 31 Pc 35 30.04 -5.8
CZM 1.05 70 Pc 35 30.74 -5.2
LVP 1.06 90 P 35 30.77 -5.4
FL2 1.10 84 Pc 35 31.26 -5.7
SHW 1.18 84 P 35 32.76 -5.5
STD 1.19 82 P 35 32.66 -5.9
MTMW 1.20 92 P 35 31.94 -6.6
HSR 1.22 85 P 35 33.52 -5.4
TDL 1.22 77 P 35 33.57 -5.4
JLK 1.24 87 P 35 33.22 -6.0
SOSW 1.25 83 P 35 33.56 -6.0
KOSW 1.26 72 P 35 33.96 -5.7
LMW 1.27 62 P 35 34.90 -5.0
SMW 1.30 18 P 35 32.27 -8.0
CDFW 1.31 88 P 35 34.39 -6.0
VLMM 1.43 112 P 35 31.90 -10.5
RVC 1.60 57 P 35 39.69 -5.1
APM 1.61 102 P 35 36.40 -8.5
LON 1.61 65 P 35 39.43 -5.5
LON 1.61 65 P 35 39.44 -5.4
ASR 1.63 87 P 35 38.42 -6.8
GULW 1.63 95 P 35 37.84 -7.5
GLK 1.68 73 P 35 40.52 -5.4
VLL 1.69 111 P 35 35.43 -10.7
TDH 1.70 117 P 35 34.30 -12.0
WPW 1.76 69 P 35 41.74 -5.4
FMW 1.77 61 P 35 42.06 -5.3
GSM 1.85 52 P 35 43.18 -5.2
VBEM 1.94 121 P 35 36.74 -13.0
GL2 2.17 92 P 35 44.97 -8.1
EBG 2.46 69 P 35 51.73 -5.5
MCW 2.70 16 P 35 51.33 -9.2
BRVW 2.76 80 P 35 54.60 -6.9
RPW 2.88 34 P 35 56.09 -7.0
PNT 4.35 40 eP 36 17.00 -7.0
0.3s 8.00nm
38 obs. associated

& SEP 16, 1991 07h 50m 11.56s
66.241 N 150.054 W
DEPTH = 16.6km
NORTHERN ALASKA (676)
<AEIC>. ML 2.5 (AEIC).

IMA 1.48 265 eP 50 37.34 -0.3
iS 50 57.24
MDM 1.49 149 eP 50 36.18 -1.5
eS 50 56.75
FBA 1.64 144 eP 50 39.62 -0.2
eS 51 00.42
GLM 1.68 137 eP 50 39.04 -1.3
eS 51 02.02
NEA 1.72 166 eP 50 40.68 -0.3
eS 51 03.98
CCB 1.86 149 eP 50 42.14 -0.8
eS 51 08.18
WRH 1.96 154 eP 50 44.38 0.0
eS 51 10.82
FYU 1.97 78 eP 50 44.32 -0.2
eS 51 10.35
BWN 2.09 173 eP 50 49.31 2.9
HDA 2.26 143 eP 50 50.60 1.9
10 obs. associated

? SEP 16, 1991 07h 57m 24.28± 4.19s
4.886 N ±44.5km 76.204 W ±34.6km
DEPTH = 100.0km (geophysicist)
COLOMBIA (103)
MD 3.1 (UVC).

HOBC 0.53 173 iPd 57 40.54 -0.1
BUGC 0.99 183 eP 57 45.15 0.2
CLMC 1.06 200 eP 57 46.16 0.3
eS 58 01.60
HOQC 1.47 197 eP 57 50.88 0.1
eS 58 09.60
ANCC 1.51 206 eP 57 50.86 -0.3
eS 58 09.60
SILC 2.19 184 eP 58 00.13 -0.1
S.D. = 0.3 on 6 of 6 obs.

SEP 16, 1991 09h 07m 34.10± 1.18s
45.083 N ± 4.8km 125.952 W ± 8.9km
DEPTH = 10.0km (geophysicist)
OFF COAST OF OREGON (30)

KMOR 1.82 71 Pc 08 05.03 -0.8
S 08 26.16
NLO 2.02 59 Pc 08 08.81 0.1
BMW 2.36 53 P 08 13.15 -0.4
RVW 2.49 64 P 08 15.35 0.0
PGO 2.50 80 P 08 16.14 0.7
GT2 2.61 87 P 08 16.86 -0.2
LVP 2.68 67 P 08 18.10 0.0
CPW 2.72 45 P 08 18.25 -0.5
FL2 2.76 65 Pc 08 19.45 0.1
CZM 2.77 60 P 08 18.95 -0.4
DBO 2.77 134 P 08 19.16 -0.2
MTMW 2.79 69 Pc 08 20.09 0.4
VLMM 2.80 79 Pd 08 20.15 0.3
ERK 2.81 63 Pc 08 19.63 -0.4
SHW 2.83 66 P 08 20.91 0.6
STD 2.86 65 P 08 20.83 0.1
HSR 2.86 66 P 08 21.60 0.8
JLK 2.87 67 P 08 21.22 0.4
SMW 2.88 38 Pc 08 20.63 -0.3
TDL 2.91 63 P 08 21.20 -0.2
OOW 2.92 24 P 08 22.00 0.5
TDH 2.95 85 P 08 22.15 0.2
KOSW 2.97 61 P 08 22.02 -0.2
LMW 3.01 57 P 08 22.78 0.0
VLL 3.04 81 P 08 23.52 0.3
VBEM 3.09 89 P 08 24.32 0.3
OSD 3.15 29 P 08 25.15 0.3
VFP 3.18 84 P 08 25.99 0.7
GHW 3.22 51 P 08 26.15 0.4
ASR 3.24 69 Pc 08 26.69 0.6
GMW 3.30 41 P 08 26.41 -0.4
S 09 03.83
LON 3.34 59 P 08 27.68 0.2
RVC 3.34 55 P 08 27.70 0.2
REMR 3.35 57 P 08 27.99 0.2
GLK 3.38 62 P 08 28.65 0.6
STW 3.45 26 P 08 29.32 0.4
WPW 3.47 61 Pc 08 29.95 0.6
FMW 3.51 57 P 08 30.09 0.1
CROR 3.52 90 P 08 30.04 0.0
BLN 3.58 34 P 08 31.27 0.5
GSM 3.58 52 P 08 31.26 0.3
VGB 3.68 81 eP 08 32.00 -0.3
GL2 3.71 75 P 08 32.59 -0.2
RMW 3.73 49 P 08 33.06 0.0
VIPM 3.84 97 P 08 34.83 0.1
NAC 3.94 63 P 08 36.31 0.3
HTW 3.97 45 P 08 33.13 -3.2X
JCW 4.17 40 P 08 39.18 0.1
EBG 4.17 62 P 08 39.45 0.2
MCW 4.19 30 P 08 39.52 0.1
MXC 4.23 67 P 08 40.18 0.2
JBO 4.33 83 P 08 40.71 -0.8
BRVW 4.40 69 P 08 42.76 0.3
RPW 4.54 41 P 08 44.35 -0.1
MDW 4.59 68 P 08 45.25 0.1
MBW 4.63 35 P 08 45.60 -0.2
ETW 4.64 55 P 08 45.94 0.0
WAH2 4.76 67 P 08 47.98 0.4
GBL 4.78 69 P 08 48.05 0.1
LOCW 4.84 68 P 08 48.90 0.3
MJ2 4.84 70 P 08 48.86 0.2
WIW 4.85 72 P 08 49.17 0.3
CRF 4.90 67 P 08 49.53 0.0
WTV 4.90 56 P 08 49.07 -0.6
RC1 4.91 65 P 08 49.86 0.2
EPH 4.96 61 Pc 08 50.29 -0.1
SAW 5.23 58 P 08 53.49 -0.8
LNOR 5.45 79 P 08 55.91 -1.5
OD2 5.53 63 P 08 57.71 -0.8
DPW 6.03 60 P 09 04.73 -0.8
PNT 6.05 43 eP 09 05.00 -0.7
0.3s 35.00nm 5.6mb X
NEW 6.86 59 eP 09 15.40 -1.8
S.D. = 0.5 on 71 of 72 obs.

SEP 16, 1991 10h 10m 18.31± 0.46s
15.889 N ± 6.5km 120.967 E ± 8.3km
DEPTH = 29.9km (5 depth phases)
4.7mb (10 obs.)
LUZON, PHILIPPINE ISLANDS (249)

BAG 0.64 324 iPc+ 10 30.40 -0.7
HKC 9.05 316 eP 12 29.30 -0.7
OZH 9.28 347 eP 12 33.50 0.4
MCO 9.35 313 eP 12 33.20 -1.0
DAV 9.84 152 eP 12 52.00 11.1X
GZH 10.14 316 eP 12 50.00 5.0X
QIZ 11.06 288 eP 12 56.20 -1.5
N 15s 0.90um
SSE 15.14 1 P 14 00.50 8.8X
Z 20s 0.90um
E 12s 0.40um
WHN 15.80 339 eP 14 03.00 2.8
1.2s 40.00nm 4.5mb
Z 16s 0.24um 4.4Msz
sP 14 13.50
NJ2 16.21 354 Pd 14 06.00 0.5
Z 21s 0.50um
GYA 16.97 311 P 14 18.80 3.5X
1.0s 20.00nm 4.2mb
Z 18s 0.60um
N 16s 1.70um
E 16s 0.90um
LOE 18.49 277 eP 14 38.50 4.3X
KMI 19.37 301 eP 14 49.00 4.0X
Z 14s 0.90um
NST 20.05 272 eP 14 57.50 5.5X
TIA 20.53 351 eP 14 56.70 -0.2
XAN 21.08 331 P 15 02.80 0.2
N 14s 0.70um
E 14s 0.70um
pP 15 11.20 31km
sP 15 15.00
PP 15 27.50
S 18 58.00
BDT 21.10 277 eP 15 04.10 1.3
CHG 21.22 281 eP 15 05.00 0.9
KHT 21.61 270 eP 15 10.00 2.0
CD2 21.70 317 P 15 10.00 1.1
TIY 23.01 342 eP 15 23.00 1.2
Z 15s 0.70um 4.2MszX
N 13s 0.50um
BJI 24.42 351 eP 15 35.00 -0.4
1.3s 42.00nm 4.8mb
Z 20s 0.30um 3.8Msz
LZH 25.25 326 eP 15 45.00 1.4
pP 15 51.00 21km
PSI 25.35 241 ePc 15 50.50 6.0X
MAT 25.65 33 (P) 16 03.00 15.8X
SNY 25.95 4 Pd 15 48.60 -1.2
Z 14s 0.40um 4.1MszX
eS 20 21.00
HHC 26.18 344 eP 15 54.00 1.9
N 14s 0.40um
E 20s 0.50um
MDJ 29.55 13 eP 16 21.00 -1.5
GTA 29.85 326 eP 16 25.40 -0.1
Z 16s 0.60um 4.3MszX
E 12s 0.40um
GUN 34.56 296 P 17 06.44 -0.6
PKI 34.90 296 P 17 07.50 -2.3
KKN 35.05 296 P 17 11.12 0.1
DMN 35.17 295 P 17 09.12 -2.9
GKN 35.65 296 P 17 15.18 -0.9
WR2 37.97 159 iPc 17 34.70 -0.7
0.8s 28.60nm 5.2mb
i 17 43.80 31km
WMO 39.64 322 iPd 17 51.50 2.3
1.0s 30.00nm 5.0mb
Z 25s 1.30um 4.7MszX
OIS 40.58 153 eP 17 56.00 -1.1
i 18 06.00 34km
HYB 40.60 278 eP 17 58.00 0.6
ASPA 41.30 162 eP 18 02.90 0.0
0.9s 7.30nm 4.4mb
WARB 42.18 172 eP 18 10.50 0.4
YAK 46.49 6 eP 18 42.80 -1.5
QUE 51.27 296 eP 19 26.06 4.0X
STK 51.45 157 eP 19 23.80 0.8
0.5s 2.40nm 4.4mb
BRS 52.94 144 eP 19 38.00 3.6X
BWA 56.44 153 eP 20 01.20 1.4
CAN 57.45 153 eP 20 13.70 6.8X
MAIO 57.89 303 eP 20 10.00 -0.1
i 20 20.00 33km
FBA 76.28 26 P 22 05.20 -0.5
KAF 78.27 331 ePKP 22 15.80 -0.9
0.5s 3.90nm 4.7mb
INK 80.97 21 eP 22 32.00 0.9
MBC 81.36 12 eP 22 33.00 -0.1
1.0s 13.00nm 4.9mb
VRI 81.67 315 eP 22 43.00 7.8X

16d 10h

HFS 84.69 331 eP 22 49.30 -1.1
0.4s 2.60nm 4.8mb
S.D. = 1.3 on 40 of 53 obs.

% SEP 16, 1991 11h 04m 21.34± 1.18s
40.012 N ±11.3km 27.994 E ± 6.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

EDC 0.35 343 ePg 04 28.00 -0.5
eSg 04 34.00
KGT 0.69 310 ePn 04 34.50 -0.4
IZI 1.18 74 ePn 04 43.00 -0.4
CTT 1.18 16 iPn 04 44.50 1.1
YLV 1.19 62 ePn 04 43.50 -0.1
EZN 1.30 262 ePn 04 45.70 0.4
S.D. = 0.8 on 6 of 6 obs.

? SEP 16, 1991 11h 38m 16.48± 0.88s
20.323 S ±13.9km 168.683 E ±23.4km
DEPTH = 33.0km (normal)
4.4mb (3 obs.)
LOYALTY ISLANDS (188)

PVC 2.59 352 iPd 38 54.90 -2.1
iS 39 25.50
BKM 2.67 351 iP 39 00.50 2.3
DZM 2.72 230 iPd 38 58.90 0.0
iS 39 33.10
CTA 21.05 267 iPc 43 04.20 4.1X
1.0s 15.00nm 4.3mb
BWA 22.77 228 eP 43 17.70 0.4
CAN 22.88 225 eP 43 22.70 4.4X
WR2 32.19 265 iPd 44 37.00 -6.8X
0.9s 2.10nm 4.0mb
ASPA 32.37 258 iPd 44 44.90 -0.5
0.7s 21.90nm 5.2mb
CHTO 78.63 295 P 50 17.00 -0.1
MOX 144.74 335 ePKP 57 48.70 -2.7
1.0s 13.00nm
KHC 145.04 331 PKP 57 50.00 -2.0
DMU 146.31 355 ePKP 57 52.90 -1.0
0.6s 40.00nm
MEM 146.82 340 PKP 57 55.20 0.4
DCN 146.89 356 ePKP 57 53.80 -1.0
SNF 147.44 341 PKP 57 56.70 0.9
WLF 147.58 339 iPKPc 57 57.58 1.6
DOU 147.72 341 iPKP 57 57.20 0.9
CDF 148.23 336 ePKP 57 58.70 1.4
0.6s 7.20nm
HAU 148.91 337 ePKP 58 00.40 2.1
FLN 150.32 345 iPKPc 58 03.40 3.1X
0.5s 8.75nm
LDF 150.39 345 ePKP 58 03.70 3.2X
0.4s 2.85nm
LOR 150.42 339 ePKP 58 04.10 3.5X
0.9s 12.30nm
SSF 150.72 339 ePKP 58 00.30 -0.7
GRR 150.76 346 iPKPc 58 04.70 3.7X
0.5s 7.30nm
LPL 150.80 333 iPKPc 58 05.70 4.2X
0.6s 4.50nm
LPG 150.81 333 iPKPc 58 05.80 4.2X
0.5s 4.35nm
SMF 150.97 338 ePKP 58 05.30 3.9X
AVF 151.01 339 ePKP 58 05.50 4.1X
LPF 151.14 346 iPKPc 58 05.60 4.0X
BGF 151.38 339 iPKPc 58 06.20 4.2X
0.5s 2.90nm
MAF 151.77 339 iPKPc 58 08.30 5.7X
0.7s 3.30nm
SBF 151.79 331 ePKP 58 09.80 7.0X
TCF 151.83 340 ePKP 58 09.30 6.6X
0.9s 6.55nm
PGF 152.01 327 iPKPc 58 07.90 4.7X
0.7s 9.90nm
LSF 152.08 341 ePKP 58 08.50 5.4X
MFF 152.24 343 iPKPc 58 09.00 5.7X
FRF 152.38 331 ePKP 58 08.50 4.9X
LRG 152.60 331 ePKP 58 09.30 5.5X
LMR 152.62 331 ePKP 58 09.10 5.2X
0.7s 7.70nm
S.D. = 1.6 on 17 of 39 obs.

SEP 16, 1991 13h 23m 38.94± 0.22s
28.999 N ± 4.1km 51.321 E ± 2.9km
DEPTH = 33.0km (normal)

4.9mb (26 obs.) 5.0Msz (12 obs.)
SOUTHERN IRAN (353)
Felt at Borozjon and Bushehr.

SHI 1.23 58 iPd 23 58.00 -2.1
eS 24 16.00
DHR 2.88 202 iPd 24 26.00 2.5
eS 25 01.00
RYD 5.99 226 iPd 25 07.50 -0.2
eS 26 10.00
MJMA 6.21 241 eP 25 10.00 -0.7
IR5 6.23 354 eP 25 10.00 -1.1
IR4 6.23 357 ePd 25 11.00 -0.2
IR1 6.42 355 ePd 25 14.00 0.2
KER 6.43 327 eP 25 33.00 19.0X
IR7 6.71 355 ePd 25 17.50 -0.4
TEH 6.72 0 ePc 25 19.00 1.0
BHD 7.31 307 ePn 25 27.00 0.9
ePg 25 58.00
eSn 26 46.00
iS* 27 05.00
iSg 27 21.00
QASM 7.50 249 iP 25 26.70 -2.1
SLY 8.22 325 ePn 25 47.50 8.7X
eSn 27 14.00
eSg 28 05.50
UOSK 8.58 250 eP 25 35.30 -8.6X
AFIF 8.77 238 iP 25 42.00 -4.5X
MAIO 10.02 41 eP 26 03.00 -0.8
eS 28 04.00
MSL 10.08 319 eP 26 01.00 -3.4X
eS 27 53.00
i 29 12.00
i 29 29.50
AYN 13.42 273 eP 26 46.70 -2.8
OUE 13.65 81 eP 26 52.20 -0.6
e 29 20.40
eS 31 14.90
HOL 14.23 275 eP 27 03.00 2.9X
BHL 14.24 294 P 27 00.00 -0.3
S 31 32.00
BADA 14.32 272 eP 27 02.00 0.6
CSS 16.37 296 eP 27 24.00 -3.9X
ASW 17.20 258 iPc 27 40.00 1.7
eS 31 07.00
KVT 17.34 318 eP 27 34.00 -6.0X
HLW 17.43 278 eP- 27 41.50 0.4
ePcP 31 02.00
(S) 33 06.00
ARO 19.10 206 eP+ 28 01.00 -0.8
ELL 19.55 299 eP 28 07.00 0.1
KHL 20.35 303 eP 28 09.00 -6.3X
IZI 21.18 308 eP 28 24.50 0.8
BOM 22.04 112 iP 28 32.00 -0.4
eS 32 34.00
NDI 22.68 84 iPc 28 40.00 1.3
eS 32 47.00
KSH 22.84 56 P 28 42.00 1.7
E 10s 4.30um
S 32 41.00
POO 23.06 112 iPc 28 47.60 5.0X
TLB 24.17 316 eP 28 57.50 4.5X
RZN 25.01 308 eP 29 03.00 1.5
ISR 25.36 316 eP 29 22.00 17.5X
SRS 25.60 306 ePd 29 08.52 1.7
VRI 25.63 318 eP 29 09.00 2.0
MMB 25.67 307 eP 29 07.00 -0.4
SOH 25.68 305 ePc 29 08.36 0.8
CLI 25.69 320 eP 29 10.50 2.9X
MLR 25.90 316 eP 29 13.20 3.5X
AGG 25.93 300 ePc 29 11.32 1.4
LIT 26.09 303 iPc 29 24.05 12.7X
KNT 26.11 305 ePd 29 21.36 9.8X
KKB 26.22 307 eP 29 12.00 -0.5
VTS 26.39 308 iP 29 16.00 1.7
SKO 27.41 306 iP 29 24.00 0.6
Z 16s 1.30um 4.6MszX
N 16s 2.34um
E 18s 1.21um
eS 34 04.00
HYB 27.49 109 ePd 29 24.50 0.2
1.0s 50.00nm 5.1mb
OHR 27.61 304 iP 29 23.00 -2.3
OBN 28.16 342 eP 29 30.00 0.0
e 30 27.00
e 30 52.00
LR 41 40.00

GBA 28.66 117 Pd 29 35.30 0.5
1.2s 28.30nm 4.8mb
GKN 29.24 84 P 29 38.78 -1.5
DMN 29.72 84 P 29 45.04 0.3
KKN 29.84 84 P 29 45.02 -0.7
0.5s 62.00nm 5.6mb
PKI 29.99 84 P 29 45.82 -1.4
1.0s 101.00nm 5.6mb
GUN 30.34 84 P 29 49.54 -0.8
KOD 30.78 122 eP 29 55.00 0.9
SPC 31.10 319 eP 29 56.20 -0.4
KRA 31.70 320 eP 30 01.00 -0.6
WMO 32.51 53 P 30 10.00 1.2
Z 25s 3.00um 4.9MszX
N 24s 4.80um
pP 30 22.50 48kmX
ZST 32.53 316 e(P) 30 08.30 -0.5
VBY 32.77 310 e(P) 30 11.40 0.5
LJU 33.41 311 e(P) 30 17.50 0.9
VOY 33.84 310 e(P) 30 11.00 -9.3X
KSP 34.13 320 ePc 30 22.00 -0.7
LSA 34.61 79 P 30 25.30 -2.3
S 35 54.00
PRU 34.79 317 eP 30 29.00 0.6
KHC 35.05 316 P 30 29.80 -0.9
Z 20s 0.40um 4.2Msz
N 16s 0.30um
E 16s 0.30um
e 31 48.50
BRG 35.49 319 e(P) 30 32.00 -2.3
2.0s 34.00nm 4.9mb
WTTA 35.68 312 iPd 30 35.50 -0.7
1.1s 27.60nm 5.1mb
i 30 47.30
i 31 02.50
CLL 36.21 319 iP 30 40.80 0.4
e 30 57.00
KAF 36.97 341 eP 30 45.70 -0.9
UPP 38.35 333 iP 30 57.00 -1.2
LPG 38.58 308 eP 31 01.70 1.0
0.9s 6.55nm 4.4mb
LPL 38.59 308 eP 31 02.40 1.6
0.9s 8.20nm 4.5mb
HFS 40.11 332 eP 31 11.90 -1.0
0.8s 11.80nm 4.7mb
SMF 40.76 309 eP 31 17.60 -0.8
0.8s 8.05nm 4.5mb
GTA 41.00 62 P 31 21.00 0.4
4.0s 4200.00nm 6.5mb X
Z 20s 1.80um 4.9Msz
E 14s 1.50um
pP 31 31.40 36kmX
sP 31 35.40
S 37 32.00
SS 40 30.00
SSF 41.05 310 eP 31 20.40 -0.4
0.8s 5.35nm 4.3mb
SOD 41.17 346 iP 31 22.00 0.5
NAO 41.68 331 P 31 25.20 -0.5
0.8s 4.80nm 4.3mb
KEV 43.11 348 eP 31 31.00 -6.3X
LDF 43.68 311 eP 31 41.30 -1.0
FLN 43.94 311 eP 31 43.30 -1.0
0.6s 6.30nm 4.6mb
Z 21s 0.32um 4.2Msz
GRR 44.15 311 eP 31 45.70 -0.3
LPF 44.23 310 eP 31 45.80 -0.9
0.5s 4.35nm 4.5mb
LZH 44.39 67 iPc 31 50.00 1.6
2.0s 170.00nm 5.5mb
Z 20s 1.28um 4.8Msz
E 15s 0.97um
CHG 44.45 92 eP 31 48.40 -0.5
1.8s 63.64nm 5.2mb
BDT 45.11 94 eP 31 53.20 -0.9
CD2 45.13 74 P 31 54.50 0.3
Z 16s 0.70um 4.7MszX
IRK 45.21 44 eP 31 55.30 0.8
e 32 20.10
KMI 45.67 82 Pd 31 57.50 -1.2
1.5s 80.00nm 5.4mb
Z 18s 1.50um 5.0Msz
KHT 45.79 98 eP 32 01.20 1.7
TOL 46.28 299 eP 32 04.00 0.8
NST 46.75 96 eP 32 08.50 1.4
LOE 47.43 93 eP 32 13.00 0.5
GYA 48.68 79 P 32 22.00 -0.2

1.0s 10.00nm 4.8mb
Z 20s 0.60um 4.6Msz
BTO 48.76 60 eP 32 24.00 1.3
Z 18s 1.60um 5.1Msz
N 15s 1.00um
E 18s 1.30um
eS 39 25.00
XAN 48.81 69 P 32 23.00 -0.1
N 14s 0.70um
E 14s 0.80um
MTD 49.35 205 iPc 32 24.70 -2.6
HHC 49.90 59 P 32 32.40 0.9
Z 21s 2.30um 5.2Msz
N 16s 0.80um
S 39 42.00
KRI 50.16 207 iPc 32 36.00 2.4
TIY 50.99 63 eP 32 40.00 0.2
Z 20s 1.20um 4.9Msz
N 14s 0.70um
S 39 56.50
PSI 52.23 111 ePc 32 48.50 -0.7
IPM 52.91 108 ePc 32 52.90 -1.5
1.0s 41.50nm 5.4mb
BJI 53.50 60 eP 32 58.00 -0.3
Z 22s 2.48um 5.2Msz
E 14s 0.63um
eS 40 28.00
BUL 53.55 207 iPc 32 58.80 -0.2
TIA 54.97 64 eP 33 10.10 0.9
KIC 57.37 258 P 33 25.84 -0.9
0.9s 25.50nm 5.3mb
TIC 57.47 259 P 33 26.36 -1.1
0.8s 22.50nm 5.3mb
LIC 57.69 258 P 33 28.02 -0.9
0.7s 28.50nm 5.4mb
YAK 59.44 32 iP 33 40.50 0.0
CN2 59.59 54 eP 33 42.00 0.3
Z 18s 4 30um 5.6Msz
N 16s 0 60um
E 16s 1.00um
esP 33 59.00
eS 41 46.00
eSS 45 45.00
MAT 71.08 58 eP 34 56.00 0.0
MBC 74.85 358 eP 35 18.00 0.6
0.9s 10.00nm 4.8mb
INK 82.92 2 eP 36 03.00 1.7
FBA 85.23 8 P 36 11.50 -1.5
1.0s 4.50nm 4.6mb
YKA 88.13 354 eP 36 28.50 1.3
0.9s 5.10nm 4.8mb
ASPA 95.09 114 iPd 36 59.80 -0.4
1.0s 7.80nm 5.1mb
SPA 118.84 180 ePKP 42 24.00 -0.8
0.7s 7.81nm
ZOBO 123.22 269 PKP 42 37.70 2.5
Z 22s 0.40um 5.0Msz
LR 22 50.00
LPB 123.31 269 ePKP 42 41.00 5.8X
CNCB 123.32 268 PKP 42 37.00 1.6
S.D. = 1 2 on 106 of 125 obs.

? SEP 16, 1991 13h 58m 59.41± 4.77s
17.002 N ±28.2km 61.009 W ±34.6km
DEPTH = 33.0km (normol)
LEEWARD ISLANDS (92)
ML 3.1 (FDF).

DEG 0.69 184 ePd 59 12.18 -0.5
SEG 0.76 219 iPd 59 13.30 -0.4
BPA 0.81 273 ePd 59 14.51 0 1
MGG 1.12 195 eP 59 19.50 0 7
DOG 1.13 211 eP 59 19.14 0.2
PAG 1.16 214 eP 59 19.30 -0.2
S 59 34.20
BBL 1.54 197 eP 59 25.00 0.1
S.D. = 0.5 on 7 of 7 obs.

? SEP 16, 1991 14h 31m 56.76± 3.80s
41.590 N ±31.3km 22.328 E ± 9.6km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
MD 2.8 (THE).

KNT 0.61 135 iPd 32 08.80 -0.2
iS 32 16.30
GRG 0.63 175 ePc 32 09.48 -0.1
SRS 1.06 116 iPc 32 16.72 -0.1
iS 32 31.66
FNA 1.08 222 ePc 32 17.12 0.0
SOH 1.09 134 ePd 32 17.56 0.3
eS 32 32.44
S.D. = 0.2 on 5 of 5 obs.

? SEP 16, 1991 17h 03m 37.75± 2.60s
3.974 N ±16.5km 76.091 W ±31.2km
DEPTH = 33.0km (normol)
COLOMBIA (103)
MD 2.7 (UVC).

BUGC 0.18 244 eP 03 44.46 0.1
eS 03 48.80
HOBC 0.38 353 iPd 03 46.72 0.0
eS 03 52.80
CLMC 0.48 259 ePc 03 48.07 -0.2
eS 03 55.20
HOOC 0.74 227 ePc 03 51.66 -0.3
eS 04 01.40
ANCC 0.90 240 eP 03 54.47 0.4
S.D. = 0.4 on 5 of 5 obs.

% SEP 16, 1991 17h 12m 06.66± 3.73s
16.940 N ±22.0km 61.064 W ±25.1km
DEPTH = 26.8 ± 14.2 km
LEEWARD ISLANDS (92)
ML 3.3 (FDF).

DEG 0.62 180 iPd 12 18.93 0.0
SEG 0.68 218 iPd 12 20.00 0.1
SFG 0.69 191 iPd 12 20.29 0.2
BPA 0.77 278 iPd 12 21.20 -0.2
S 12 31.30
MGG 1.04 193 eP 12 25.40 -0.1
DOG 1.05 211 iPd 12 25.47 -0.2
PAG 1.08 213 eP 12 25.70 -0.4
S 12 40.20
MGH 1.13 259 ePd 12 27.01 0.3
BBL 1.46 196 eP 12 31.70 0.2
S 12 51.60
S.D. = 0.3 on 9 of 9 obs.

? SEP 16, 1991 17h 36m 38.64± 1.02s
60.910 N ± 8.1km 5.825 E ±10.1km
DEPTH = 10.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 1.2 (BER).

HYA 0.31 34 eP 36 45.11 0.0
ASK 0.53 216 eP 36 49.39 0.1
SUE 0.54 286 ePg 36 49.53 0.0
eSg 36 57.63
EGD 0.71 205 eP 36 52.49 -0.1
S.D. = 0.1 on 4 of 4 obs.

SEP 16, 1991 17h 47m 17.83± 0.12s
5.487 S ± 2.4km 147.055 E ± 3.4km
DEPTH = 214.5km (3 depth phases)
5.1mb (28 obs.)
EASTERN NEW GUINEA REG., P.N.G. (207)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 25C
Centroid Locotion:
Origin Time 17:47:17.7 1.4
Lat 5.83S 0.12 Lon 147.45E 0.10
Dep 210.1 3.7 Half-duration 2.0
Moment Tensor; Scale 10**16 Nm
Mrr= 4.09 0.55 Mtt=-7.31 0.86
Mff= 3.22 1.06 Mrt= 1 96 0.72
Mrf=-7.25 0.58 Mtf= 3 15 0.78
Principal Axes:
T Val= 10.95 Plg=46 Azm= 94
N -1.39 37 311
P -9.56 20 205
Best Double Couple:Mo=1.0*10**17
NP1 Strike=252 Dip=42 Slip= 24
NP2: 144 74 129

MDG 1.29 280 iPc 47 49.70 -1.7
YYYY 1.32 235 eP 47 51.70 -0.1
MNDI 3.44 259 iP 48 14.80 0.7
eS 48 59 00
PMG 3.90 179 iPd 48 17 20 -2.2
eS 49 02.50
RAB 5.26 76 eP 48 34.00 -2.5
iS 49 34.00
HNR 13.37 108 ePc 50 19.00 -1.6
S 52 55.00
CTA 14.53 183 iPd- 50 46.00 10.9X
1.3s 711.54nm
ipP 50 52.00
i(PP) 51 10.00
e 52 24.00
iS 53 21.00
QIS 16.64 205 iPd 51 00.00 -0.6
i 51 54.30
i 54 04.70
MTN 17.33 244 eP 51 07.10 -1.1
WR2 18.95 220 iPc 51 25.20 0.1
0.6s 482.50nm 6.2mb X
iS 54 49.60
GUA 19.02 354 eP 51 26.00 0.1
1.3s 353.85nm 5.7mb
PJG 19.07 353 eP 51 25.50 -0.9
KNA 20.65 239 eP 51 42.20 0.0
e 55 19.50
RMO 20.95 176 iPd 51 56.50 11.4X
0.7s 182.00nm
i 52 24.00 147kmX
QLP 21.15 187 iPd 51 48.40 1.3
0.5s 230.00nm 6.0mb
ASPA 22.07 214 iPd 51 58.00 1.9
0.9s 485.00nm 6.0mb
Z 19s 1.70um 4.5Msz
i 52 20.90 111kmX
eS 55 46.60
e 58 29.70
BRS 22.45 167 iPd 52 00.80 1.0
1.0s 29.50nm 4.8mb
ipP 52 13.50 52kmX
i(S) 56 02.00
PVC 24.08 122 iPd 52 16.00 0.7
DZM 24.97 133 iPc 52 22.50 -1.1
COO 25.37 170 iPc 52 28.00 0.8
STK 26.75 190 iPd 52 38.70 -0.9
0.6s 8.80nm 4.6mb
ipP 52 51.20 49kmX
iPP 53 20.30
WARB 28.36 221 iPd 52 55.00 0.8
BWA 28.82 178 iPd 52 58.20 0.0
e 53 42.20 219km
eScP 59 27.60
CAN 29.74 177 iPd 53 06.10 -0.2
e 53 44.10 185kmX
eScP 59 29.90
CNB 29.76 176 iPc 53 06.60 0.1
0.9s 23.00nm 4.9mb
MBL 30.64 237 eP 53 13.00 -1.3
FORR 30.89 213 eP 53 15.90 -0.4
0.2s 10.00nm 5.2mb
BFD 31.81 187 iPd 53 24.00 -0.3
0.7s 115.00nm 5.6mb
NANU 34.85 238 iPd 53 50.30 -0.2
0.4s 14.00nm 4.9mb
COOL 35.08 221 eP 53 52.20 -0.2
MRWA 37.67 228 iPd 54 14.40 0.3
0.6s 36.00nm 5.1mb
KLB 37.78 223 iPd 54 14.90 -0.1
0.3s 11.00nm 4.9mb
BAL 37.93 225 eP 54 16.00 -0.3
MUN 39.07 224 eP 54 26.00 0.3
RKG 40.11 220 eP 54 35.20 1.0
0.7s 96.00nm 5.4mb
IIDJ 41.65 349 P 54 46.40 -0.4
CHJJ 42.00 350 P 54 49.40 -0.2
RUZ 42.13 147 eP 54 52.40 1.7
URZ 42.53 144 eP 54 54.20 0.3
MAT 42.62 349 iPc 54 54.20 -0.4
1.3s 90.38nm 5.1mb
eS 01 01.00
TCW 43.10 150 P 54 58.80 0.4
KIW 43.16 149 eP 54 59.90 0.9
NIIJ 43.16 351 P 54 59.20 0.2
MNG 43.28 148 P 55 00.10 0.2
NOZ 43.31 144 P 55 00.50 0.3
MRW 43.33 149 eP 55 00.70 0.5
GZH 43.49 312 Pc 55 03.50 1.7
KHZ 43.65 151 eP 55 01.90 -0.9
PGZ 43.70 147 eP 55 02.80 -0.5
BLW 43.82 149 eP 55 03.80 -0.5
YAMJ 43.92 352 P 55 05.60 0.5

16d 17h

SSE 43.98 327 iPc 55 06.50 0.9
1.0s 37.00nm 4.8mb
pP 55 46.50 183kmX
OFUJ 44.62 354 P 55 11.40 0.9
NJ2 45.99 326 Pc 55 22.40 1.0
WHN 47.57 321 Pc 55 35.50 1.7
1.0s 60.00nm 4.9mb
MRRJ 47.99 354 eP 55 37.00 0.1
KUSJ 48.40 358 eP 55 39.70 -0.3
ASAJ 49.54 356 eP 55 49.40 0.7
TIA 50.07 328 P 55 52.30 -0.6
GYA 50.39 311 P 55 57.00 1.4
SNY 51.73 338 Pc 56 05.00 -0.3
MDJ 52.29 344 Pc 56 09.00 -0.3
1.0s 20.00nm 4.6mb
KMI 52.73 307 eP 56 14.00 0.8
1.5s 40.00nm 4.8mb
CN2 52.80 340 eP 56 12.50 -0.6
CHG 53.19 298 eP 56 16.00 -0.4
XAN 53.32 320 iPc 56 16.50 -0.7
0.8s 60.00nm 5.2mb
BJI 53.46 331 eP 56 17.50 -0.7
1.7s 49.00nm 4.8mb
TIY 53.71 326 Pd 56 19.90 -0.1
CD2 54.96 314 P 56 29.00 -0.1
0.8s 30.00nm 5.0mb
HHC 56.43 328 Pc 56 39.50 0.0
0.8s 40.00nm 5.2mb
BTO 57.08 327 P 56 44.00 0.0
LZH 57.86 319 iPc 56 50.00 0.3
1.5s 110.00nm 5.3mb
GTA 62.39 320 Pc 57 20.60 0.4
1.0s 40.00nm 5.2mb
S 05 32.60
LSA 63.98 307 P 57 29.20 -2.0
GUN 67.63 303 P 57 54.94 0.6
0.7s 34.00nm 5.2mb
PKI 67.92 303 P 57 54.12 -2.0
IRK 68.02 333 eP 57 55.80 0.0
e 58 51.20 238kmX
KKN 68.10 303 P 57 55.76 -1.3
DMN 68.18 302 P 57 55.16 -2.5
YAK 68.63 351 iP 57 59.60 0.3
i 58 51.00 219km
e 06 48.00
GKN 68.70 303 P 57 59.92 -0.8
WMO 72.44 319 P 58 22.70 0.0
QUE 84.23 301 eP 59 27.00 0.0
e 00 22.50 229kmX
SPA 84.55 180 iPd 59 27.10 -0.7
1.0s 26.00nm 4.9mb
i 00 17.30 205km
ORV 94.57 51 P 00 15.10 -0.2
PNT 96.29 41 iP 00 24.00 1.0
NEW 97.94 42 P 00 31.00 0.5
1.0s 40.00nm 5.8mb
PLM 98.06 57 P 00 33.00 1.5
BW06 103.53 47 Pdiff 00 55.30 -0.6
1.0s 5.17nm 5.3mb
PV09 104.20 52 Pdiff 01 00.00 0.9
GOL 107.00 50 Pdiff 01 12.10 0.7
0.8s 1.93nm 5.3mb
KRA 117.38 325 ePKP 05 38.50 -0.8
KSP 119.05 327 ePKP 05 41.80 -0.7
SRO 119.35 323 e(PKP)05 42.60 -0.5
BRG 120.30 328 iPKP 05 45.20 0.4
0.8s 20.00nm
PRU 120.45 327 PKP 05 44.80 -0.3
CLL 120.56 328 iPKP 05 45.00 -0.3
1.0s 17.00nm
KHC 121.44 326 ePKP 05 46.50 -0.6
MOX 121.66 328 ePKP 05 47.20 -0.2
1.2s 13.00nm
GRF 122.41 328 ePKPd 05 49.00 0.1
WTTA 123.54 325 iPKPd 05 47.90 -3.5X
0.8s 27.20nm
i 05 50.80
ENN 124.44 331 ePKP 05 53.00 0.2
0.9s 18.00nm
MEM 124.50 331 iPKPd 05 52.82 -0.1
EKA 124.86 340 PKP 05 54.00 0.5
0.8s 13.70nm
CDF 125.26 328 iPKPc 05 54.00 -0.6
0.8s 5.35nm
SNF 125.39 332 iPKP 05 55.16 0.5
DOU 125.52 331 PKPc 05 55.00 0.1
BSF 125.87 328 iPKPc 05 55.50 -0.4
0.9s 26.20nm
HAU 126.00 328 iPKPc 05 55.70 -0.3
0.8s 20.15nm
LPL 127.32 326 iPKPc 05 59.00 0.1
0.9s 8.20nm
LPG 127.32 326 iPKPc 05 59.00 0.0
0.9s 7.35nm
PGF 127.67 321 iPKPc 05 59.30 -0.2
1.0s 20.00nm
LOR 127.76 329 iPKPc 05 59.50 0.1
1.1s 18.30nm
LBF 127.89 329 iPKPc 05 59.80 0.1
0.9s 11.45nm
SBF 127.89 324 iPKPc 05 59.40 -0.4
1.1s 26.85nm
SSF 128.08 329 iPKPc 06 00.30 0.3
0.9s 14.75nm
SMF 128.18 328 iPKPc 06 00.20 0.0
1.0s 17.00nm
AVF 128.34 329 iPKPc 06 00.40 0.0
0.6s 4.05nm
FRF 128.53 324 iPKPc 06 00.90 0.0
1.0s 16.00nm
LMR 128.74 324 iPKPc 06 01.40 0.1
1.1s 19.55nm
BGF 128.75 329 iPKPc 06 01.50 0.2
0.8s 19.50nm
LRG 128.76 324 iPKPc 06 01.50 0.2
0.8s 17.45nm
LDF 128.79 333 iPKPc 06 01.20 0.0
1.1s 17.10nm
FLN 128.83 333 iPKPc 06 01.30 0.0
1.1s 24.40nm
MAF 129.12 329 iPKPc 06 02.30 0.3
1.1s 9.75nm
TCF 129.26 329 iPKPc 06 02.60 0.3
0.7s 16.00nm
GRR 129.27 333 iPKPc 06 02.40 0.2
0.9s 16.40nm
LPF 129.62 333 iPKPc 06 03.20 0.4
0.9s 29.50nm
LSF 129.63 329 iPKPc 06 03.00 0.1
0.7s 8.25nm
MFF 130.22 331 iPKPc 06 04.30 0.3
0.7s 5.50nm
CAF 130.25 328 iPKPc 06 05.00 0.8
RJF 130.28 328 iPKPc 06 04.60 0.4
0.7s 4.40nm
LFF 130.93 329 iPKPc 06 06.20 0.8
EPF 132.44 327 iPKPc 06 09.20 0.8
0.9s 4.90nm
CUMC 134.93 94 ePKP 06 15.39 0.7
HOOC 136.41 91 ePKP 06 16.48 -0.6
PURC 136.58 92 ePKP 06 18.70 0.9
SDV 142.47 83 ePKP 06 24.00 -4.0X
TOV 143.25 81 ePKP 06 23.00 -6.1X
AVE 143.53 323 iPKPc 06 22.50 -6.5X
SIV 144.92 128 iPKPc 06 31.00 -0.8
TIO 145.04 319 iPKP 06 32.00 0.2
PPD 147.26 147 ePKP 06 36.10 0.6
i 06 40.70
KIC 151.93 273 PKP 06 48.34 5.5X
TIC 152.21 274 PKP 06 48.50 5.2X
LIC 152.22 273 PKP 06 48.78 5.5X
S.D. = 0.8 on 137 of 146 obs.

% SEP 16, 1991 19h 35m 53.69± 3.30s
14.873 N ±10.3km 60.439 W ±30.6km
DEPTH = 33.0km (normal)
WINDWARD ISLANDS (95)
ML 2.4 (FDF).

CRM 0.48 256 iPd 36 04.06 0.1
S 36 10.66
MVM 0.54 234 iPd 36 05.11 0.1
S 36 12.68
FDF 0.70 259 iPd 36 06.84 -0.3
0.1s 3.33nm
BIM 0.71 240 eP 36 07.25 0.0
S 36 16.20
BBL 1.19 303 eP 36 14.00 -0.2
MGG 1.34 321 eP 36 16.00 -0.2
S 36 28.10
DEG 1.55 337 eP 36 19.10 -0.3
DOG 1.62 316 eP 36 20.77 0.4
S 36 37.80
SEG 1.84 326 eP 36 23.70 0.3
S 36 44.50
S.D. = 0.3 on 9 of 9 obs.

& SEP 16, 1991 19h 59m 04.75s
59.991 N 141.547 W
DEPTH = 6.0km
SOUTHEASTERN ALASKA (19)
<AEIC>. ML 2.7 (AEIC).

CTGM 0.98 6 eP 59 22.83 -1.1
iS 59 36.91
TGL 1.00 321 eP 59 22.82 -1.3
eS 59 36.93
CROM 1.10 315 eP 59 23.81 -2.1
eS 59 41.01
GLB 1.83 324 eP 59 35.58 -1.5
eS 00 00.12
KLU 2.62 307 eP 59 46.62 -1.8
eS 00 21.88
VLZ 2.63 298 eP 59 48.77 0.4
VZW 2.70 296 eP 59 49.38 -0.1
7 obs. associated

& SEP 16, 1991 21h 04m 46.17s
61.335 N 140.601 W
DEPTH = 0.0km
SOUTHERN YUKON TERRITORY, CANADA(18)
<AEIC>. ML 2.6 (AEIC).

CTGM 0.51 224 eP 04 56.05 -0.4
eS 05 06.87
YAH 1.12 210 eP 05 06.80 -1.5
TGL 1.23 243 iP 05 09.00 -1.1
iS 05 29.38
CROM 1.36 246 eP 05 10.98 -1.4
eS 05 33.63
GLB 1.55 275 eP 05 14.24 -0.9
eS 05 39.70
YKU 1.84 166 eP 05 17.70 -1.5
KLU 2.56 276 eP 05 30.42 0.7
VLZ 2.78 268 eP 05 32.67 -0.1
VZW 2.90 267 eP 05 34.51 0.0
9 obs. associated

SEP 16, 1991 21h 28m 46.09± 0.43s
45.907 N ± 3.3km 6.902 E ± 4.8km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.6 (LDG), 2.2 (GEN).

EMS 0.16 7 iPc 28 49.10 -0.9
DIX 0.39 64 iPd 28 53.50 -0.8
LPL 0.41 197 Pg 28 54.50 0.0
LPG 0.42 194 Pg 28 54.80 0.0
Sg 29 00.60
LSD 0.48 158 P 28 55.40 -0.6
S 29 00.78
MMK 0.76 79 ePc 28 59.60 -1.4
RSP 0.80 162 P 29 01.09 -0.6
S 29 10.42
ORX 0.80 110 P 29 02.32 0.5
S 29 11.75
RRL 0.99 185 P 29 05.08 0.0
S 29 17.29
BHB 1.10 166 P 29 07.03 0.3
S 29 20.16
TMA 1.39 81 ePc 29 11.50 -0.1
PZZ 1.41 174 P 29 12.47 0.5
S 29 27.75
STV 1.69 170 P 29 15.75 -0.1
LLS 1.74 56 ePd 29 18.50 1.8
ROB 1.75 157 P 29 17.08 0.3
PCP 1.79 139 P 29 16.88 -0.5
VDL 1.88 71 ePd 29 20.30 1.6
BSF 1.93 358 Pg 29 21.80 2.5
Sg 29 46.00
SBF 2.08 169 Pg 29 26.80 5.3X
Sg 29 52.70
FEL 2.11 21 eP 29 20.47 -1.5
HAU 2.13 350 Pn 29 21.40 -0.8
Pg 29 26.00
Sg 29 52.40
SLE 2.16 30 ePd 29 26.30 3.7X
SMF 2.25 290 Pg 29 28.20 4.3X
Sg 29 56.50
LBF 2.29 299 Pn 29 24.00 -0.6
Sn 29 58.00

```
FRF      2.35 185 Pg     29 30.80    5.4X
LOR      2.50 304 Pg     29 33.60    6.1X
                  Sg     30 03.60
AVF      2.61 291 Pg     29 35.60    6.6X
                  Sg     30 07.00
SSF      2.61 297 Pg     29 35.60    6.5X
                  Sg     30 08.60
BGF      2.89 284 Pn     29 33.20    0.2
                  Pg     29 40.80
                  Sg     30 16.40
MAF      3.03 277 Pg     29 43.20    8.2X
                  Sg     30 20.70
TCF      3.29 278 Pg     29 48.20    9.5X
     S.D. = 1.0  on  22 of  31 obs.
-------------------------------------
?  SEP 16, 1991  21h 28m 58.01± 3.10s
    4.426 N ±50.4km   76.436 W ±50.9km
   DEPTH = 110.0km  (geophysicist)
 COLOMBIA                          (103)
      MD 3.0 (UVC).

HOBC     0.31 103 eP     29 14.19    0.0
                  eS     29 27.60
CLMC     0.56 193 eP     29 16.24    0.6
                  eS     29 31.20
BUGC     0.56 161 eP     29 15.55   -0.1
                  eS     29 29.90
HOOC     0.97 192 eP     29 19.34   -0.2
                  eS     29 36.50
ANCC     1.00 205 eP     29 19.04   -0.5
     S.D. = 0.6  on   5 of   5 obs.
-------------------------------------
   SEP 16, 1991  22h 01m 57.33± 0.60s
   19.652 N ±10.2km   92.994 E ± 8.7km
   DEPTH =  33.0km  (normal)
   4.0mb (  2 obs.)
 BAY OF BENGAL                     (319)

CHG      5.68  97 ePn    03 21.60   -0.1
                  eSg    04 23.00
SHL      5.98 350 eP     03 28.00    2.0
                  iS     04 32.20
BDT      6.19 112 ePg    03 27 30   -1.5
                  e      03 55.00
KHT      7.21 131 eP     03 42.50   -0.7
NST      7.87 119 ePg    03 53.00    0.6
                  e      04 06.00
LOE      8.58 104 eP     04 03.00    0.7
                  e      04 12.00
                  eSg    05 34.00
GUN     10.49 323 P      04 29.02    0.2
PKI     10.51 320 P      04 29.94    0.8
KMI     10.53  57 eP     04 44.00   14.6X
DMN     10.72 319 P      04 31.88   -0.1
KKN     10.75 320 P      04 30.28   -1.9
GKN     11.29 319 P      04 38.12   -1.5
HYB     13.88 263 eP     05 14.60    0.6
GBA     16.07 250 Pd     05 51.00    8.5X
        0.8s      8.50nm          3.9mb
NDI     16.96 305 eP     06 06.00   12.3X
KOD     17.67 240 eP     06 15.00   12.0X
PSI     17.82 160 ePd    06 05.50    0.9
POO     18.13 270 eP     06 14.00    5.6X
LZH     18.95  28 eP     06 26.50    8.0X
        2.0s     21.00nm          4.0mb
     Z  12s      0.21um           4.6Msz
NAO     69.24 329 P      13 15.00   12.2X
        0.9s      2.00nm
     S.D. = 1.3  on  13 of  20 obs.
-------------------------------------
   SEP 16, 1991  22h 19m 08.08± 0.14s
   13.246 S ± 3.4km  167.139 E ± 4.7km
   DEPTH = 162.8km  ( 26 depth phases)
   5.4mb ( 29 obs.)
 VANUATU ISLANDS                   (186)
      CENTROID, MOMENT TENSOR      (HRV)
      Data Used: GDSN
      L.P.B.: 21S, 41C
      Centroid Location:
      Origin Time        22:19:13.4 0.6
      Lat 13.22S 0 05 Lon 166.91E 0.05
      Dep 166.8 1.4 Half-duration  2.0
      Moment Tensor;   Scale 10**17 Nm
        Mrr= 1.72 0.07  Mtt= 0.10 0.10
        Mff=-1.82 0.10  Mrt= 0.15 0.08
        Mrf=-1.06 0.08  Mtf=-0.39 0.11
       Principal Axes:
          T  Val=  2.05  Plg=72  Azm= 65
          N        0.12       9      186
          P       -2.16      15      279
   Best Double Couple:Mo=2.1*10**17
    NP1:Strike= 22 Dip=31 Slip= 108
    NP2:       181     60       79

HNR      8.01 298 ePd    21 04.00    1.4
                  S      22 33.00
VUN     11.89 115 ePc    22 07.00   13.4X
SVA     11.93 115 eP     22 07.20   13.1X
BRS     19.45 221 iPc    23 25.60    1.2
        1.2s     19.00nm          4.4mb
                  ipP    23 43.90   90kmX
                  i(S)   27 01.00
CTA     21.12 248 iPd-   23 42.00    0.7
        1.6s    550.00nm          5.8mb
                  i      24 10.00  148kmX
                  i      24 22.00
                  iS     27 26.50
CTAO    21.12 248 iPd-   23 42.00    0.7
        1.6s    827.07nm          5.9mb
                  i      24 10.00  148kmX
                  i      24 22.00
                  iS     27 26.50
RMO     21.70 230 iPd    23 58.40   11.5X
        0.9s    254.00nm
                  i      24 26.00  141kmX
COO     22.26 217 eP     23 55.00    2.6
OLP     25.24 235 eP     24 21.00    0.3
CMS     26.70 224 eP     24 35.00    1.0
                  i      25 06.80  153km
BWA     27.07 216 eP     24 36.60   -0.7
                  e      25 08.60  154km
CNB     27.21 213 eP     24 39.90    1.3
        1.0s     33.00nm          5.0mb
OIS     27.30 251 eP     24 38.00   -1.5
                  i      25 11.60  162km
CAN     27.41 214 eP     24 41.10    0.7
                  e      25 17.20  176kmX
MNG     28.23 166 eP     24 47.00   -0.7
PGZ     28.42 165 eP     24 48.50   -0.9
TCW     28.55 169 eP     24 50.70    0.2
MRW     28.65 168 eP     24 51.20   -0.2
WDW     28.75 168 eP     24 51.40   -0.9
MTW     28.75 167 eP     24 51.70   -0.7
THZ     28.85 171 eP     24 53.90    0.6
BLW     28.95 167 P      24 53.70   -0.4
AMW     28.95 167 eP     24 53.80   -0.3
KHZ     29.59 170 eP     24 59.80    0.1
LTZ     29.76 172 P      25 01.90    0.6
EWZ     30.33 175 eP     25 07.20    1.0
BWZ     31.27 176 eP     25 13.80   -0.6
MMCZ    31.70 177 eP     25 18.40    0.1
SBCZ    31.79 177 eP     25 19.10    0.0
LSCZ    31.82 177 eP     25 19.20   -0.1
CMCZ    31.85 177 eP     25 19.70    0.1
TLC     31.88 177 eP     25 20.50    0.6
TUZ     32.67 177 P      25 27.40    0.8
ASPA    33.11 247 iPd    25 29.30   -1.5
        0.7s     33.40nm          5.2mb
     Z  22s      0.80um           4.4Msz
                  e      26 02.60  155km
                  eS     30 32.40
                  iScS   35 37.40
TAU     34.16 206 eP     25 40.00    0.6
KNA     37.20 261 eP     26 05.00   -0.4
FORR    39.95 238 eP     26 28.00    0.0
        0.2s     14.00nm          5.4mb
WARB    40.07 245 iPd    26 29.10    0.0
MBL     45.73 253 eP     27 15.00    0.1
COOL    45.74 240 eP     27 14.00   -0.9
NWAO    49.41 238 eP     27 42.50   -0.8
MRWA    49.86 243 eP     27 46.00   -0.8
MUN     50.09 239 eP     27 47.00   -1.5
MAT     56.54 332 iPc    28 34.80   -0.9
        1.2s     67.19nm          5.4mb
MTMJ    56.76 332 P      28 36.90   -0.5
NIIJ    56.76 333 P      28 37.30    0.0
YAMJ    57.11 335 P      28 40.00    0.3
OFUJ    57.23 337 P      28 40.30   -0.2
KUSJ    59.72 341 eP     28 56.60   -1.0
ASAJ    61.30 340 eP     29 09.10    0.7
SSE     62.37 316 iPc    29 15.00   -0.7
        1.0s     49.00nm          5.4mb
                  pP     29 52 50  158km
NJ2     64.53 315 Pc     29 29.30   -0.5
        1.1s    100.00nm          5.6mb
OIZ     64.92 298 eP     29 32.30   -0.2
MDJ     66.92 332 Pc     29 45.00    0.2
        1.3s     90.00nm          5.4mb
                  pP     30 22.50  156km
DL2     67.04 323 P      29 46.00    0.3
        1.0s    100.00nm          5.6mb
SNY     67.91 326 Pc     29 50.80   -0.2
IPM     67.98 281 ePc    29 52.10    0.1
        1.0s     54.70nm          5.3mb
TIA     68.15 318 Pc     29 57.20    4.5X
PSI     69.49 278 eP     30 01.00   -0.3
GYA     70.77 304 P      30 09.20    0.2
        1.4s     60.00nm          5.2mb
BJI     71.04 321 eP     30 10.00   -0.1
        1.5s     53.00nm          5.1mb
                  epP    30 50.00  166km
                  eS     39 10.00
TIY     72.09 317 Pc     30 17.30    0.8
        1.2s     40.00nm          5.0mb
                  S      39 28.00
XAN     72.60 312 Pc     30 19.80    0.2
KMI     73.42 301 Pc     30 25.50    0.7
KMI     73.42 301 P+     30 26.00    1.2
        1.3s    160.00nm          5.6mb
                  pP     31 07.00  169km
                  sP     31 25.00
CHG     74.36 294 iPc    30 31.00    1.0
        1.4s     75.58nm          5.2mb
HHC     74.38 319 Pc     30 30.50    0.7
CD2     75.01 307 P      30 34.00    0.4
        1.2s     70.00nm          5.3mb
BTO     75.23 319 P      30 35.50    0.8
SPA     76.84 180 iPc    30 43.20   -0.1
        1.0s     70.00nm          5.3mb
                  i      31 22.20  158km
LZH     77.23 312 iPc    30 47.50    1.5
        4.0s    300.00nm          5.4mb X
                  pP     31 28.50  167km
                  sP     31 45.00
YAK     80.56 343 iP     31 04.20    1.0
                  e      31 40.00  143kmX
GTA     81.56 314 iPc    31 10.20    1.1
        1.4s     70.00nm          5.2mb
PMR     82.15  19 P      31 12.00    0.5
        1.2s    103.03nm          5.4mb
                  pP     31 52.50  163km
SHL     82.75 298 iP     31 15.90    0.3
                  eS     41 18.50
MAW     83.20 202 iPd    31 18.00    1.1
IMA     84.26  15 ePc    31 23.50    1.2
ORV     84.48  47 P      31 23.90    0.1
                  pP     32 06.50  171km
ABL     84.49  52 P      31 25.00    0.8
                  pP     32 06.80  168km
IRK     84.63 327 eP     31 24.00   -0.2
LSA     84.67 302 Pc     31 24.90   -0.6
CMB     84.73  49 P      31 26.30    1.2
        1.0s      7.50nm          4.4mb
                  pP     32 07.80  166km
FBA     84.98  18 P      31 25.70   -0.1
                  pP     32 06.50  163km
SBB     85.51  53 eP     31 30.00    0.9
                  e      32 11.00  164km
RVR     85.64  54 eP     31 31.00    1.3
                  e      32 12.00  164km
PEC     85.77  54 P      31 28.90   -1.5
PLM     85.84  55 eP     31 32.00    1.1
                  e      32 13.00  163km
CLC     86.06  52 eP     31 33.00    1.2
                  e      32 14.00  163km
GSC     86.51  53 eP     31 35.00    1.0
                  e      32 16.00  163km
TPC     86.72  54 eP     31 35.00    0.0
                  e      32 17.00  168km
MCW     87.14  39 P      31 37.60    0.9
                  pP     32 19.10  165km
GLA     87.37  55 eP     31 40.00    1.9
                  e      32 21.00  163km
GUN     88.57 299 PKP    31 44.68    0.3
        0.8s     72.00nm          5.7mb
PKI     88.88 299 PKPc   31 45.94    0.1
        1.0s     86.00nm          5.7mb
KKN     89.05 299 PKPc   31 46.52    0.0
        0.9s     84.00nm          5.8mb
DMN     89.15 298 PKPc   31 47.44    0.4
        1.0s    154.00nm          6.0mb
```

16d 22h

PNT	89.34	39	eP	31	48.00	0.9	FLN	143.13	346	ePKP	38	20.40	-3.8X	GRBF	147.99	340	PKP	38	36.28	3.7X
GKN	89 66	299	PKPc	31	48.80	-0.4		0.5s	13.10nm					ETER	148.00	338	iPKPd	38	36.55	4.1X
	0.0s	85.00nm						Z 21s	0.08um			4.4Msz		EPF	148.21	341	ePKP	38	33.70	0.8
MSU	91.01	51	P	31	56.80	1.5	CSI	143.17	321	PKP	38	19.00	-5.6X	CAI	148.90	128	iPKPd	38	39.10	4.4X
			pP	32	37.40	160km	ORX	143.20	335	PKP	38	21.10	-3.5X	EGRA	149.17	342	ePKP	38	35.56	1.3
WMO	91.60	315	Pd	31	58.20	0.5	LDF	143.21	346	ePKP	38	20.80	-3.5X	ECRI	149.40	345	ePKP	38	36.37	1.6
	1.5s	40.00nm			5.3mb		TDS	143.22	321	PKP	38	31.50	6.9X	EBR	150.14	339	ePKP	38	42.00	6.2X
			pP	32	40.50	167km	SGO	143.27	323	PKP	38	31.60	6.9X	ESEL	150.15	335	ePKP	38	41.85	6.0X
KOD	91.99	280	eP	32	01.40	1.0	BDI	143.30	331	PKP	38	30.80	6.0X	EROO	150.17	340	iPKPd	38	36.73	0.9
HYB	92.57	287	ePd	32	03.00	0.4	LOR	143.30	341	ePKP	38	22.00	-2.6	STS	150.23	354	ePKP	38	36.82	0.9
	1.0s	40.00nm			5.5mb			1.2s	22.30nm					ETOR	150.95	343	ePKP	38	38.44	1.3
GBA	92.77	283	Pc	32	03.90	0.4		Z 19s	0.05um			4.3Msz		GUD	151.66	346	iPKPc	38	39.34	1.1
	1.1s	19.30nm			5.2mb		LBF	143.52	341	ePKP	38	22.60	-2.4	ECHE	151.74	340	ePKP	38	39.04	0.7
ANMO	94.57	55	P	32	11.30	-0.4		1.3s	30.70nm					PTO	151.96	353	ePKP	38	46.10	7.6X
			pP	32	53.00	165km	GRR	143.57	347	ePKP	38	22.30	-2.7	TOL	152.36	345	iPKPd	38	41.00	1.8
ZOBO	118.00	117	PKP	37	38.00	-0.6		0.6s	14.45nm					ACU	152.52	339	ePKP	38	47.50	8.0X
KEV	118.27	345	iPKP	37	36.90	0.1	SSF	143.60	341	ePKP	38	23.20	-1.9	EPLA	152.63	349	ePKP	38	40.78	1.2
	0.7s	12.00nm						1.3s	54.15nm					EVIA	153.09	342	iPKPd	38	41.56	1.2
SOD	120.05	343	iPKP	37	40.00	-0.2	CZI	143.61	321	PKP	38	21.70	-3.6X	EALH	153.45	339	iPKPd	38	49.65	8.9X
OBN	123.37	328	iPKPd	37	47.60	0.7	LSD	143.68	336	PKP	38	23.87	-1.7	EHUE	153.88	341	ePKP	38	42.30	0.9
	1.2s	******nm					LPL	143.79	336	ePKP	38	24.10	-1.7	EBAN	153.90	344	iPKPd	38	51.08	9.7X
KAF	123.77	339	iPKP	37	47.40	-0.1		1.3s	34.30nm					EHOR	154.60	346	ePKP	38	52.07	9.8X
	0.6s	19.10nm					LPG	143.80	336	ePKP	38	24.30	-1.6	ECOG	154.67	342	ePKP	38	51.44	8.9X
SIV	124.18	120	PKP	37	49.60	-0.1		1.1s	34.20nm					AFC	154.68	342	iPKPd	38	51.62	9.0X
NUR	125.45	338	iPKP	37	50.90	0.1	PCP	143.85	334	PKP	38	23.15	-2.5	EGUA	155.08	342	iPKPd	38	52.29	9.3X
	0.8s	45.50nm					SMF	143.86	340	ePKP	38	23.80	-1.7	EVAL	155.16	348	iPKPd	38	44.08	1.1
MTD	126.91	237	iPKPd	37	53.30	-1.8		1.5s	88.80nm					KIC	169.47	230	PKP	38	57.80	0.2
			i	38	34.60		RSP	143.89	336	PKP	38	23.36	-2.4	LIC	169.60	229	PKP	38	57.80	0.2
BUL	127.41	232	iPKPd	37	55.90	-0.1	AVF	143.89	341	ePKP	38	23.90	-1.6	TIC	169.87	230	PKP	38	58.20	0.4
			i	38	37.70			1.3s	43.30nm						S.D. = 1.1		on 191 of 238 obs.			
UPP	128.32	341	iPKP	37	56.20	-0.1	LPF	143.95	346	ePKP	38	24.10	-1.5	---						
KRI	128.48	236	iPKPd	38	00.10	1.9		0.5s	14.60nm					%	SEP 17, 1991		01h 17m 23.05± 1.02s			
			i	38	41.40		CKI	144.05	334	PKP	38	33.20	7.3X		38.169 N ±16.1km			14.909 E ±18.3km		
HFS	129.27	343	ePKP	37	58.00	-0.2	BHB	144.14	335	PKP	38	23.26	-2.8		DEPTH = 32.0 ± 15.5 km					
	0.7s	14.70nm					BNI	144.20	336	PKP	38	35.00	8.7X	SICILY						(398)
NAO	129.45	345	PKP	37	58.90	0.4	BGF	144.26	341	iPKPc	38	25.00	-1.2							
	0.7s	12.10nm						1.3s	97.50nm					MNO	0.29	216	Pd	17	32.60	1.8
VAO	130.88	137	ePKP	38	03.20	0.7	FIN	144.26	334	PKP	38	24.18	-2.1				eSg	17	36.90	
KRA	134 56	331	ePKP	38	09.00	0.5	RRL	144.27	336	PKP	38	25.51	-1.1	ATN	0.44	91	P	17	40.00	7.3X
SPC	134.99	330	ePKP	38	10.80	1 2	ROB	144.33	334	PKP	38	24.49	-2.0				eSg	17	49.20	
			e	40	45.80		SOI	144.34	319	PKP	38	35.00	8.4X	SOI	0.91	96	P	17	46.70	7.2X
KSP	135.66	334	ePKP	38	11.40	0.8	PZZ	144.48	335	PKP	38	24.69	-2.2				eSg	18	01.60	
			e	41	29.00		PLDF	144.53	340	PKP	38	26.96	0.2	MEU	1.07	179	P	17	41.10	-0.8
BZS	136.52	325	ePKP	38	20.00	7.6X	ENR	144.58	335	PKP	38	24.18	-2.8				eSg	17	51.80	
BRG	136.62	335	ePKP	38	13.10	0.7	STV	144.60	335	PKP	38	24.49	-2.5	MCT	1.14	242	P	17	42.00	-1.0
	1.5s	38.00nm					AGO	144.61	341	PKP	38	27.09	0.2	CZI	1.42	42	P	17	46.40	-0.4
			e	41	32.00		IMI	144.63	334	PKP	38	26.03	-1.0	ROI	1.91	42	P	17	53.70	-0.3
CLL	136.65	336	iPKP	38	12.70	0.2	MAF	144.64	341	ePKP	38	25.40	-1.5	CSI	1.93	33	P	17	55.00	0.7
	1.4s	27.00nm						1.2s	96.70nm						S.D. = 1.7		on 6 of 8 obs.			
SRO	136.86	329	ePKP	38	12.80	-0.2	TCF	144.69	342	ePKP	38	25.50	-1.5	---						
			e	41	31.00			1.3s	113.70nm					?	SEP 17, 1991		01h 53m 19.97± 5.78s			
PRU	137.05	334	ePKP	38	13.50	0.2	AUTN	144.76	334	PKP	38	23.30	-4.2X		43.735 N ±33.7km			8.486 E ±22.5km		
MOX	137.71	337	ePKP	38	15.50	1.0	TOUF	144.82	334	PKP	38	22.76	-4.8X		DEPTH = 10.0km		(geophysicist)			
	1.5s	25.00nm					SBF	144.87	334	iPKPc	38	26.80	-0.6	CORSICA						(380)
			e	38	44.00			1.2s	214.20nm						ML 1.9 (GEN).					
KHC	138.11	334	ePKP	38	15.50	0.1	AURF	144.89	334	PKP	38	23.73	-3.8X							
			e	40	59.00		COLF	144.90	340	PKP	38	27.51	0.1	IMI	0.47	292	P	53	29.25	-0.2
			e	41	36.50		PYM	144.92	341	PKP	38	28.09	0.6				S	53	36.12	
WTS	138.23	342	ePKP	38	15.00	-0.4	LSF	144.93	343	ePKP	38	26.00	-1.4	FIN	0.51	337	P	53	30.38	0.0
	1.3s	55.00nm					MVIF	144.96	334	PKP	38	23.80	-3.9X				S	53	36.74	
GRF	138.63	336	ePKPc	38	16.50	0.3	REVF	144.99	334	PKP	38	23.73	-3.9X	ROB	0.71	322	P	53	34.18	0.1
			id	38	18.80		MFF	145.07	345	ePKP	38	26.60	-1.0				S	53	43.10	
SKO	138.72	320	ePKP	38	16.00	-0.6	CALN	145.19	335	PKP	38	23.73	-4.3X	PCP	0.81	3	P	53	35.61	-0.1
ZAG	139.40	329	ePKP	38	17.50	-0.2	PGF	145.21	331	iPKPc	38	28.10	0.0				S	53	46.48	
ENN	139.58	342	ePKP	38	18.00	0.2		1.3s	169.70nm					ENR	0.91	303	P	53	37.46	0.0
	1.0s	22.00nm					LBL	145.30	340	PKP	38	29.95	1.8				S	53	48.63	
OHR	139 60	320	ePKP	38	08.70	-9.6X	FRF	145.44	335	ePKP	38	28.10	-0.2	STV	0.98	302	P	53	38.89	0.2
MEM	139.69	341	PKP	38	18.20	0.2		1.0s	90.00nm					PZZ	1.26	308	P	53	43.51	0.0
LJU	139.96	330	e(PKP)	38	18.00	-0.7	LRG	145.65	335	ePKP	38	28.50	-0.1				S	53	59.30	
VBY	139.98	329	e(PKP)	38	19.20	0.4		1.4s	148.10nm						S.D. = 0.2		on 7 of 7 obs.			
CEY	140.23	330	e(PKP)	38	19.00	-0.3		Z 21s	0.08um			4.4Msz		---						
VOY	140.27	331	e(PKP)	38	18 90	-0.5	LMR	145.69	335	ePKP	38	28.60	-0.1	%	SEP 17, 1991		02h 01m 33.82± 2.06s			
WTTA	140.37	334	iPKPc	38	13.50	-6.2X		1.3s	115.55nm						44.345 N ± 8.8km			6.852 E ±14.0km		
	1.4s	64	20nm				CDR	145.71	336	ePKPc	38	29.80	1.0		DEPTH = 5.0km		(geophysicist)			
			i	38	16.30					e	39	11.70		FRANCE						(538)
			i	38	19.80		RJF	145.79	342	ePKP	38	29.10	0.2		ML 1.9 (GEN).					
			i	38	31.20			1.6s	199.00nm											
DOU	140.57	342	PKP	38	22.90	3.2X		Z 21s	0.08um			4.4Msz		PZZ	0.24	48	P	01	39.17	0.4
CDF	141.16	339	PkP	38	14.77	-6.2X	CAF	145.96	341	ePKP	38	29.80	0.6				S	01	41.94	
FEL	141.34	337	PKP	38	16 59	-4 7X		1.0s	27.00nm					STV	0.35	106	P	01	41.31	0.4
MOF	141.68	338	PkP	38	18.84	-3 1X	LFF	146.35	342	ePKP	38	30.70	1.0				S	01	45.42	
VITF	141 78	340	PKP	38	21.73	-0.2		1.3s	79.40nm					ENR	0.42	106	P	01	42.55	0.2
BSF	141 82	338	ePKP	38	17.50	-4.7X	LPO	146.45	342	ePKP	38	30.90	1.0				S	01	47.25	
HAU	141 83	339	ePKP	38	17.50	-4.6X		1.3s	108.30nm					BHB	0.58	30	P	01	45.10	-0.3
	Z 2	s	0.05um			4.2Msz	LSPF	147.77	339	PKP	38	36 25	4.1X				S	01	51.92	
SFI	142 81	330	PKP	38	30.80	7.0X	PERF	147 83	338	PKP	38	35.61	3.4X	RRL	0.58	355	P	01	45.42	0.0
ROI	143 13	321	PkP	38	22.20	-2.4	LESF	147.91	340	PKP	38	36.26	3.9X				S	01	53.13	

ROB 0.73 94 P 01 48.07 -0.4
S 01 57.31
IMI 0.86 120 P 01 50.99 0.0
S 02 01.82
FIN 0.98 97 P 01 52.60 -0.4
S.D. = 0.4 on 8 of 8 obs.

SEP 17, 1991 02h 18m 59.81± 0.29s
24.548 S ±10.0km 177.102 W ± 7.9km
DEPTH = 196.3km (2 depth phases)
4.7mb (10 obs.)
SOUTH OF FIJI ISLANDS (171)

AFI 11.71 26 e(P) 21 27.00 -15.2X
URZ 14.53 198 eP 22 18.20 0.7
DZM 15.32 276 iPc 22 29.90 2.5
MNG 17.19 199 eP 22 47.60 -2.1
LTZ 20.19 203 eP 23 26.60 5.7X
CAN 31.14 242 eP 25 05.60 3.5X
CTAO 34.12 270 iPd 25 28.00 0.0
0.9s 64.88nm 5.3mb
QIS 40.06 267 eP 26 17.00 -0.6
ASPA 44.54 261 iPc 26 53.70 -0.2
0.8s 22.90nm 4.7mb
epP 27 37.20 201km
ePcP 28 34.90
eS 33 14.70
JAY 46.21 292 e(P) 27 04.00 -3.1X
FORR 48.53 250 eP 27 25.00 0.1
0.3s 5.00nm 4.4mb
WARB 50.52 255 eP 27 29.30 -10.9X
COOL 54.44 249 eP 28 08.00 -1.1
KLB 57.17 247 eP 28 28.00 -0.5
BAL 58.25 248 eP 28 35.00 -1.0
MUN 58.40 246 eP 28 37.00 0.0
MRWA 59.14 250 eP 28 41.00 -1.2
MAW 78.05 200 eP 30 43.00 5.3X
SYP 79.92 45 eP 30 49.00 0.6
PAS 80.86 46 eP 30 53.00 -0.1
MWC 80.98 46 eP 30 54.00 0.0
PEC 81.37 47 P 30 56.00 0.1
SBB 81.41 46 eP 30 56.00 -0.1
CMB 81.89 42 P 30 58.50 0.0
ORV 82.20 40 P 31 00.00 0.0
TPC 82.23 47 eP 31 01.00 0.6
CLC 82.25 45 eP 31 01.00 0.6
GLA 82.44 49 eP 31 02.00 0.5
GSC 82.45 46 eP 31 01.00 -0.5
PSI 85.63 275 ePd 31 18.40 0.6
CN2 86.00 322 eP 31 17.70 -1.2
TIA 86.61 312 eP 31 21.20 -0.9
RSO 87.00 12 P 31 21.70 -2.0
PMR 88.75 13 P 31 30.60 -1.1
0.8s 12.41nm 4.9mb
ANMO 89.29 51 P 31 35.80 0.6
1.0s 7.00nm 4.6mb
PV09 89.32 47 P 31 35.20 -0.1
PNT 89.55 33 eP 31 36.00 0.2
0.7s 14.00nm 5.0mb
BALM 89.81 16 P 31 35.30 -1.6
NEW 90.17 35 P 31 38.50 -0.2
0.8s 6.25nm 4.6mb
TIY 90.58 312 eP 31 40.00 -0.9
XAN 91.23 307 P 31 43.50 -0.4
LRM 91.30 39 eP 31 43.40 -0.8
BW06 91.35 43 P 31 43.80 -0.7
1.0s 5.83nm 4.6mb
FBA 92.00 12 P 31 45.00 -1.7
e 32 32.80 192km
CHG 92.38 289 eP 31 51.00 1.6
GOL 92.44 47 P 31 50.80 1.2
0.8s 1.49nm 4.1mb
RSSD 95.48 44 P 32 03.00 -0.5
1.0s 7.86nm 5.0mb
BUL 129.01 212 iPKPd 37 48.20 1.7
MTD 130.30 217 ePKP 37 49.10 0.1
KRI 131.31 215 ePKP 37 55.10 4.1X
KAF 139.25 343 ePKP 37 53.00 -11.4X
NUR 141.04 343 iPKP 38 01.20 -6.4X
e 38 07.00
UPP 143.24 348 iPKP 38 06.60 -4.8X
NAO 143.33 353 PKP 38 08.20 -3.4X
0.7s 5.70nm
HFS 143.65 351 ePKP 38 07.50 -4.7X
0.8s 16.40nm
BSD 148.21 347 iPKPc 38 22.10 2.3
0.7s 20.00nm
EKA 148.93 7 PKPd 38 25.00 4.0X
0.8s 20.80nm
KAS 149.36 311 ePKP 38 27.50 5.3X
HRI 150.06 294 ePKP 38 29.70 6.2X
JVI 150.56 292 ePKP 38 30.60 6.4X
BBTK 150.66 309 iPKP 38 30.00 5.8X
PRNI 151.00 289 iPKPc 38 31.60 6.7X
KRA 151.29 337 ePKPc 38 30.80 6.1X
e 38 38.70
CSS 151.71 299 ePKP 38 32.00 6.2X
KSP 151.78 342 ePKP 38 26.00 0.6
0.7s 57.00nm
i 38 31.80
i 38 40.60
e 39 22.60
SPC 151.90 335 i(PKP) 38 33.30 7.4X
MLR 152.02 324 ePKP 38 30.50 4.4X
CLL 152.17 346 iPKP 38 32.50 6.6X
1.0s 55.00nm
i 38 41.60
e 39 23.00
BRG 152.37 345 iPKP 38 27.80 1.6
i 38 33.50
i 38 43.00
e 39 20.50
WTS 152.43 355 ePKP 38 33.50 7.3X
0.8s 39.00nm
PRU 153.03 343 PKP 38 34.80 7.6X
e 38 46.40
MOX 153.09 348 iPKP 38 35.10 7.8X
1.2s 15.00nm
ENN 153.72 356 ePKP 38 37.00 8.9X
0.8s 12.00nm
e 38 46.00
ZST 153.86 338 e(PKP) 38 40.50 12.1X
i 38 50.20
KHC 154.07 344 PKP 38 29.30 0.6
e 38 36.80
e 38 44.50
i 38 50.60
GRF 154.07 348 ePKP 38 29.70 1.0
e 38 37.50
id 38 50.80
BZS 154.11 329 ePKPc 38 29.50 0.7
DOU 154.46 357 PKP 38 38.70 9.6X
PTJ 156.24 337 ePKP 38 33.00 1.2
WTTA 156.28 345 iPKPc 38 31.80 -0.1
0.7s 12.60nm
i 38 59.90
S.D. = 1.0 on 51 of 80 obs.

• SEP 17, 1991 02h 48m 53.60± 0.44s
4.541 N ± 7.3km 126.688 E ±12.3km
DEPTH = 33.0km (normal)
4.8mb (4 obs.)
TALAUD ISLANDS, INDONESIA (263)

MTN 17.83 166 eP 53 00.20 -0.7
KNA 20.26 174 eP 53 40.20 11.0X
QIZ 21.86 313 eP 53 47.30 1.9
PSI 27.77 267 ePc 54 42.50 0.8
QIS 27.98 153 eP 54 43.70 0.2
ASPA 28.91 166 eP 54 51.40 -0.5
1.1s 7.30nm 4.3mb
WARB 30.54 180 eP 55 08.00 1.6
CHG 30.58 300 eP 55 07.90 1.0
TIA 32.72 346 eP 55 27.50 2.1
XAN 33.68 333 eP 55 31.00 -2.8
CD2 33.97 323 P 55 36.80 0.4
MRWA 35.10 196 eP 55 46.00 0.0
FORR 35.22 178 eP 55 46.50 -0.4
0.4s 7.00nm 4.9mb
TIY 35.49 340 eP 55 51.50 2.1
Z 15s 0.60um 4.5MszX
BJI 36.59 346 eP 55 58.50 0.0
KLB 36.93 193 eP 56 01.00 -0.4
MUN 37.66 195 eP 56 07.50 -0.1
LZH 37.79 329 P 56 10.00 1.2
Z 25s 0.33um 4.0MszX
NWAO 38.33 193 eP 56 13.00 -0.1
HHC 38.62 342 P 56 18.40 2.7
SHL 39.37 306 iP 56 21.50 -0.7
BRS 40.53 143 iP 56 32.40 0.9
CAN 44.85 154 eP 57 08.40 1.7
GUN 45.22 305 P 57 10.22 0.1
PKI 45.47 305 P 57 11.70 -0.4
KKN 45.66 305 P 57 13.06 -0.4
DMN 45.73 305 P 57 12.98 -1.1
GKN 46.27 305 P 57 17.34 -0.9
DZM 47.04 126 iPc 57 24.20 0.0
KOD 49.10 280 eP 57 40.20 -0.5
YAK 57.39 2 eP 58 40.10 -0.8
FBA 84.01 25 P 01 20.40 -1.4
KAF 90.86 332 eP 01 53.30 -1.6
HFS 97.29 332 eP 02 22.60 -1.8
0.4s 1.00nm 4.7mb
NAO 98.31 334 P 02 27.00 -2.0
0.8s 9.00nm 5.4mb
S.D. = 1.3 on 34 of 35 obs.

SEP 17, 1991 03h 02m 01.38± 0.35s
44.541 N ± 3.2km 22.420 E ± 3.5km
DEPTH = 12.9 ± 2.7 km
ROMANIA (358)
MG 3.8 (BEO).

SSR 0.58 304 iPc 02 11.00 -1.9
BZS 1.22 332 ePc 02 22.00 -1.7
DRA 1.32 83 iPc 02 28.00 2.6
DEV 1.39 14 iPd 02 29.50 3.2X
BEO 1.43 282 iPg 02 27.70 0.7
iSg 02 47.00
TIM 1.47 325 iPd 02 32.00 4.5X
COZ 1.57 60 iPd 02 31.40 2.2
TNR 1.72 49 ePc 02 24.00 -7.2X
MTUR 2.00 69 iPd 02 37.50 2.2
VTS 2.03 163 iP 02 36.00 0.2
PVL 2.49 121 iP 02 42.00 -0.2
BUC1 2.59 93 eP 02 58.00 14.3X
SKO 2.67 196 iPn 02 46.00 1.2
iPg 02 52.00
i 02 56.00
iSn 03 18.00
iSg 03 26.00
MLR 2.67 68 iPd 02 47.00 2.0
KKB 2.72 169 iPc 02 46.00 0.5
PLD 2.95 145 iPc 02 48.00 -0.7
ISR 2.99 77 eP 02 53.00 3.6X
MMB 3.10 162 iPc 02 56.00 5.1X
BMR 3.22 13 ePd 03 04.00 11.4X
RZN 3.31 149 iPc 02 54.00 -0.1
VRI 3.32 65 eP 02 54.00 -0.1
DIM 3.37 137 eP 02 56.00 1.3
KNT 3.40 174 ePc 02 54.94 -0.2
SRS 3.53 165 ePc 02 57.08 0.1
GRG 3.58 180 ePc 02 58.20 0.4
KDZ 3.63 142 iP 02 58.00 -0.4
OHR 3.63 200 iPgd 02 59.70 1.2
iSg 03 40.90
BUD 3.78 322 ePn 03 01.00 0.5
SOH 3.78 169 ePd 03 00.45 -0.2
PSZ 3.81 333 iPnd 03 00.50 -0.5
FNA 3.83 192 ePd 03 02.12 0.7
THE 3.93 174 iPd 03 02.74 0.1
TLB 4.01 87 iPc 03 03.50 -0.3
RDO 4.09 145 ePn 03 04.80 -0.1
CFR 4.13 79 eP 03 06.00 0.6
KZN 4.26 187 ePn 03 12.80 5.3X
SRO 4.34 320 ePn 03 07.90 -0.6
i 03 15.30
i 03 40.20
i 03 43.20
i 03 59.80
OUR 4.36 164 ePd 03 07.80 -1.0
LIT 4.44 179 ePc 03 09.36 -0.6
ALN 4.52 142 ePc 03 10.84 -0.1
HVAR 4.53 255 iPn 03 12.60 1.4
iSn 04 04.10
ZAG 4.73 288 e(Pn) 03 15.20 1.2
iSn 04 04.00
iSg 04 27.50
DMK 4.76 123 iP 03 13.30 -1.1
PTJ 4.76 289 iPnc 03 14.40 -0.2
iSn 03 51.70
SPC 4.88 343 iPn 03 17.10 0.7
i 03 31.70
i 04 23.80
VBY 5.17 283 ePn 03 29.10 8.9X
eSn 04 16.90
ZST 5.19 317 iPn 03 19.40 -1.1
e 03 26.60
i 03 45.20
i 04 03.30
i 04 17.00

17d 03h

MFT	5.19	135	eP	03 20.50	-0.1
IGT	5.24	198	ePc	03 23.96	2.7
KGT	5.45	137	iP	03 23.50	-0.7
AGG	5.51	181	iPc	03 24.06	-1.1
EZN	5.53	147	iP	03 24.60	-0.8
CTT	5.57	125	iP	03 24.50	-1.4
VKA	5.63	314	i(Pn)	03 27.40	0.7
			i	03 35.50	
			i	03 57.00	
			i	04 30.40	
RIY	5.76	281	e(Pn)	03 30.40	1.9
			iSn	04 31.80	
LJU	5.76	288	e(Pn)	03 32.00	3.4X
			eSn	04 30.50	
KRA	5.77	344	eP	03 28.80	0.1
CEY	5.78	285	eP	03 51.00	22.1X
			eSn	04 30.60	
EDC	5.81	134	eP	03 33.00	3.7X
ISK	5.99	123	eP	03 30.00	-1.8
PRK	6.02	150	ePn	03 31.60	-0.6
VOY	6.20	287	ePn	03 37.40	2.6
			eSn	04 40.50	
HRT	6.51	122	eP	03 39.00	-0.2
SGO	6.59	235	P	03 48.70	8.5X
IZI	6.70	126	eP	03 40.00	-1.9
MGR	6.72	232	P	03 51.50	9.3X
KBA	6.83	295	iPnc	03 49.30	5.4X
			i	04 57.00	
FVI	7.07	290	P	03 56.90	9.9X
			eSn	05 12.70	
KSP	7.54	329	eP	03 53.00	-0.5
			i	04 01.40	
CRE	7.59	267	P	04 04.40	9.9X
KHC	7.60	310	Pn	03 53.00	-1.5
			i	03 58.40	
			i	04 31.00	
			eSn	04 57.50	
			eSg	05 25.50	
PRU	7.64	318	Pn	03 52.80	-2.2
			e	04 00.00	
			e	04 33.00	
			eSn	05 16.50	
WTTA	8.00	294	iPnc	03 59.70	-0.5
	0.7s		10.10nm	5.2mb	X
			i	05 05.60	
			i	05 26.20	
SOI	8.04	219	P	04 08.30	7.7X
GRF	9.21	308	e(P)	04 16.00	-0.8
			e(Sg)	06 22.50	
APO	16.81	345	eP	05 57.60	-0.1
	0.7s		1.20nm	3.1mb	
	S.D. = 1.2		on 58 of 76 obs.		

SEP 17, 1991 03h 06m 23.15± 0.83s
31.749 N ± 9.6km 131.672 E ± 6.7km
DEPTH = 57.8 ± 7.8 km
4.3mb (4 obs.)
KYUSHU, JAPAN (235)

KAGJ	0.87	230	iPd	06 39.50	-0.1
			eS	06 52.50	
KUMJ	1.06	318	iPd	06 41.30	-0.8
			S	06 54.40	
SHNJ	2.42	349	P	07 00.90	0.0
TKSJ	2.99	41	P	07 09.50	0.3
YONJ	3.74	23	P	07 19.70	0.0
			S	08 02.40	
WKYJ	4.11	52	P	07 24.10	-0.9
TSRJ	5.21	42	P	07 40.90	0.5
IIDJ	6.40	53	eP	08 00.90	3.9X
MAT	7.22	47	(P)	08 08.00	-0.5
CHJJ	7.45	53	eP	08 12.30	0.7
SNY	11.96	329	eP	09 14.40	1.3
BJI	15.02	308	eP	10 00.00	6.7X
Z	16s		0.29um		
XAN	19.24	283	eP	10 42.00	-3.6X
CD2	23.84	275	P	11 32.30	0.4
GTA	26.91	295	eP	12 01.00	0.2
GUN	39.69	277	P	13 53.06	1.2
	0.4s		47.00nm	5.7mb	X
PFI	40.19	276	P	13 56.16	0.2
KFN	40.23	277	P	13 56.44	0.3
DMN	40.43	276	P	13 56.82	-1.0
GFN	40.71	277	P	13 59.00	-1.0
	0.4s		7.00nm	4.8mb	
GBA	52.66	263	Pc	15 34.90	1.0
	0.6s		3.40nm	4.6mb	

FBA	57.77	30	(P)	16 11.50	1.3
HFS	75.33	333	eP	18 00.00	-1.6
	0.5s		1.20nm	4.1mb	
NAO	75.97	334	P	18 03.80	-1.5
	0.5s		0.60nm	3.8mb	
	S.D. = 1.0		on 21 of 24 obs.		

* SEP 17, 1991 05h 09m 51.78± 2.71s
45.295 N ±12.9km 125.647 W ±18.5km
DEPTH = 10.0km (geophysicist)
OFF COAST OF OREGON (30)

KMOR	1.56	77	P	10 18.85	-0.8
NLO	1.73	62	Pc	10 22.44	0.3
BMW	2.06	54	P	10 26.88	0.0
RVW	2.21	66	P	10 28.97	0.0
PGO	2.26	85	P	10 30.02	0.3
LVP	2.40	70	P	10 31.83	0.0
CPW	2.42	45	P	10 31.92	-0.2
CZM	2.47	61	Pc	10 32.65	-0.1
FL2	2.48	67	Pc	10 33.00	0.1
MTMW	2.52	72	P	10 33.69	0.2
SHW	2.55	68	P	10 34.51	0.5
STD	2.58	67	P	10 34.23	-0.1
SMW	2.58	37	P	10 34.19	-0.1
REMW	2.59	68	P	10 35.15	0.5
TDL	2.62	65	P	10 34.74	-0.3
OOW	2.64	22	P	10 35.22	0.0
CDFW	2.65	71	P	10 35.58	0.2
KOSW	2.68	63	P	10 35.18	-0.6
TDH	2.72	89	P	10 35.99	-0.5
VLL	2.80	85	P	10 37.10	-0.5
APM	2.82	80	P	10 38.25	0.4
OSD	2.86	27	P	10 38.49	0.0
VBEM	2.88	93	P	10 38.73	0.0
GULW	2.91	76	P	10 39.56	0.5
ASR	2.97	72	P	10 40.30	0.4
GMW	3.00	40	P	10 39.84	-0.4
LON	3.04	60	P	10 40.19	-0.7
STW	3.16	25	P	10 42.95	0.4
WPW	3.18	62	P	10 43.47	0.5
RMW	3.43	49	P	10 46.89	0.5
NAC	3.65	65	P	10 50.28	0.7
JCW	3.86	40	P	10 52.63	0.1
EBG	3.88	64	P	10 53.40	0.5
MCW	3.90	29	P	10 53.08	0.1
MXC	3.95	69	P	10 54.00	0.3
RPW	4.24	40	P	10 57.65	-0.3
ETW	4.34	56	P	10 59.02	-0.4
WAH2	4.48	69	P	11 01.18	-0.1
ET3	4.85	72	P	11 06.23	-0.3
DPW	5.74	61	ePn	11 18.21	-1.0
			ePg	11 25.06	
	S.D. = 0.4		on 40 of 40 obs.		

? SEP 17, 1991 06h 18m 55.15± 0.75s
21.254 S ±16.6km 178.363 W ±19.2km
DEPTH = 500.0km (geophysicist)
4.3mb (4 obs.)
FIJI ISLANDS REGION (181)

AFI	9.63	42	eP	21 11.00	1.0
DZM	14.15	264	iPd	21 59.00	1.8
URZ	17.39	192	eP	22 30.40	1.1
NOZ	17.58	189	eP	22 36.30	5.2X
MNG	20 00	194	eP	22 54.20	-0.3
LTZ	22.86	198	eP	23 20.30	-0.5
ASPA	44.02	258	iPc	26 18.20	-1.1
	0.3s		7.60nm	4.7mb	
FORR	48.65	247	eP	26 53.10	-1.5
	0.2s		2.00nm	4.2mb	
PNT	87.47	34	eP	30 50.00	0.3
	0.6s		5.00nm	4.5mb	
ANMO	88.14	51	P	30 52.00	-1.4
FBA	89.05	13	P	30 54.70	-2.0
	1.0s		3.40nm	4.1mb	
NAO	139.94	353	PKP	37 18.00	-9.0X
	0.6s		0.70nm		
HFS	140.23	351	ePKP	37 18.10	-9.4X
	0.4s		1.70nm		
KSP	148.30	342	ePKP	37 43.80	2.5
MLR	148.66	326	ePKP	37 45.00	2.8X
CLL	148.71	346	iPKP	37 45.10	3.2X
			e	37 50.00	
BRG	148.90	345	i(PKP)	37 45.80	3.6X
	1.0s		10.00nm		
PRU	149 56	343	ePKP	37 47.20	4.0X
			e	37 54.70	
	S.D. = 1.6		on 11 of 18 obs.		

SEP 17, 1991 06h 32m 03.90± 0.48s
45.231 N ± 3.6km 7.441 E ± 4.9km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.6 (LDG), 2.6 (GEN).

RSP	0.15	239	Pc	32 08.73	1.2
			S	32 11.14	
LSD	0.30	318	Pc	32 11.21	0.9
			S	32 14.73	
BHB	0.41	198	Pc	32 12.92	0.6
			S	32 18.21	
ORX	0.55	43	P	32 15.34	0.1
			S	32 22.01	
LPG	0.55	299	Pg	32 15.30	-0.1
			Sg	32 22.30	
RRL	0.56	236	Pc	32 15.69	0.3
			S	32 22.62	
BNI	0.57	252	P	32 25.10	9.5X
			eSg	32 32.30	
LPL	0.58	300	Pg	32 15.60	-0.1
			Sg	32 22.60	
RSL	0.73	309	Pg	32 18.79	0.4
			Sg	32 27.04	
DOI	0.74	191	Pc	32 27.10	8.6X
			eSg	32 35.70	
PZZ	0.77	199	Pc	32 18.24	-0.7
			S	32 27.24	
ROB	0.99	162	P	32 23.26	0.6
			S	32 35.34	
STV	0.99	185	P	32 21.59	-1.2
			S	32 33.18	
CKI	1.00	143	P	32 33.50	10.6X
			eSg	32 47.10	
ENR	1 00	181	P	32 21.95	-1 0
			S	32 33.39	
PCP	1.04	131	Pg	32 24.60	0.9
			Sg	32 38.64	
FIN	1.16	152	Pg	32 26.75	1.2
			Sg	32 40.95	
TOUF	1.23	187	Pg	32 26.40	-0.4
AUTN	1.24	180	Pg	32 26.03	-1.0
AURF	1.35	183	Pg	32 27.74	-1.0
			Sg	32 45.62	
MVIF	1.35	189	Pg	32 28.24	-0.6
			Sg	32 44.04	
IMI	1.36	166	Pg	32 28.90	0.0
			Sg	32 46.25	
SBF	1.37	180	Pg	32 28.30	-0.8
			Sg	32 45.60	
CALN	1.53	195	Pg	32 32.23	0.8
FRF	1.76	199	Pg	32 36.30	1.6
			Sg	32 57.50	
LRG	1.94	204	Pg	32 39.80	2.6X
LMR	2.01	200	Pg	32 40.30	2.0
			Sg	33 05.60	
SMF	2.88	301	Pn	32 50.00	-0.7
			Sg	33 34.60	
PGF	2.91	157	Pn	32 50.00	-1.2
LOR	3.21	311	Pn	32 54.60	-0.8
BGF	3.47	294	Pn	32 58.00	-1.1
	S.D. = 1.0		on 27 of 31 obs.		

* SEP 17, 1991 08h 53m 59.50± 0.83s
42.503 N ± 6.8km 16.176 E ±10.6km
DEPTH = 10.0km (geophysicist)
ADRIATIC SEA (382)

HVAR	0.70	16	iPg	54 12.70	-0.7
			iSg	54 29.70	
DUI	1.53	237	P	54 25.50	-1.5
			eSg	54 40.10	
BRT	1.80	154	P	54 32.30	1.5
			eSg	54 54.90	
SGO	2.05	199	P	54 33.30	-1.1
			eSg	54 54.80	
MGR	2.41	191	P	54 39.30	-0.3
MNS	2.59	269	P	54 43.40	1.2
ASS	2.65	284	P	54 46.50	3.4X
VBY	3.07	348	eP	54 53.80	4.9X
			e(Sn)	55 43.00	
CRE	3.29	291	P	54 53.20	0.9
PTJ	3.40	357	eP	54 53.50	-0.2
CEY	3.47	339	eP	55 06.50	11.8X

		e(Sn)	55 43.60		
JU	3.73	342 e(Pn)	55 02.00	3.6X	
		e(Sn)	55 54.00		
VOY	3.89	336 ePn	54 53.00	-7.7X	
		e(Sg)	56 04.80		

S.D. = 1.3 on 8 of 13 obs.

& SEP 17, 1991 08h 57m 46.38s
61.596 N 150.514 W
DEPTH = 44.4km
SOUTHERN ALASKA (2)
<AEIC>. ML 2.6 (AEIC).

SUA	0.17	220 iPd	57 54.48	0.4	
		eS	58 01.53		
PWA	0.31	79 ePd	57 55.06	0.0	
		eS	58 02.81		
PMS	0.58	127 iPd	57 57.70	-0.7	
		eS	58 07.33		
SKT	0.62	309 iPc	57 58.12	-0.8	
		eS	58 08.27		
PLRM	0.66	90 iPd	57 58.36	-1.1	
		eS	58 08.96		
CGLM	0.77	249 eP	58 00.48	-0.6	
		eS	58 11.76		
GHO	0.78	76 ePd	58 00.57	-0.6	
		eS	58 12.77		
NCG	0.81	257 iPc	58 01.05	-0.6	
		eS	58 12.81		
CUT	0.82	8 iPc	58 00.84	-0.8	
		eS	58 13.20		
SPU	0.85	241 iPc	58 01.31	-0.8	
		eS	58 13.41		
BGL	0.96	251 iPc	58 02.97	-0.8	
		eS	58 16.40		
CKL	0.96	246 iPc	58 02.90	-0.9	
		eS	58 16.46		
KNK	1.00	100 iPc	58 03.66	-0.6	
		eS	58 17.93		
SML	1.06	77 eP	58 04.14	-0.9	
		eS	58 18.66		
SLKM	1.10	172 ePc	58 04.29	-1.4	
		eS	58 19.12		
HUR	1.45	16 ePc	58 10.05	-0.4	
		eS	58 29.27		
DFR	1.46	227 eP	58 10.05	-0.7	
		eS	58 29.17		
REF	1.54	225 eP	58 11.38	-0.6	
		eS	58 30.93		
RS2	1.58	225 ePc	58 11.93	-0.6	
RSO	1.58	225 eP	58 11.91	-0.6	
		eS	58 32.17		
RS1	1.58	225 ePc	58 12.02	-0.5	
		eS	58 32.19		
SEW	1.59	160 eP	58 12.32	-0.1	
		eS	58 33.00		
GLI	1.80	112 iPc	58 13.09	-2.5	
KNIM	1.84	132 ePc	58 12.95	-3.2	
TRF	1.87	3 iPc	58 16.07	-0.5	
KTH	1.97	355 ePc	58 17.57	-0.5	
VZW	1.98	104 eP	58 16.32	-1.8	
LTI	2.03	139 eP	58 15.66	-3.1	
VLZ	2.07	101 eP	58 16.84	-2.4	
CNPM	2.11	190 eP	58 17.53	-2.3	
TOA	2.12	74 ePc	58 19.41	-0.7	
FID	2.13	112 eP	58 17.28	-2.9	
KLU	2.20	91 ePc	58 18.96	-2.3	
TZL	2.46	77 eP	58 23.48	-1.4	

34 obs. associated

% SEP 17, 1991 09h 20m 02.90± 0.78s
40.176 N ± 8.4km 3.567 W ± 6.8km
DEPTH = 10.0km (geophysicist)
SPAIN (377)
mbLg 2.8 (MDD).

TOL	0.47	232 iPg	20 11.00	-1.5	
		iSg	20 22.00		
GUD	0.65	316 ePg	20 15.44	-0.5	
		eSg	20 25.40		
ETOR	1.32	60 ePn	20 27.09	-0.3	
		eSn	20 45.30		
EVIA	1.74	151 ePn	20 32.97	-0.5	
		eSn	20 55.10		
EPLA	1.93	267 ePn	20 37.69	1.6	
		eSn	21 03.40		
EBAN	2.02	185 ePn	20 38.42	1.1	
		eSn	21 03.00		
ECHE	2.08	105 ePn	20 38.50	0.1	

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

? SEP 17, 1991 09h 54m 27.89± 1.68s
2.072 N ±22.7km 127.516 E ±19.0km
DEPTH = 33.0km (normal)
4.5mb (5 obs.)
NORTHERN MOLUCCA SEA (266)

MNI	2.75	257 eP	55 11.30	0.7	
		eS	55 40.00		
KNA	17.75	176 eP	58 34.50	0.2	
WR2	22.89	163 iPc	59 30.00	0.0	
	0.5s	33.00nm		5.1mb	
OIS	25.42	153 eP	59 56.00	1.7	
ASPA	26.33	167 eP	00 02.50	-0.3	
	1.1s	16.10nm		4.5mb	
CHTO	32.56	303 P	00 58.20	-0.3	
FORR	32.74	179 eP	00 57.40	-2.4	
	0.3s	3.00nm		4.7mb	
STK	36.31	160 eP	01 30.90	0.4	
	1.1s	2.80nm		4.1mb	
BJI	39.17	346 eP	02 00.00	5.6X	
	0.9s	6.00nm		4.4mb	

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

& SEP 17, 1991 10h 34m 53.61s
38.199 N 118.750 W
DEPTH = 4.6km
CALIFORNIA-NEVADA BORDER REGION (40)
<GM-P>. MD 2.6 (GM).

BONR	0.43	124 iP	35 02.19	-0.1	
KVN	0.99	31 eP	35 11.57	-1.5	
		eS	35 24.83		
CMB	1.30	263 eP	35 17.31	-0.9	
		eS	35 34.43		
ORV	2.54	303 eP	35 35.46	-0.7	
		eS	36 11.94		
PHAM	2.70	210 eP	35 44.49	5.9	
		eS	36 24.43		
MSU	5.18	84 eP	36 29.24	15.3	
		eS	37 37.91		

6 obs. associated

• SEP 17, 1991 11h 07m 25.30± 1.93s
12.695 S ± 9.3km 166.536 E ±10.4km
DEPTH = 138.7 ± 17.3 km
5.0mb (22 obs.)
SANTA CRUZ ISLANDS (184)

BKM	5.21	162 iP	08 45.00	2.7	
HNR	7.23	296 P	09 02.00	-7.8X	
		S	10 19.00		
DZM	9.32	181 iP	09 35.90	-1.9	
		iS	11 33.10		
VUN	12.66	116 ePc	10 29.20	7.7X	
SVA	12.69	117 ePc	10 30.00	8.0X	
BRS	19.49	219 iP	11 53.50	9.6X	
LAT	20.16	285 eP	11 51.10	0.2	
CTAO	20.79	247 iPc	12 01.00	3.9X	
	0.8s	11.29nm		4.3mb	
RMO	21.62	228 iPc	12 17.00	11.7X	
COO	22.36	215 e(P)	12 10.00	-2.6	
MNG	28.91	166 P	13 12.30	-0.9	
PGZ	29.10	165 P	13 13.50	-1.4	
STK	29.83	226 eP	13 22.20	0.8	
	0.7s	5.20nm		4.4mb	
LTZ	30.39	172 P	13 26.30	0.0	
EWZ	30.93	174 eP	13 31.80	0.9	
WR2	31.67	253 iPd	13 36.40	-1.3	
	0.6s	5.20nm		4.5mb	
ASPA	32.79	246 iPc	13 46.50	-1.0	
	0.8s	16.10nm		4.8mb	
GUA	33.75	320 eP	13 52.80	-2.9	
TAU	34.39	205 eP	14 01.00	0.0	
KNA	36.71	261 eP	14 21.00	0.2	
MBL	45.33	253 eP	15 42.50	11.2X	
MRWA	49.59	242 eP	16 05.00	0.5	
MUN	49.87	239 eP	16 07.00	0.5	
MAT	55.78	332 (P)	16 47.00	-3.1X	
SSE	61.57	316 Pc	17 29.20	-1.0	
	1.0s	45.00nm		5.4mb	
NJ2	63.73	316 Pc	17 43.80	-0.6	
	1.0s	100.00nm		5.7mb	
TIA	67.35	318 Pc	18 08.00	0.4	
CN2	67.54	329 iPc	18 07.60	-1.0	
	0.8s	20.00nm		5.0mb	
PSI	68.83	278 ePc	18 17.50	0.4	
GYA	69.98	304 P	18 24.60	0.5	
	0.8s	20.00nm		5.0mb	
BJI	70.24	321 eP	18 24.50	-0.7	
	1.0s	7.00nm		4.4mb	
TIY	71.29	317 Pc	18 31.90	0.2	
	1.0s	30.00nm		5.1mb	
XAN	71.80	312 iPc	18 34.50	-0.3	
	0.8s	30.00nm		5.1mb	
KMI	72.64	302 Pc	18 41.00	0.9	
	1.0s	100.00nm		5.5mb	
		pP	18 54.50	47kmX	
HHC	73.58	320 eP	18 44.50	-0.6	
CHG	73.60	294 ePc	18 46.80	1.3	
	1.0s	18.75nm		4.8mb	
CD2	74.21	307 P	18 49.60	0.7	
	1.0s	40.00nm		5.1mb	
BTO	74.43	319 eP	18 50.40	0.4	
LZH	76.43	312 Pc	19 03.00	1.5	
	1.0s	78.00nm		5.4mb	
		pP	19 16.00	44kmX	
SPA	77.39	180 iPc	19 07.60	1.3	
	0.7s	10.16nm		4.7mb	
GTA	80.75	314 eP	19 26.20	1.4	
	1.0s	20.00nm		4.8mb	
LSA	83.88	302 P	19 41.20	-0.4	
FBA	84.64	18 P	19 41.00	-3.0	
	0.9s	4.00nm		4.3mb	
GUN	87.79	299 P	20 01.68	1.0	
	0.7s	46.00nm		5.6mb	
PKI	88.10	299 PKP	20 02.86	0.7	
KKN	88.27	299 PKP	20 03.72	0.9	
	0.7s	112.00nm		6.0mb	
DMN	88.37	299 PKP	20 04.40	1.0	
	0.7s	160.00nm		6.2mb	X
GKN	88.88	299 PKP	20 05.96	0.3	
	0.7s	111.00nm		6.0mb	
WMO	90.80	315 eP	20 15.00	0.9	
HYB	91.84	287 eP	20 20.00	0.7	
GBA	92.07	283 Pc	20 21.80	1.5	
	0.9s	9.10nm		5.0mb	
GOL	96.54	51 P	20 42.80	2.1	
NUR	124.73	338 ePKP	26 10.00	0.4	
NAO	128.77	345 PKP	26 18.40	1.0	
	0.7s	3.40nm			
LPL	143.06	336 ePKP	26 43.10	-1.6	
	0.7s	3.85nm			
LPG	143.06	336 ePKP	26 43.20	-1.6	
	0.5s	2.20nm			
MAF	143.93	341 ePKP	26 44.40	-1.5	
	0.7s	3.30nm			
TCF	143.99	341 ePKP	26 44.40	-1.6	
	0.6s	2.70nm			
SBF	144.12	334 iPKPc	26 44.70	-1.6	
	0.7s	18.75nm			
LSF	144.23	342 ePKP	26 45.10	-1.3	
PGF	144.44	331 iPKPc	26 46.10	-0.9	
	0.7s	9.90nm			
FRF	144.70	334 iPKPc	26 46.70	-0.5	
	0.7s	17.65nm			
LRG	144.90	335 iPKPc	26 47.70	0.2	
	0.8s	21.50nm			
	Z 21s	0.08um		4.4Msz	
LMR	144.94	334 iPKPc	26 47.80	0.2	
	0.7s	15.45nm			
RJF	145.08	341 ePKP	26 48.20	0.4	
	1.1s	14.65nm			
	Z 21s	0.05um		4.3Msz	
CAF	145.25	341 ePKP	26 49.10	0.9	
	0.8s	8.05nm			
LFF	145.65	342 ePKP	26 50.10	1.3	
	1.0s	14.00nm			
LPO	145.75	341 ePKP	26 50.50	1.5	

S.D. = 1.3 on 60 of 68 obs.

? SEP 17, 1991 12h 51m 00.98± 1.82s
30.975 S ±16.1km 177.151 W ±24.9km
DEPTH = 33.0km (normal)
5.1mb (6 obs.)
KERMADEC ISLANDS, NEW ZEALAND (178)

URZ	8.67	211 eP	53 07.30	0.3	
		S	54 48.30		
KHZ	13.63	211 eP	54 12.20	-2.0	
		eS	56 38.60		

17d 12h

DZM 17.13 297 iPc 54 58.90 -0.7
BRS 26.46 270 iPc 56 38.20 1.3
1.0s 6.40nm 4.2mb
i 56 47.00
COO 26.56 263 eP 56 40.00 2.2
CNB 28.29 252 iPc 56 56.00 2.5
0.9s 18.00nm 4.8mb
CAN 28.59 252 eP 56 57.90 1.7
BWA 29.10 254 eP 57 00.10 -0.7
RMO 30.16 270 iPd 57 20.70 10.4X
0.8s 45.00nm
OLP 34.01 268 eP 57 43.50 -0.5
CTAO 34.61 279 iPc 57 48.50 -0.7
0.7s 52 67nm 5.6mb
STK 35.07 258 iPc 57 54.10 1.1
0.7s 18 40nm 5.1mb
OIS 40.09 274 eP 58 33.00 -2.2
ASPA 43.81 267 iPc 59 04.70 -1.0
0.4s 12.80nm 5.1mb
WR2 44.83 272 iPc 59 11.80 -2.1
0.4s 54.50nm 5.8mb
SPA 59.19 180 iPc 01 15.10 14.1X
0.9s 22.73nm
KAF 145.33 341 iPKP 10 35.30 -0.9
NUR 147.10 340 iPKP 10 40.90 1.8
0.7s 13.30nm
e 10 47.00
UPP 149.46 345 iPKP 10 56.50 13.6X
JVI 152.31 281 ePKP 11 01.70 13.5X
MMR 152.36 283 ePKP 11 02.40 14.1X
ADI 152.53 283 ePKP 11 02.00 13.6X
S.D. = 1.7 on 16 of 22 obs.

SEP 17, 1991 14h 19m 46.14± 0.65s
43 407 N ± 4.0km 5.430 E ± 4.9km
DEPTH = 5.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
ML 2 8 (LDG), 2.6 (STR).

GELF 0.02 185 Pg 19 47.20 -0.1
BERF 0.21 116 Pg 19 51.29 0.8
TREF 0.22 351 Pg 19 50.66 0.0
PUYF 0.23 57 Pg 19 50.66 -0.2
CDR 0.36 42 ePg 19 53.00 -0.4
e(Sg) 19 57.50
i 19 58.30
PRAF 0.44 335 Pg 19 55.28 0.3
VILF 0.49 25 Pg 19 55.84 -0.2
TAVF 0.50 65 Pg 19 56.22 0.0
CALN 1.12 71 Pg 20 08.35 0.7
Sg 20 25.55
MVIF 1.34 68 Pn 20 11.79 0.3
Sg 20 31.40
TOUF 1.45 65 Pn 20 13.40 0.2
AURF 1.46 70 Pn 20 13.31 0.1
SAOF 1.65 69 Pn 20 15.67 -0.2
PGF 2.76 107 Pn 20 30.62 -1.3
S.D. = 0.6 on 14 of 14 obs.

SEP 17, 1991 14h 37m 57.24± 1.18s
6.631 S ± 6.0km 130.661 E ± 9.2km
DEPTH = 88.7 ± 12.8 km
5.2mb (13 obs.)
BANDA SEA (280)

AAI 3.82 320 iPc 38 55.90 1.0
MTN 6.19 176 eP 39 26.80 -1.1
KUPT 7.81 243 eP 39 53.00 2.9
eS 41 14.50
KNA 9.25 191 eP 40 06.90 -2.9
iS 41 45.00
JAY 10.81 68 e(P) 40 32.00 1.0
WR2 13.72 165 iPc 41 04.80 -4.4X
0.5s 78.30nm 5.4mb
ipP 41 20.60
eS 43 29.60
OIS 16.34 149 iPd 41 40.50 -2.1
0.5s 29.00nm 4.7mb
i 44 30.00
e 51 30.00
ASPA 17.22 170 iPd 41 51.40 -2.3
0.5s 170.30nm 5.5mb
eS 44 53.20
MBL 17.85 215 eP 42 00.30 -1.0
WARB 19.82 191 eP 42 24.00 0.6
CTAO 20.20 133 iPc 42 30.00 2.6
0.9s 51.90nm 4.9mb
e(S) 45 28.00
NANU 21.54 221 eP 42 41.70 0.9
eS 46 33.00
OLP 23.68 148 e(P) 43 06.00 4.2X
e 47 29.00
i 50 46.90
i 56 18.00
FORR 24.21 185 eP 43 08.50 1.7
COOL 25.73 199 eP 43 22.00 0.9
RMQ 26.21 141 eP 43 46.00 20.4X
MRWA 26.39 210 eP 43 28.10 0.9
e 43 54.00
STK 27.12 159 eP 43 38.70 4.9X
0.8s 2.40nm 3.8mb X
eS 48 48.80
BAL 27.21 207 eP 43 35.50 0.8
KLB 27.61 204 eP 43 39.50 1.2
MUN 28.60 206 eP 43 58.00 10.8X
NWAO 28.99 204 eP 43 52.00 1.3
BRS 29.45 137 eP 44 05.00 10.1X
PSI 33.01 285 iPd 44 25.50 -0.7
BDT 39.26 308 eP 45 19.00 0.0
0.6s 25.00nm 5.3mb
CHG 40.21 310 ePc 45 27.10 0.2
0.9s 16.81nm 4.9mb
MAT 43.52 9 (P) 45 37.00 -16.7X
XAN 45.39 334 eP 46 07.50 -1.2
BJI 48.32 345 eP 46 32.00 0.4
LZH 49.39 331 eP 46 40.50 0.4
1.5s 23.00nm 5.0mb
SHL 49.44 312 iP 46 39.70 -1.0
CN2 50.42 355 eP 46 48.00 0.5
sP 47 04.90
LSA 52.39 316 Pd 47 02.20 -1.1
GTA 53.97 331 eP 47 15.20 0.9
1.2s 10.00nm 4.7mb
GUN 55.21 311 P 47 23.52 -0.3
0.6s 97.00nm 6.0mb
PKI 55.39 310 P 47 24.64 -0.5
0.6s 22.00nm 5.4mb
KKN 55.60 310 P 47 26.04 -0.5
0.7s 66.00nm 5.8mb
DMN 55.64 310 P 47 26.72 -0.1
GKN 56.20 310 P 47 30.12 -0.6
0.6s 54.00nm 5.8mb
GBA 56.53 291 Pd 47 32.20 -0.9
0.5s 2.00nm 4.4mb
HYB 56.74 296 eP 47 33.20 -1.4
NDI 62.28 307 eP 48 11.00 -1.5
WMQ 63.45 327 P 48 21.00 1.0
ZOBO 150.62 141 PKP 57 45.30 8.9X
i 02 41.00
CCH 150.93 145 ePKP 57 47.00 10.5X
S.D. = 1.4 on 36 of 45 obs.

SEP 17, 1991 14h 45m 15.49± 0.30s
25.195 S ± 3.2km 178.354 E ± 3.6km
DEPTH = 558.5 ± 3.9 km
5.3mb (31 obs)
SOUTH OF FIJI ISLANDS (171)
MD 5.5 (SVA).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 21S, 41C
Centroid Location:
Origin Time 14:45:22.8 0.8
Lat 24.84S 0.07 Lon 178.40E 0.06
Dep 592.4 3.0 Half-duration 2.0
Moment Tensor; Scale 10**17 Nm
Mrr=-0.77 0.05 Mtt= 1.33 0.07
Mff=-0.56 0.08 Mrt= 0.27 0.08
Mrf= 0 90 0.08 Mtf=-0.37 0.08
Principal Axes:
T Vol= 1.40 Plg= 3 Azm= 9
N 0.24 43 276
P -1.64 47 103
Best Double Couple:Mo=1.5*10**17
NP1:Strike=134 Dip=56 Slip= -35
NP2: 246 61 -140

SVA 7.04 1 eP 47 04.50 -0.4
eS 48 33.00
VUN 7.15 1 ePc 47 05.20 -0.8
NDF 7.45 353 eP 47 01.00 -7.8X
MBU 8 19 2 ePc 47 17.20 1.1
WCZ 11.25 197 P 47 51.70 4 9X
DZM 11.35 283 iPd 47 50.70 2.7
iS 49 59.10
ScP 55 31.10
KUZ 11.73 190 Pc 47 55.50 3.9X
HBZ 12.37 180 P 47 57.20 -0.8
eS 50 07.50
URZ 13.07 184 P 48 04.40 -0.7
eS 50 22.80
TAZ 13.09 186 eP 48 07.30 2.0
PATZ 13.27 187 P 48 09.30 2.1
NOZ 13.39 181 P 48 07.60 -0.6
MOZ 13.61 192 P 48 14.20 3.7X
PAHZ 13.67 184 P 48 10.20 -0.9
WHH 13.74 186 eP 48 11.10 -0.8
RUZ 14.12 190 P 48 17.00 1.4
NGZ 14.13 189 P 48 17.00 1.1
CNZ 14.16 189 P 48 17.70 1.6
WAHZ 14.56 186 eP 48 18.00 -2.0
AFI 14.57 41 ePd 48 07.00 -13.2X
NRZ 14.59 194 eP 48 24.20 4.0X
TEHZ 14.81 185 P 48 22.00 -0.4
BSZ 14.84 190 P 48 23.80 1.1
PGZ 15.48 186 eP 48 27.90 -1.0
MNG 15.57 188 P 48 28.50 -1.3
S 51 08.00
KIW 15.89 190 P 48 32.40 -0.5
MTW 16.10 188 P 48 33.70 -1.3
CAW 16.11 189 P 48 33.90 -1.1
MRW 16.28 190 P 48 36.10 -0.6
S 51 19.10
WEL 16.32 190 P 48 37.90 0.8
S 51 21.00
THZ 17.13 194 P 48 46.10 1.1
eS 51 32.70
DSZ 17.38 197 P 48 49.10 1.7
KHZ 17.63 192 P 48 49.90 0.1
0.5s 1280.00nm 6.8mb X
S 51 41.10
LTZ 18 24 194 P 48 55.20 -0.5
eS 51 51.40
WVZ 18.90 197 Pd 49 02.40 0.5
MOZ 19.05 193 P 49 02.60 -0.6
S 52 04.10
EWZ 19.28 197 P 49 05.40 0.0
BWZ 20.48 198 P 49 15.20 -1.3
ODZ 20.77 196 P 49 18.30 -0.8
LRCZ 21.12 198 P 49 21.70 -0.9
MSCZ 21.13 198 P 49 21.90 -0.6
MHZ 21.14 198 P 49 22.00 -0.7
MSZ 21.20 201 P 49 23.60 0.6
TUZ 21.87 196 P 49 29.60 0.5
BCZ 22.42 199 P 49 34.80 0.7
BRS 23.03 259 iPc 49 41.30 1.5
0.5s 9.00nm 4.7mb
i 49 45.00 13kmX
SIZ 23.12 198 eP 49 41.10 0.7
COO 23.97 251 iPc 49 50.10 1.8
i 55 58.00
RMO 26.65 261 iPc 50 23.20 11.3X
0.4s 32.00nm
i 51 59.00
i 56 15.80
CAN 27.20 241 iPc 50 18.20 1.5
BWA 27.47 243 iPc 50 18.30 -0.8
CMS 29.24 250 eP 50 35.00 0.7
TBI 29.36 93 iP 50 36.00 0.5
0.7s 235.00nm 5.9mb
CTAO 30.01 273 iPc 50 41.50 0.4
1.0s 110.00nm 5.4mb
ipP 50 55.00 53kmX
e(S) 55 01.00
e(PcS)56 16.00
AFR 30.58 82 iP 50 45.70 -0.2
1.0s 305.00nm 5.9mb
PAE 30.72 82 iP 50 46.80 -0.3
1.0s 235.00nm 5.8mb
PPT 30.76 82 iP 50 47.30 -0.1
1.0s 295.00nm 5.9mb
PPN 30.90 82 iP 50 48.40 -0.2
1.0s 140.00nm 5.5mb
TAU 30.96 227 iPc 50 50.60 1.7
i 53 27.50
i 56 18.00
TVO 30.98 83 iP 50 49.20 -0.1
1.0s 310.00nm 5.9mb
MCQ 32.61 201 iPd 51 04.40 1.8
0.7s 59.60nm 5.3mb
BFD 32.69 240 iPd 51 04.70 1.1

0.8s 100.00nm 5.5mb
i 56 22.80
STF 32.86 250 iPc 51 06.10 1.1
0.3s 37.90nm 5.5mb
e 53 10.90
e 55 44.60
PMO 33.19 79 iP 51 08.10 0.2
VAH 33.34 79 iP 51 09.00 -0.1
TPT 33.45 79 iP 51 10.40 0.4
PMG 33.55 292 eP 51 11.00 0.1
1.4s 93.02nm 5.2mb
RUV 33.58 79 iP 51 11.20 0.1
ADE 35.47 245 iPd 51 27.70 0.9
0.9s 218.49nm 5.8mb
ASPA 40.36 262 iPc 52 06.90 0.1
0 4s 85.90nm 5.7mb
Z 19s 0.40um 4.3Msz
ePcP 53 46.20
e 55 05.80
iScP 56 52.80
iS 57 34.00
eScS 01 07.30
WR2 40.82 268 iPd 52 09.90 -0.6
0.3s 95.50nm 5.8mb
iScP 56 55.70
eS 57 38.00
RKT 42.47 97 iP 52 24.00 0.5
1.2s 270.00nm 5.7mb
FORR 44.42 251 eP 52 37.70 -0.9
MTN 46.08 276 eP 52 50.00 -1.6
WARB 46.35 257 iPc 52 52.60 -1.0
COOL 50.35 250 eP 53 22.00 -1.4
KLB 53.11 248 eP 53 41.80 -1.6
0.4s 19.00nm 4.8mb
RKG 53.30 245 eP 53 44.30 -0.4
BAL 54.17 249 eP 53 49.00 -1.8
MUN 54.35 248 eP 53 50.00 -2.1
MRWA 55.04 251 eP 53 55.50 -1.4
NANU 57.05 259 iPc 54 10.10 -0.7
SPA 64.95 180 iPc 55 02.80 0.7
1.0s 60.00nm 5.1mb
i 03 01 00
MAT 72.14 327 eP 55 44.00 -1.2
1.0s 8.00nm 4.2mb X
MAW 76.02 201 iPd 56 07.40 0.9
0.9s 22.00nm 4.6mb
AIA 77.96 158 eP 56 13.40 -3.6X
PSI 81.59 277 ePd 56 36.50 -0.2
PRS 83.51 45 iPd 56 46.64 0.8
GCC 83.54 44 eP 56 46.91 0.9
PCC 83.59 43 iPd 56 46.68 0.5
SAO 83.73 45 iPd 56 48.10 1.2
PRI 83.85 45 iPd 56 48.49 0.8
BKS 83.92 43 ePd 56 48.40 0.6
0.8s 72.00nm 5.3mb
ZSP 83.94 43 eP 56 49.02 1.1
MHC 83.96 44 ePd 56 48.75 0.5
0.8s 63.00nm 5.3mb
ABL 84.03 47 P 56 49.30 0.6
ARN 84.03 44 P 56 48.80 0.3
CN2 84.05 325 P 56 48.10 -0.2
TIA 84.05 315 eP 56 48.90 0.4
FOX 84.52 40 eP 56 52.17 1.5
FHC 84.70 40 iPd 56 52.51 0.8
PLM 84.76 50 P 56 52.70 0.4
SNA 84.76 180 iPd 56 51.40 -0.1
1.1s 70.89nm 5.2mb
PEC 84 86 49 P 56 52.60 0.0
1.0s 23.33nm 4.8mb
CMB 85.17 44 iPd 56 54.16 0.2
ORV 85.40 42 iPd 56 55.23 0.2
WDC 85.41 41 iPd 56 55 53 0.5
MIN 85.83 42 iPc 56 57.36 0.1
LBFM 86.27 41 P 56 59.00 -0.4
BONR 86.45 45 P 57 00.80 0.3
KVN 87.21 44 P 57 03.80 -0.1
TIY 87.98 314 Pc 57 08 50 1.1
XAN 88.37 309 P 57 09.50 0.3
RSO 88.55 14 eP 57 08.00 -1.7
CHG 88.74 291 ePd 57 12.20 1.0
1.0s 11.00nm 4.7mb
e 59 13.90 553kmX
BMW 88.74 36 P 57 10.30 -0.4
SHW 89.10 37 P 57 12.70 0.3
SLKM 89.16 15 eP 57 11.80 -0.5
GMW 89.66 35 P 57 15.00 0.2
LON 89.68 36 P 57 14.50 -0.5

RMW 90.12 36 P 57 17.20 0.2
PMR 90.37 15 eP 57 16.80 -0.9
1.0s 21.00nm 5.1mb
CD2 90.55 304 P 57 20.00 0.7
MSU 90.76 47 P 57 20.90 0.5
DUG 91.24 46 P 57 22.70 0.3
BALM 91.64 18 eP 57 24.10 0.3
DAU 92.36 46 P 57 28.00 0.2
PNT 92.41 35 eP 57 28.00 0.6
0.6s 6.00nm 4.8mb
PV09 92.80 49 eP 57 30.00 0.1
ANMO 92.93 53 iP 57 30.20 -0.2
1.0s 10.50nm 4.9mb
FBA 93.55 14 eP 57 29.70 -2.6
1.0s 5.70nm 4.7mb
e 59 38.00 588kmX
BW06 94.67 45 eP 57 37.20 -1.0
GOL 95.94 49 iP 57 44.10 0.1
0.8s 10.42nm 5.1mb
GLD 96.07 49 eP 57 44.00 -0.5
1.0s 16.00nm 5.2mb
RSSD 98.84 45 iP 57 56.00 -1.0
1.0s 13.56nm 5.3mb
SIV 109.11 119 PKP 02 43.20 -0.9
FRS 119.55 207 iPKPc 03 03.50 -0.1
0.7s 27.40nm
BLF 119.75 208 ePKP 03 02.50 -1.8
SEK 119.80 210 iPKPc 03 05.00 0.6
0.7s 17.12nm
QUE 119.87 292 ePKP 03 04.30 -0.2
PRY 121.06 210 ePKP 03 06.50 -0.3
BNH 121.45 52 PKP 03 05.90 -0.9
POF 121.91 202 iPKPc 03 09.00 0.9
1.0s 13.00nm
MIM 123.07 51 PKP 03 08.60 -1.3
BUL 126.18 216 iPKPc 03 16.10 -0.8
iPP 05 32.90
MAIO 127.07 298 ePKP 03 18.00 -0.1
KRI 128.31 219 iPKPc 03 22.00 1.0
iPP 05 48.70
SOB1 128.71 127 ePKP 03 04.80 -16.9X
e 03 20.70
e 05 47.30
NUR 140.33 340 ePKP 03 34.70 -7.3X
UPP 142.85 344 iPKP 03 42.20 -4.2X
HFS 143.49 347 ePKP 03 44.00 -3.5X
0.4s 68.20nm
HRI 146.53 293 ePKP 03 52.90 -0.7
BHL 146.56 294 PKP 03 52.00 -1.6
KAS 146.56 308 ePKP 03 54.00 0.7
JVI 146.94 290 ePKP 03 57.20 3.0
MBH 147.36 286 ePKP 03 58.40 3.4X
EDR 148.30 1 ePKP 03 58.40 2.9
0.7s 48.00nm
CSS 148.34 296 ePKP 04 00.00 3.7X
EDU 148.66 1 ePKP 03 59.40 3.4X
ELO 148.72 2 ePKP 03 59.70 3.5X
EBH 148.95 2 ePKP 04 00.50 4.0X
EAB 148.97 3 ePKP 04 00.50 4.0X
0.8s 78.00nm
EDI 149.28 2 ePKP 04 01.10 4.1X
VRI 149.30 319 ePKP 04 02.00 4.6X
ESY 149.30 1 ePKP 04 01.00 4.0X
0.8s 74.00nm
EAU 149.35 2 ePKP 04 01.30 4.2X
EBL 149.44 2 ePKP 04 01.60 4.3X
0.7s 42.00nm
EKA 149.87 2 PKPc 04 02.80 4.9X
0.6s 14.90nm
MLR 149.96 319 ePKP 04 03.00 4.4X
KRA 150.07 332 ePKP 03 58.00 -0.4
i 04 03 50
HLW 150.44 287 ePKP 04 04.50 4.9X
e 06 15.50
SPC 150.58 330 ePKP 04 05 40 6.0X
e 06 15.60
CMP 150.62 320 ePKPd 04 05.00 5.6X
KSP 150 91 336 ePKP 03 59.50 -0.1
0.8s 100.00nm
id 04 06 00
e 06 16.30
COZ 150.99 320 ePKP 04 07.00 6.8X
CLL 151.61 340 iPKP 04 07.10 6.5X
1.0s 87 00nm
BRG 151.69 339 ePKP 04 00 80 0.1
i 04 07.60
epPKP 06 17.60

PRU 152.24 337 PKPd 04 08.50 6.9X
0.7s 9.00nm
MOX 152.61 341 iPKPc 04 01.50 -0.6
2.4s 80.00nm
i 04 09.70
e 04 23.00
e 06 21.00
ZST 152.70 332 iPKP 04 01.60 -0.7
i 04 09.90
e 06 19.30
KHC 153.31 337 PKPd 04 02.50 -0.6
i 04 11.40
e 04 25.00
SKO 154.63 317 ePKP 04 05.00 -0.1
i 04 14.00
i 04 32.50
i 06 31.00
PTJ 154.97 330 ePKP 04 05.10 -0.4
LJU 155.48 332 e(PKP)04 05.50 -0.6
OHR 155.51 316 ePKP 04 02.00 -4.4X
WTTA 155.58 338 iPKPc 04 05.60 -0.9
1.2s 19.30nm
i 04 15.90
VBY 155.58 330 e(PKP)04 06.10 -0.2
VOY 155.76 333 e(PKP)04 05.00 -1.6
CDF 155.78 345 iPKPc 04 05.80 -0.8
HAU 156.37 347 ePKP 04 07.00 -0.3
BSF 156.44 346 iPKPc 04 06.90 -0.6
1.1s 12.20nm
FLN 156.46 358 iPKPc 04 06.80 -0.5
1.1s 24.40nm
LDF 156.61 357 iPKPc 04 07.20 -0.3
0.9s 8.20nm
GRR 156.84 359 ePKP 04 07.50 -0.3
1.1s 14.65nm
LPF 157.20 359 iPKPc 04 08.00 -0.2
1.3s 25.25nm
LOR 157.54 350 iPKPc 04 08.50 -0.2
1.1s 11.00nm
SSF 157.79 351 iPKPc 04 08.90 0.0
0.9s 6.55nm
LBF 157.80 350 iPKPc 04 09.80 0.8
1.2s 11.90nm
MFF 158.60 357 iPKPc 04 10.00 0.2
1.3s 25.25nm
TCF 158.73 353 iPKPc 04 10.00 0.0
1.1s 11.00nm
LSF 158.84 354 iPKPc 04 09.80 -0.3
RJF 159.77 354 iPKPc 04 11.50 0.3
0.9s 9.85nm
CAF 160.09 352 iPKPc 04 12.00 0 5
1.3s 9.05nm
LFF 160.21 355 iPKPc 04 11.90 0.3
LPO 160.42 354 ePKP 04 12.40 0.6
LIC 160.86 170 PKP 04 12.90 -0.2
1.0s 26.00nm
KIC 161.04 170 PKPd 04 13.12 -0.2
0.9s 12.00nm
TIC 161.27 170 PKPd 04 13.24 -0.3
1.0s 18.00nm
EPF 162.13 355 iPKPc 04 14.20 0.5
1.0s 12.00nm
S.D. = 1.0 on 177 of 209 obs.

% SEP 17, 1991 15h 18m 31.54± 0.92s
41.104 N ±14.9km 28.491 E ±11.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

CTT 0.06 313 iPg 18 33.30 -0.5
ISK 0.43 95 iPg 18 40.00 -0.3
YLV 0.86 128 ePg 18 47.30 -0.8
DMK 0.90 323 iPg 18 49.30 0.4
eSg 19 01.30
HRT 0.93 107 ePn 18 50.00 0.6
IZI 1.07 135 ePn 18 52.30 0.6
S.D. = 0.8 on 6 of 6 obs.

---

* SEP 17, 1991 17h 42m 40.06± 1.04s
6.847 S ± 8.4km 129.993 E ±11.9km
DEPTH = 174.8 ± 13.1 km
4.7mb (2 obs.)
BANDA SEA (280)

AAI 3.61 330 eP 43 38.60 1.9
MTN 6.07 169 iPd 44 21.60 12.9X
eS 45 15.00

17d 17h

KUPT 7 12 242 eP 44 21.00 -1.7
eS 45 28.70
KNA 8.93 188 iPd 44 45.60 -1.0
eS 46 19.00
JAY 11.51 69 iPd 45 19.00 -1.4
0.7s 768.10nm 6.3mb X
i(S) 45 37.00
WR2 13.70 162 iPd 45 49.20 0.9
0.2s 24.50nm 5.3mb X
i 45 56.80
OIS 16.51 147 eP 46 29.00 5.8X
i 48 57.00
ASPA 17.14 168 iPd 46 34.70 3.9X
0.5s 73.10nm 5.3mb
WARB 19.49 189 eP 46 56.00 0.1
CTAO 20.55 131 eP 47 16.00 9.4X
FORR 23.94 184 eP 47 41.80 2.3
CHTO 39.84 310 P 49 58.30 0.2
1.0s 5.75nm 4.2mb
GUN 54.85 311 P 51 55.30 0.3
PKI 55.02 310 P 51 55.80 -0.4
KKN 55.23 311 P 51 57.00 -0.6
DMN 55.27 310 P 51 58.20 0.2
GKN 55.83 311 P 52 01.10 -0.8
S.D. = 1.4 on 13 of 17 obs.

? SEP 17, 1991 17h 44m 53.65± 1.24s
2.671 S ±16.7km 138.824 E ±17.7km
DEPTH = 33.0km (normal)
4.5mb (2 obs.)
IRIAN JAYA, INDONESIA (201)

MNDI 5.93 126 eP 46 22.00 0.2
PMG 10.65 129 eP 47 25.00 -2.0
CTAO 18.77 158 iPd 49 14.50 1.9
1.0s 12.50nm 4.1mb
PCI 19.06 275 ePd 49 24.00 8.0X
ASPA 21.41 192 eP 49 39.40 -1.6
0.4s 25.40nm 5.0mb
i 49 53.90
eS 53 35.00
OLP 24.34 168 eP 50 10.80 1.1
RMO 25 53 159 eP 50 30.00 8.9X
WARB 26.14 205 eP 50 26.20 -0.6
LZH 50.52 323 eP 54 05.00 13.9X
YAK 64.89 355 eP 55 31.20 -0.4
CNCB 147.21 127 PkP 04 37.00 2.5X
LPB 147.27 127 ePKP 04 44.00 9.5X
ZOBO 147.39 126 PkP 04 36.20 1.3
S.D. = 1.7 on 8 of 13 obs.

SEP 17, 1991 18h 53m 22.28± 0.36s
43.141 N ± 4.7km 87.968 E ± 7.9km
DEPTH = 22.0km (2 depth phases)
4.8mb (27 obs.)
NORTHERN XINJIANG, CHINA (332)

LZH 14.11 115 eP 56 45.00 1.9
1.5s 48.00nm 5.0mb
pP 56 53.00
GUN 15.29 187 P 56 57.70 -1.1
GKN 15.34 191 P 57 00.34 1.1
KKN 15.47 189 P 57 01.10 0.1
DMN 15.67 189 P 57 02.20 -1.4
PKI 15.67 188 P 57 02.38 -1.3
NDI 16.83 214 eP 57 18.00 -0.1
SHL 17.82 168 iP 57 30.80 0.1
TIY 19.37 98 Pd 57 53.80 4.4X
Z 14s 0.50um
GYA 22.56 131 P 58 29.00 5.7X
1.0s 10.00nm 4.3mb
sP 58 40.60
CHTO 25.96 156 P 58 57.40 2.4
pP 59 02.40 18km
HYB 26.86 200 eP 59 22.00 18.8X
YAK 30.87 38 iP 59 36.20 -2.5
KAF 40.12 320 iP 00 57.40 -0.2
0.5s 5.00nm 4.5mb
SOD 40.17 328 iP 00 58.60 0.6
NUR 41.00 318 iP 01 05.40 0.6
UPP 44 56 317 eP 01 29.00 -4.9X
HFS 46.44 318 eP 01 48.70 0.0
0.6s 6.50nm 4.8mb
Z 16s 0.12um 3.9MszX
LR 21 32.00
NAO 47.64 320 P 01 56.90 -1.4
0.7s 7.10nm 4.8mb

PRU 49.07 305 P 02 10.70 1.3
BRG 49.10 306 eP 02 10.40 0.8
CLL 49.49 307 iPc 02 13.20 0.5
0.7s 12.00nm 5.0mb
KHC 49.98 304 P 02 17.70 1.2
GRF 51.16 306 ePc 02 27.10 1.6
0.6s 9.00nm 4.9mb
Z 22s 0.10um 3.8Msz
GRFO 51.17 306 P 02 26.60 1.1
WTTA 51.93 303 iPc 02 32.00 0.5
0.9s 20.70nm 5.1mb
i 02 35.60 12kmX
CDF 54.06 306 eP 02 47.00 -0.2
0.8s 5.35nm 4.6mb
BSF 54.61 305 eP 02 51.20 -0.1
0.9s 6.55nm 4.7mb
HAU 54.80 306 eP 02 52.50 -0.1
Z 20s 0.08um 3.8Msz
LPG 55.74 303 iPc 03 00.40 0.6
0.8s 24.20nm 5.3mb
LPL 55.74 303 iPc 03 00.40 0.7
0.7s 19.85nm 5.3mb
PGF 55.77 299 eP 03 00.20 0.4
SBF 56.11 301 iPc 03 02.40 0.2
0.7s 16.55nm 5.2mb
LOR 56.63 306 eP 03 05.00 -0.8
0.7s 6.60nm 4.8mb
Z 21s 0.08um 3.8Msz
FRF 56.76 301 eP 03 06.00 -0.8
SSF 56.94 306 iPc 03 07.40 -0.6
0.7s 2.20nm 4.3mb
SMF 56.95 305 iPc 03 07.60 -0.5
0.7s 8.80nm 4.9mb
LMR 56.96 301 eP 03 08.10 -0.1
LRG 56.99 301 eP 03 08.40 0.6
AVF 57.16 305 iPc 03 09.10 -0.5
0.7s 3.30nm 4.5mb
BGF 57.58 305 iPc 03 12.10 -0.4
0.7s 6.05nm 4.7mb
MAF 57.92 305 iPc 03 15.00 0.1
0.7s 8.25nm 4.9mb
TCF 58.10 305 iPc 03 16.00 -0.2
0.7s 6.60nm 4.8mb
LDF 58.28 309 iPc 03 16.90 -0.5
FLN 58.40 309 eP 03 17.50 -0.7
Z 19s 0.10um 4.0Msz
GRR 58.81 309 eP 03 20.40 -0.7
0.7s 6.60nm 4.9mb
RJF 59.02 305 eP 03 23.10 0.5
0.8s 5.35nm 4.7mb
LPF 59.10 309 eP 03 22.50 -0.6
0.9s 6.55nm 4.8mb
MFF 59.33 307 eP 03 24.30 -0.4
LPO 59.55 304 iPc 03 26.50 0.2
0.6s 6.30nm 4.9mb
LFF 59.68 305 iPc 03 27.70 0.6
0.7s 7.70nm 4.9mb
EPF 60.96 303 eP 03 35.40 -0.5
0.6s 3.15nm 4.6mb
WR2 75.89 135 iPd 05 07.30 -1.5
0.6s 4.20nm 4.7mb
ipP 05 15.50 26km
S.D. = 0.9 on 49 of 53 obs.

% SEP 17, 1991 19h 51m 02.69± 0.67s
43.108 N ± 8.4km 0.622 W ± 4.1km
DEPTH = 10.0km (geophysicist)
PYRENEES (378)
ML 1.0 (STR).

ESCF 0.05 131 Pg 51 05.08 0.2
Sg 51 06.90
ATE 0.06 249 Pg 51 05.04 0.0
Sg 51 06.79
MADF 0.15 285 Pg 51 06.34 0.2
ISSF 0.15 238 Pg 51 06.25 0.0
Sg 51 08.95
LHE 0.20 180 Pg 51 06.92 -0.1
JAU 0.20 111 Pg 51 07.40 0.3
ELYF 0.28 283 Pg 51 08.43 -0.1
EPF 0.71 96 Pg 51 16.30 -0.4
Sg 51 26.80
S.D. = 0.3 on 8 of 8 obs.

SEP 17, 1991 20h 24m 02.32± 0.49s
7.187 S ± 6.2km 126.123 E ± 9.0km
DEPTH = 479.3 ± 8.0 km

4.9mb (9 obs.)
BANDA SEA (2B0)

KUPT 3.86 220 eP 25 19.50 0.6
eS 26 11.70
AAI 4.04 31 eP 25 20.10 -0.3
eS 26 25.00
MTN 7.48 139 eP 25 52.50 -1.5
eS 27 50.00
PCI 8.84 315 iPc 26 09.80 1.2
KNA 8.90 163 iPc 26 07.80 -1.3
WR2 15.00 149 iPd 27 12.70 -0.9
0.3s 158.50nm 6.1mb X
i 28 44.40
i 29 49.50
iS 30 33 40
JAY 15.25 73 e(P)c 27 10.00 -6.2X
ASPA 18.01 156 iPd 27 44.70 1.1
0.3s 64.10nm 5.7mb
e 29 28.40
eS 30 44.40
NANU 18.38 213 eP 27 47.40 0.3
OIS 18.63 137 iPc 27 51.00 1.4
0.5s 71.00nm 5.5mb
WARB 18.90 179 eP 27 53.00 0.8
FORR 23.61 176 eP 28 35.60 -0.4
0.2s 4.00nm 4.6mb
STK 28.49 152 eP 29 20.30 1.0
0.6s 6.10nm 4.3mb
PSI 28.86 289 ePd 29 22.50 -0.2
KHT 34.95 309 eP 30 15.50 1.0
BDT 36.16 312 eP 30 25.00 0.5
CHG 37.22 314 eP 30 33.90 0.7
GYA 38.41 331 P 30 44.00 1.1
CD2 43.52 332 P 31 24.00 0.1
XAN 44.12 339 eP 31 28.00 -0.6
MAT 44.95 14 iPd 31 35.00 0.0
0.8s 8.21nm 4.3mb
LSA 49.75 319 Pc 32 11.00 -1.2
KOD 51.45 289 eP 32 23.90 -0.8
MDJ 51.66 3 eP 32 26.20 0.8
GUN 52.24 314 Pc 32 30.10 -0.3
PKI 52.38 313 Pc 32 30.82 -0.5
0.5s 31.00nm 4.9mb
KKN 52.60 313 Pc 32 32.44 -0.4
0.5s 32.00nm 4.9mb
DMN 52.62 313 Pc 32 32.76 -0.3
0.5s 20.00nm 4.7mb
HYB 52.97 298 eP 32 33.50 -1.9
GKN 53.19 313 Pc 32 36.66 -0.3
0.4s 4B.00nm 5.2mb
CNCB 152.38 150 PKP 43 09.00 10.4X
LPB 152.55 149 PKP 43 04.00 5.3X
CCH 152.74 154 (PKP) 43 17.00 18.2X
ZOBO 152.76 149 PKP 43 10.00 10.8X
S.D. = 0.9 on 29 of 34 obs.

% SEP 17, 1991 20h 29m 36.40± 2.03s
44.567 N ± 8.9km 6.815 E ±17.4km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 1.6 (GEN).

PZZ 0.21 107 P 29 41.51 0.4
S 29 44.79
RRL 0.35 356 P 29 43.82 0.0
S 29 49.01
BH8 0.42 49 P 29 44.81 -0.2
S 29 50.71
STV 0.49 131 P 29 45.86 -0.4
S 29 52.91
ENR 0.55 128 P 29 47.86 0.2
S 29 54.74
S.D. = 0.5 on 5 of 5 obs.

SEP 17, 1991 20h 41m 26.37± 0.70s
44.319 N ± 5.6km 15.027 E ± 7.4km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 2.9 (ZAG), MD 2.9 (TRI).

RIY 1.12 336 ePg 41 46.20 -1.2
iSg 42 02.40
VBY 1.20 8 ePgc 41 48.00 -0.7
iSg 42 03.90
Sn 42 06.50
CEY 1.48 344 ePn 41 53.40 0.3

			eSg	42	13.50	
HVAR		1.54	137	iPn	41	53.50	-0.3
				iSn	42	14.70	
ZAG		1.64	24	i(Pn)	41	56.80	1.4
				iSn	42	16.50	
TRI		1.65	328	e(Pg)	41	55.50	0.0
				iSg	42	18.20	
PTJ		1.71	22	ePg	41	56.00	-0.5
				iSg	42	11.70	
ARV		1.72	242	P	41	55.90	-0.6
				eSn	42	20.70	
LJU		1.76	349	ePn	41	57.50	0.4
				e	41	58.90	
				eSg	42	20.00	
VOY		1.89	335	ePn	42	00.50	1.4
				eSn	42	21.90	
ASS		2.12	235	P	42	01.70	-0.7
				eSn	42	29.10	
CRE		2.33	254	P	42	07.00	1.6
				eSn	42	36.50	
PGD		2.42	261	P	42	07.00	0.2
FVI		2.77	326	P	42	10.10	-1.4
WTTA		3.78	322	i(Pn)	42	30.80	4.7X
	0	5s		3.90nm			
				i	43	09.60	
				i	43	25.20	
ZST		4.14	20	eP	42	35.20	4.3X
S.D. = 1.0 on 14 of 16 obs.							

SEP 17, 1991 20h 45m 43.18± 0.50s
23.749 N ± 5.7km 125.053 E ± 6.6km
DEPTH = 33.2km (2 depth phases)
4.7mb (19 obs.)
SOUTHWESTERN RYUKYU ISLANDS (246)

TWC		3.05	287	ePd	46	31.80	1.6
				eS	47	07.20	
TWD		3.18	277	ePc	46	32.00	0.0
				eS	47	08.60	
TWF1		3.47	264	iPd	46	35.20	-1.0
				eS	47	13.80	
OZH		6.01	283	eP	47	11.50	-0.7
SSE		8.08	336	Pgc	47	40.00	-1.1
	0.6s		17.00nm			5.3mb	
	Z	18s		1.80um		4.3MszX	
	N	13s		1.20um			
	E	12s		0.80um			
				Sg	49	21.00	
BAG		8.42	211	eP	47	45.50	-0.6
NJ2		9.92	328	Pc	48	06.50	0.0
	N	13s		1.80um			
	E	12s		1.60um			
TIA		14.18	333	eP	49	05.60	1.8
DL2		15.39	350	P	49	20.40	1.0
	Z	14s		0.60um			
IIDJ		16.16	41	eP	49	35.90	6.5X
MTMJ		16.87	38	P	49	41.60	3.2X
GYA		16.87	283	P	49	43.60	5.0X
	1.0s		10.00nm			3.9mb	
	Z	16s		1.00um		4.8MszX	
	N	13s		1.00um			
	E	13s		1.00um			
				sP	49	54.80	
MAT		17.06	39	eP	49	43.00	2.2
	0.8s		11.19nm			4.0mb	
				eS	53	04.00	
CHJJ		17.19	41	P	49	44.20	1.8
XAN		17.43	310	P	49	46.00	0.5
	N	13s		0.80um			
				pP	49	52.50	
				sP	49	55.50	
TIY		17.62	325	eP	49	49.00	1.2
	Z	14s		1.20um			
	N	16s		1.40um			
8JI		17.89	337	eP	49	51.00	0.0
	Z	14s		1.18um			
	N	13s		0.78um			
SNY		18.07	356	Pd	49	52.40	-0.9
	1	0s		20.00nm		4.2mb	
	Z	14s		1.20um		3.9MszX	
	E	18s		1.50um			
CN2		20.00	1	eP	50	13.00	-2.8
	Z	14s		1.20um		4.4MszX	
	N	14s		0.40um			
	E	14s		0.40um			
				pP	50	23.00	41km
				eS	53	53.00	

CD2		20.20	295	P	50	17.40	-0.6
	Z	14s		1.20um		4.4MszX	
				S	53	58.00	
KMI		20.36	278	Pc	50	26.00	6.1X
		1.5s		50.00nm		4.6mb	
HHC		20.47	330	eP	50	19.00	-1.8
	Z	14s		1.70um		4.6MszX	
	N	13s		1.20um			
	E	11s		0.30um			
BTO		21.02	327	eP	50	25.00	-1.5
	Z	14s		1.00um		4.3MszX	
	N	14s		0.90um			
	E	14s		0.50um			
				ePP	50	54.00	
PJG		21.29	115	eP	50	20.40	-8.8X
LZH		22.06	309	P	50	37.00	0.0
		1.6s		58.00nm		4.8mb	
	Z	16s		0.87um		4.3MszX	
	E	12s		0.46um			
				pP	50	44.00	25km
CHG		24.80	264	eP	51	05.10	1.4
GTA		26.45	312	P	51	18.80	-0.3
		1.0s		10.00nm		4.4mb	
	Z	16s		0.60um		4.2MszX	
	N	13s		0.40um			
GUN		35.40	285	P	52	39.62	1.1
		0.8s		30.00nm		5.3mb	
PKI		35.83	285	P	52	42.62	0.4
		0.9s		16.00nm		5.0mb	
KKN		35.94	285	P	52	43.50	0.6
		0.8s		30.00nm		5.3mb	
DMN		36.10	285	P	52	45.00	0.7
		0.9s		22.00nm		5.1mb	
GKN		36.49	285	P	52	48.14	0.6
		0.8s		16.00nm		5.0mb	
WMO		36.53	312	P	52	47.50	-0.1
	Z	16s		0.70um		4.5MszX	
YAK		38.38		4 eP	53	00.10	-2.6
NDI		42.98	287	eP	53	40.00	-1.1
WR2		44.37	167	eP	53	51.20	-1.1
		0.7s		6.50nm		4.6mb	
ASPA		47.91	169	iPd	54	21.10	0.7
		1.3s		6.80nm		4.5mb	
WARB		49.66	178	eP	54	33.60	-0.2
QUE		51.72	291	eP	54	50.20	0.4
MAIO		57.16	299	eP	55	31.00	1.6
SOD		71.50	336	iP	57	02.40	0.2
				i	57	13.00	
KAF		73.27	331	eP	57	12.10	-0.6
		0.4s		1.70nm		4.4mb	
NUR		74.57	330	iP	57	19.20	-1.0
				e	57	30.00	
UPP		78.04	331	iP	57	47.10	7.4X
HFS		79.65	332	eP	57	48.50	-0.1
		0.6s		2.20nm		4.3mb	
NAO		80.51	333	P	57	52.80	-0.4
		0.9s		4.90nm		4.5mb	
YKA		81.97	24	eP	58	13.80	13.1X
		0.8s		3.10nm			
SKO		83.92	313	eP	58	11.00	-0.2
LPG		91.20	322	eP	58	47.00	0.3
		0.9s		4.90nm		4.9mb	
LPL		91.20	322	eP	58	47.00	0.4
		0.8s		4.70nm		4.9mb	
S.D. = 1.2 on 43 of 50 obs.							

? SEP 17, 1991 21h 02m 53.92± 3.89s
5.856 S ±22.6km 147.630 E ±35.2km
DEPTH = 48.7 ± 13.0 km
4.5mb (3 obs.)
EASTERN NEW GUINEA REG., P N.G. (207)

LAT		1.01	218	iPc	03	12.50	0.6
YYYY		1.70	257	eP	03	27.50	5.7X
MDG		1.94	288	eP	03	24.80	-0.2
				eS	03	54.60	
PMG		3.56	188	eP	03	48.00	-0.1
MNDI		3.96	265	eP	04	02.00	8.0X
WR2		19.04	221	eP	07	13.80	-1.3
		0.6s		22.10nm		4.6mb	
RMO		20.55	177	eP	07	41.00	10.0X
ASPA		22.10	215	iPd	07	47.30	0 6
		0.6s		25.30nm		4.8mb	
				eS	12	05.40	
STK		26.50	192	eP	08	28.30	-0 4
		1.0s		2.50nm		3.8mb	
WARB		28 47	222	eP	08	47.50	0.9

FORR		30.90	214	eP	09	08.00	-0.2
COOL		35.18	222	eP	09	45.00	-0.5
MRWA		37.85	228	eP	10	08.50	0.6
S.D. = 0.8 on 10 of 13 obs.							

& SEP 17, 1991 21h 10m 29.30s
35.828 N 121.323 W
DEPTH = 8.7km
5.2mb (36 obs.) 4.5Msz (8 obs.)
CENTRAL CALIFORNIA (39)
<BRK>. ML 5.1 (BRK), 4.8 (PAS). Mo=5.0*10**16 Nm (BRK). Slight domage (VI) ot Son Simeon. Felt (V) ot King City and (IV) at Arrayo Gronde, Atascodero, Combrio, Coyucos, Greenfield, Graver City, Harmony, Lockwood, Monterey, Pismo Beoch, San Ardo, Son Lucas, San Luis Obispo, Soledod and Watsonville. Felt north olong the coast at Santa Cruz, Santo Cloro, San Moteo ond Son Froncisco.

PRS		0.50	356	iPd	10	39.08	-0.4
PRI		0.62	59	iPd	10	41.39	-0.4
PHAM		0.75	89	iPd	10	43.57	-0.6
SAO		0.94	354	iPd	10	46.76	-0.6
				iS	10	59.80	
PKEM		1.01	76	iPd	10	48.81	0.2
BCH		1.20	122	iP	10	52.00	0.2
GCC		1.32	336	iPc	10	51.67	-2.1
ARN		1.53	354	iPd	10	55.72	-1.1
MHC		1.53	350	ePc	10	55.90	-1.1
				iS	11	15.60	
PCC		1.87	333	ePc	10	59.06	-2.7
ABL		1.98	119	eP	11	01.19	-2.3
BKS		2.17	341	iPc	11	03.60	-2.5
				iS	11	38.80	
ZSP		2.24	341	iPc	11	04.84	-2.3
CMB		2.33	19	iPd	11	07.66	-0.8
NWRM		2.91	335	ePn	11	13.25	-3.3
BONR		3.22	48	ePn	11	21.03	-0.3
SSK		3.39	117	ePnd	11	21.70	-1.9
				eS	12	02.61	
GSC		3.72	97	eP	11	25.60	-2.7
ORV		3.72	358	ePd	11	28.03	-0.2
				eS	12	11.14	
PEC		3.93	118	ePn	11	27.77	-3.4
KVN		4.11	38	ePn	11	33.72	-0.2
				iPg	11	42.32	
LTCM		4.42	352	ePn	11	36.64	-1.4
PLM		4.43	123	eP	11	35.10	-3.3
MIN		4.52	357	ePc	11	39.24	-0.3
				eS	12	10.57	
FHC		5.39	338	eP	11	50.91	-0.9
LBFM		5.53	356	eP	11	53.34	-0.7
GLA		6.04	115	(P)	11	58.30	-2.7
MSU		7.78	67	ePn	12	26.19	0.5
				iPg	12	52.14	
				eSg	14	41.55	
DUG		8.01	54	eP	12	29.08	0.3
				eS	14	26.50	
DAU		9.16	57	eP	12	46.05	1.2
				eS	15	17.82	
VGB		9.69	2	eP	12	53.59	1.7
HPI		10.10	36	eP	12	54.80	-3.0
SHW		10.38	356	eP	13	07.26	5.8
BMW		10.73	353	eP	13	07.26	1.0
LON		10.92	358	eP	13	09.83	1.0
RMW		11.63	358	(P)	13	20.20	1.7
GMW		11.76	355	eP	13	20.21	0.0
LRM		12.03	31	eP	13	30.60	6.6
ANMO		12.17	90	eP	13	26.00	0.1
DPW		12.25	10	eP	13	28.20	1.3
				eS	16	59.00	
NEW		12.81	13	eP	13	35.50	1.2
		0.7s		35.00nm		5.7mb	
MCW		12.89	356	(P)	13	36.00	0.6
PNT		13.54	5	eP	13	46.00	2.1
ACO		17.90	81	e(P)	14	40.50	0.3
MEO		18.59	87	iPd	14	47.50	-1.1
TUL		20.68	82	eP	15	09.70	-2.4
		0.8s		11.10nm		4.3mb	
	Z	18s		0.25um		3.6Msz	
				LR	22	46.00	
FFC		23.15	29	ePc	15	36.00	-0.7

17d 21h

	0.9s	70.00nm		5.2mb		
FVM	24.75	76 (P)	15 54.20	1.9		
ELC	25.76	77 (P)	16 02.20	0.3		
PMR	31.18	334 eP	16 51.40	0.9		
	1.1s	63.00nm		5.4mb		
SVW	33.34	330 eP	17 09.60	0.1		
TTA	34.52	333 eP	17 19.50	-0.2		
IMA	35.70	338 eP	17 29.50	-0.3		
MBC	40.52	1 eP	18 10.50	0.8		
	1.0s	31.00nm		5.0mb		
YAK	67.09	331 eP	21 23.20	-1.6		
KEV	72.21	11 eP	21 55.00	-1.1		
ZOBO	72.22	126 P	21 56.00	-1.6		
Z	24s	0.08um		3.9MszX		
		LR	47 46.00			
LPB	72.43	126 P	21 58.20	-0.4		
CNCB	72.71	126 P	22 00.30	-0.2		
SOD	74.29	12 iP	22 08.00	-0.2		
NAO	76.07	22 P	22 17.80	-0.8		
	1.3s	16.10nm		5.0mb		
SIV	76.80	121 iPc	22 22.40	-1.0		
MAT	76.91	306 (P)	22 18.00	-5.7		
KAF	78.95	15 iP	22 33.90	-0.6		
	0.6s	5.70nm		4.8mb		
NUR	80.03	16 iP	22 40.00	-0.3		
	0.8s	23.50nm		5.2mb		
CN2	80.22	318 eP	22 39.00	-2.6		
FLN	80.72	35 iPc	22 44.20	0.0		
	1.0s	12.00nm		4.9mb		
Z	21s	0.17um		4.4Msz		
GRR	80.81	36 iPc	22 44.90	0.3		
	0.9s	11.45nm		4.9mb		
LPF	80.97	36 iPc	22 45.60	0.1		
	1.1s	22.00nm		5.1mb		
LDF	81.01	35 iPc	22 45.70	0.0		
	1.0s	8.00nm		4.7mb		
DOU	82.02	32 Pc	22 53.70	2.8		
MFF	82.41	37 iPc	22 53.40	0.3		
SNY	82.56	317 Pc	22 53.60	-0.3		
LSF	83.47	36 iPc	22 58.50	-0.1		
	1.1s	23.20nm		5.3mb		
TCF	83.77	36 iPc	23 00.00	-0.1		
	0.9s	15.55nm		5.2mb		
SSF	83.80	34 iPc	23 00.30	0.1		
	1.3s	27.10nm		5.3mb		
LOR	83.81	34 iPc	23 00.40	0.1		
	1.3s	34.30nm		5.4mb		
Z	21s	0.22um		4.5Msz		
BGF	83.87	35 iPc	23 00.40	-0.2		
	1.0s	26.00nm		5.4mb		
AVF	83.93	35 iPc	23 00.70	-0.2		
	1.3s	25.25nm		5.3mb		
MAF	83.98	35 iPc	23 01.20	0.0		
	1.1s	34.20nm		5.5mb		
LFF	84.04	37 iPc	23 02.10	0.7		
	1.1s	39.05nm		5.6mb		
VITF	84.04	32 P	23 01.41	0.0		
LBF	84.07	34 iPc	23 01.50	-0.2		
	1.4s	21.80nm		5.2mb		
RJF	84.15	37 iPc	23 02.10	0.1		
	1.0s	20.00nm		5.3mb		
Z	19s	0.25um		4.6Msz		
GWF	84.16	31 P	23 02.01	0.0		
SMF	84.26	34 eP	23 02.30	-0.3		
	1.2s	17.85nm		5.2mb		
HAU	84.36	32 eP	23 03.10	0.1		
	1.0s	16.00nm		5.2mb		
Z	19s	0.17um		4.5Msz		
CLL	84.42	27 iPc	23 03.40	0.2		
	1.7s	40.00nm		5.4mb		
		e	23 21.00			
MOX	84.44	28 iPc	23 03.70	0.3		
	1.8s	44.00nm		5.4mb		
LPO	84.44	37 eP	23 03.90	0.4		
	1.1s	19.55nm		5.2mb		
CDF	84.45	32 P	23 03.42	-0.1		
BSF	84.68	32 eP	23 04.80	0.0		
	1.1s	22.00nm		5.3mb		
CAF	84.70	37 eP	23 05.00	0.2		
	1.1s	19.55nm		5.2mb		
HOF	84.80	28 eP	23 05.80	0.6		
MOF	84.82	32 P	23 05.72	0.3		
GRF	85.05	29 ePc	23 07.30	0.9		
	1.5s	49.00nm		5.5mb		
Z	18s	0.10um		4.2Msz		
		e(S)	34 00.00			
LOMF	85.07	32 P	23 06.33	-0.3		

TOL	85.09	43 iP	23 07.50	0.7		
BRG	85.12	27 iPc	23 06.80	0.1		
	1.2s	32.00nm		5.4mb		
		e	23 14.80			
EPF	85.21	39 eP	23 07.70	0.3		
	1.1s	12.20nm		5.0mb		
KSP	85.98	25 eP	23 11.80	0.7		
PRU	86.06	27 P	23 12.10	0.6		
	1.5s	16.60nm		5.0mb		
		e	23 36.00			
KHC	86.41	28 eP	23 14.00	0.7		
	1.5s	9.80nm		4.8mb		
		e	25 04.50			
LPL	86.43	34 eP	23 14.40	0.7		
LPG	86.46	34 eP	23 14.10	0.2		
OBN	87.47	12 eP	23 18.00	-0.2		
	2.0s	********nm		8.6mb X		
Z	22s	0.60um		5.0Msz		
N	22s	0.30um				
SOB1	87.66	103 eP	23 19.30	-0.5		
LRG	87.84	35 eP	23 19.60	-0.6		
Z	19s	0.20um		4.5Msz		
KRA	87.88	24 eP	23 20.20	-0.1		
FRF	87.90	35 iPc	23 20.70	0.2		
	1.0s	8.00nm		5.0mb		
LMR	88.01	35 eP	23 20.40	-0.6		
	0.9s	6.55nm		5.0mb		
ZST	88.49	26 eP	23 23.10	-0.2		
SPC	88.73	24 eP	23 24.80	0.1		
SRO	89.25	26 iP	23 27.30	0.4		
VBY	90.05	29 e(P)	23 29.00	-1.7		
TIA	90.07	316 eP	23 30.50	-0.4		
BTO	90.50	324 eP	23 32.00	-1.0		
TIY	91.49	320 Pd	23 37.80	0.2		
GBA	127.73	337 PKPd	29 36.30	-1.0		
	0.7s	4.10nm				
POF	146.91	90 ePKP	30 30.00	18.1		
KRI	147.99	61 iPKPd	30 17.50	3.4		
MAW	148.09	183 iPKPd	30 15.40	2.8		
	0 9s	19.00nm				
BUL	149.35	67 iPKPd	30 14.10	-2.1		
KIM	150.59	86 iPKPc	30 22.00	4.1		
FRS	151.40	87 iPKPc	30 24.70	5.9		
	0.7s	17.12nm				
BLF	151.87	86 ePKP	30 24.00	4.2		
PRY	152.02	80 ePKP	30 17.00	-3.1		
SEK	152.73	83 iPKPd	30 29.40	8.4		
	1.2s	39.06nm				
	128 obs. ossocioted					

& SEP 17, 1991 21h 31m 08.66s
63.121 N 149.656 W
DEPTH = 85.1km
CENTRAL ALASKA (1)
<AEIC>.

HUR	0.14	176 eP	31 20.91	1.6		
		S	31 30.30			
TRF	0.44	320 iP	31 22.87	0.1		
		eS	31 33.80			
RND	0.46	51 iP	31 22.60	-0.3		
		eS	31 33.08			
MCK	0.69	28 eP	31 24.52	-0.4		
		eS	31 37.75			
KTH	0.72	308 iP	31 24.95	-0.3		
		eS	31 37.25			
CUT	0.77	202 iP	31 25.53	-0.2		
		eS	31 38.15			
GHO	1.40	166 eP	31 33.32	0.0		
		eS	31 52.84			
SKT	1.44	218 iP	31 33.09	-0 7		
		eS	31 53.46			
SML	1.45	154 eP	31 33.81	-0.2		
PWA	1.48	184 eP	31 34.68	0.4		
		eS	31 55.60			
WRH	1.52	26 eP	31 33.63	-1.2		
PLRM	1.55	171 eP	31 35.78	0.5		
CCB	1.74	27 eP	31 36.01	-1.7		
SUA	1.74	197 eP	31 37.89	0.0		
		eS	32 01.96			
HDA	1.76	42 eP	31 36.87	-1.2		
		eS	32 00.82			
KNK	1.80	161 eP	31 38.63	0.0		
		eS	32 02.54			
PMS	1.88	179 eP	31 41.25	1.5		
TOA	1.91	121 eP	31 40.28	0 2		
PAX	1.91	93 eP	31 40.12	-0.1		

		eS	32 04.50			
MDM	1.95	18 eP	31 39.98	-0.6		
FBA	1.97	24 eP	31 38.61	-2.2		
SDG	1.98	106 eP	31 41.34	0.3		
NCG	2.08	215 eP	31 41.84	-0.6		
GLM	2.12	27 eP	31 41.53	-1.4		
BGL	2.26	216 eP	31 45.33	0.4		
CKL	2.31	214 eP	31 45.71	0.2		
KLU	2.39	131 eP	31 45.45	-1.2		
VZW	2.53	143 eP	31 47.52	-1.0		
VLZ	2.53	140 eP	31 46.74	-1.7		
GLI	2.55	151 eP	31 47.25	-1.5		
SLKM	2.64	186 eP	31 49.94	0.0		
FID	2.81	146 eP	31 50.71	-1.7		
KNIM	2.93	161 eP	31 52.56	-1.4		
RDW	3.04	211 eP	31 55.52	-0.2		
GLB	3.21	119 eP	31 56.61	-1.3		
LTI	3.21	164 eP	31 56.03	-1.8		
CNPM	3.69	193 eP	32 04.03	-0.4		
	37 obs. ossocioted					

% SEP 17, 1991 21h 38m 10.53± 2.24s
36.197 N ±14.7km 5.994 W ±12.0km
DEPTH = 10.0km (geophysicist)
STRAIT OF GIBRALTAR (385)

CNIL	0.18	345 eP	38 13.00	-1.5		
PLAT	0.21	112 eP	38 15.00	0.0		
MOMI	0.25	61 eP	38 15.00	-0.9		
EJIF	0.49	59 eP	38 21.50	0.9		
		eS	38 40.00			
ALJ	0.57	33 eP	38 20.00	-2.2		
GIBL	0.63	3 eP	38 25.00	1.8		
LIJA	0.84	34 eP	38 27.50	0.7		
EPRU	0.98	38 eP	38 30.00	0.8		
		eS	38 46.00			
EVAL	1.51	337 eP	38 38.00	0.4		
S.D. = 1.5 on 9 of 9 obs.						

---

* SEP 17, 1991 22h 08m 01.04± 1.37s
3.086 S ±20.7km 139.263 E ±19.9km
DEPTH = 33.0km (normol)
4.4mb (2 obs.)
IRIAN JAYA, INDONESIA (201)

JAY	1.55	69 iP	08 26.00	-0.6		
	0.7s	631.70nm				
		i(S)	08 48.70			
MTN	12.60	219 eP	11 00.10	-0.7		
QIS	17.37	179 eP	12 03.00	0.3		
		e	15 25.00			
WR2	17.43	196 eP	12 03.20	-0.2		
	0.5s	22.10nm		4.5mb		
		i	12 07.60			
		i	12 17.90			
		eS	15 22.20			
ASPA	21.11	194 iPc	12 45.60	0.3		
	0.7s	10.30nm		4.3mb		
		eS	16 39.10			
WARB	25.97	207 iPd	13 32.40	-0.1		
CNCB	146.61	127 ePKP	27 46.00	5.0X		
LPB	146.67	127 PKP	27 42.00	1.1		
ZOBO	146.79	126 PKP	27 46.00	4.7X		
S.D. = 0.8 on 7 of 9 obs.						

& SEP 18, 1991 00h 56m 06.33s
58.919 N 154.445 W
DEPTH = 118.9km
ALASKA PENINSULA (12)
<AEIC>.

MCNL	0.27	12 iP	56 22.54	0.8		
		iS	56 34.88			
CDD	0.42	88 iP	56 23.04	-0.9		
		iS	56 36.49			
AUI	0.67	51 eP	56 24.77	-0.8		
		iS	56 38.78			
AUW	0.68	48 iP	56 24.87	-0.8		
		eS	56 39.09			
AUH	0.68	49 eP	56 25.47	-0.3		
AGU	0.68	49 eP	56 25.14	-0.7		
AUP	0.69	49 eP	56 25.38	-0.5		
AUL	0.70	48 eP	56 25.03	-0.8		
AUE	0.71	51 eP	56 25.13	-0.7		
OPT	0.96	40 iP	56 27.32	-0.9		
		eS	56 43.73			
SYI	1.11	105 eP	56 28.57	-1.1		

			eS	56 45.61		
INW	1.33	30	iP	56 30.73	-1.5	
			eS	56 49.73		
INE	1.35	31	iP	56 30.93	-1.5	
KDC	1.56	138	iP	56 33.09	-1.7	
			eS	56 54.99		
HOM	1.62	62	eP	56 32.90	-2.5	
			eS	56 55.81		
RED	1.73	29	eP	56 35.22	-1.7	
CNPM	1.76	68	eP	56 35.55	-1.7	
			eS	56 57.45		
RS1	1.77	28	iP	56 35.91	-1.6	
			eS	56 59.24		
RS2	1.77	28	iP	56 35.88	-1.7	
RSO	1.77	28	iP	56 35.88	-1.7	
RDW	1.77	27	iP	56 35.92	-1.7	
REF	1.81	29	iP	56 36.25	-1.7	
			eS	56 59.62		
RDN	1.81	27	iP	56 36.33	-1.7	
NCT	1.82	24	iP	56 36.29	-1.7	
DFR	1.90	27	iP	56 37.20	-1.8	
NNL	1.96	54	eP	56 38.69	-1.0	
SVW	2.27	345	eP	56 42.27	-1.5	
			eS	57 10.30		
CKL	2.52	24	iP	56 45.06	-1.9	
SPU	2.57	27	eP	56 46.01	-1.6	
BGL	2.57	23	iP	56 45.90	-1.7	
SLKM	2.67	52	eP	56 46.29	-2.6	
SEW	2.81	63	eP	56 48.59	-2.1	
			eS	57 19.02		
SUA	3.15	34	eP	56 52.89	-2.5	
			eS	57 28.68		
PMS	3.38	44	eP	56 55.48	-2.9	
			eS	57 31.44		
SKT	3.39	24	eP	56 56.17	-2.4	
LTI	3.55	69	eP	56 57.77	-2.8	
PWA	3.56	38	eP	56 57.65	-3.1	
KNIM	3.70	64	eP	56 59.04	-3.6	
PLRM	3.77	42	eP	56 58.76	-4.8	
KNK	3.90	48	eP	57 01.54	-3.9	
			eS	57 43.17		
GHO	3.96	41	eP	57 02.15	-4.2	
TTA	4.10	350	eP	57 04.75	-3.4	
GLI	4.19	59	eP	57 04.93	-4.4	
SML	4.20	44	eP	57 05.19	-4.2	
FID	4.42	62	eP	57 07.78	-4.6	
VZW	4.51	58	eP	57 10.02	-3.6	
VLZ	4.64	58	eP	57 11.64	-3.7	
KTH	4.95	19	eP	57 16.62	-3.1	
TRF	4.97	22	eP	57 16.94	-3.2	
KLU	4.97	55	iP	57 16.22	-3.8	
			eS	58 08.74		
TOA	5.19	48	iP	57 19.40	-3.5	
HMT	5.36	70	eP	57 21.85	-3.4	
SDG	5.67	47	eP	57 26.38	-3.1	
GLB	5.88	60	eP	57 28.71	-3.7	
BALA	5.89	234	eP	57 36.50	4.0	
CROM	5.99	67	eP	57 30.50	-3.6	
WAX	6.07	70	eP	57 31.19	-3.9	
NEA	6.22	22	eP	57 32.14	-4.9	
WRH	6.34	26	eP	57 33.46	-5.2	
CCB	6.55	26	eP	57 36.24	-5.3	
HDA	6.56	30	eP	57 36.60	-5.0	
YAH	6.60	72	eP	57 38.86	-3.6	
MDM	6.73	23	eP	57 38.80	-5.2	
CTGM	6.90	67	eP	57 43.78	-2.7	
GLM	6.93	26	eP	57 41.68	-5 1	

65 obs. associated

% SEP 18, 1991 01h 13m 34.90± 0.76s
44 349 N ± 5.9km 7.368 E ± 7.7km
DEPTH = 5.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.4 (GEN).

STV	0.11	197	P	13 37.20	-0.1	
			S	13 38.54		
ENR	0.13	163	P	13 37.41	-0.2	
			S	13 38.90		
PZZ	0.25	309	P	13 40.48	0.5	
			S	13 43.97		
ROB	0.36	98	P	13 42.59	0.3	
			S	13 48.23		
BHB	0.50	351	P	13 44.33	-0.6	
			S	13 51.97		

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

---

* SEP 18, 1991 01h 24m 47.41± 2.42s
7.052 S ±18.4km 128.999 E ±18.0km
DEPTH = 167.9 ± 25.3 km
4.9mb (4 obs.)
BANDA SEA (280)

MTN	6.13	160	iPc	26 17.30	0.5	
KUPT	6.16	240	eP	26 18.60	1.4	
			eS	27 23.00		
KNA	8.65	181	eP	26 47.90	-2.4	
			iS	28 16.00		
WR2	13.84	158	iPc	27 55.80	-1.9	
	0.4s		33.00nm		5.1mb	
			eS	30 22.50		
OIS	16.91	144	eP	28 37.00	1.3	
	0.3s		11.00nm		4.7mb	
			iS	31 27.70		
ASPA	17.18	165	iPd	28 39.90	0.9	
	0.7s		62.20nm		5.1mb	
			eS	31 33.00		
WARB	19.16	186	eP	29 00.50	0.1	
CTAO	21.17	129	iPc	29 25.10	4.5X	
STK	27.36	156	eP	30 19.90	1.2	
	0.5s		2.90nm		4.2mb	
CHG	39.23	311	eP	32 02.00	0.9	
LZH	48.99	333	(P)	33 19.00	0.0	
GUN	54.24	312	P	33 58.60	-0.1	
PKI	54.41	311	P	33 59.40	-0.5	
KKN	54.62	311	P	34 00.60	-0.7	
DMN	54.65	311	P	34 01.20	-0.4	
GKN	55.22	311	P	34 05.20	-0.3	
CNCB	150.95	145	PKP	44 27.00	9.8X	
LPB	151.10	144	ePKP	44 33.00	15.8X	
ZOBO	151.29	144	ePKP	44 26.00	8.3X	

S.D. = 1.3 on 15 of 19 obs.

? SEP 18, 1991 01h 31m 00.45± 0.97s
36.745 N ± 7.0km 5.559 W ± 9.9km
DEPTH = 10.0km (geophysicist)
STRAIT OF GIBRALTAR (385)
mbLg 2.6 (MDD).

EJIF	0.30	166	iPgc	31 06.80	0.0	
			eSg	31 10.80		
EPRU	0.34	50	ePg	31 07.30	-0.2	
			eSg	31 13.20		
EHOR	1.10	13	ePg	31 21.50	0.3	
			eSg	31 36.00		
EVAL	1.27	312	ePn	31 23.80	-0.2	
			eSn	31 40.50		

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

? SEP 18, 1991 01h 40m 33.79± 3.05s
37.581 N ±33.3km 20.013 E ±11.7km
DEPTH = 10.0km (geophysicist)
IONIAN SEA (399)
MD 3.8 (THE).

IGT	1.96	7	ePd	41 08.88	1.4	
			iS	41 31.10		
AGG	2.32	51	ePc	41 14.52	1.8	
SOI	3.17	280	P	41 24.00	-0.7	
LIT	3.17	37	ePd	41 26.08	1.4	
			eS	42 02.10		
LCI	3.18	330	P	41 29.60	4.8X	
ROI	3.35	307	P	41 32.60	5.3X	
CZI	3.46	299	P	41 27.60	-1.1	
TDS	3.55	307	P	41 33.50	3.5X	
			eSn	42 15.80		
OHR	3.58	10	ePn	41 28.70	-1.8	
THE	3.82	36	ePc	41 32.96	-0.9	
SOH	4.15	38	ePd	41 38.16	-0.4	
KNT	4.22	31	ePc	41 38.84	-0.7	
SRS	4.49	37	ePd	41 42.00	-1.4	
SKO	4.52	14	ePn	41 57.50	13.7X	
SGO	4.72	311	P	41 49.00	2.4	

S.D. = 1.6 on 11 of 15 obs.

---

* SEP 18, 1991 01h 54m 41.84± 1.15s
40.874 N ±14.6km 19.652 E ±10.1km
DEPTH = 10.0km (geophysicist)
ALBANIA (391)

OHR	0.90	74	iPg	54 57.70	-1.4	
			iSg	55 11.50		
FNA	1.31	93	ePd	55 05.45	-0.7	
LCI	1.40	248	P	55 06.80	-0.6	
			eSn	55 26.10		
IGT	1.44	159	iPc	55 08.81	0.9	
SKO	1.73	50	iPn	55 13.70	1.5	
BRT	1.86	271	P	55 19.60	5.6X	
			eSn	55 46.40		
LIT	2.30	109	iPc	55 25.29	4.9X	
KNT	2.47	82	ePc	55 23.14	0.3	

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

? SEP 18, 1991 04h 33m 55.34± 5.20s
15.959 N ±46.5km 98.289 W ±19.2km
DEPTH = 33.0km (normal)
4.2mb (1 obs.)
OFF COAST OF GUERRERO, MEXICO (65)

OXX	1.87	53	iP	34 26.51	0.7	
			iS	34 56.67		
III	2.66	335	iP	34 37.30	0.4	
			iS	35 11.90		
IIT	3.05	360	(P)	34 45.00	2.4X	
			(S)	35 24.13		
PPM	3.11	354	eP	34 43.17	-0.5	
			iS	35 27.09		
IISM	3.14	16	iP	34 42.10	-1.5	
			iS	35 32.71		
IIA	3.19	354	(P)	34 46.00	1.6	
			iS	35 29.42		
LVVM	4.15	25	(P)	35 09.50	11.6X	
			(S)	36 04.29		
MRX	4.64	324	(P)	35 11.70	6.8X	
			(S)	36 09.43		
GOL	24.45	347	P	39 11.90	-0.8	
	0.9s		6.82nm		4.2mb	

S.D. = 1.4 on 6 of 9 obs.

& SEP 18, 1991 06h 27m 22.36s
59.867 N 153.218 W
DEPTH = 120.4km
SOUTHERN ALASKA (2)
<AEIC>.

INW	0.21	12	eP	27 38.59	0.8	
			iS	27 51.41		
INE	0.21	22	ePc	27 38.66	0.8	
OPT	0.22	182	iPd	27 38.64	0.9	
			eS	27 50.64		
AUL	0.50	193	iPd	27 39.85	-0.7	
AUW	0.51	195	iPd	27 39.94	-0.7	
AUE	0.52	189	iPd	27 39.84	-0.8	
			eS	27 53.86		
AUP	0.52	192	ePd	27 40.03	-0.8	
AUH	0.52	193	iPd	27 40.03	-0.8	
AGU	0.52	192	ePd	27 39.98	-0.9	
AUI	0.54	191	iPd	27 40.00	-0.9	
			eS	27 53.58		
RED	0.60	22	ePc	27 40.54	-0.8	
			eS	27 54.33		
RS1	0.64	21	iPc	27 40.95	-0.8	
			eS	27 55.46		
RS2	0.64	21	iPc	27 41.00	-0.8	
			eS	27 55.97		
RSO	0.64	21	iPc	27 40.93	-0.9	
			iS	27 55.44		
RDW	0.65	18	iPc	27 40.96	-0.9	
REF	0.68	22	iPc	27 41.19	-0.9	
			iS	27 56.03		
RDN	0.69	19	iPc	27 41.30	-0.8	
NCT	0.71	12	iPc	27 41.44	-0.8	
			eS	27 56.43		
DFR	0.77	20	iPc	27 41.90	-0.8	
RDT	0.82	29	iPc	27 42.24	-0.8	
HOM	0.82	104	iPd	27 42.63	-0.4	
			eS	27 58.45		
MCNL	0.89	220	iPd	27 42.42	-1.3	
			eS	27 58.11		
CDD	0.97	193	iPd	27 43.26	-1.2	
			eS	27 59.98		
NNL	0.98	79	ePc	27 44.75	0.2	
CNPM	1.06	108	iPd	27 44.45	-0.9	
			iS	28 01.33		
SYI	1.33	161	iPd	27 47.40	-0.8	
			S	28 06.84		
CKL	1.40	18	iPc	27 48.54	-0.7	
			eS	28 09.45		
SPU	1.44	23	ePc	27 48.65	-0.9	
			eS	28 09.41		
BGL	1.46	16	iPc	27 49.36	-0.5	

18d 06h

NCG	1.63	18	ePd	27	51.39	-0.4
SLKM	1.63	65	eP	27	50.69	-1.1
SVW	1.72	317	iPc	27	51.32	-1.6
SEW	1.91	81	ePc	27	54.13	-1.0
			eS	28	17.80	
SUA	2 01	36	ePc	27	55.89	-0.7
			iS	28	23.01	
PMS	2.27	51	iPc	27	58.77	-1.1
			eS	28	27.43	
SKT	2.28	21	eP	27	58.82	-1.0
PWA	2.43	41	eP	28	01.73	0.0
PLRM	2.65	47	eP	28	03.53	-1.1
LTI	2.70	84	eP	28	04.06	-1.3
KNIM	2.79	78	eP	28	04.26	-2.2
KNK	2.81	54	eP	28	04.51	-2.3
GHO	2.84	46	eP	28	05.64	-1.7
CUT	2.92	28	eP	28	07.57	-0.7
SML	3.08	49	eP	28	09.16	-1.3
GLI	3.21	69	eP	28	10.56	-1.5
FID	3.47	72	eP	28	13.78	-1.8
VZW	3.51	67	eP	28	15.15	-1.1
VLZ	3.63	67	eP	28	16.10	-1.7
KLU	3.94	62	ePc	28	19.53	-2.5
SGAM	4.05	78	eP	28	22.38	-1.1
TOA	4.10	54	eP	28	22.71	-1.5

51 obs. ossociated

---

* SEP 18, 1991 07h 01m 32.43± 1.29s
24.401 N ± 9.5km 123.158 E ±12.1km
DEPTH = 33.0km (normal)
4.6mb (3 obs.)
SOUTHWESTERN RYUKYU ISLANDS (246)

TWC	1.21	280	iPd	01	52.80	-0.3
			eS	02	05.40	
TWD	1.46	258	ePc	01	56.40	-0.3
			eS	02	12.50	
TWZ	1 59	296	eP	01	59.50	0.8
TWK	2.69	246	ePc	02	14.80	0 4
QZH	4.19	278	ePn	02	35.00	-0.6
SSE	6.89	346	Pd	03	14.90	1.2
Z	20s	0.90um				
			S	04	32.50	
NJ2	8.51	335	Pc	03	36.00	-0.4
Z	22s	0.40um				
			pP	03	43.50	
			sP	03	50.00	
GYA	15.04	281	P	05	10.00	5.6X
			S	07	55.00	
XAN	15.69	311	P	05	14.00	1.3
TIY	16.12	328	eP	05	23.90	5.7X
Z	22s	0.50um				
CD2	18.36	295	eP	05	46.20	0.0
HHC	19.06	332	eP	05	53.00	-1.7
LZH	20.31	309	eP	06	08.00	-0.5
	2.0s	42.00nm			4.4mb	
CHG	23.17	261	ePc	06	37.70	0.5
	1.0s	11.25nm			4.3mb	
CHTO	23.17	261	ePc	06	37.00	-0.2
GTA	24.73	313	eP	06	52.00	-0.3
			pP	07	06.80	63kmX
FFC	92 20	24	iPd	14	40.10	0.1
	0.6s	8.00nm			5.3mb	
S.D. = 0.8 on 15 of 17 obs.						

SEP 18, 1991 07h 13m 06.43± 0.59s
38.181 N ± 6.4km 134.011 E ± 5.2km
DEPTH = 423.4 ± 6.7 km
4.9mb (28 obs.)
SEA OF JAPAN (660)

MAT	3.72	115	iPd	14	17.40	-0.6
			eS	15	15.00	
MDJ	7.24	334	Pc	14	54.40	0.4
	1.0s	200.00nm			5.2mb	
CN2	8.57	314	iPc	15	09.60	0.6
	1.0s	70.00nm			4.9mb	
			S	16	49.00	
SNY	8 79	298	iPc	15	13.20	1.6
	0.8s	20.00nm			4.5mb	
			S	16	55.00	
DL2	9.73	278	P	15	20.00	-2.3
	1.0s	300.00nm			5.7mb	
SSE	12.70	240	Pd	15	55.50	0.1
	1.5s	200.00nm			5.3mb	
TIA	13.61	267	Pd	16	05.80	0.6
	1.1s	100.00nm			5.2mb	

			S	18	32.50	
NJ2	13.82	248	Pd	16	08.20	0.8
TIY	17.03	275	iPd	16	40.30	-0.3
	0.7s	100.00nm			5.3mb	
HHC	17.52	286	eP	16	45.20	-0.3
	1.2s	50.00nm			4.8mb	
BTO	18.69	285	eP	16	56.40	-0.7
XAN	20.67	266	iPd	17	16.00	-0.2
	0.5s	80.00nm			5.5mb	
LZH	24.09	274	Pc	17	48.00	0.0
	1.5s	140.00nm			5.2mb	
GYA	25.80	251	P	18	02.40	-1.0
	0.8s	60.00nm			5.1mb	
CD2	25.88	263	P	18	02.60	-1.3
	0.6s	70.00nm			5.3mb	
GTA	26.59	283	iPd	18	09.50	-0.9
			PcP	21	22.00	
			S	22	13.20	
OIZ	28.39	235	eP	18	27.90	1.7
WMO	35.04	294	P	19	23.20	0.3
CHG	36.07	248	iPd	19	33.00	1.4
	0.7s	31.34nm			4.8mb	
NST	37.30	242	eP	19	44.00	2.3
GUN	41.23	270	P	20	14.48	0.3
	0.4s	74.00nm			5.4mb	
PKI	41.75	270	P	20	18.08	-0.4
	0.4s	17.00nm			4.8mb	
KKN	41.75	270	P	20	18.36	0.0
	0.6s	130.00nm			5.5mb	
DMN	41.97	270	P	20	20.02	-0.1
	0.4s	19.00nm			4.8mb	
BRW	47.72	24	ePc	21	04.80	0.8
IMA	48.72	31	ePc	21	12.30	0.4
	1.1s	16.80nm			4.3mb	
PMR	51.22	37	ePc	21	29.80	-0.5
	1.1s	28.60nm			4.5mb	
FBA	51.28	32	iPc	21	31.10	0.3
			pP	22	59.00	440kmX
HYB	52.43	263	iPd	21	39.50	-0.4
TOA	52.50	36	ePc	21	40.50	0.6
GBA	55.53	260	Pd	22	02.10	0.2
	1.1s	31.80nm			4.6mb	
KOD	57.57	257	eP	22	16.60	0.1
WR2	57.82	180	iPd	22	16.70	-0.9
	0.2s	8.60nm			4.8mb	
MBL	60.51	195	iPd	22	35.20	-0.5
	0.4s	5.00nm			4.3mb	
ASPA	61.52	180	iPd	22	42.20	-0.2
	0.5s	10.10nm			4.6mb	
KAF	64.50	330	iP	23	00.00	-1.2
	0.4s	6.00nm			4.6mb	
FORR	68.89	185	iPd	23	28.60	0.0
	0.4s	30.00nm			5.3mb	
HFS	70.50	333	eP	23	36.70	-1.3
	0.7s	11.00nm			4.6mb	
Z	17s	0.10um			4.1MszX	
			LR	48	21.00	
PNT	71.33	42	eP	23	43.00	-0.1
	0.5s	3.00nm			4.2mb	
FFC	75.78	30	iPc	24	08.30	0.0
	0.6s	10.00nm			4.7mb	
LRM	77.29	41	ePc	24	17.70	0.6
ZOBO	150.75	48	PKP	32	12.00	6.4X
LPB	150.98	48	PKP	32	13.00	7.2X
CNCB	151.26	48	PKP	32	14.00	7.6X
S.D. = 0.9 on 41 of 44 obs.						

SEP 18, 1991 07h 45m 18.75± 0.58s
45.515 N ± 5.9km 21.018 E ± 5.3km
DEPTH = 10.0km (geophysicist)
ROMANIA (358)
MG 3.4 (BEO).

TIM	0.26	33	iPc	45	25.00	0.7
BZS	0.43	76	iPc	45	25.50	-2 1
BEO	0.80	210	iPg	45	34.50	0.2
			iSg	45	47.80	
SSR	0.83	142	iPd	45	33.00	-1 8
DEV	1.37	74	iPd	45	43.00	-0.9
SRE	1.77	118	eP	45	50.50	0.9
TNR	2.29	85	ePd	45	58.00	0.8
COZ	2.35	94	iPc	45	58.00	-0.2
BUD	2.40	326	ePn	45	58.40	-0.3
PSZ	2.53	343	iPnc	46	00.20	-0.3
BMR	2.75	37	ePd	46	16.00	12.3X
MTUR	2.87	94	eP	46	07.00	1.6
MLR	3.46	89	eP	46	15.00	1.1

PTJ	3.57	278	e(P)	46	15.20	-0.1
VRI	4.01	83	ePd	46	17.00	-4.6X
OHR	4.41	182	ePn	46	27.50	0.3
S.D. = 1.1 on 14 of 16 obs.						

---

* SEP 18, 1991 08h 13m 16.50± 0.72s
5.477 S ±11.6km 151.099 E ± 9.3km
DEPTH = 115.6 ± 8.8 km
5.2mb (3 obs.)
NEW BRITAIN REGION, P.N.G. (192)

RAB	1.66	40	iPc	13	46.00	0.0
	0.6s	213.33nm				
			iS	14	06.00	
LAT	4.24	254	eP	14	20.70	0.5
PMG	5.53	225	eP	14	37.00	-0.8
			eS	15	41.00	
OIS	18.69	216	eP	17	28.20	-0.5
	0.5s	10.00nm			4.4mb	
MTN	21.02	248	eP	17	52.50	-0.1
WR2	21.72	227	iPd	17	59.90	0.3
	0.4s	63.30nm			5.3mb	
DZM	22.19	139	iPc	18	04.90	0.6
KNA	24.18	243	iPc	18	24.30	0.8
ASPA	24.52	221	iPc	18	27.40	0.6
	0.6s	84.90nm			5.4mb	
			eS	22	49.10	
WAR8	31.15	226	iPc	19	26.70	0.2
FORR	33.23	218	eP	19	43.50	-1.0
MBL	34.08	240	eP	19	51.80	-0.2
FBA	83.14	22	P	25	30.00	-0.5
GOL	103.89	51	(Pdiff	27	18.20	10.5X
S.D. = 0.7 on 13 of 14 obs.						

---

* SEP 18, 1991 08h 48m 55.95± 0.50s
52.645 N ±10.0km 158.230 E ± 8.8km
DEPTH = 33.0km (normal)
5.0mb (32 obs.)
NEAR EAST COAST OF KAMCHATKA (218)

YAK	17.88	313	eP	53	06.40	3.1
			i	53	40.00	
			e	56	40.00	
MBC	37.90	23	eP	56	12.50	1.5
LRM	55.12	58	eP	58	27.40	0.1
CHTO	56.70	257	(P)	58	39.00	0.4
GUN	57.81	275	P	58	45.66	-1.1
KKN	58.26	275	P	58	48.68	-1.1
PKI	58.34	275	P	58	49.64	-0.8
GKN	58.50	276	P	58	50.92	-0.4
DMN	58.50	275	P	58	50.92	-0.5
NUR	61.24	336	eP	59	16.00	6.5X
PV09	62.00	63	P	59	15.30	0.0
NAO	63.92	343	P	59	25.00	-2.3
	0.5s	2.10nm			4.5mb	
HFS	64.02	341	eP	59	26.10	-1.9
	0.4s	5.80nm			5.0mb	
ANMO	66.06	64	P	59	42.00	0.3
	1.0s	5.00nm			4.6mb	
SCH	66.59	26	eP	59	43.00	-1.6
EKA	71.29	349	Pc	00	13.00	-0.5
	0.4s	7.10nm			5.1mb	
WR2	75.21	203	iPd	00	37.50	0.7
	0.3s	6.00nm			5.1mb	
			e	01	04.80	
CDF	76.33	341	eP	00	42.40	-0.6
	0.6s	3.60nm			4.6mb	
HAU	76.90	341	eP	00	45.50	-0.6
	0.4s	2.30nm			4.6mb	
FLN	77.36	346	iPd	00	48.00	-0.6
	0.4s	6.85nm			5.0mb	
LDF	77.47	345	iPd	00	49.86	0.7
	0.4s	4.60nm			4.9mb	
GRR	77.78	346	iPd	00	50.60	-0.3
	0.4s	8.00nm			5 1mb	
LOR	78.09	342	iPd	00	52.60	0.0
	0.4s	7.75nm			5.1mb	
LPF	78.16	346	iPd	00	52.80	-0.1
	0.6s	12.65nm			5.1mb	
LBF	78.34	342	iPd	00	53.70	-0.4
	0.6s	6.30nm			4.8mb	
SSF	78.35	343	iPd	00	54.10	0.0
	0.6s	8.10nm			4.9mb	
AVF	78.64	343	iPd	00	55.50	-0.1
	0.6s	11.25nm			5.1mb	
SMF	78.69	342	iPd	00	55.30	-0.6
	0.6s	3.60nm			4.6mb	

```
ASPA    78.90 203 iPc    00 58.70    1.4
        1.4s      7.90nm            4.5mb
BGF     78.95 343 iPd    00 57.40    0.0
        0.4s      4.60nm            4.8mb
LPL     79.20 340 iPd    00 59.50    0.5
        0.6s      6.30nm            4.8mb
LPG     79.22 340 iPd    00 59.60    0.4
        0.6s      6.75nm            4.8mb
TCF     79.33 343 iPd    00 59.70    0.3
        0.6s      9.00nm            4.9mb
MAF     79.33 343 iPd    00 59.90    0.5
        0.4s     13.75nm            5.3mb
MFF     79.41 345 iPd    01 00.10    0.2
        0.4s      8.60nm            5.1mb
LSF     79.48 344 iPd    01 00.40    0.1
        0.7s     19.85nm            5.2mb
RJF     80.40 344 iPd    01 05.90    0.7
        0.6s      8.10nm            4.9mb
SBF     80.63 339 eP     01 06.00   -0.5
        0.6s      8.10nm            4.9mb
CAF     80.67 343 iPd    01 07.50    0.8
        0.4s     10.90nm            5.2mb
LFF     80.89 344 iPd    01 08.50    0.8
        0.6s     18.05nm            5.2mb
LPO     81.06 344 iPd    01 09.40    0.7
        0.6s     30.65nm            5.5mb
LMR     81.34 340 eP     01 11.00    0.9
        0.6s      7.20nm            4.9mb
PGF     81.53 338 eP     01 11.00   -0.3
        0.6s      5.40nm            4.7mb
EPF     82.81 344 iPd    01 18.20    0.3
        0.5s      8.00nm            5.1mb
     S.D. = 1.0  on  43 of  44 abs.
-----------------------------------------
%  SEP 18, 1991  08h 56m 32.05± 0.77s
   40.552 N ± 6.0km    22.506 E ± 7.5km
   DEPTH =  10.0km  (geophysicist)
 GREECE                            (364)

GRG     0.41 349 ePd     56 40.30   -0.2
                eS       56 46.42
LIT     0.45 182 ePc     56 41.46    0.2
                eS       56 48.50
KNT     0.68  26 ePd     56 46.00    0.5
                eS       56 55.00
FNA     0.89 285 ePc     56 49.02   -0.1
OUR     1.15 100 ePc     56 53.09   -0.4
     S.D. = 0.5  on   5 of   5 obs.
-----------------------------------------
   SEP 18, 1991  09h 48m 13.11± 0.19s
   14.646 N ± 3.7km    90.986 W ± 3.1km
   DEPTH =   5.0km  (geophysicist)
   5.7mb ( 68 abs.)  6.1Msz ( 29 abs.)
 GUATEMALA                         ( 70)
     Ms 6.2 (BRK). Mo=3.0*10**18 Nm
     (PPT). At least 25 peaple
     killed, more than 200 injured,
     1.000 homeless and extensive
     damage in the Pachuta-Salala
     area. Landslides blocked many
     roads in the epicentral area.
     Felt (IV) at Guatemala City.
     Also felt (II) at San Salvador,
     El Salvador.
     FAULT PLANE SOLUTION: P-Waves
      NP1:Strike=297 Dip=77 Slip=-175
      NP2:       206     85      -13
      Principal Axes:
       T                 Plg= 6  Azm=252
       P                    13       161
     Comment: The focal mechanism is
       poorly controlled and
       corresponds to strike-slip
       faulting with a small normal
       component. The preferred fault
       plane is not determined.
     MOMENT TENSOR SOLUTION
     Dep  17            No. of sta: 14
     Moment Tensor;   Scale 10**18 Nm
       Mrr=-0.14        Mtt=-1.39
       Mff= 1.53        Mrt= 0.75
       Mrf= 0.18        Mtf=-1.23
      Principal axes:
       T  Val=  1.99  Plg= 3  Azm= 69
       N        0.15      69      333
       P       -2.14      21      160
     Best Double Couple:Ma=2.1*10**18
      NP1:Strike=203 Dip=73 Slip= -14
      NP2:       297     77      -163
     CENTROID, MOMENT TENSOR    (HRV)
     Data Used: GDSN
     L.P.B.: 28S, 78C  M.W.: 19S, 36C
     Centroid Location:
     Origin Time        09:48:19.6 0.2
     Lat 14.79N 0.02 Lon  91.01W 0.02
     Dep  15.0 FIX Half-duration  5.7
     Moment Tensor;   Scale 10**18 Nm
       Mrr= 0.22 0.03  Mtt=-0.29 0.03
       Mff= 0.07 0.04  Mrt=-0.10 0.09
       Mrf= 1.63 0.09  Mtf=-1.43 0.03
      Principal Axes:
       T  Val=  2.26  Plg=35  Azm=239
       N       -0.16      42        8
       P       -2.10      28      127
     Best Double Couple:Ma=2.2*10**18
      NP1:Strike=270 Dip=42 Slip= 174
      NP2:        5      86       48

FUG     0.24 145 P       48 18.25    0.2
GCG     0.44  98 P       48 24.20    2.2
                S       48 30.38
TER     0.45 139 P       48 21.50   -0.7
SLP     0.69  82 P       48 28.30    1.4
JAT     0.71 243 P       48 25.75   -1.6
SBG     1.14 295 P       48 33.50   -1.7
                S       48 48.00
TPX     1.26 282 iP      48 34.35   -2.6
VSS     1.92 118 eP      48 48.00    1.1
SJAS    2.02 119 eP      48 49.50    1.2
LFU     2.02 116 eP      48 48.50    0.2
OZA     2.23 120 eP      48 51.00   -0.3
SCX     2.61 323 iP      49 02.41    5.7X
                iS      49 38.50
OXX     6.03 294 iP      49 46.92    1.6
LVVM    7.27 315 iP      50 01.64   -1.0
IISM    7.49 306 eP      50 05.50   -0.2
                (S)     51 34.30
IIT     8.25 303 (P)     50 18.11    1.5
PPM     8.53 302 iP      50 22.07    1.3
IIA     8.60 302 iP      50 21.20    0.0
                (S)     51 58.00
III     8.94 296 iP      50 28.10    2.0
                (S)     52 11.70
MRX    10.97 299 iP      50 55.80    1.9
UPA    12.54 115 iPd-    51 14.40   -0.8
        1.0s    210.00nm          6.3mb
     Z  18s     34.36um           4.0MszX
CGX    12.94 295 eP      51 24.91    4.3X
STH    14.02  74 ePd     51 35.90    1 1
                eS      55 47.70
HOJ    14.07  74 ePd     51 40.87    5.5X
GWJ    14.09  74 ePd     51 37.52    1.7
ANCC   17.78 127 eP      52 23.67    0.5
CLMC   17.79 126 ePd     52 23.66    0.2
HOBC   17.85 124 iPd     52 22.32   -1.8
HOOC   17.99 127 iPd     52 26.22    0.2
SILC   18.71 128 ePc     52 35.58    0.5
CUMC   18.79 135 ePc     52 36.36    0.2
PURC   18.93 129 iPd     52 37.95    0.1
PSO    19.00 134 eP      52 39.50    0.9
BMG    19.12 111 eP      52 39.50   -0.3
YANA   19.13 139 P       52 41.60    1.3
GGP    19.16 139 P       52 41.80    1.0
OUR    19.20 139 eP      52 42.00    0.9
BOG    19.41 119 iPd     52 44.00    0.4
                iS      56 22.00
UYO    19.69 351 iPd     52 46.50    0.3
ANGL   20.00 137 eP      52 41.20   -9.0X
PWLA   20.42   7 P       52 53.70   -0.2
SDV    20.72 104 iPc     52 54.90   -2.5
MEO    21.19 342 e(P)    52 59.80   -2.1
TOV    21.26 101 eP      53 02.50   -0.3
SIO    21.55 348 eP      53 03.40   -2.1
TUL    21.61 349 eP      53 06.10    0.0
        1.0s   1169.60nm          6.2mb
     Z  20s     21.53um           5.5Msz
     N  18s     16.37um
     E  22s     27.34um
                e       53 11.80   21kmX
                eS      57 04.00
                LR      00 55.00
GBTN   21.80  15 P      53 09.20    1.2
TKL    21.90  16 P      53 10.00    1 0
MORO   22.42  97 eP     53 09.20   -5.3X

ELC     22.60   4 P      53 15.80   -0.2
ACO     23.14 343 iPd    53 24.20    2.9X
FVM     23.25   1 P      53 24.00    1.7
CCM     23.32 359 ePc    53 24.29    1.3
                iS      57 37.52
CAR     23.83  97 eP     53 31.00    2.7
BLA     24.36  21 P      53 34.40    1.2
        1.3s   287.04nm           5.8mb
ANMO    24.55 328 P      53 36.00    0.8
CBN     26.38  25 eP     53 53.00    0.9
GLD     27.95 336 P      54 06.20   -0.6
        1.4s   121.62nm           5.5mb
GOL     27.97 336 P      54 06.40   -0.6
        1.5s   219.73nm           5.7mb
CLE     27.98  15 iP     54 09.00    2.3
GLA     28.37 314 P      54 10.10   -0.3
SCP     28.45  21 ePc    54 09.99   -1.1
TRN     29.12  94 eP     54 21.00    3.7X
DLA     29.26  14 P      54 17.75   -0.5
LDN     29.52  15 P      54 18.50   -2.1
ELF     29.64  14 P      54 20.45   -1.2
LVNJ    29.65  25 P      54 22.50    0.7
NNA     29.94 151 iP     54 25.00    0.3
        1.0s    76.00nm           5.5mb
PLM     29.96 313 eP     54 29.90    5.0X
PLM     29.96 313 P      54 23.80   -1.1
PT10    29.96 152 eP     54 26.00    1.2
PNJ     29.99  26 iP     54 25.60    0.8
GSC     30.99 316 eP     54 38.20    4.3X
GSC     30.99 316 ePc    54 34.87    1.0
                eS      59 45.20
MWC     31.26 313 eP     54 41.20    4.8X
RSSD    31.41 342 P      54 36.20   -1.5
     Z  20s      9.04um           5.4Msz
CLC     31.82 316 eP     54 45.60    4.5X
BW06    32.27 334 P      54 47.00    1.8
ISA     32.32 315 ePc    54 45.66    0.1
                iS      00 09.20
ABL     32.41 313 P      54 48.40    1.9
HRV     32.42  27 ePc    54 46.02   -0.2
                eS      00 01.77
SBC     32.55 312 eP     54 48.82    1.4
                eS      00 11.97
                e       05 11.12
BCH     33.19 313 P      54 54.30    1.2
BONR    33.52 319 P      54 56.50    0.3
PRI     34.08 314 eP     55 01.31    0.4
PRS     34.67 314 eP     55 04.72   -1.1
CMB     34.91 317 eP     55 08.49    0.6
                ePP     56 32.83
SAO     34.94 315 eP     55 10.66    2.5
MHC     35.38 315 eP     55 16.40    4.4X
     Z  20s     31.00um           6.1Msz
     N  20s     37.00um
     E  20s     10.00um
GCC     35.46 315 iPc    55 15.14    2.7
LRM     35.95 334 eP     55 17.00    0.1
PCC     35.96 315 eP     55 14.19   -2.6
BKS     36.06 316 eP     55 16.60   -1.0
        1.0s    48.00nm           5.3mb
     Z  20s     63.00um           6.4Msz
     N  20s     37.00um
     E  20s     50.00um
                ePP     56 53.00
                e       58 54.00
                iS      01 07.00
                eLQ     06 20.00
                eLR     08 36.00
ORV     36.48 319 eP     55 21.64    0.5
MIN     37.00 320 eP     55 25.90    0.3
WDC     37.72 319 iPc    55 30.13   -1.4
ZOBO    38.13 143 eP     55 34.40   -1.4
                ePP     57 03.53
                S       01 20.00
                LR      07 36.00
LPB     38.35 143 P      55 36.90   -0.6
        1.0s    60.00nm           5.3mb
                LR      07 46.00
FOX     38.61 318 eP     55 40.00    1.0
CNCB    38.64 143 P      55 39.00   -1.1
FHC     38.76 319 eP     55 42.22    1.9
NEW     39.86 333 P      55 50.40    1.0
        1.3s    30.66nm           4.8mb
CCH     40.17 142 Pd     55 50.30   -2.2
COR     40.51 324 ePc    55 55.03    0.4
                ePP     57 32.53
                iS      02 11.08
```

18d 09h

FFC		40.90	350	eP	55	57.00	-0.8	ETOR		79.79	50	eP	00	24.05	-0.2	CDR		84.82	46	ePc	00	50.00	-0.1
		0.5s		16.00nm			5.0mb	EVIA		79.85	53	eP	00	24.14	-0.5	RSL		84.88	44	P	00	49.91	-0.7
PNT		41.76	332	P	56	05.00	0.1	MFF		80.08	44	eP	00	23.90	-1.7	BBS		84.98	42	P	00	49.62	-1.3
SIV		42.43	135	P	56	08.40	-2.4			1.0s		32.00nm			5.2mb	LPL		84.99	44	eP	00	50.70	-0.6
PGC		43.14	329	eP	56	19.00	2.8X	BTH		80.71	48	Pc	00	30.00	1.0			1.2s		80.35nm			5.8mb
SCH		44.28	20	ePc	56	24.60	-0.8					i(pP)	00	33.00	10kmX	LPG		85.01	44	eP	00	50.90	-0.5
		1.2s		384.00nm			6.1mb	EGRA		80.81	49	eP	00	33.67	4.2X			1.2s		90.75nm			5.9mb
YKA		50.63	346	eP	57	14.10	-0.9	ECHE		80.84	52	eP	00	31.33	1.5	BNI		85.08	45	P	00	53.10	1.5
		0.7s		38.90nm			5.5mb	LFF		81.02	46	eP	00	29.20	-1.3	FEL		85.19	42	P	00	51.11	-0.9
PPD		53.31	132	eP	57	32.00	-3.6X			1.2s		101.15nm			5.7mb	RRL		85.19	45	P	00	53.77	1.5
				e	57	33.70	6kmX	EPF		81.12	48	eP	00	29.90	-1.3	LRG		85.29	46	eP	00	51.60	-0.9
SIT		53.94	332	eP	57	37.80	-1.9			1.3s		68.60nm			5.5mb			1.1s		58.60nm			5.7mb
	Z	20s		12.50um			6.0Msz	LSF		81.29	45	eP	00	29.90	-2.1		Z	22s		13.25um			6.3Msz
SOB1		55.03	112	eP	57	43.50	-5.0X			1.2s		44.65nm			5.4mb	LSD		85.30	44	P	00	52.84	0.0
				e	57	49.00	18kmX	LPO		81.38	46	eP	00	30.90	-1.6	COP		85.42	34	iPc	00	55.90	3.1X
VAO		57.06	130	ePd	57	59.60	-3.4X			1.2s		65.45nm			5.6mb			1.0s		88.00nm			5.9mb
				i	58	02.80	10kmX	SMY		81.43	322	P	00	45.00	12.5X		Z	21s		8.24um			6.1Msz
				e	58	11.20			Z	20s		6.00um			5.9Msz					iS	11	29.00	
				i	58	22.80		RJF		81.48	45	eP	00	31.40	-1.6	RSP		85.45	45	P	00	53.87	0.5
RKT		57.11	230	iP	58	03.00	-0.2			1.0s		50.00nm			5.5mb	FRF		85.46	46	eP	00	52.40	-1.0
		1.2s		115.00nm			5.8mb		Z	22s		13.25um			6.3Msz			1.2s		101.15nm			5.9mb
LPA		58.42	148	eP-	58	10.00	-2.2	EROO		81.62	50	eP	00	35.02	1.2	PZZ		85.52	45	P	00	55.51	1.7
	Z	20s		8.51um			5.9Msz	TCF		81.74	44	eP	00	32.70	-1.7	BHB		85.54	45	P	00	54.25	0.5
				ePP	00	22.00				1.2s		41.65nm			5.4mb	KEV		85.56	18	iP	00	54.40	1.1
				eS	06	16.00		CAF		81.94	46	eP	00	34.00	-1.4			0.9s		32.10nm			5.5mb
BMA		58.99	128	eP	58	07.60	-8.9X			1.2s		37.20nm			5.4mb		Z	20s		12.50um			6.3Msz
RDJ		59.81	128	eP	58	24.80	2.7	MAF		82.00	44	eP	00	34.00	-1.7					i	01	05.00	33kmX
KLU		60.84	333	P	58	28.40	-0.3			1.2s		44.65nm			5.5mb					e	11	30.00	
TOA		61.21	334	eP	58	28.30	-2.9X	GRC		82.10	43	P	00	34.50	-1.6					LR	38	16.00	
PMR		62.29	333	eP	58	36.20	-2.1	BGF		82.11	44	eP	00	34.50	-1.8	DOI		85.62	45	P	00	54.00	-0.2
		1.3s		32.30nm			5.4mb			0.8s		45.65nm			5.6mb	STV		85.75	45	P	00	55.66	0.8
	Z	18s		20.50um			6.3Msz	UCC		82.13	40	P+	00	41.00	4.8X	ORX		85.80	44	P	00	54.79	-0.4
KDC		62.63	328	eP	58	40.90	0.3	SNF		82.15	40	P	00	37.00	0.7	ENR		85.82	45	P	00	57.30	2.1
FBA		63.05	336	eP	58	43.00	-0.3	AIA		82.18	169	eP	00	36.30	0.3	AUTN		85.89	46	P	00	55.25	-0.5
		1.3s		34.40nm			5.4mb	DBN		82.32	38	eP	00	40.00	2.9X	SBF		85.93	46	eP	00	54.80	-1.0
RUV		63.14	244	eP	58	48.00	3.4X		Z	20s		5.50um			5.9Msz			1.1s		92.80nm			5.9mb
		1.2s		130.00nm			6.0mb					eS	10	45.00		ROB		86.11	45	P	00	56.64	0.0
TPT		63.26	245	eP	58	49.00	3.6X	AVF		82.40	44	eP	00	35.90	-1.8	IMI		86.23	46	P	00	57.46	0.2
		1.2s		95.00nm			5.9mb			1.1s		39.05nm			5.5mb	CKI		86.35	45	P	00	58.60	0.8
MBC		63.40	353	eP	58	46.50	1.0	PYM		82.40	45	P	00	35.83	-2.1	FIN		86.37	45	P	00	56.84	-1.0
		1.0s		60.00nm			5.8mb	AGO		82.42	44	P	00	36.03	-1.9	PCP		86.50	45	P	00	57.76	-0.8
SVW		65.10	331	eP	58	56.90	0.0	DOU		82.44	40	P	00	37.30	-0.5	UPP		86.50	29	iP	01	00.00	1.9
IMA		65.76	337	eP	58	56.60	-4.5X		Z	18s		6.70um			6.1Msz			1.2s		100.00nm			5.9mb
		1.3s		9.20nm			4.8mb					S	10	49.00						iS	11	31.00	
TTA		65.77	333	eP	59	01.10	-0.1	SSF		82.44	43	eP	00	36.20	-1.7	MOX		86.60	38	iPc	00	58.80	0.0
		0.9s		20.21nm			5.3mb			1.2s		77.35nm			5.7mb			1.2s		42.00nm			5.5mb
AKU		69.72	25	iP	59	27.60	1.9	LOR		82.63	43	eP	00	37.30	-1.6		Z	19s		9.10um			6.2Msz
		1.0s		32.00nm			5.4mb			1.2s		116.20nm			5.9mb		N	19s		3.70um			
MBO		71.33	80	iPd	59	43.10	6.7X		Z	20s		16.25um			6.4Msz		E	19s		5.40um			
DAG		71.78	13	eP	59	36.50	-1.6	LBL		82.69	45	P	00	36.89	-2.5					eS	11	35.00	
		1.3s	144	23nm			5.9mb	KONO		82.75	30	eP	00	41.32	2.1	GRFO		86.66	39	eP	00	57.72	-1.4
	Z	19s		25.00um			6.5Msz					iS	11	02.74		GRF		86.67	39	eP	00	59.60	0.4
	N	19s		19.44um				SMF		82.76	44	eP	00	37.60	-2.0		Z	21s		8.00um			6.1Msz
DCN		74.65	38	eP	59	55.90	0.6			1.0s		46.00nm			5.6mb					e	01	01.40	6kmX
STS		74.69	49	eP	59	56.25	0.5	PLDF		82.77	44	P	00	38.08	-1.7					e	01	04.90	
ECP		75.29	39	eP	00	06.90	8.0X	LBF		82.77	43	eP	00	37.90	-1.8					e	01	17.20	
ETA		75.34	39	eP	59	59.60	0.3			1.2s		50.60nm			5.6mb					e	01	23.00	
ERUA		75.78	49	eP	00	01.83	-0.2	NAO		83.00	29	P	00	40.20	-0.3	SOD		86.67	20	iP	00	58.40	-0.5
EVAL		76.71	54	eP	00	08.22	0.9			1.0s		28.10nm			5.4mb					i	01	04.60	19kmX
AVE		76.82	59	iP	00	07.50	-0.5	WIT		83.03	37	eP	00	41.00	0.2	HOF		86.87	39	eP	01	00.00	-0.2
EKA		76.87	36	P	00	06.00	-1.8	ETER		83.09	48	eP	00	41.47	0.1		Z	18s		12.00um			6.3Msz
		0.9s		46.80nm			5.6mb	ENN		83.10	39	eP	00	39.00	-2.2	BRN		86.94	36	eP	01	03.50	3.1X
EPLA		76.88	52	eP	00	08.85	0.6			1.0s		145.00nm			6.1mb	FUR		87.19	41	eP	01	03.70	1.9
TIO		77.33	61	iP	00	12.00	0.9	TRO		83.11	19	eP	00	42.40	1.4		Z	18s		10.00um			6.3Msz
				i	00	30.50	68kmX	MEM		83.19	40	Pc	00	42.80	1.1	CLL		87.21	38	iPd	01	01.80	0.1
EHOR		77.85	54	eP	00	14.15	0.5	WTS		83.32	38	eP	00	42.50	0.2			1.6s		120.00nm			5.9mb
EJIF		77.90	55	eP	00	16.07	2.2			1.0s		134.00nm			6.1mb		Z	18s		4.50um			5.9Msz
KBS		78.19	11	eP	00	17.00	2.3	WLF		83.52	40	iPd	00	42.16	-1.2					eS	11	43.00	
GUD		78.25	51	eP	00	14.96	-0.9	SSB		83.56	45	P	00	44.16	0.3	PGF		87.41	47	eP	01	01.80	-1.2
TOL		78.45	52	iPc	00	17.50	0.6	ESEL		83.71	51	eP	00	46.11	1.5			1.4s		122.00nm			6.0mb
				eS	10	23.00		VITF		83.79	42	P	00	43.67	-1.2	WTTA		87.71	42	iPc	01	04.40	-0.1
IFR		78 67	58	iP	00	21.00	2.6	BNS		83.81	39	iPc	00	45.80	0.9			1.2s		59.50nm			5.8mb
				i	00	34.00	44kmX			0.8s		59.00nm			5.9mb					i	01	09.60	16kmX
EBAN		78.94	53	eP	00	18.95	-0.7		Z	20s		6.90um			6.0Msz					i	01	23.20	
ECRI		79.14	49	eP	00	20.72	0.1	HAU		84.08	42	eP	00	45.00	-1.4					i	02	09.70	
LPF		79.23	43	eP	00	19.20	-1.7			0.8s		67.15nm			5.9mb	BRG		87.92	38	iP	01	05.40	0.2
		0.8s		47.00nm			5.6mb		Z	20s		10.25um			6.2Msz			1.6s		85.00nm			5.8mb
ECOG		79.26	54	eP	00	21.20	-0.3	BSF		84.41	42	eP	00	46.50	-1.6		Z	20s		2.50um			5.6Msz
AFC		79.28	54	eP	00	21.38	-0.3			1.0s		50.00nm			5.7mb		N	20s		4.00um			
GRR		79.29	43	eP	00	19.40	-1.9	ECH		84.54	42	P	00	47.49	-1.2		E	20s		2.50um			
		0.8s		80.60nm			5.8mb	LIC		84.56	85	PKP	00	48.02	-1.3					e	11	10.00	
EGUA		79 34	55	eP	00	22.52	0.7	LOMF		84.56	43	P	00	47.47	-1.4	MME		88.08	45	P	01	08.20	1.8
FLN		79.47	42	eP	00	20.80	-1.4	CDF		84.57	41	P	00	47.47	-1.4	KHC		88.31	39	iPd	01	07.10	0.0
		0.8s		51.05nm			5.6mb	MOF		84.63	42	P	00	47.37	-1.8			1.2s		20.50nm			5.3mb
	Z	22s		17.50um			6.4Msz	GWF		84.63	41	P	00	48.32	-0.8		Z	17s		8.40um			6.2MszX
LDF		79.73	42	eP	00	21.80	-1.9	KIC		84.80	85	PKP	00	49.08	-1.5		N	16s		1.00um			
		0.8s		48.35nm			5.5mb	TNS		84.80	40	eP	00	53.60	3.6X		E	18s		6.60um			

e 01 36.50 112kmX
e 05 34.00
eSKS 11 37.00
iS 11 57.00
BHG 88.35 41 iPc 01 07.60 0.2
PRU 88.59 38 eP 01 08.00 -0.4
1.4s 25.30nm 5.3mb
Z 18s 12.10um 6.4Msz
N 18s 4.20um
E 19s 6.30um
e 02 23.20 317kmX
S 11 55.00
eSS 17 50.00
VVI 88.65 43 P 01 10.10 1.3
FVI 88.68 42 P 01 10.10 1.2
KBA 88.87 41 iPc 01 09.00 -1.1
1.3s 94.60nm 5.9mb
i 01 15.00 19kmX
i 01 30.00
PGD 88.88 45 P 01 10.60 0.4
SFI 88.95 45 P 01 10.20 0.0
MAO 88.96 46 P 01 14.50 4.1X
CRE 89.12 45 P 01 12.10 0.9
KAF 89.25 25 iP 01 10.60 -0.7
0.9s 18.60nm 5.3mb
KSP 89.31 37 eP 01 12.90 1.0
NUR 89.36 26 iP 01 15.10 3.2X
e 12 04.00
e 18 04.00
VOY 89.59 42 eP 01 12.50 -0.9
e 01 14.60 7kmX
TRI 89.62 43 eP 01 12.80 -0.6
ASS 89.79 45 P 01 14.60 0.2
LJU 90.01 42 eP 01 15.50 0.3
RIY 90.16 43 eP 01 16.80 0.9
VKA 90.31 40 eP 01 18.00 1.4
3.0s 269.00nm 6.0mb
Z 21s 5.50um 6.0Msz
LR 37 40.00
VBY 90.67 42 eP 01 18.00 -0.3
ZST 90.82 39 eP 01 18.30 -0.6
e 01 24.20 18kmX
PTJ 90.98 42 eP 01 19.40 -0.4
ZAG 91.03 42 eP 01 21.50 1.6
SRO 91.72 40 iP 01 24.80 1.8
KRA 91.76 37 eP 01 22.70 -0.5
1.3s 87.00nm 5.9mb
Z 18s 9.90um 6.3Msz
E 18s 9.30um
e 01 24.60 6kmX
e 01 28.00
eS 12 25.00
e 13 29.00
BUD 92.29 40 e(P) 01 28.00 2.3
SPC 92.31 38 eP 01 28.30 2.3
PSZ 92.64 39 eP 01 28.00 0.6
MGR 92.86 47 P 01 28.00 -0.5
CSI 93.52 48 P 01 34.40 2.8X
TDS 93.60 48 P 01 32.50 0.6
ROI 93.80 48 P 01 33.00 0.1
BZS 94.71 41 eP 01 36.50 -0.3
OHR 96.13 45 eP 01 45.50 1.9
SKO 96.20 44 iP 01 44.00 0.2
Z 17s 8.48um 6.3MszX
N 18s 6.24um
E 18s 6.35um
i 01 48.40 14kmX
e 04 42.00
iSKS 12 20.00
iS 13 05.00
iSS 19 52.00
LR 48 18.50
MLR 97.46 39 eP 01 50.00 0.4
OBN 97.68 27 eP 01 50.00 -0.2
1.5s 70.00nm 6.1mb
Z 24s 8.80um 6.2MszX
N 24s 5.30um
E 24s 6.10um
e 01 55.00 16kmX
i 02 03.00
ePP 05 48.00
ePPP 07 44.00
eSKS 12 20.00
eS 13 14.00
iPS 14 34.00
e 17 36.00
iSS 20 00.00

iSSS 24 04.00
MAJO 111.13 319 iPdiff03 01.95 11.3X
eSKS 13 25.61
GAR 123.84 18 ePKP 07 17.60 3.2X
i 08 00.00
i 08 57.00
ePS 22 11.00
ePPS 24 00.00
eSS 30 18.00
eSSS 34 18.00
CTAO 125.31 256 iPKPc 07 16.00 -1.5
e 09 09.00
eSKS 20 30.00
e 26 24.00
LZH 127.63 345 (PKP) 07 24.50 2.7
STK 129.23 241 ePKP 07 24.20 -0.5
0.8s 5.20nm
i 07 57.00
iPP 09 39.40
ePKS 10 55.10
iSP 19 33.10
iP'PKS27 38.00
QUE 130.62 25 ePKP 07 26.60 -1.1
WR2 136.48 256 ePKP 07 39.00 0.2
ePP 10 25.70
ASPA 136.81 251 iPKP 07 41.30 1.9
Z 24s 5.50um 6.2MszX
ePP 10 23.60
ePKS 11 13.30
POO 143.80 25 ePKP 07 51.00 -1.1
CHTO 145.34 343 ePKP 07 54.41 -0.2
TSM 145.76 301 ePKPc 07 59.10 3.6X
LOE 145.77 338 ePKP 07 55.00 -0.4
KKM 146.09 305 ePKPd 07 57.50 1.3
HYB 146.51 18 ePKP 07 57.20 0.6
1.0s 80.00nm
BDT 146.81 342 ePKP 07 56.50 -0.5
0.7s 38.70nm
NST 147.93 340 ePKP 08 08.00 9.1X
NWAO 148.56 230 ePKP 08 02.00 2.5
Z 20s 3.00um 6.1Msz
KHT 149.26 342 ePKP 08 04.50 3.5X
GBA 149.68 23 PKPd 08 09.00 7.4X
0.7s 9.40nm
MBL 150.00 253 ePKP 08 04.50 2.5
BAL 150.02 233 ePKP 08 05.00 3.2X
KOD 152.76 25 ePKP 08 13.50 6.9X
TRT 155.84 284 ePKPd 08 13.00 2.6
S.D. = 1.3 on 271 of 312 obs.

% SEP 18, 1991 09h 51m 52.65± 1.07s
39.335 N ± 5.6km 16.468 E ± 9.6km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

ACI 0.21 275 P 51 56.90 -0.3
ROI 0.25 18 P 51 57.50 -0.5
CZI 0.28 246 P 51 58.00 -0.6
eSg 52 04.00
TDS 0.34 343 P 51 59.20 -0.5
eSg 52 05.80
CSI 0.46 343 P 52 01.90 -0.2
eSg 52 10.60
MGR 1.07 319 P 52 13.20 0.5
eSg 52 32.00
SOI 1.30 195 P 52 17.00 0.3
eSg 52 34.60
SGO 1.51 324 P 52 21.00 1.3
S.D. = 0.7 on 8 of 8 obs.

% SEP 18, 1991 10h 08m 02.41± 0.52s
40.641 N ± 4 3km 22.978 E ± 4.4km
DEPTH = 5.0km (geophysicist)
GREECE (364)
MD 2.4 (THE)

THE 0.01 230 iPc 08 04.04 0.6
iS 08 04.84
SOH 0.34 58 iPc 08 09.69 0.5
iS 08 14.40
KNT 0.52 353 iPc 08 12.89 0.0
iS 08 19.60
GRG 0.54 306 ePd 08 13.16 -0.1
LIT 0.66 215 ePc 08 15.26 -0.3
eS 08 23.70
SRS 0.67 44 ePc 08 15.44 -0.3
eS 08 24.80

OUR 0.82 111 ePd 08 18.92 0.1
eS 08 30.08
PAIG 0.89 143 ePc 08 19.53 -0.4
eS 08 31.68
S.D. = 0.4 on 8 of 8 obs.

? SEP 18, 1991 10h 21m 06.56± 0.85s
3.976 N ±12.2km 76.436 W ±24.3km
DEPTH = 110.0km (geophysicist)
COLOMBIA (103)
MD 3.0 (UVC).

CLMC 0.16 233 eP 21 23.42 -0.1
eS 21 37.60
HOBC 0.48 39 eP 21 23.71 0.0
eS 21 38.10
HOOC 0.54 201 eP 21 24.38 0.1
ANCC 0.63 223 eP 21 24.62 0.0
SILC 1.28 176 eP 21 31.44 -0.2
PURC 1.64 177 eP 21 36.18 0.1
S.D. = 0.2 on 6 of 6 obs.

? SEP 18, 1991 10h 30m 10.82± 3.68s
3.808 N ±15.2km 76.977 W ±33.6km
DEPTH = 33.0km (normal)
COLOMBIA (103)
MD 2.8 (UVC).

ANCC 0.31 159 iPd 30 18.92 0.1
eS 30 24.90
CLMC 0.42 80 eP 30 20.64 0.2
HOOC 0.48 135 eP 30 21.16 -0.2
eS 30 28.90
BUGC 0.72 83 eP 30 24.82 0.1
eS 30 35.20
HOBC 1.00 57 eP 30 28.44 -0.2
S.D. = 0.3 on 5 of 5 obs.

---

* SEP 18, 1991 10h 42m 17.92± 0.97s
26.483 N ±10.0km 67.824 E ±10.4km
DEPTH = 33.0km (normal)
4.8mb (2 obs.)
PAKISTAN (710)

QUE 3.77 348 iPc 43 16.50 1.2
eS 44 24.30
NDI 8.62 73 iPd 44 23.00 -0.3
0.8s 14.93nm 5.2mb
POO 9.67 144 eP 44 36.00 -1.9
MAIO 12.09 326 eP 45 11.00 0.1
GAR 12.66 9 eP 45 16.90 -1.6
HYB 13.43 130 eP 45 19.00 -9.6X
eS 47 52.00
GKN 15.03 80 P 45 48.92 -0.9
DMN 15.44 82 P 45 57.00 1.8
KKN 15.60 81 P 45 56.40 -0.8
PKI 15.71 82 P 45 58.88 0.1
GUN 16.13 81 P 46 04.22 0.1
KOD 18.56 149 eP 46 35.50 1.0
CHG 29.66 98 eP 48 29.00 6.1X
CHTO 29.66 98 P 48 24.80 1.9
pP 48 28.60 13kmX
MOX 48.75 315 e(P) 51 07.00 5.7X
HFS 49.70 328 eP 51 08.00 -0.5
0.3s 1.30nm 4.4mb
S.D. = 1.3 on 13 of 16 obs.

% SEP 18, 1991 10h 53m 06.61± 0.93s
44.058 N ± 8.5km 7.613 E ± 5.3km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.8 (GEN).

ENR 0.22 321 P 53 11.52 0.1
S 53 14.80
IMI 0.25 126 P 53 11.96 0.0
S 53 15.24
STV 0.28 312 P 53 12.34 -0.2
S 53 16.50
ROB 0.30 38 P 53 12.96 0.1
S 53 17.16
FIN 0.45 70 P 53 15.79 -0.1
S 53 21.80
PZZ 0.58 321 P 53 18.49 0.1
S 53 26.28
PCP 0.83 54 P 53 22.61 0.0
S 53 33.22

18d 10h

S.D. = 0.1 on 7 of 7 obs.

? SEP 18, 1991 12h 28m 24.10± 2.73s
14.340 N ±21.8km 91.371 W ±30.6km
DEPTH = 77.1 ± 25.8 km
4.4mb (2 obs.)
GUATEMALA (70)

SCX	2.68	333	iP	29	06.00	0.2
			iS	29	41.30	
PPM	8.39	305	eP	30	25.70	0.0
UYO	19.94	352	iPc	32	49.50	-2.9
MEO	21.37	344	iPd	33	06.00	-1.0
SIO	21.77	349	eP	33	15.00	4.1X
TUL	21.84	350	eP	33	13.20	1.6
	0.6s		7.80nm			4.3mb
FVM	23.56	2	P	33	30.00	1.6
GOL	28.10	337	P	34	11.00	0.1
LRM	36.06	335	eP	35	21.00	0.7
SIV	42.48	134	P	36	13 40	-0.1
YKA	50.84	346	eP	37	18.40	-0.2
	0.6s		3.30nm			4.5mb

S.D. = 1.6 on 10 of 11 obs.

& SEP 18, 1991 12h 41m 43.81s
58.959 N 152.966 W
DEPTH = 66.3km
KODIAK ISLAND REGION (13)
<AEIC>.

CDD	0.35	266	iPc	41	54.78	-0.4
			eS	42	03.86	
AUI	0.45	328	iPd	41	55.24	-0.7
			eS	42	03.92	
AUE	0.45	333	ePd	41	55.44	-0.5
SYI	0.46	139	eP	41	55.41	-0.7
			iS	42	04.24	
AUP	0.47	330	iPd	41	55.68	-0.6
			eS	42	05.30	
AGU	0.47	329	iPd	41	55.72	-0.6
AUH	0.47	329	iPd	41	55.70	-0.6
AUL	0.49	331	iPd	41	55.77	-0.6
AUW	0.49	328	iPd	41	55.78	-0.6
OPT	0.71	349	iPd	41	58.00	-0.8
			iS	42	08.95	
MCNL	0.74	288	iPd	41	58.63	-0.6
			iS	42	09.92	
HOM	0.98	43	iPc	42	01.15	-0.9
			eS	42	14.48	
CNPM	1.06	57	ePc	42	02.08	-1.1
			iS	42	17.21	
INE	1.11	357	iPc	42	02.61	-1.3
INW	1.12	356	iPc	42	02.67	-1.3
			eS	42	17.28	
NNL	1.38	37	iPd	42	07.28	-0.2
RED	1.47	4	iPd	42	07.24	-1.5
			eS	42	25.78	
RS1	1.51	4	iPc	42	08.14	-1.3
			eS	42	28.36	
RSO	1.51	4	eP	42	08.40	-1.0
			eS	42	27.82	
RS2	1.51	4	eP	42	08.07	-1.4
			eS	42	27.85	
RDW	1.53	3	iPc	42	08.70	-1.0
			eS	42	28.32	
REF	1.54	5	iPd	42	08.43	-1.4
			eS	42	28.01	
RDN	1.56	4	eP	42	08.75	-1.3
			eS	42	25.71	
NCT	1.61	1	eP	42	09.41	-1.2
			eS	42	29.10	
DFR	1.64	5	eP	42	09.94	-1.2
			eS	42	30.17	
RDT	1.64	10	ePd	42	09.68	-1.4
			eS	42	29.97	
SLKM	2.08	41	eP	42	16.73	-0.5
SEW	2.13	56	eP	42	17.60	-0.1
CKL	2.27	8	eP	42	18.62	-1.2
SPU	2.28	11	eP	42	19.13	-0.7
BGL	2.33	7	iPc	42	19.69	-1.0
SUA	2.75	23	eP	42	26.16	-0.4
PMS	2.86	35	eP	42	26.43	-1.6
KNIM	3.00	60	eP	42	27.07	-2.9
SKT	3.11	13	eP	42	28.85	-2.7
FID	3.73	58	ePd	42	37.05	-3.2

36 obs. ossociated

? SEP 18, 1991 13h 00m 25.61± 2.37s
14.470 N ±43.7km 91.244 W ±18.0km
DEPTH = 33.0km (normal)
GUATEMALA (70)

FUG	0.39	93	P	00	35.00	0.2
PCG	0.58	98	P	00	37.50	-0.2
			S	00	46.00	
SLP	0.97	74	P	00	43.00	-0.1
SBG	1.02	310	P	00	44.00	0.0
			S	00	59.00	

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

SEP 18, 1991 13h 05m 41.78± 0.45s
24.611 N ± 3.9km 122.903 E ± 4.5km
DEPTH = 117.0 ± 3.6 km
5.0mb (38 obs.)
TAIWAN REGION (243)

TWC	0.96	270	iPc	06	03.10	-0.3
			eS	06	17.50	
TWZ	1.30	292	iPc	06	07.50	0.5
TWD	1.30	246	iPc	06	06.50	-0.6
			eS	06	23.70	
TWO	1.91	260	iPc	06	15.10	0.6
			eS	06	39.20	
TWF1	1.93	230	iPc	06	14.10	-0.6
			eS	06	37.10	
TWG	2.45	224	iPc	06	20.40	-1.0
TWK	2.58	239	ePc	06	23.30	0.1
			eS	06	54.80	
QZH	3.93	276	P	06	41.00	-0.3
SSE	6.64	347	Pc	07	19.20	1.0
NJ2	8.23	335	Pc	07	40.00	0.2
			S	09	13.00	
HKC	8.34	256	eP	07	41.70	0.3
GZH	8.88	262	eP	07	49.00	0.3
WHN	9.62	310	P	07	58.50	0.0
	1.0s		50.00nm			5.3mb
			eS	09	42.50	
TIA	12.59	338	eP	08	39.90	2.2
YONJ	13.95	39	eP	08	51.50	-4.0X
GYA	14.78	281	P	09	10.80	4.6X
			S	11	45.20	
XAN	15.38	311	P	09	17.00	3.3X
			pP	09	22.00	
TIY	15.82	328	Pd	09	22.40	3.2X
SNY	17.18	2	Pc	09	36.50	0.7
	0.6s		10.00nm			4.3mb
MAT	17.72	44	eP	09	41.00	-1.6
CD2	18.06	295	iPd	09	46.20	-0.5
HHC	18.76	332	eP	09	55.00	0.5
BTO	19.25	329	eP	09	59.30	-0.3
CN2	19.26	6	eP	10	00.00	0.5
			pP	10	22.40	121kmX
KKM	19.54	200	ePd	10	02.80	0.0
LZH	19.99	309	eP	10	07.50	0.1
	1.5s		31.00nm			4.4mb
			eS	13	45.00	
MDJ	20.69	14	eP	10	13.70	-0.5
CHG	22.98	260	eP	10	38.50	1.6
	0.7s		6.85nm			4.1mb
			e	14	24.50	
CHTO	22.98	260	P	10	38.20	1.3
			e	11	06.50	
GTA	24.42	313	P	10	50.50	-0.4
	0.8s		10.00nm			4.3mb
HOOJ	24.45	39	eP	10	49.90	-1.0
ASAJ	25.26	35	eP	10	57.10	-1.4
KUSJ	25.72	39	eP	11	02.90	0.2
GUN	33.29	284	P	12	10.26	-0.3
	0.6s		43.00nm			5.4mb
PKI	33.72	283	P	12	13.62	-0.7
	0.9s		26.00nm			5.1mb
KKN	33.82	284	P	12	14.48	-0.6
	0.8s		61.00nm			5.5mb
DMN	33.99	283	P	12	15.80	-0.7
GKN	34.38	284	P	12	19.14	-0.6
	0.4s		20.00nm			5.3mb
NDI	40.85	286	iPc	13	13.80	0.2
	0.5s		28.17nm			5.3mb
WR2	45.67	165	iPc	13	53.10	0.6
	0.5s		9.50nm			4.8mb
ASPA	49.16	167	eP	14	20.40	0.7
	0.3s		4.10nm			4.8mb
PMR	67.72	31	(P)	16	28.50	0.3
KEV	69.16	338	eP	16	36.00	-1.0
SOD	69.92	336	iP	16	41.50	-0.1
KAF	71.56	331	iP	16	50.30	-1.3
	0.4s		7.30nm			4.8mb
MBC	72.50	13	eP	16	56.50	-0.5
NUR	72.83	329	iP	16	58.20	-0.9
UPP	76.32	330	iP	17	18.30	-0.8
HFS	77.96	331	ePKP	17	26.90	-1.2
	0.4s		4.00nm			4.6mb
NAO	78.85	332	P	17	31.80	-1.2
	0.9s		12.80nm			4.7mb
KRA	79.34	320	eP	17	35.50	-0.3
KSP	81.07	322	eP	17	44.40	-0.6
SKO	81.89	312	iP	17	49.50	0.0
YKA	81.97	23	eP	17	50.00	0.6
	0.7s		10.50nm			4.7mb
BRG	82.35	323	eP	17	53.80	2.1
	0.8s		10.00nm			4.7mb
CLL	82.65	323	iPd	17	53.20	0.0
	0.5s		10.00nm			4.9mb
CDF	87.33	323	eP	18	16.90	0.2
	0.8s		13.45nm			5.0mb
DOU	87.78	325	Pc	18	19.20	0.6
PNT	87.81	36	eP	18	20.00	1.1
	0.6s		8.00nm			4.9mb
BSF	87.93	323	eP	18	19.10	-0.5
	0.7s		6.60nm			4.8mb
HAU	88.08	323	eP	18	19.90	-0.3
	0.8s		5.35nm			4.6mb
LPG	89.30	321	eP	18	26.30	-0.1
	0.8s		20.15nm			5.3mb
LPL	89.30	321	eP	18	26.30	0.0
	1.0s		26.00nm			5.3mb
PGF	89.63	317	eP	18	27.70	-0.1
	0.7s		12.15nm			5.1mb
SBF	89.84	319	eP	18	28.20	-0.5
	0.6s		16.25nm			5.3mb
LOR	89.87	323	eP	18	28.20	-0.5
	1.2s		8.95nm			4.7mb
LBF	89.98	323	eP	18	28.70	-0.5
	1.0s		14.00nm			5.0mb
SSF	90.18	323	eP	18	30.90	0.8
	0.8s		5.35nm			4.7mb
SMF	90.26	323	eP	18	30.10	-0.4
	1.0s		20.00nm			5.2mb
AVF	90.43	323	eP	18	30.90	-0.3
	1.0s		11.00nm			5.0mb
FRF	90.48	319	eP	18	31.40	-0.1
	0.6s		6.30nm			4.9mb
LMR	90.69	319	eP	18	32.40	-0.1
	0.8s		10.75nm			5.1mb
LRG	90.71	319	eP	18	32.10	-0.4
	0.8s		13.45nm			5.2mb
MAF	91.21	323	eP	18	35.10	0.2
	0.8s		8.05nm			5.0mb
FFC	92.11	24	iPc	18	39.60	0.8
	0.7s		27.00nm			5.6mb
CAF	92.29	322	eP	18	40.50	0.6
	0.8s		12.10nm			5.2mb
RJF	92.36	323	eP	18	40.80	0.6
	0.6s		10.80nm			5.3mb
LRM	93.77	35	eP	18	48.70	1.7
KIC	120.46	294	PKP	24	21.00	-0.7
TIC	120.54	295	PKP	24	21.10	-0.8
SDV	144.18	23	ePKP	25	04.60	-1.8
HOBC	145.77	35	ePKPc	25	08.70	-0.3
CLMC	145.93	36	ePKPc	25	09.79	0.4
ANCC	146.07	37	iPKPc	25	09.56	0.2
HOOC	146.24	37	ePKP	25	10.25	0.3
SILC	147.05	37	ePKP	25	11.75	0.3
PURC	147.34	38	ePKP	25	13.89	1.8
SOB1	158.25	312	(PKP)	25	43.00	16.2X
ZOBO	166.75	53	PKP	25	37.00	1.4
			i	26	37.00	
SIV	170.65	24	ePKP	25	38.00	0.7

S.D. = 0.8 on 85 of 90 obs.

? SEP 18, 1991 13h 35m 12.02± 1.26s
50.381 N ± 6.4km 6.102 E ±15.6km
DEPTH = 10.0km (geophysicist)
GERMANY (543)

MEM	0.24	345	iPc	35	16.80	-0.3
			iS	35	20.37	
ENN	0.40	344	ePg	35	20.50	0.2
	0.5s		9.00nm			
			eSg	35	25.50	
WLF	0.72	177	iPd	35	26.14	0.0

			iS	35 35.17		
DOU	1.01	254	P	35 31.10	0.0	
S.D. = 0.3			on	4 of 4 obs.		

SEP 18, 1991 14h 12m 50.75± 0.70s
44.341 N ± 5.5km 15.120 E ± 7.2km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
MD 3.1 (TRI). ML 3.1 (VIE).

RIY	1.13	333	iPgc	13 11.00	-0.9	
			iSg	13 26.40		
VBY	1.17	5	ePg	13 12.20	-0.3	
			iSg	13 27.70		
			iSn	13 31.00		
CEY	1.48	341	ePn	13 17.40	-0.1	
			eSg	13 37.00		
HVAR	1.51	140	iPnc	13 18.10	0.3	
			iSn	13 38.90		
ZAG	1.60	22	iPn	13 19.50	0.4	
			iSn	13 40.50		
PTJ	1.67	21	iPg	13 20.00	-0.2	
			iSg	13 37.10		
TRI	1.67	325	ePg	13 19.70	-0.5	
			iSg	13 42.40		
LJU	1.75	347	ePn	13 21.60	0.2	
			e	13 23.00		
			eSg	13 44.00		
ARV	1.79	243	P	13 21.00	-0.9	
			eSn	13 45.30		
VOY	1.90	333	ePn	13 22.50	-1.1	
			ePg	13 25.10		
			eSg	13 45.00		
ASS	2.19	235	P	13 26.30	-1.5	
			eSn	13 53.50		
SFI	2.39	261	P	13 30.50	0.0	
CRE	2.40	254	P	13 31.50	0.8	
PGD	2.49	260	P	13 33.50	1.4	
WTTA	3.81	321	iPnc	13 53.00	2.2	
			iSn	14 36.30		
			i	14 48.70		
			i	14 49.90		
S.D. = 1.0			on	15 of 15 obs.		

* SEP 18, 1991 15h 52m 01.66± 2.21s
39.294 N ±16.2km 21.753 E ±17.1km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 3.0 (THE).

AGG	0.52	121	ePd	52 11.60	-0.7	
			eS	52 21.96		
LIT	0.99	35	iPd	52 18.69	-1.7	
FNA	1.52	349	iPd	52 27.57	-1.3	
			eS	52 49.32		
PAIG	1.62	66	ePd	52 31.52	1.2	
GRG	1.73	16	ePd	52 31.88	-0.1	
OHR	1.96	338	ePn	52 36.80	1.5	
SOH	1.96	38	iPd	52 37.08	1.8	
SKO	2.69	355	ePn	52 45.00	-0.7	
S.D. = 1.6			on	8 of 8 obs.		

% SEP 18, 1991 15h 53m 07.32± 1.24s
43.940 N ±10.0km 7.761 E ± 5.7km
DEPTH = 5.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
ML 1.8 (GEN).

IMI	0.10	108	P	53 09.59	0.1	
			S	53 11.23		
ROB	0.36	13	P	53 14.92	0.3	
			S	53 19.94		
ENR	0.38	320	P	53 14.61	-0.3	
			S	53 20.76		
FIN	0.42	50	P	53 15.33	-0.4	
			S	53 21.79		
STV	0.44	314	P	53 16.36	0.2	
			S	53 22.61		
PZZ	0.74	320	P	53 22.00	-0.1	
			S	53 32.25		
PCP	0.82	43	P	53 24.05	0.2	
			S	53 34.56		
S.D. = 0.4			on	7 of 7 obs.		

& SEP 18, 1991 15h 59m 49.85s
59.957 N 152.492 W
DEPTH = 97.0km

SOUTHERN ALASKA (2)
<AEIC>.

INE	0.30	290	eP	00 04.04	-0.5	
			eS	00 14 70		
INW	0.34	289	eP	00 04.28	-0 4	
			eS	00 15.25		
OPT	0.48	231	iPc	00 04.45	-1.0	
RED	0.48	343	iPd	00 04 75	-0 8	
			eS	00 16.31		
RS1	0.52	345	iPd	00 05.35	-0.6	
			iS	00 16.96		
HOM	0.52	125	iPc	00 05.35	-0.3	
			eS	00 17.42		
RSO	0.52	346	iPd	00 05.37	-0.6	
			eS	00 17.16		
RS2	0.52	345	iPd	00 05.39	-0.6	
			eS	00 17.19		
REF	0.54	349	iPd	00 05.52	-0.6	
			eS	00 17.60		
RDW	0.55	343	iPd	00 05.45	-0.7	
			eS	00 17.33		
RDN	0.57	347	iPd	00 05.68	-0.6	
			iS	00 17.72		
NNL	0.61	81	iPc	00 06.59	0.2	
RDT	0.62	4	ePd	00 05.77	-0.8	
			eS	00 18.18		
DFR	0.64	351	iPd	00 06.18	-0.7	
			eS	00 18.90		
NCT	0.64	340	ePd	00 06.16	-0.7	
			eS	00 18.53		
AUE	0.75	217	iPd	00 06.74	-0.9	
			eS	00 20.00		
AUL	0.75	220	eP	00 06.92	-0.8	
			iS	00 20.11		
AUP	0.76	219	ePd	00 07.04	-0.9	
			eS	00 20.30		
CNPM	0.77	124	iPd	00 07.09	-0.8	
			eS	00 20.57		
AUW	0.77	221	ePc	00 06.94	-1.0	
AUI	0.78	218	eP	00 07.33	-0.7	
			eS	00 20.11		
CDD	1.19	210	ePc	00 11.04	-1.5	
			iS	00 27.86		
MCNL	1.22	231	iPc	00 11.37	-1.5	
			iS	00 27.68		
CKL	1.25	3	iPd	00 12.89	-0.4	
			eS	00 30.64		
SPU	1.25	10	iPd	00 12.80	-0.5	
			eS	00 30.65		
SLKM	1.26	63	eP	00 12.20	-1.2	
			eS	00 30.19		
BGL	1.31	2	iPd	00 13.81	-0.3	
			eS	00 32.45		
SYI	1.35	178	iPd	00 13.29	-1.2	
			eS	00 31.49		
CGLM	1.38	10	ePd	00 14.61	-0.3	
			eS	00 32.63		
NCG	1.46	6	eP	00 15.59	-0.4	
SEW	1.53	83	eP	00 15.50	-1.2	
			eS	00 34.96		
SUA	1.74	29	ePc	00 19.23	-0.3	
SVW	1.93	308	ePd	00 20.65	-1.3	
PMS	1.94	47	ePc	00 21.43	-0.6	
SKT	2.08	13	eP	00 23.88	-0.1	
LTI	2.33	86	ePd	00 25.66	-1.6	
KNIM	2.41	79	ePc	00 25.85	-2.5	
MTU	2.43	87	eP	00 26.09	-2.5	
KNK	2.46	52	iPc	00 27.28	-1.8	
GHO	2.52	42	eP	00 28.70	-1.2	
GLI	2.83	69	eP	00 31.95	-2.1	
FID	3.09	72	eP	00 34 18	-3 4	
VZW	3.14	67	eP	00 35.96	-2.3	
VLZ	3.26	66	eP	00 38.68	-1.2	
44 obs. associated						

% SEP 18, 1991 16h 19m 08.77± 1.54s
23.590 N ± 8.5km 121.665 E ±15.5km
DEPTH = 10.0km (geophysicist)
TAIWAN (244)

TWF1	0.41	235	iPd	19 18.00	0.8	
			eS	19 24.00		
TWD	0.49	353	iPd	19 19.70	1.0	
			eS	19 27.50		
TWG	0.94	216	ePc	19 26.80	0.1	
TWQ	1.02	312	iPc	19 28 10	0.0	
TWC	1.03	9	iPd	19 28.20	0.0	
			eS	19 42.90		
TWK	1.13	254	ePc	19 29.00	-0.9	
			eS	19 44.60		
TWZ	1.50	357	eP	19 34.80	-1.0	
S.D. = 0.9			on	7 of 7 obs.		

* SEP 18, 1991 16h 35m 50.11± 0.85s
3.221 S ± 9.2km 150.609 E ±15.3km
DEPTH = 33.0km (normal)
4.5mb (4 obs.) 4.3Msz (1 obs.)
NEW IRELAND REGION, P.N.G. (190)

PMG	7.04	209	eP	37 35.00	1.4	
OIS	20.30	211	iPc	40 25.00	-1.1	
WR2	22.97	222	iPd	40 52.10	-0.9	
	0.7s		19.40nm		4.7mb	
			i	40 58.90		
RMO	23.20	184	eP	41 06.00	10.8X	
			i	41 12.20		
BRS	24.12	175	iPd	41 11.00	6.9X	
	1.0s		4.60nm		4.0mb	
			e(S)	46 00.00		
DZM	24.24	142	iPc	41 05.60	0.3	
KNA	24.84	239	eP	41 10.40	-0.7	
ASPA	25.96	217	iPc	41 21.70	0.1	
	1.1s		10.90nm		4.4mb	
Z	20s		0.90um		4.3Msz	
KMI	54.30	304	eP	45 16.50	0.4	
CHG	55.34	295	eP	45 24.50	1.0	
LZH	58.58	316	eP	45 46.50	0.0	
	1.5s		28.00nm		5.1mb	
Z	25s		0.32um		4.3MszX	
			sP	46 08.50		
YAK	67.00	349	eP	46 41.00	-0.6	
S.D. = 0.9			on	10 of 12 obs.		

SEP 18, 1991 17h 07m 03.12± 0.61s
45.399 N ± 6.8km 20.894 E ± 5.3km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)

TIM	0.41	34	iPc	07 13.00	1.5	
BEO	0.66	208	ePg	07 16.70	0.5	
			iSg	07 29.40		
SSR	0.80	131	iPd	07 14.00	-4.7X	
SRE	1.80	113	eP	07 34.50	0.1	
TNR	2.39	83	ePc	07 43.00	0.1	
BUD	2.45	329	ePn	07 42.00	-1.8	
PSZ	2.61	345	iPnd	07 45.40	-0.8	
BMR	2.90	37	ePc	08 02.00	11.9X	
SRO	3.00	325	ePn	07 52.50	1.0	
			i	08 34.50		
			i	08 51.70		
			i	09 12.00		
SKO	3.45	173	iPn	08 03.80	5.8X	
			i	09 10.00		
			iSn	09 19.00		
			i	09 21.00		
			i	09 28.00		
			i	09 32.00		
			i	09 36.00		
ZAG	3.47	279	i(Pn)	07 59.20	1.0	
			iS	09 02.00		
PTJ	3.50	280	ePn	07 58.10	-0.6	
			e(Sn)	08 34.20		
MLR	3.56	87	eP	08 00.00	0.4	
SPC	3.82	354	ePn	08 04.30	0.9	
ZST	3.82	318	iPn	08 02.80	-0.5	
			i	08 05.50		
			i	08 12.40		
			i	08 50.90		
VBY	3.97	274	ePn	08 20.40	15.1X	
			e(Sn)	09 20.00		
VRI	4.12	81	eP	08 05.50	-1.9	
S.D. = 1.2			on	13 of 17 obs.		

? SEP 18, 1991 17h 07m 08.37± 1.24s
48.121 N ±11.4km 7.690 E ± 9.8km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.3 (LDG).

FEL	0.33	138	ePg	07 15.21	0.0	
CDF	0.40	317	Pg	07 16.60	0.0	
			Sg	07 22.00		
BSF	0.67	245	Pg	07 21.70	0.0	

18d 17h

		Sg	07 29.20			
HAU	0 91 263	Pg	07 25.80	0.0		
		Sg	07 37.20			
	S.D. = 0.1	on	4 of 4 obs.			

SEP 18, 1991 17h 08m 17.51± 0.73s
38.289 N ± 7.7km 21.898 E ± 4.8km
DEPTH = 10.0km (geophysicist)
3.9mb (10 obs.) 3.4Msz (1 obs.)
GREECE (364)
MD 3.7 (THE), 3.7 (ATH).

AGG	0.81	25	ePc	08 31.66	-1.5
VLS	1.04	264	ePg	08 34.50	-2.6
ATH	1.47	102	ePb	08 44.90	0.9
IGT	1.74	316	iPd	08 49.98	2.0
VLI	1.77	152	ePn	08 49.60	1.2
LIT	1.87	14	ePd	08 49.73	-0.1
KZN	2.02	357	ePn	08 52.70	0.7
PAIG	2.14	40	iPc	08 52.50	-1.3
KEK	2.17	312	ePb	08 54.50	0.4
THE	2.48	19	ePd	08 57.58	-1.0
FNA	2.52	351	ePc	09 00.70	1.4
OUR	2.61	38	ePd	08 59.66	-0.7
			eS	09 29.33	
GRG	2.69	8	ePd	09 02.94	1.3
			eS	09 32.41	
SOH	2.77	24	iPc	09 02.66	-0.1
			iS	09 33.85	
OHR	2.94	344	iPn	09 04.80	-0.4
			iSn	09 42.70	
KNT	2.97	15	iPc	09 05.37	-0.2
SRS	3.11	24	ePc	09 07.18	-0.4
PRK	3.55	73	ePn	09 13.20	-0.6
LCI	3.68	305	P	09 14.70	-0.9
RDO	4.00	43	ePn	09 21.50	1.3
NPS	4.24	134	ePb	09 27.40	3.7X
BRT	4.45	307	P	09 27.00	0.4
TDS	4.54	289	P	09 27.90	0.0
CZI	4.60	283	P	09 27.40	-1.3
			eSn	10 19.50	
CSI	4.61	291	P	09 28.00	-0.9
			eSn	10 21.50	
MGR	5.26	293	P	09 37.30	-0.8
SGO	5.58	296	P	09 41.10	-1.5
DUI	6.63	303	P	09 57.90	0.4
SMF	15.70	308	eP	12 03.20	2.9X
	0.8s		5.35nm	3.8mb	
LBF	15.77	309	eP	12 05.10	4.0X
	1.0s		8.00nm	3.9mb	
LOR	15.97	310	eP	12 07.30	3.6X
	1.2s		7.45nm	3.7mb	
AVF	16.07	308	eP	12 07.00	2.1
	1.0s		8.00nm	3.8mb	
SSF	16.09	309	eP	12 07.50	2.3
	1.0s		12.00nm	4.0mb	
BGF	16.29	307	eP	12 09.80	2.0
	1.2s		16.35nm	4.0mb	
MAF	16.33	305	eP	12 10.70	2.3
	1.0s		5.00nm	3.6mb	
HFS	22.48	349	eP	13 14.00	-4.0X
	0.6s		2.10nm	3.8mb	
	Z 18s		0.12um	3.4Msz	
			LR	13 59.00	
NAO	23.61	346	P	13 26.40	-2.7
	0.7s		3.50nm	4.0mb	
EKA	23.97	323	Pd	13 30.90	-1.7
	0.7s		4.40nm	4.2mb	
	S.D. = 1.4	on	33 of 38 obs.		

& SEP 18, 1991 18h 00m 27.77s
59.996 N 152.923 W
DEPTH = 107.3km
SOUTHERN ALASKA (2)
<AEIC>.

INE	0.10	313	eP	00 41.99	0.5
			eS	00 54.44	
INW	0.13	304	eP	00 42.06	0.6
			eS	00 54.87	
OPT	0.38	204	iP	00 42.88	-1.0
			eS	00 54.32	
RED	0.43	10	eP	00 43.65	-0.6
			eS	00 55.90	
RS1	0.47	10	eP	00 44.12	-0.5
			eS	00 56.60	
RSO	0.48	10	eP	00 44.30	-0.4
RS2	0.48	10	eP	00 44.33	-0.3
RDW	0.49	7	eP	00 44.50	-0.2
REF	0.51	12	eP	00 44.34	-0.5
			eS	00 56.73	
RDN	0.53	9	eP	00 44.55	-0.4
NCT	0.57	360	eP	00 44.41	-0.8
			eS	00 57.36	
DFR	0.61	11	eP	00 44.79	-0.7
RDT	0.63	24	iP	00 44.88	-0.8
			eS	00 58.35	
AUL	0.67	203	eP	00 45.04	-0.8
AUE	0.68	200	eP	00 44.79	-1.1
AUP	0.68	202	eP	00 45.16	-0.9
AUW	0.69	204	eP	00 45.06	-0.9
AUI	0.71	201	eP	00 45.02	-1.2
			eS	00 58.52	
HOM	0.73	117	eP	00 46.02	-0.3
			eS	01 01.42	
NNL	0.82	86	iP	00 47.53	0.3
CNPM	0.98	118	iP	00 48.04	-0.8
			eS	01 04.50	
MCNL	1.09	222	eP	00 48.14	-1.8
CDD	1.13	199	eP	00 48.95	-1.5
			eS	01 05.94	
CKL	1.24	13	iP	00 51.15	-0.7
			eS	01 09.86	
SPU	1.26	19	eP	00 51.22	-0.8
BGL	1.30	11	iP	00 52.03	-0.5
CGLM	1.39	19	eP	00 52.94	-0.6
SYI	1.42	169	eP	00 52.63	-1.1
SLKM	1.44	68	eP	00 53.45	-0.7
			eS	01 13.05	
NCG	1.46	15	eP	00 54.17	-0.3
SEW	1.75	85	eP	00 56.70	-1.1
SUA	1.82	35	eP	00 58.48	-0.5
PMS	2.08	51	eP	01 01.34	-0.8
SKT	2.10	18	eP	01 01.46	-1.0
PWA	2.23	41	eP	01 04.20	0.1
KDC	2.27	174	eP	01 03.75	-0.8
LTI	2.55	87	eP	01 06.76	-1.5
KNIM	2.62	80	eP	01 07.16	-2.1
KNK	2.62	55	eP	01 07.33	-2.0
GHO	2.65	46	eP	01 08.36	-1.4
CUT	2.74	27	eP	01 10.36	-0.5
FID	3.29	74	eP	01 16.07	-2.3
	42 obs. associated				

? SEP 18, 1991 18h 44m 32.94± 3.25s
34.618 S ±24.6km 179.844 E ±27.7km
DEPTH = 212.8 ± 24.3 km
4.6mb (3 obs.)
SOUTH OF KERMADEC ISLANDS (179)

HBZ	3.23	202	P	45 25.60	-0.7
			S	46 22.90	
KUZ	3.97	236	eP	45 36.80	1.5
NOZ	4.25	199	eP	45 37.40	-1.3
URZ	4.25	210	eP	45 37.70	-1.1
			eS	46 45.80	
WCZ	4.69	252	P	45 44.60	0.3
MGZ	5.57	217	eP	45 57.90	2.3
MOZ	5.61	225	eP	46 00.00	3.9X
NGZ	5.68	216	eP	45 58.60	1.5
CNZ	5.72	216	eP	45 59.70	2.1
RUZ	5.77	217	eP	46 00.10	2.0
PGZ	6.63	204	eP	46 09.50	0.4
MNG	6.92	209	P	46 11.50	-1.4
			S	47 46.20	
KIW	7.36	211	eP	46 17.20	-1.4
MTW	7.38	206	eP	46 17.10	-1.7
CAW	7.50	209	P	46 19.30	-1.2
MRW	7.75	210	eP	46 22.50	-1.2
			S	48 05.70	
DIW	7.75	215	eP	46 24.30	0.5
TCW	7.92	212	eP	46 23.50	-2.5X
			S	48 10.70	
KHZ	9.22	210	P	46 41.60	-1.2
			eS	48 38.40	
CTAO	32.98	287	iPd	50 48.00	-1.7
ASPA	41.27	273	iPd	51 59.70	0.7
	0.6s		8.50nm	4.4mb	
WR2	42.63	278	iPc	52 08.90	-1.1
	0.4s		12.40nm	4.7mb	
SPA	55.56	180	iPc	53 51.20	2.9
	1.0s		15.00nm	4.6mb	
KAF	147.81	337	ePKP	03 45.80	-4.0X
NUR	149.53	336	ePKP	03 51.20	-1.3
LIC	151.39	170	PKP	04 07.90	11.1X
KIC	151.56	170	PKP	04 08.20	11.2X
NAO	152.83	348	PKP	03 58.60	1.2
	0.8s		5.60nm		
HFS	152.92	345	ePKP	03 57.70	0.1
	0.5s		2.20nm		
	S.D. = 1.6	on	24 of 29 obs.		

& SEP 18, 1991 20h 47m 48.92s
58.152 N 142.757 W
DEPTH = 10.0km (geophysicist)
GULF OF ALASKA (15)
<AEIC>. ML 2.8 (AEIC).

WRG	1.93	11	eP	48 17.04	-5.1
			eS	48 38.75	
CYK	1.94	4	eP	48 18.35	-3.9
			eS	48 40.08	
KAIM	1.98	335	eP	48 18.77	-4.0
SNH	2.03	359	iP	48 18.79	-4.9
			eS	48 41.63	
YKU	2.11	47	eP	48 19.43	-5.2
YAH	2.28	13	eP	48 22.47	-4.9
WAX	2.31	359	iP	48 22.22	-5.4
PNL	2.31	47	eP	48 22.49	-5.2
HMT	2.32	341	eP	48 22.22	-5.6
PCA	2.34	32	eP	48 23.00	-5.1
HON	2.40	56	eP	48 23.56	-5.4
			eS	48 49.88	
BCPM	2.42	40	eP	48 24.12	-5.1
			eS	48 50.63	
RAGM	2.45	337	iP	48 25.23	-4.4
TGL	2.61	359	eP	48 26.80	-5.2
CROM	2.62	356	eP	48 26.83	-5.4
SGAM	2.67	333	eP	48 28.54	-4.2
			eS	48 59.16	
CTGM	2.91	14	eP	48 31.11	-5.2
FID	3.23	325	eP	48 36.00	-4.6
LTI	3.24	308	eP	48 36.01	-4.8
GLB	3.34	351	iP	48 36.95	-5.4
KNIM	3.38	313	eP	48 37.58	-5.1
VLZ	3.50	330	eP	48 39.21	-5.1
VZW	3.50	328	eP	48 39.50	-5.0
KLU	3.71	336	eP	48 42.64	-5.0
SLKM	4.49	305	eP	48 54.06	-4.5
CNPM	4.62	291	eP	48 56.74	-3.6
	26 obs. associated				

% SEP 18, 1991 21h 03m 58.26± 0.60s
47.997 N ± 8.6km 6.580 E ± 4.4km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.3 (LDG).

HAU	0.16	273	Pg	04 01.30	-0.6
			Sg	04 04.20	
BSF	0.22	139	Pg	04 02.90	-0.2
			Sg	04 06.80	
CDF	0.62	48	Pg	04 11.20	0.3
			Sg	04 21.60	
FEL	0.97	97	ePg	04 16.52	-0.3
LOR	1.98	249	Pg	04 32.00	-0.2
			Sg	04 54.40	
LBF	2.04	241	Pg	04 32.80	-0.2
			Sg	04 56.00	
SSF	2.28	247	Pg	04 37.00	0.4
			Sg	05 04.80	
SMF	2.30	235	Pg	04 37.50	0.7
			Sg	05 04.80	
	S.D. = 0.5	on	8 of 8 obs.		

? SEP 18, 1991 22h 36m 33.93± 5.29s
4.921 S ±55.7km 145.550 E ±19.5km
DEPTH = 33.0km (normal)
4.2mb (3 obs.)
NEAR N COAST OF NEW GUINEA. PNG.(200)
ML 4.5 (PMG).

MDG	0.40	145	iPd	36 43.70	0.7
YYYY	1.38	163	eP	36 57.40	0.3
			eS	37 13.30	
LAT	2.25	140	iPc	37 09.10	-0.4
MNDI	2.25	237	eP	37 19.00	9.3X
PMG	4.73	160	eP	37 41.00	-3.9X
			eS	38 31.00	
CTAO	15.09	177	eP	40 07.00	0.5
QIS	16.58	200	eP	40 28.00	2.3X

```
                eS     43 25.00
WR2    18.49 215 eP     40 48.30  -1.1
       0.2s     6.60nm          4.5mb
RMO    21.66 172 eP     41 32.00   8.2X
ASPA   21.76 210 iPc    41 26.40   1.6
       0.6s     4.60nm          4.1mb
                eS     45 26.20
STK    27.08 187 eP     42 12.90  -2.6
       0.4s     2.50nm          4.2mb
WARB   27.82 219 eP     42 23.50   1.1
     S.D. = 1.6  on   8 of  12 obs.
-------------------------------------
%  SEP  18, 1991  23h 24m 43.39± 1.03s
   39.292 N ± 9.9km   21.679 E ± 7.7km
   DEPTH =  10.0km  (geophysicist)
 GREECE                          (364)
     MD 2.8 (THE).

AGG     0.57 118 ePd    24 55.14   0.1
                eS     25 03.66
LIT     1.02  38 ePd    25 02.50  -0.2
                eS     25 18.34
IGT     1.07 283 ePd    25 03.34  -0.2
                eS     25 19.50
FNA     1.51 351 ePc    25 11.10   0.6
                iS     25 33.50
GRG     1.75  18 ePc    25 13.74  -0.3
     S.D. = 0.5  on   5 of   5 obs.
-------------------------------------
   SEP  18, 1991  23h 34m 47.93± 0.45s
   14.568 N ± 9.6km   90.953 W ± 7.4km
   DEPTH =   5.0km  (geophysicist)
   4.7mb ( 10 obs.)  4.3Msz (  5 obs.)
 GUATEMALA                       ( 70)
     Felt in the Pochuta-Sololo areo.
     Also felt at Guotemala City.

TPX     1.31 285 iPd    35 10.58  -2.0
                iS     35 25.90
SCX     2.70 323 iP     35 33.26   0.5
                (S)    36 02.27
OXX     6.09 295 iP     36 22.86   1.8
                (S)    37 36.29
LVVM    7.35 315 (P)    36 39.00   0.5
IISM    7.56 306 iP     36 40.00  -1.5
                (S)    38 01.42
IIT     8.32 303 (P)    36 51.00  -1.4
                (S)    38 48.15
PPM     8.60 302 iP     36 57.82   1.2
                (S)    38 22.44
IIA     8.67 303 iP     36 58.00   1.0
III     9.00 296 iP     37 02.00   0.2
IIC     9.47 304 iP     36 58.00 -10.4X
MRX    11.04 299 (P)    37 30.00   0.4
PURC   18.86 129 eP     39 13.28   1.5
SDV    20.67 104 eP     39 29.70  -2.0
TOV    21.22 101 eP     39 46.10   8.9X
MEO    21.27 342 iPd    39 36.00  -1.6
TUL    21.69 349 eP     39 42.50   0.8
       0.6s     4.00nm          4.0mb
     Z 18s      0.28um          3.7Msz
     N 22s      0.78um
     E 22s      0.35um
                e      39 45.20
                eS     43 43.00
                LR     45 36.00
ACO    23.22 343 e(P)   39 59.60   2.7X
ANMO   24.63 328 P      40 12.00   1.2
GOL    28.05 336 P      40 42.20  -0.4
                e      40 49.10
LRM    36.03 334 eP     41 52.20  -0.2
ZOBO   38.04 143 P      42 09.70  -0.2
     Z 22s      0.41um          4.2Msz
                S      48 08.00
                LR     54 24.00
LPB    38.27 143 eP     42 13.00   1.4
CNCB   38.55 143 P      42 14.00  -0.2
CCH    40.09 142 eP     42 26.00  -0.7
PNT    41.84 332 eP     42 44.00   3.6X
       0.7s     4.00nm          4.3mb
SIV    42.35 135 P      42 44.00  -1.0
SCH    44.35  20 eP     43 00.00  -0.8
YKA    50.72 346 eP     43 49.00  -1.4
       0.6s     4.20nm          4.6mb
EKA    76.91  36 P      46 44.00   1.1
       1.3s    29.70nm          5.2mb
GRR    79.32  43 eP     46 55.70  -0.6
       0.8s     8.05nm          4.8mb
FLN    79.51  42 eP     46 56.90  -0.3
       0.8s     5.35nm          4.6mb
     Z 20s      0.17um          4.4Msz
LOR    82.66  43 eP     47 16.00   2 1
       0.8s     4.70nm          4.7mb
     Z 22s      0.32um          4.7Msz
HAU    84.11  42 eP     47 20.20  -1.2
       0.6s     3.60nm          4.8mb
     Z 22s      0.17um          4.4Msz
MOX    86.64  38 eP     47 38.00   4.1X
CLL    87.25  38 eP     47 40.00   3.2X
       1.1s    10.00nm          5.0mb
BRG    87.96  38 eP     47 44.40   4.2X
       1.0s     8.00nm          5.0mb
KHC    88.34  40 eP     47 44.00   1.8
     S.D. = 1.3  on  30 of  37 obs.
-------------------------------------
?  SEP  19, 1991  00h 09m 19.25± 3.73s
   3.775 N ±14.4km   76.978 W ±34.6km
   DEPTH =  33.0km  (normal)
 COLOMBIA                        (103)
     MD 3.1 (UVC).

ANCC    0.28 157 iPd    09 26.90   0.1
                eS     09 32.60
CLMC    0.43  76 eP     09 29.07   0.1
                eS     09 36.40
HOQC    0.46 132 iPd    09 29.34  -0.2
                eS     09 36.80
BUGC    0.73  81 eP     09 33.31   0.1
                eS     09 43.80
HOBC    1.02  56 eP     09 37.21  -0.2
                eS     09 50.60
     S.D. = 0.2  on   5 of   5 obs.
-------------------------------------
*  SEP  19, 1991  00h 31m 32.21± 1.31s
   2.911 N ±17.2km   96.053 E ±11.6km
   DEPTH =  33.0km  (normal)
 NORTHERN SUMATERA, INDONESIA    (706)

TSI     2.57  77 eP     32 12.00  -0.5
                eS     32 45.00
BSI     2.68 344 eP     32 13.00  -0.9
                eS     32 46.00
                e      35 36.00
PSI     2.88  94 iPd    32 17.60   0.9
                e      36 00.00
IPM     5.23  71 ePd    32 50.20   0.0
PKI    26.55 338 P      37 09.80   0.4
KKN    26.79 338 P      37 11.60   0.1
GKN    27.23 338 P      37 16.20   0.8
WR2    43.94 123 eP     39 37.30  -0.8
       0.4s    10.30nm          5.0mb
     S.D. = 0.8  on   8 of   8 obs.
-------------------------------------
*  SEP  19, 1991  01h 07m 48.21± 0.90s
   31.131 S ±10.5km  177.590 W ±15.5km
   DEPTH =  58.8km  (  2 depth phases)
   5.2mb (  9 obs.)
 KERMADEC ISLANDS REGION         (177)

HBZ     7.29 207 eP     09 37.30   2.9
WCZ     8.27 232 eP     09 56.90   9.0X
URZ     8.34 210 eP     09 49.60   0.7
                eS     11 28.90
PGZ    10.69 206 eP     10 19.70  -1.4
MNG    11.00 209 eP     10 22.10  -3.3X
                eS     12 28.70
KIW    11.45 210 eP     10 27.80  -3.5X
KHZ    13.31 210 eP     10 54.00  -1.9
                eS     13 20.20
LTZ    14.16 212 eP     11 05.70  -1.5
MQZ    14.74 209 eP     11 11.70  -2.9X
                eS     13 51.20
DZM    16.87 298 iPc    11 41.80  -0.2
BRS    26.08 271 iPc    13 20.00   1.9
       1.0s     9.00nm          4.3mb
                i      13 34.50  60km
CNB    27.88 252 iPc    13 36.30   1.8
       0.9s    33.00nm          5.0mb
RMO    29.78 270 iPd    14 02.70  11.1X
       0.8s    58.00nm
CMS    31.17 260 eP     14 05.00   1.3
CTAO   34.27 280 iPc    14 30.50  -0.3
       1 0s    97.50nm          5.7mb
                i      14 45.00  57km
STK    34.67 258 eP     14 35.80   1.7
       0.6s    41.10nm          5.5mb
OIS    39.72 275 eP     15 16.00  -0.7
ASPA   43.43 268 iPd    15 46.20  -0.9
       0.7s    22.30nm          5.0mb
     Z 19s      0.80um          4.6Msz
WR2    44.46 273 iPc    15 54.00  -1.4
       0.5s    55.50nm          5.6mb
                eS     22 20.20
WARB   48.76 261 eP     16 28.40  -0.8
COOL   51.89 253 eP     16 52.00  -1.0
MRWA   56.65 254 eP     17 27.00  -0.8
SPA    59.04 180 eP     17 50.00   5.7X
       1.0s    25.50nm          5.3mb
MAW    71.75 201 eP     19 10.80   5.2X
       0.8s    12.00nm          4.9mb
SNA    78.79 178 iPc    19 51.10   5.6X
       0.9s    26.89nm          5.2mb
FBA    98.50  12 (P)    21 21.30   0.6
BUL   123.15 210 iPKPc  26 42.60   2.2
       0.9s     9.24nm
MTD   124.73 215 iPKPc  26 44.00   0.6
GAR   125.01 298 iPKP    26 42.10  -1.4
SOD   140.99 345 ePKP    27 07.00  -5.5X
KAF   145.35 340 iPKP    27 17.70  -2.5
       0.6s    15.10nm
OBN   145.96 325 iPKPd   27 20.40  -1.0
       1.0s    53.00nm
                i      27 25.80
                e      27 40.00
NUR   147.12 340 iPKP    27 23.10   0.0
       0.7s    48.10nm
UPP   149.51 345 ePKP    27 29.00   2.1
NAO   149.78 352 PKP     27 31.50   4.2X
       0.9s    15.50nm
HFS   150.03 349 ePKP    27 30.70   3.0X
       0.6s     5.50nm
BHL   151.90 285 PKP     27 38.00   6.5X
MML   151.97 281 ePKP    27 38.50   7.0X
MBH   152.03 276 ePKP    27 39.20   7.5X
RMN   152.37 277 ePKP    27 39.10   6.9X
CSS   153.85 287 ePKP    27 46.50  12.4X
BBTK  153.90 298 ePKP    27 42.00   7.9X
KIC   154.46 163 PKP     27 46.00  10.6X
KSP   157.76 336 ePKP    27 55.80  17.1X
                e      28 09.80
                i      28 13.70
     S.D. = 1.5  on  25 of  44 obs.
-------------------------------------
&  SEP  19, 1991  01h 35m 55.45s
   57.672 N          154.786 W
   DEPTH =  33.3km
 KODIAK ISLAND REGION            ( 13)
     <AEIC>. ML 3.0 (AEIC).

KDC     1.23  85 eP     36 15.35  -1.1
                eS     36 30.37
CDD     1.40  25 eP     36 17.67  -1.2
                eS     36 35.87
MCNL    1.54   9 eP     36 19.75  -1.1
                eS     36 38.60
SYI     1.58  52 eP     36 20.47  -1.0
                eS     36 39.65
AUI     1.81  23 eP     36 24.13  -0.7
                eS     36 45.34
AGU     1.84  22 eP     36 24.88  -0.4
AUH     1.84  22 eP     36 24.76  -0.5
AUW     1.84  21 eP     36 24.25  -1.0
AUP     1.84  22 eP     36 24.58  -0.8
AUE     1.85  23 eP     36 24.69  -0.6
AUL     1.86  22 eP     36 24.90  -0.6
INE     2.56  20 eP     36 34.18  -1.4
                eS     37 04.56
CNPM    2.63  43 eP     36 34.42  -2.1
                eS     37 03.66
LTI     4.31  54 eP     36 56.46  -3.9
PMS     4.47  34 eP     36 57.98  -4.6
KNIM    4.53  51 eP     36 59.46  -4.0
     16 obs. associated
-------------------------------------
   SEP  19, 1991  01h 41m 48.04± 0.15s
   48.818 N ± 3.3km  154.870 E ± 3.1km
   DEPTH =  35.2km  (  6 depth phases)
   5.6mb ( 96 obs.)  4.8Msz ( 16 obs.)
 KURIL ISLANDS                   (221)
     CENTROID, MOMENT TENSOR     (HRV)
     Data Used: GDSN
```

19d 01h

L.P.B.: 21S, 37C
Centroid Location:
Origin Time 01:41:52.8 0.4
Lat 48.68N 0.05 Lon 155.25E 0.05
Dep 44.7 3.8 Half-duration 1.5
Moment Tensor: Scale 10**16 Nm
Mrr= 6.64 0.26 Mtt= 0.57 0.43
Mff=-7.21 0.36 Mrt= 1.07 0.59
Mrf= 0.30 0.64 Mtf=-5.51 0.41
Principal Axes:
T Val= 6.87 Plg=76 Azm= 17
N 3.23 13 208
P -10.10 3 118
Best Double Couple:Mo=8.5*10**16
NP1:Strike=194 Dip=44 Slip= 71
NP2: 40 49 108

KUSJ 9.10 235 eP 43 58.00 -1.8
eS 45 33.80
ASAJ 9.66 245 eP 44 12.50 4.9X
HOOJ 10.35 236 eP 44 16.90 -0.2
eS 46 08.20
MRRJ 11.58 242 eP 44 33.40 -0.4
eS 46 39.50
OFUJ 13.59 229 P 44 56.70 -3.9X
eS 47 18.50
YAMJ 15.11 231 eP 45 17.40 -3.1X
eS 48 00.80
NIIJ 16.35 231 iPd 45 34.10 -2.3
KAKJ 16.58 226 iP+ 45 36.70 -2.6
S 48 31.30
CHJJ 17.28 228 iPd 45 48.40 -0.7
S 48 51.40
MAT 17.29 231 eP 45 47.00 -1.2
0.9s 83.19nm 4.9mb
eS 49 25.00
MTMJ 17.47 232 iPd 45 50.70 0.2
MDJ 17.80 266 Pc 45 55.20 0.7
1.0s 200.00nm 5.2mb
Z 25s 1.50um 4.8MszX
E 15s 0.70um
ADK 18.36 70 P 46 02.00 0.7
1.0s 48.00nm 4.6mb
TSRJ 19.22 233 P 46 11.80 0.0
WKYJ 20.44 232 P 46 24.70 -0.2
YONJ 20.85 237 P 46 30.20 1.1
CN2 20.86 267 eP 46 26.70 -2.5
0.8s 80.00nm 5.2mb
Z 23s 2.80um 4.6MszX
N 13s 0.60um
E 13s 0.30um
esP 46 47.00
TKSJ 21.43 234 P 46 35.70 0.7
SHNJ 22.95 239 P 46 52.30 2.3
SNY 22.97 264 Pd 46 50.60 0.4
0.6s 40.00nm 5.1mb
Z 20s 0.90um 4.2Msz
KUMJ 24.28 237 eP 47 05.10 2.1
KAGJ 25.28 235 P 47 14.40 1.8
DL2 25.75 260 eP 47 18.50 1.6
1.0s 100.00nm 5.4mb
ANM 26.33 39 eP 47 23.30 1.3
BJI 28.73 267 eP 47 44.00 0.0
1.0s 20.00nm 4.8mb
TTA 30.10 44 ePc 47 56.30 0.2
1.2s 139.90nm 5.6mb
e 48 07.30 40km
e 50 57.40
SVW 30.18 47 iPc 47 57.80 0.9
1.0s 135.00nm 5.7mb
pP 48 10.00 47kmX
TIA 30.22 260 eP 47 56.60 -0.8
SSE 30.97 248 iPc 48 05.00 1.0
1.0s 49.00nm 5.2mb
Z 20s 0.90um 4.4Msz
eS 53 12.00
HHC 31.37 272 P 48 07.00 -0.6
1.0s 60.00nm 5.4mb
Z 25s 1.50um 4.6MszX
IMA 31.44 38 iPc 48 07.90 -0.1
e 48 20.90 51kmX
i 51 01.30
BRW 31.58 27 ePc 48 09.30 0.3
RSO 31.60 49 P 48 09.50 0.0
NJ2 31.76 252 Pd 48 11.20 0.3
1.0s 100.00nm 5.6mb
Z 20s [illegible] 4.3Msz

sP 48 28.50
IRK 31.78 296 eP 48 10.00 -1.0
e 48 32.30 98kmX
KDC 31.95 54 eP 48 10.80 -1.5
TIY 32.44 266 iPd 48 17.00 0.1
1.0s 100.00nm 5.7mb
Z 32s 0.60um 4.1MszX
N 15s 0.40um
BTO 32.52 272 eP 48 17.00 -0.6
SLKM 32.85 48 P 48 19.70 -0.5
PMR 33.30 46 ePc 48 22.50 -1.5
1.1s 79.20nm 5.5mb
e 51 05.20
FBA 33.81 40 iPc 48 29.00 0.5
0.8s 195.60nm 6.1mb
TOA 34.66 45 ePc 48 36.70 0.8
WHN 35.62 254 iPc 48 44.50 0.3
BALM 36.62 47 P 48 51.80 -0.7
XAN 36.90 264 eP 48 52.80 -2.3
QZH 37.02 243 Pc 48 58.00 1.9
0.8s 100.00nm 5.7mb
LZH 39.03 270 iPc 49 13.00 -0.1
1.2s 110.00nm 5.5mb
Z 25s 0.74um 4.4MszX
N 16s 0.62um
sP 49 31.00
GTA 39.84 278 Pc 49 20.00 0.2
1.0s 40.00nm 5.1mb
Z 16s 1.20um 4.8MszX
sP 49 35.00
S 55 16.50
GZH 41.56 247 iPc 49 34.90 1.1
CD2 42.25 264 P 49 39.60 0.1
0.8s 60.00nm 5.4mb
GYA 43.33 257 iPc 49 48.80 0.4
1.0s 100.00nm 5.5mb
S 56 12.60
WMQ 45.30 290 P 50 04.00 -0.1
Z 20s 1.20um 4.8Msz
PcS 55 36.50
QIZ 46.75 247 Pc 50 17.60 1.9
KMI 46.79 259 Pc 50 16.00 -0.2
1.0s 240.00nm 6.1mb
YKA 48.56 38 eP 50 29.60 0.3
0.9s 54.10nm 5.6mb
PGC 51.31 57 eP 50 50.00 -0.5
LSA 51.35 273 P 50 50.10 -1.6
LOE 53.01 253 eP 51 03.00 -0.6
PNT 53.04 55 iPc 51 05.50 2.0
0.8s 33.00nm 5.4mb
KKM 53.71 230 ePc 51 09.00 0.1
CHG 53.75 257 iPc 51 09.90 0.9
0.8s 13.06nm 5.0mb
DAG 54.62 358 eP 51 12.00 -2.8
NST 55.32 253 eP 51 22.80 2.3
KEV 55.79 341 eP 51 11.00 -12.3X
GUN 56.00 275 Pd 51 25.40 -0.4
0.5s 69.00nm 6.0mb
KKN 56.48 275 Pd 51 28.84 -0.3
0.7s 318.00nm 6.4mb
PKI 56.54 275 Pd 51 29.28 -0.4
0.7s 91.00nm 5.9mb
DMN 56.71 275 Pd 51 30.84 0.0
GKN 56.76 276 Pd 51 30.80 -0.2
0.6s 222.00nm 6.4mb
KHT 56.96 254 iPc 51 33.00 0.7
SOD 57.75 339 iP 51 34.70 -2.6
ORV 57.81 65 P 51 37.00 -1.1
PCI 58.04 223 ePd 51 39.40 -0.4
FFC 58.40 42 eP 51 41.00 -1.0
0.7s 64.00nm 5.8mb
GAR 58.72 295 iP 51 42.50 -2.1
LRM 59.01 55 eP 51 46.20 -0.6
CMB 59.45 66 P 51 49.60 0.0
1.0s 17.50nm 5.1mb
NDI 61.15 281 iPd 52 01.00 -0.2
KAF 62.06 335 iP 52 04.70 -2.2
0.6s 11.50nm 5.2mb
BW06 62.58 56 P 52 10.50 -0.5
1.0s 68.33nm 5.7mb
pP 52 20.00 31km
FRB 62.70 20 ePc 52 09.70 -1.4
0.5s 71.00nm 6.1mb
NUR 63.84 335 iP 52 15.70 -2.9
MSU 63.98 61 P 52 20.00 -0.3
PEC 64.15 67 P 52 20.10 -1.1
OBN 64.27 326 eP 52 20.00 -1.5

1.2s 26.00nm 5.2mb
Z 20s 0.60um 4.8Msz
N 18s 0.40um
E 20s 0.40um
e 52 34.00 50kmX
i 52 55.00
RSSD 64.60 51 P 52 23.00 -1.1
1.0s 108.46nm 5.9mb
PLM 64.70 68 P 52 23.10 -1.8
MTN 64.89 206 iPd 52 25.40 -0.5
0.9s 343.00nm 6.4mb
AKU 65.70 357 iP 52 29.70 -0.9
0.9s 33.61nm 5.4mb
PV09 65.73 59 P 52 31.10 -0.5
pP 52 43.10 41km
UPP 66.24 338 iP 52 32.30 -1.8
MAIO 66.90 299 eP 52 51.00 12.1X
NAO 66.92 342 P 52 35.80 -2.7
0.7s 11.70nm 5.1mb
HFS 66.92 340 eP 52 36.40 -2.1
0.6s 26.20nm 5.5mb
Z 18s 0.37um 4.6Msz
LR 18 18.00
GOL 66.98 56 P 52 39.50 0.0
1.0s 11.25nm 4.9mb
pP 52 49.20 31km
HYB 68.13 272 iPc 52 46.00 -0.7
1.0s 140.00nm 6.0mb
e 53 11.00 98kmX
KNA 68.34 207 eP 52 47.60 -0.2
ANMO 69.76 60 P 52 56.50 -0.2
1.0s 35.00nm 5.4mb
QIS 70.39 195 iPc 52 58.90 -1.4
1.0s 37.00nm 5.4mb
POO 70.43 276 iPd 53 00.00 -0.8
BOM 70.85 277 eP 53 03.90 0.6
WR2 70.86 200 iPd 53 02.40 -0.8
0.6s 56.10nm 5.8mb
i 53 23.20 79kmX
i 53 39.40
SCH 70.97 24 ePc 53 03.10 -0.4
0.4s 51.00nm 5.9mb
DZM 71.32 169 iPc 53 06.40 0.4
GBA 71.63 270 Pd 53 08.30 0.3
0.8s 67.50nm 5.7mb
ACO 72.53 54 iPc 53 13.10 0.0
KOD 74.08 267 eP 53 22.90 0.1
KRA 74.17 332 eP 53 22.50 0.1
0.7s 34.00nm 5.4mb
Z 20s 0.80um 5.0Msz
e 53 29.40 22kmX
MEO 74.26 55 iPc 53 23.00 -0.3
ASPA 74.55 200 iPc 53 25.20 0.3
0.5s 78.30nm 6.0mb
KSP 74.57 334 iP 53 24.20 -0.5
1.0s 44.00nm 5.4mb
EKA 74.60 347 Pc 53 24.50 -0.3
0.7s 34.20nm 5.4mb
SIO 74.75 53 eP 53 25.70 -0.4
SPC 74.83 331 eP 53 26.50 0.0
e 18 18.00
TUL 74.90 53 iPc 53 26.30 -0.6
0.6s 27.00nm 5.4mb
Z 18s 0.18um 4.4Msz
N 18s 0.19um
E 22s 0.20um
LR 21 51.00
CLL 75.06 336 iPd 53 27.10 -0.4
1.3s 51.00nm 5.4mb
i 53 33.20 20kmX
RMQ 75.16 186 iPc 53 39.00 10.7X
0.9s 119.00nm
BRG 75.20 336 iP 53 27.70 -0.6
1.1s 25.00nm 5.1mb
i 53 34.30 21kmX
i 53 44.20
WIT 75.20 341 eP 53 30.00 1.7
VRI 75.43 325 eP 53 29.60 -0.1
PRU 75.83 335 Pd 53 32.50 0.6
1.2s 33.30nm 5.2mb
Z 20s 1.40um 5.3Msz
e 53 35.40 9kmX
BRS 75.88 182 iPc 53 33.00 0.6
1.0s 5.00nm 4.5mb X
WTS 75.94 340 iP 53 33.00 0.5
1.0s 49.00nm 5.4mb
FVM 76.02 48 P 53 32.40 -0.8

0.8s 60.61nm 5.6mb
OX 76.03 337 iP 53 33.00 -0.1
1.5s 39.00nm 5.2mb
MLR 76.04 326 eP 53 33.00 -0.4
PSZ 76.05 331 iP 53 33.90 0.6
HOF 76.26 337 iPd 53 34.50 0.1
1.0s 16.00nm 5.0mb
MBL 76.36 213 eP 53 34.80 -0.4
ZST 76.69 332 eP 53 37.50 0.7
e 18 37.70
BUD 76.72 331 eP 53 37.00 0.1
VKA 76.86 333 e(P) 53 36.00 -1.8
e 54 13.00 149kmX
KHC 76.88 335 Pc 53 37.50 -0.4
1.2s 32.00nm 5.2mb
Z 20s 1.00um 5.1Msz
N 20s 0.40um
E 20s 0.50um
e 53 58.50 79kmX
GRF 77.00 337 iPc 53 39.20 0.7
1.1s 75.00nm 5.6mb
Z 20s 0.40um 4.7Msz
e 53 40.40 4kmX
e 53 43.80
WET 77.06 335 eP 53 39.50 0.6
DCN 77.10 349 iPc 53 39.10 0.2
0.6s 155.00nm 6.2mb
ENN 77.28 340 iPc 53 40.10 0.1
1.0s 101.00nm 5.8mb
MEM 77.41 340 iPd 53 40.69 0.0
ETA 77.59 348 eP 53 41.80 0.1
UCC 77.59 341 P 53 42.60 0.9
UZD 77.65 331 eP 53 42.00 -0.1
SNF 77.88 341 iPc 53 43.34 0.1
BBTK 77.97 318 iP 53 45.00 0.8
ECP 78.12 348 iPc 53 44.80 0.3
0.7s 254.00nm 6.4mb
DOU 78.21 341 P 53 45.30 0.2
BHG 78.35 335 iPd 53 47.00 1.0
FUR 78.39 336 eP 53 46.80 0.6
1.2s 58.00nm 5.5mb
BEO 78.58 329 eP 53 46.70 -0.5
BNH 78.60 32 P 53 48.10 0.7
KBA 78.81 334 iPc 53 49.00 0.3
0.9s 129.00nm 5.9mb
ic 53 49.50 2kmX
WARB 78.82 206 iPc 53 44.90 -3.8X
PTJ 79.09 332 iPd 53 50.30 0.2
WTTA 79.12 335 iPc 53 51.00 0.6
1.5s 269.00nm 6.0mb
i 53 59.70 28km
i 54 08.00
CDF 79.18 339 iPc 53 50.70 0.1
1.0s 64.00nm 5.6mb
NANU 79.27 217 eP 53 52.50 1.4
FVI 79.41 334 P 53 52.80 1.1
SLE 79.48 338 ePc 53 51.80 -0.3
OGA 79.65 336 iPc 53 54.30 1.0
0.8s 48.00nm 5.5mb
VBY 79.66 332 eP 53 53.30 0.2
e 54 05.60 41km
ZLA 79.77 338 eP+ 53 53.60 -0.1
HAU 79.78 339 iPc 53 53.30 -0.4
1.0s 56.00nm 5.5mb
Z 22s 0.70um 5.0Msz
BSF 79.83 339 iPc 53 53.90 -0.3
1.1s 48.85nm 5.4mb
RDO 79.89 324 eP 53 54.70 0.3
TRI 79.93 333 ePc 53 53.80 -0.7
OSS 80.05 336 ePc 53 55.90 0.5
VVI 80.07 334 P 53 55.10 -0.2
LLS 80.18 337 ePc 53 56.50 0.3
CTI 80.23 335 P 53 56.00 -0.3
CMS 80.35 188 iPc 53 57.60 0.8
1.0s 37.00nm 5.3mb
VDL 80.41 337 ePc 53 58.00 0.6
FLN 80.50 344 iPc 53 57.70 0.2
0.8s 83.95nm 5.8mb
Z 20s 0.52um 4.9Msz
LDF 80.59 343 iPc 53 58.10 0.1
1.0s 90.00nm 5.7mb
EZN 80.71 322 eP 53 58.50 -0.2
SKO 80.73 327 iP 53 59.00 0.2
TMA 80.92 337 ePc 54 00.30 0.3
GRR 80.92 344 iPc 54 00.20 0.4
LOR 81.04 340 iPc 54 00.50 0.1
0.8s 62.95nm 5.7mb

Z 20s 0.57um 4.9Msz
MMK 81.21 337 ePc 54 02.20 0.6
STK 81.21 191 eP 54 01.50 0.2
0.6s 9.80nm 5.0mb
PRK 81.22 322 eP 54 01.30 -0.1
LBF 81.28 340 iPc 54 01.80 0.1
0.8s 37.60nm 5.4mb
BLA 81.29 42 P 54 01.80 -0.1
1.1s 43.75nm 5.4mb
LPF 81.30 344 iPc 54 02.40 0.7
0.9s 111.40nm 5.9mb
SSF 81.31 341 iPc 54 02.00 0.2
DIX 81.32 338 ePc 54 03.10 0.9
EMS 81.45 338 ePc 54 03.60 0.8
BST 81.56 346 P 54 03.94 0.9
ORX 81.59 337 P 54 03.34 -0.1
AVF 81.60 341 iPc 54 03.80 0.5
SMF 81.63 340 iPc 54 03.80 0.3
OHR 81.71 327 eP 54 03.70 -0.4
CSS 81.72 315 eP 54 04.00 -0.2
CBN 81.76 39 eP 54 04.00 -0.3
1.1s 38.80nm 5.3mb
ELL 81.79 318 iP 54 04.50 -0.1
BGF 81.93 341 iPc 54 05.40 0.3
0.6s 26.15nm 5.4mb
HRI 81.94 312 iPc 54 11.20 5.7X
LSD 81.97 338 P 54 06.52 0.9
LPL 82.02 338 iPc 54 07.00 1.2
LPG 82.03 338 iPc 54 07.10 1.1
0.7s 103.35nm 6.0mb
KZN 82.06 326 eP 54 05.20 -0.7
SFI 82.12 334 Pc 54 07.40 1.4
ARV 82.18 333 Pc 54 06.90 0.5
MME 82.19 335 P 54 08.20 1.4
PGD 82.20 334 Pc 54 08.20 1.5
RSP 82.23 338 P 54 06.52 -0.3
MAF 82.31 341 iPc 54 08.00 0.9
PLDF 82.32 340 P 54 08.87 1.7
TCF 82.33 341 iPc 54 07.80 0.6
BDI 82.34 335 P 54 07.50 0.1
AGO 82.35 341 P 54 09.14 1.8
CRE 82.36 334 P 54 08.30 0.9
PCP 82.46 336 P 54 07.85 -0.1
BNI 82.46 338 Pc 54 09.20 1.2
MFF 82.51 343 iPc 54 08.90 0.9
0.8s 77.90nm 5.8mb
LSF 82.51 342 iPc 54 08.70 0.6
BHB 82.51 337 P 54 06.73 -1.4
RRL 82.56 338 P 54 09.49 0.8
CKI 82.64 337 Pc 54 08.80 0.0
ASS 82.65 333 P 54 09.40 0.4
PYM 82.67 341 P 54 10.61 1.6
PII 82.68 335 P 54 08.50 -0.5
SSB 82.77 339 P 54 10.26 0.8
MJMA 82.77 301 iPc 54 09.30 -0.5
DOI 82.83 337 Pc 54 08.80 -1.1
FORR 82.84 203 eP 54 10.10 0.4
0.4s 35.00nm 5.8mb
FIN 82.86 337 P 54 09.49 -0.5
ROB 82.87 337 P 54 09.70 -0.4
PZZ 82.87 337 P 54 09.39 -0.8
ENR 83.05 337 P 54 10.01 -1.0
STV 83.06 337 P 54 10.01 -1.0
BWA 83.07 185 eP 54 11.60 0.7
AOU 83.08 332 P 54 12.40 1.2
LBL 83.10 340 P 54 12.91 1.6
IMI 83.22 337 P 54 11.85 0.0
DUI 83.38 331 P 54 13.40 0.7
SBF 83.38 337 iPc 54 13.00 0.3
AZI 83.41 332 P 54 13.38 0.7
0.7s 33.30nm 5.6mb
LCI 83 41 328 P 54 12.60 -0.2
RJF 83.41 341 iPc 54 13.40 0.6
1.0s 102.00nm 5.9mb
Z 20s 0.47um 4.9Msz
DSI 83.50 312 iPc 54 19.20 5.8X
CAF 83.66 341 iPc 54 15.30 1.2
RMP 83.79 333 P 54 15.00 0.3
FRF 83.87 337 iPc 54 15.50 0.4
1.1s 92.80nm 5.8mb
LFF 83.92 342 iPc 54 16.50 1.2
0.8s 85.95nm 5.9mb
CAN 83.93 185 eP 54 15.80 0.5
CDR 83.98 338 iPc 54 16.40 0.7
LRG 84.04 338 iPc 54 16 80 0.9
0.8s 146.90nm 6.2mb
Z 22s 0.55um 4.9Msz

LPO 84.07 341 iPc 54 17.00 0.9
0.8s 59.10nm 5.8mb
SGO 84.10 330 P 54 16.30 0.0
LMR 84.12 337 iPc 54 17.00 0.7
PGF 84.19 335 iPc 54 17.20 0.3
0.8s 44.35nm 5.7mb
MGR 84.40 330 P 54 17.50 -0.3
CSI 84.48 329 P 54 18.40 0.2
ROI 84.57 329 P 54 19.50 0.8
TDS 84.57 329 Pc 54 19.00 0.3
VLI 84.73 323 eP 54 17.30 -2.2
NPS 84.89 320 eP 54 19.00 -1.4
SAGI 84.96 311 iPc 54 26.60 5.8X
CZI 85.03 329 P 54 19.50 -1.4
MRWA 85.10 213 iPc 54 21.20 0.0
GRI 85.29 329 P 54 22.52 0.2
1.0s 97.40nm 6.0mb
AYN 85.38 310 eP 54 21.30 -1.6
HQL 85.54 311 iP 54 24.00 0.3
LSPF 85.58 340 P 54 24.29 0.6
LESF 85.63 341 P 54 24.67 0.7
GRBF 85.76 341 P 54 24.73 0.0
PERF 85.80 340 P 54 25.14 0.3
EPF 85.83 342 iPc 54 25.50 0.5
0.6s 13.55nm 5.3mb
ENSF 86.05 342 P 54 27.60 1.4
SOI 86.09 329 Pc 54 25.90 -0.3
BAL 86.11 212 iPc 54 26.20 0.0
0.5s 23.00nm 5.7mb
BADA 86.17 310 eP 54 26.00 -0.8
ATN 86.21 329 P 54 25.10 -1.8
MEU 87.35 329 P 54 32.60 0.0
PZI 87.42 329 P 54 33.02 0.2
0.9s 131.10nm 6.2mb
MUN 87.53 212 eP 54 33.20 0.1
NWAO 88.04 211 iPc 54 35.40 -0.1
0.6s 27.00nm 5.7mb
TOL 89.73 344 iP 54 43.50 -0.3
1.3s 57.69nm 5.7mb
TIC 122.03 336 PKPc 00 39.92 -0.6
KIC 122.22 336 PKPc 00 40.22 -0.6
0.9s 12.50nm
LIC 122.43 336 PKPc 00 40.60 -0.6
MTD 124.25 284 iPKPc 00 42.10 -2.7
LSZ 125.28 289 iPKPd 00 48.00 1.1
KRI 125.54 286 iPKPc 00 48.50 1.1
BUL 128.62 284 iPKPc 00 52.60 -0.6
1.0s 19.00nm
ZOBO 132.32 62 PKP 01 01.00 0.1
LPB 132.54 63 PKP 01 02.20 1.1
1.0s 52.00nm
CNCB 132.83 63 PKP 01 03.00 1.2
PRY 134.14 279 ePKP 01 04.00 0.4
1.0s 10.00nm
CCH 134.35 61 ePKP 01 02.00 -2.4
SEK 134.98 277 ePKP 01 04.40 -0.7
0.7s 44.52nm
i 01 07.50
BLF 136.44 278 ePKP 01 07.00 -0.9
KIM 137.13 279 iPKPc 01 06.50 -2.7
0.9s 34.45nm
FRS 137.43 278 ePKP 01 03.20 -6.3X
0.7s 13.70nm
i 01 11.00
HVD 137.87 276 ePKP 01 16.30 5.7X
0.6s 13.33nm
POF 140.68 283 ePKP 01 11.50 -3.9X
CER 143.69 278 ePKP 01 17.50 -3.1X
0.9s 130.77nm
PPD 146.12 47 ePKP 01 25.40 0.4
i 01 27.90
e 01 42.80
ITB1 146.71 54 PKPd 01 28.00 2.2
ITB 146.93 54 e(PKP) 01 28.50 2.3
VAO 148.97 42 iPKPc 01 33.70 4.1X
e 01 38.40
e 01 47.20
BMA 149.87 37 ePKP 01 36.30 5.3X
SNA 155.85 199 e(PKP) 01 37.00 -0.9
0.9s 33.61nm
S.D. = 1.0 on 287 of 303 obs.

SEP 19, 1991 02h 14m 09.24± 0.41s
36.143 N ± 4.5km 35.861 E ± 5.8km
DEPTH = 10.0km (geophysicist)
4.4mb (10 obs.)
TURKEY (366)

19d 02h

ML 4.6 (CSS).

FAM	1.90	233	eP	14	42.80	0.8
			eS	15	17.40	
LFK	2.08	246	iPn	14	39.80	-4.9X
BHL	2.24	184	Pn	14	46.00	-1.0
			Sn	15	18.00	
CSS	2.38	241	eP	14	48.50	-0.4
			eS	15	29.00	
HRI	2.87	182	iPd	14	56.90	0.9
PPCY	3.13	247	eP	15	00.60	1.1
			eS	15	48.50	
ZNT	3.96	190	eP	15	12.00	0.7
			eS	15	56.80	
BBTK	4.43	327	eP	15	22.00	3.9X
			eS	16	32.00	
DSI	4.58	185	iPd	15	20.70	0.6
MKT	5.22	187	eP	15	30.10	0.9
			eS	16	29.70	
MSL	5.89	86	ePn	15	54.00	15.3X
			ePg	16	23.00	
			eSn	17	00.00	
			iS*	17	18.00	
			iSg	17	31.00	
MBH	6.41	188	eP	15	45.80	-0.3
AYN	7.25	179	eP	16	04.00	6.2X
BHD	7.58	110	ePn	16	34.00	31.6X
			eP*	16	41.00	
			eSn	17	52.50	
			eS*	18	15.00	
BADA	7.63	186	iP	16	02.00	-1.1
SLY	7.84	91	ePn	16	46.00	39.9X
			eP*	17	02.00	
			eSn	18	07.00	
			eS*	18	30.50	
MJMA	13.05	139	eP	17	15.30	-2.1
OBN	18.97	1	eP	18	39.00	6.2X
MAIO	19.06	83	eP	18	35.00	0.8
SFI	19.91	300	P	18	48.90	5.2X
KSP	20.34	322	eP	18	48.70	0.5
PRU	20.74	318	Pd	18	52.60	0.3
			e	18	56.40	
			e	19	07.90	
MME	20.78	300	P	18	47.00	-6.2X
KHC	20.81	315	Pd	18	53.50	0.3
			e	19	20.80	
PGF	21.68	295	eP	19	03.20	1.0
	0.9s	11.45nm			4.3mb	
BNI	23.78	301	P	19	25.90	3.1X
LPG	23.82	302	eP	19	24.50	1.2
	0.8s	12.10nm			4.5mb	
LPL	23.84	302	eP	19	24.90	1.5
	0.6s	4.50nm			4.2mb	
LBF	26.03	305	eP	19	43.40	-0.7
	1.0s	6.00nm			4.2mb	
SMF	26.05	304	eP	19	42.90	-1.4
	0.8s	9.40nm			4.5mb	
LOR	26.17	305	eP	19	44.60	-0.8
	1.0s	9.00nm			4.4mb	
SSF	26.36	305	eP	19	45.90	-1.2
	0.8s	8.05nm			4.5mb	
AVF	26.41	304	eP	19	46.80	-0.7
	0.8s	4.70nm			4.2mb	
TCF	27.09	302	eP	19	52.60	-1.2
	1.0s	6.00nm			4.2mb	
RJF	27.42	300	eP	19	56.70	-0.1
	0.8s	8.05nm			4.5mb	
GKN	41.76	87	P	22	01.40	0.9
KKN	42.37	87	P	22	06.20	0.6
KIC	47.51	241	P	22	45.60	-1.0

S.D. = 1.0 on 28 of 38 obs.

SEP 19, 1991 02h 55m 42.17± 0.72s
13.511 N ± 6.6km 92.138 W ± 6.2km
DEPTH = 36.2 ± 6.7 km
4.9mb (30 obs.) 4.6Msz (7 obs.)
OFF COAST OF CHIAPAS, MEXICO (68)

TPX	1.39	355	iP	56	06.00	0.5
			iS	56	25.50	
SCX	3.24	352	iP	56	34.50	2.6
			iS	57	13.50	
OXX	5.67	309	iP	57	05.25	-1.2
IISM	7.41	318	eP	57	28.00	-2.7
LVVM	7.44	327	(P)	57	25.50	-5.6X
IIT	8.07	314	(P)	57	41.00	0.8
PPM	8.32	312	iP	57	44.50	0.5
IIA	8.40	313	(P)	57	44.00	-0.5
III	8.55	305	(P)	57	45.00	-1.8
MRX	10.64	307	(P)	58	14.00	-1.3
UPA	13.15	109	iPd-	58	50.00	0.8
	1.0s	50.00nm			5.5mb	
Z	20s	2.13um			4.3MszX	
ANCC	18.06	122	ePd	59	53.06	0.8
HOBC	18.23	118	ePd	59	54.09	-0.3
HOOC	18.28	122	ePd	59	55.40	0.2
BUGC	18.36	120	eP	59	53.24	-2.8
CUMC	18.84	130	eP	00	02.44	0.1
PSO	19.10	129	eP	00	06.50	1.2
PURC	19.16	124	ePd	00	06.44	0.4
BMG	19.81	107	eP	00	14.00	1.2
BOG	19.90	115	eP	00	17.00	3.0X
			eS	04	08.00	
SDV	21.58	100	iPd	00	31.40	0.2
MEO	21.97	346	iPd	00	33.30	-1.4
TOV	22.19	97	eP	00	39.10	2.0
SIO	22.46	351	eP	00	39.50	0.0
TUL	22.54	352	eP	00	39.30	-1.1
	0.8s	8.10nm			4.2mb	
Z	22s	0.61um			4.0Msz	
N	24s	0.76um				
E	24s	0.22um				
			eS	04	47.00	
			LR	07	23.00	
ACO	23.93	346	iPd	00	54.90	1.0
ANMO	24.96	331	P	01	05.30	1.3
OLLA	25.04	95	iP	01	05.80	1.0
BLA	25.82	22	P	01	10.20	-1.7
GLA	28.39	317	P	01	36.00	0.6
GLD	28.56	339	P	01	38.60	1.5
GOL	28.57	338	P	01	38.00	0.7
	0.9s	8.52nm			4.4mb	
PLM	29.94	315	P	01	50.00	0.5
PEC	30.46	316	P	01	54.00	0.1
MSU	30.59	328	P	01	55.60	0.4
DAU	31.61	332	P	02	05.20	0.9
RSSD	32.16	344	P	02	08.20	-0.8
	0.8s	8.01nm			4.7mb	
ABL	32.40	316	P	02	11.40	0.2
BW06	32.82	336	P	02	14.60	-0.1
BONR	33.66	321	P	02	23.10	0.9
PHAM	33.75	316	P	02	23.20	0.6
KVN	34.25	323	P	02	28.40	1.3
CMB	35.01	319	P	02	33.40	-0.1
	1.1s	13.73nm			4.8mb	
HPI	35.06	333	P	02	35.40	1.3
LRM	36.50	336	eP	02	46.40	0.2
ZOBO	37.93	141	P	02	58.00	-0.9
Z	20s	0.57um			4.4Msz	
			S	08	44.00	
			LR	14	58.00	
LBFM	37.95	323	P	02	58.60	0.2
LPB	38.15	141	P	03	02.00	1.5
CNCB	38.43	141	P	03	02.60	-0.5
			i	05	17.00	
CCH	40.01	139	P	03	14.80	-1.1
NEW	40.37	334	P	03	19.00	0.8
	0.9s	6.58nm			4.4mb	
LON	41.44	329	P	03	27.50	0.5
FFC	41.84	351	eP	03	30.00	-0.1
	0.5s	8.00nm			4.7mb	
SIV	42.46	133	Pd	03	35.20	-0.5
PGC	43.54	330	eP	03	44.00	-0.1
SCH	45.73	20	eP	04	01.00	-0.6
YKA	51.47	347	eP	04	45.50	-0.4
	1.2s	29.60nm			5.1mb	
VAO	57.20	129	(P)	05	26.00	-2.5
EKA	78.44	36	P	07	40.00	-0.8
	0.8s	19.00nm			5.2mb	
GRR	80.88	42	eP	07	53.20	-0.9
	1.0s	20.00nm			5.1mb	
LDF	81.32	42	eP	07	55.40	-1.0
	1.2s	17.85nm			4.9mb	
LFF	82.60	46	eP	08	02.30	-0.8
	1.0s	8.00nm			4.7mb	
RJF	83.07	45	eP	08	04.40	-1.1
	1.0s	10.00nm			4.9mb	
Z	20s	0.35um			4.7Msz	
TCF	83.33	44	eP	08	05.70	-1.2
	1.0s	6.00nm			4.7mb	
MAF	83.59	44	eP	08	07.30	-0.9
	1.2s	11.90nm			4.9mb	
BGF	83.70	44	eP	08	07.80	-1.0
	1.2s	17.85nm			5.1mb	
AVF	83.99	43	eP	08	09.10	-1.1
	0.8s	4.05nm			4.6mb	
SSF	84.03	43	eP	08	09.20	-1.2
	1.0s	8.00nm			4.8mb	
LOR	84.22	43	eP	08	10.50	-0.9
	1.2s	20.85nm			5.2mb	
Z	20s	0.25um			4.6Msz	
SMF	84.35	44	eP	08	10.60	-1.4
	0.8s	5.35nm			4.8mb	
LBF	84.36	43	eP	08	11.00	-1.1
	1.2s	8.95nm			4.8mb	
NAO	84.53	29	P	08	14.10	1.5
	0.9s	6.50nm			4.8mb	
HAU	85.66	42	eP	08	18.00	-0.6
	0.6s	6.30nm			5.0mb	
Z	20s	0.28um			4.6Msz	
TIC	85.68	84	PKP	08	20.60	1.3
LIC	85.77	85	PKP	08	21.00	1.3
BSF	86.00	42	eP	08	19.30	-1.1
	0.6s	3.60nm			4.8mb	
KIC	86.02	84	PKP	08	21.80	0.9
HFS	86.09	29	eP	08	20.90	0.5
	0.5s	2.20nm			4.6mb	
CDF	86.15	41	eP	08	20.50	-0.6
	0.8s	5.35nm			4.8mb	
LPL	86.58	44	eP	08	23.40	0.0
	1.2s	11.90nm			5.0mb	
LPG	86.60	44	eP	08	23.80	0.2
	1.2s	11.90nm			5.0mb	
SOD	88.11	20	iP	08	30.80	0.7
MOX	88.18	38	eP	08	30.00	-0.7
GRF	88.25	39	ePc	08	33.30	2.2
	3.1s	248.00nm			6.0mb	X
Z	18s	0.30um			4.8Msz	
		e		08	35.50	
		e		08	42.70	
		e		08	53.30	
CLL	88.78	37	eP	08	37.00	3.4X
	1.2s	48.00nm			5.7mb	
BRG	89.49	38	eP	08	40.80	3.8X
	1.2s	10.00nm			5.0mb	
		e		09	11.20	
OBN	99.20	27	eP	09	24.00	2.7X
Z	20s	0.50um			5.0Msz	
		LQ		42	40.00	
LZH	128.41	343	ePKP	14	47.50	0.1
	2.0s	25.00nm				
WR2	135.12	255	ePKP	14	58.60	-1.8
	0.5s	3.70nm				
		i		15	12.30	
		i		15	23.10	
PKI	139.09	3	PKP	15	00.00	-8.1X
POO	145.29	24	iPKPc	15	17.60	-1.1
CHG	146.07	341	ePKP	15	20.30	0.3
	1.2s	54.69nm				
LOE	146.37	336	ePKP	15	21.00	0.5
HYB	147.92	17	ePKP	15	23.00	0.0
	1.0s	60.00nm				
		e		15	26.00	
MUN	148.20	230	ePKP	15	25.30	2.3
BAL	148.45	233	ePKP	15	25.40	1.9
NST	148.57	337	ePKP	15	30.00	6.0X
GBA	151.15	21	PKPc	15	28.80	0.9
	0.8s	3.50nm				
KOD	154.25	24	ePKP	15	43.20	10.4X

S.D. = 1.1 on 91 of 99 obs.

? SEP 19, 1991 04h 20m 09.24± 4.16s
3.704 N ±39.4km 77.022 W ±72.6km
DEPTH = 90.0km (geophysicist)
NEAR WEST COAST OF COLOMBIA (102)
MD 2.5 (UVC).

ANCC	0.24	140	eP	20	22.52	-0.1
			eS	20	32.80	
HOOC	0.45	121	ePd	20	23.71	-0.5
			eS	20	34.90	
CLMC	0.49	69	eP	20	24.08	-0.2
			eS	20	35.50	
HOBC	1.10	54	eP	20	30.07	-0.4

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

SEP 19, 1991 04h 23m 56.77± 0.58s
26.323 N ± 9.0km 92.211 E ± 6.3km
DEPTH = 33.0km (normal)
4.7mb (11 obs.)
NORTHEASTERN INDIA (317)

Felt at Gauhati.

SHL	0.81	201	iP	24	13.30	1.4
			eS	24	23.10	
LSA	3.49	345	Pnc	24	52.60	2.1
			Pg	25	01.60	
GUN	5.86	287	P	25	23.62	-0.4
PKI	6.20	283	P	25	27.72	-1.0
KKN	6.35	285	P	25	30.08	-0.7
DMN	6.47	283	P	25	31.88	-0.6
GKN	6.95	286	P	25	38.42	-0.7
KMI	9.57	95	eP	26	17.00	1.5
CHG	9.72	139	eP	26	15.00	-2.4
NDI	13.52	283	eP	27	11.00	2.4
			eS	29	37.00	
LZH	13.91	43	eP	27	13.80	-0.1
	1.2s	29.00nm			4.9mb	
			pP	27	25.00	
			sP	27	30.50	
GTA	14.52	24	P	27	20.60	-1.3
	0.8s	10.00nm			4.4mb	
			pP	27	29.60	
HYB	15.46	238	eP	27	29.00	-5.1X
			eS	30	18.00	
XAN	16.36	58	eP	27	43.50	-2.0
OIZ	17.81	110	eP	28	05.80	2.1
POO	18.65	249	eP	28	10.00	-4.1X
			eS	31	39.00	
GBA	18.76	230	P	28	16.00	0.5
	0.5s	1.80nm			3.5mb X	
WHN	19.91	73	eP	28	31.00	2.5
BTO	20.52	42	eP	28	37.00	2.1
TIY	20.52	51	eP	28	39.30	4.4X
HHC	21.61	43	eP	28	43.80	-2.2
GAR	22.28	310	eP	28	53.70	0.9
WR2	61.55	134	iPd	34	12.10	-1.2
	0.5s	20.00nm			5.5mb	
			i	34	23.40	
HFS	61.88	326	eP	34	13.00	-2.0
	0.5s	1.10nm			4.2mb	
ASPA	63.99	137	iPc	34	28.40	-1.0
	0.5s	5.70nm			4.9mb	
LPG	68.69	311	eP	35	08.70	9.2X
	0.7s	4.60nm			4.7mb	
LPL	68.69	311	eP	35	09.10	9.7X
	1.0s	10.00nm			4.8mb	
SMF	70.29	313	eP	35	18.30	9.4X
	0.9s	6.55nm			4.7mb	
SSF	70.38	313	eP	35	18.90	9.5X
	1.0s	5.00nm			4.5mb	
AVF	70.57	313	eP	35	20.10	9.6X
	1.2s	7.45nm			4.6mb	
TCF	71.47	313	eP	35	25.90	9.8X
	0.8s	2.70nm			4.3mb	

S.D. = 1.7 on 22 of 31 obs.

SEP 19, 1991 04h 58m 36.64± 0.85s
35.921 N ± 4.3km 69.862 E ± 2.8km
DEPTH = 99.4 ± 8.5 km
5.0mb (66 obs.)
HINDU KUSH REGION, AFGHANISTAN (718)

KSH	6.00	52	P	00	08.40	3.8X
			S	01	15.60	
QUE	6.22	204	iPd	00	08.60	0.9
			eS	01	16.10	
MAIO	8.40	276	iPnd	00	37.00	-0.4
	0.8s	64.06nm			5.4mb	
			eSn	02	05.00	
NDI	9.53	137	iPd	00	51.50	-1.1
	0 5s	492.96nm			6.6mb X	
			eS	02	30.00	
GKN	14.81	118	P	01	59.76	-2.5
	0.8s	706.00nm			5.9mb	
DMN	15.37	118	P	02	06.32	-3.2X
	0.6s	268.00nm			5.6mb	
KKN	15.39	117	P	02	07.48	-2.2
	0 7s	622.00nm			6.0mb	
PKI	15.61	118	P	02	09.60	-3.0X
GUN	15.76	116	P	02	13.34	-1.1
WMQ	15.78	55	P	02	14.50	0.1
	1.0s	50.00nm			4.7mb	
			S	05	05.50	
TAB	18.91	284	eP	02	53.00	0.7
LSA	18.92	103	P	02	52.30	-0.5
			S	06	20.50	
DHR	19.39	246	eP	02	55.00	-2.2
HYB	19.98	155	ePd	03	04.70	1.2
	1.0s	80.00nm			5 0mb	
			eS	06	46.00	
BHD	21.12	270	ePd	03	15.00	0.1
			eS	05	37.00	
			eLO	07	04.50	
SHL	21.51	113	iP	03	21.00	1.9
			iS	07	07.00	
GBA	23.24	161	Pc	03	37.90	2.1
	0.6s	9.70nm			4.3mb	
MJMA	23.30	251	iP	03	36.00	-0.4
GTA	23.91	73	iPc	03	44.00	1.6
	1.0s	50.00nm			4.9mb	
			sP	04	13.00	
UOSK	25.60	254	eP	04	00.00	1.7
KOD	26.49	163	eP	04	09.90	3.2X
			eS	08	07.00	
LZH	27.41	80	eP	04	15.00	0.1
	2.0s	56.00nm			4.8mb	
CD2	28.64	90	P	04	26.70	0.8
OBN	29.77	321	eP	04	34.80	-0.7
	0.6s	80.00nm			5.6mb	
			e	05	11.00	
			e	06	12.00	
KMI	30.17	102	eP	04	39.50	-0.2
CHG	30.78	116	eP	04	46.00	1.2
CHTO	30.78	116	P	04	45.50	0.7
			e	05	12.50	
BTO	31.68	69	eP	04	53.40	0.7
XAN	31.92	82	P	04	54.70	0.0
GYA	32.70	96	iPd	05	02.40	0.7
	0.8s	10.00nm			4.7mb	
HHC	32.83	69	eP	05	03.00	0.3
NST	33.69	119	eP	05	13.60	3.5X
LOE	33.71	115	eP	05	10.00	-0.4
VRI	33.73	301	eP	05	17.70	7.4X
TIY	33.92	74	Pd	05	12.50	0.4
MLR	34.27	300	eP	05	16.00	0.9
MLR	34.27	300	eP	05	16.50	1.4
KAF	37.62	328	iP	05	42.70	-0.2
	0.6s	24.50nm			5.3mb	
NUR	37.77	325	iP	05	43.80	-0.4
	0.6s	48.20nm			5.6mb	
TIA	37.91	75	Pd	05	46.90	1.2
SPC	38.20	306	eP	05	49.50	1.2
KRA	38.43	307	eP	05	50.50	0.6
	0.8s	47.00nm			5.4mb	
SRO	39.50	304	iP	06	00.70	1.9
SOD	39.88	336	iP	06	01.50	-0.1
ZST	40.29	305	eP	06	05.60	0.3
			e	07	42.00	
NJ2	40.47	81	Pc	06	08.00	1.1
KSP	40.77	309	iP	06	09.50	0.3
UPP	40.97	323	iP	06	09.80	-0.8
			i	07	47.50	
KEV	41.00	339	iP	06	10.80	0.0
	0.7s	26.70nm			5.2mb	
VBY	41.77	301	e(P)	06	18.70	1.3
ROI	41.79	292	P	06	20.40	2.6
PRU	41.91	307	P	06	19.40	0.9
	1.0s	10.10nm			4.6mb	
TDS	41.95	292	P	06	19.80	0.8
CZI	42.20	291	P	06	21.30	0.3
LJU	42.21	301	e(P)	06	22.00	0.9
BRG	42.26	309	iP	06	21.50	0.1
	0.6s	15.00nm			5.0mb	
			i	06	24.50	
			e	07	03.20	
CEY	42.32	301	eP	06	22.10	0.1
IPM	42.38	130	ePd	06	24.10	1.4
	0.8s	37.50nm			5.3mb	
MGR	42.43	293	P	06	23.50	0.6
SGO	42.53	293	P	06	24.70	1.0
SOI	42.53	290	P	06	23.20	-0.5
KHC	42.58	306	Pd	06	24.90	0.8
			e	08	09.50	
VOY	42.65	302	e(P)	06	24.50	-0.3
SSE	42.67	81	P	06	25.70	0.8
	1.0s	12.00nm			4.7mb	
CLL	42.84	309	iP	06	26.00	-0.1
	1.0s	15.00nm			4.8mb	
DUI	42.94	295	P	06	27.90	0.8
ATN	42.96	290	P	06	27.20	0.0
HFS	42.96	322	eP	06	26.10	-0.8
	0.6s	80.20nm			5.7mb	
Z	17s	0 16um			4.0MszX	
			LR	24	53.00	
ARV	43.70	298	P	06	33.70	0.5
MOX	43.75	308	iPd	06	34.00	0.5
	1.5s	28.00nm			4.9mb	
ASS	43.98	297	P	06	36.10	0.6
WTTA	44.05	304	iPd	06	36.00	-0.2
	0.9s	19.90nm			4.9mb	
			i	06	39.30	
			i	06	48.60	
			e	07	18.00	
			i	08	19.30	
GRF	44.07	307	iPc	06	37.40	1.2
	0.8s	17.00nm			4.9mb	
Z	19s	0.10um			3.8Msz	
			id	06	40.40	
CTI	44.20	302	P	06	37.70	0.4
CRE	44.38	298	P	06	40.50	1.7
SFI	44.40	299	P	06	40.10	1.3
NAO	44.45	323	P	06	37.70	-1.4
	0.7s	34.80nm			5.3mb	
PGD	44.50	299	P	06	41.30	1.4
RGS	44.92	326	eP	06	42.20	-0.5
MME	45.17	299	P	06	46.40	1.2
BDI	45.26	299	P	06	45.90	0.1
PGF	46.72	298	eP	06	56.80	-0.5
	0.6s	21.65nm			5.2mb	
CDF	46.80	306	eP	06	57.80	-0.1
	0.8s	6.70nm			4.5mb	
BSF	47.21	305	eP	07	00.60	-0.6
	0.7s	24.25nm			5.1mb	
WLF	47.35	308	iPd	07	02.90	0.9
HAU	47.48	305	eP	07	02.70	-0.5
	0.8s	10.75nm			4.7mb	
Z	20s	0.08um			3.7Msz	
SBF	47.54	300	eP	07	03.60	-0.1
	0.8s	34.90nm			5.2mb	
LPG	47.67	302	iPc	07	05.00	0.0
	0.8s	17.45nm			4.9mb	
LPL	47.68	302	iPc	07	05.00	0.0
	1.2s	50.60nm			5.2mb	
BNI	47.82	301	P	07	06.20	0.3
FRF	48.17	299	eP	07	07.90	-0.6
	1.0s	20.00nm			4.9mb	
DOU	48.28	308	Pd	07	09.80	0.6
SNF	48.41	309	P	07	10.70	0.5
KBS	48.97	347	eP	07	15.00	0.8
LBF	49.25	304	iPc	07	16.10	-0.7
	1.2s	14.90nm			4.8mb	
LOR	49.27	305	eP	07	16.20	-0.8
	1.0s	7.00nm			4.6mb	
Z	20s	0.08um			3.7Msz	
SMF	49.41	304	iPc	07	17.40	-0.6
	0.8s	32.25nm			5.3mb	
SSF	49.55	305	eP	07	18.60	-0.5
	1.1s	12.20nm			4.8mb	
AVF	49.71	304	iPc	07	19.60	-0.7
	0.8s	35.60nm			5.4mb	
BGF	50.10	304	eP	07	22.60	-0.7
	1.0s	18.00nm			5.1mb	
MAF	50.37	304	iPc	07	25.10	-0.2
	1.0s	31.00nm			5.3mb	
TCF	50.59	304	iPc	07	26.70	-0.3
	0.9s	29.50nm			5.3mb	
CAF	51.03	302	eP	07	30.30	-0.1
	0.8s	16.10nm			5.1mb	
LSF	51.06	304	iPc	07	29.80	-0.8
	0.8s	15.45nm			5.1mb	
RJF	51.30	303	eP	07	32.30	-0.1
	1.0s	12.00nm			4.9mb	
Z	20s	0.05um			3.5Msz	
LDF	51.59	307	iPc	07	33.60	-1.0
	0.8s	13.45nm			5.0mb	
LPO	51.69	302	eP	07	34.80	-0.6
	0.8s	8.05nm			4.8mb	
FLN	51.79	308	iPc	07	34.70	-1.3
	0.8s	16.10nm			5.1mb	
Z	20s	0.08um			3.7Msz	
KKM	51.81	114	ePc	07	37.00	0.3
LFF	51.93	303	eP	07	36.90	-0.2
	0.8s	21.50nm			5.2mb	
EKA	52.06	316	Pd	07	36.90	-1.1
	0.9s	28.10nm			5.3mb	
MFF	52.09	305	iPc	07	37.40	-0.9
	0.9s	16.40nm			5.1mb	
GRR	52.12	307	iPc	07	37.30	-1.2
	0.8s	18.80nm			5.2mb	
LPF	52.32	307	eP	07	38.60	-1.4
	0.8s	8.05nm			4.8mb	

19d 05h

TOL	56.90	298	iPd	08	13.00	-0.4
	1.0s	40.00nm			5.4mb	
IFR	60.22	292	iP	08	32.20	-4.5X
TIO	62.99	290	iP	08	54.00	-1.2
MTD	63.72	221	iPc	08	57.10	-2.9
LSZ	64.39	225	iPd	09	05.00	0.6
KRI	64.83	223	iPc	09	08.10	0.8
BUL	68.07	222	iPc	09	26.50	-1.3
	1.0s	15.00nm			4.9mb	
NANU	72.45	136	eP	09	54.70	0.6
IMA	72.95	17	eP	09	55.50	-1.2
	0.8s	18.60nm			5.0mb	
KIC	73.83	266	Pd	10	00.90	-1.5
	0.6s	11.50nm			4.9mb	
MBL	73.88	132	eP	10	02.50	0.1
TIC	73.89	267	P	10	00.78	-2.0
LIC	74.14	266	Pd	10	02.58	-1.6
TTA	74.88	20	eP	10	07.10	-0.7
SEK	75.28	218	iPd	10	11.80	1.2
	0.7s	34.25nm			5.3mb	
FBA	75.28	16	P	10	08.10	-1.8
KNA	75.75	122	eP	10	13.30	0.0
FRS	77.60	219	iPc	10	23.60	0.4
	0.7s	68.49nm			5.6mb	
PMR	77.80	18	P	10	23.00	-1.0
	0.9s	3.20nm			4.2mb	
MRWA	77.99	140	eP	10	25.20	-0.2
	0.5s	5.00nm			4.6mb	
TOA	78.07	16	eP	10	25.90	0.3
HVD	78.20	218	iPd	10	32.50	5.7X
	0.7s	20.55nm			5.1mb	
BAL	79.47	140	eP	10	32.80	-0.7
	0.6s	19.00nm			5.1mb	
POF	80.15	223	iPc	10	38.00	0.9
	1.0s	20.00nm			4.9mb	
MUN	80.31	141	eP	10	37.00	-0.9
WARB	81.76	131	eP	10	46.00	0.3
	0.5s	3.00nm			4.4mb	
YKA	81.86	2	eP	10	45.00	-0.6
	0.9s	19.60nm			4.9mb	
COOL	82.06	137	eP	10	47.00	-0.1
ASPA	84.68	124	iPd	11	00.00	-0.6
	0.6s	10.10nm			4.9mb	
FORR	86.02	133	eP	11	07.00	0.0
OIS	86.59	118	iPd	11	09.40	-0.7
CTAO	91.14	114	iPd	11	31.50	0.0
			e	12	03.00	
PNT	94.72	6	eP	11	48.00	0.2
ZOBO	137.89	287	PKP	17	51.00	-1.4
LPB	138.02	286	PKP	17	45.00	-7.4X
CNCB	138.09	286	ePKP	17	42.00	-10.7X
S.D = 1.0 on 140 of 150 obs.						

? SEP 19, 1991 05h 00m 34.18± 4.45s
4.233 N ±25.6km 76.963 W ±32.2km
DEPTH = 33.0km (normal)
COLOMBIA (103)
MD 2.8 (UVC).

CLMC	0.53	131	iPc	00	45.80	0.4
ANCC	0.72	172	ePc	00	48.11	0.2
BUGC	0.78	116	iPd	00	48.71	-0.2
			eS	00	57.40	
HOOC	0.83	157	iPc	00	49.14	-0.5
			eS	00	58.10	
HOBC	0.83	82	iPd	00	49.55	-0.1
S.D. = 0.5 on 5 of 5 obs.						

& SEP 19, 1991 06h 54m 01.50s
36.898 N 121.653 W
DEPTH = 4.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 3.1 (BRK).

SAO	0.21	128	iPd	54	05.46	-0.4
GCC	0.31	296	iPc	54	07.84	0.2
MHC	0.44	1	iPd	54	11.00	0.6
			eS	54	18.30	
ARN	0.46	12	iPc	54	11.10	0.4
PRS	0.61	158	iPd	54	13.06	-0.6
PCC	0.84	316	iPc	54	17.22	-0.9
			i	54	30.34	
BKS	1.08	335	iPc	54	21.50	-0.9
			iS	54	38.20	
PRI	1.10	133	iPc	54	22.07	-0.7
ZSP	1.15	335	ePc	54	22.19	-1.4
			eS	54	40.74	
PHAM	1.47	136	eP	54	27.00	-1.8
CMB	1.52	41	eP	54	28.60	-0.9
			i	54	47.35	
FRI	1.56	86	ePd	54	29.49	-0.6
			eS	54	47.62	
BCH	2.13	143	eP	54	35.80	-2.6
ORV	2.66	3	eP	54	45.38	-0.5
14 obs. associated						

SEP 19, 1991 06h 56m 29.46± 1.14s
28.207 N ± 9.8km 55.270 E ± 5.9km
DEPTH = 50.7 ± 13.0 km
4.6mb (4 obs.)
SOUTHERN IRAN (353)

SHI	2.80	301	eP	57	15.00	2.0
DHR	4.95	249	iPd	57	44.00	0.9
IR5	8.04	331	eP	58	28.00	1.5
IR1	8.17	333	eP	58	28.50	0.2
RYD	8.50	248	eP	58	33.00	0.2
			eS	00	06.00	
MAIO	8.82	23	eP	58	46.00	8.7X
			eS	00	35.00	
QUE	10.40	76	eP	58	59.10	0.2
BHD	10.64	301	ePd	59	01.00	-1.0
			eS	01	16.50	
			eLQ	02	56.00	
QASM	10.66	261	iP	58	59.50	-2.9
AFIF	11.60	252	eP	59	16.00	0.8
UQSK	11.76	261	iP	59	15.30	-2.0
			eS	01	25.30	
GAR	16.50	45	eP	00	17.30	-1.7
AYN	16.95	277	eP	00	24.00	-0.6
GKN	25.88	83	P	01	58.46	0.0
DMN	26.35	84	P	02	03.24	0.3
KKN	26.47	84	P	02	04.00	0.0
PKI	26.62	84	P	02	05.28	-0.2
GUN	26.98	83	P	02	08.98	0.2
MLR	28.90	315	ePc	02	32.50	6.7X
KHC	38.05	315	Pd	03	45.50	0.8
	1.1s	8.00nm			4.6mb	
LZH	41.52	66	eP	04	14.50	0.8
	1.5s	20.00nm			4.6mb	
			sP	04	34.00	
HFS	42.48	331	eP	04	21.30	0.3
	0.6s	9.40nm			4.7mb	
SOD	42.84	344	eP	04	21.00	-2.8
NAO	44.06	330	P	04	33.80	0.0
	0.9s	5.40nm			4.3mb	
KIC	60.65	261	P	06	38.90	1.0
TIC	60.75	261	P	06	39.50	0.8
LIC	60.96	261	P	06	41.00	0.9
S.D. = 1.3 on 25 of 27 obs.						

& SEP 19, 1991 07h 20m 07.80s
36.897 N 121.648 W
DEPTH = 5.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.4 (BRK).

SAO	0.21	129	iPd	20	11.66	-0.4
GCC	0.31	296	iPc	20	14.12	0.1
			eS	20	19.69	
MHC	0.44	1	iPd	20	17.25	0.5
ARN	0.46	12	iPc	20	17.30	0.3
PRS	0.61	158	iPd	20	19.20	-0.8
PCC	0.84	316	iPc	20	23.50	-1.0
BKS	1.08	335	iP	20	28.70	0.1
			i	20	44.80	
PRI	1.09	133	eP	20	28.32	-0.6
ZSP	1.15	335	iPc	20	30.47	0.7
			i	20	46.71	
PHAM	1.46	136	eP	20	31.50	-3.4
CMB	1.52	41	eP	20	34.63	-1.0
			i	20	53.57	
FRI	1.56	86	iPd	20	35.56	-0.6
			i	20	53.49	
BCH	2.13	143	eP	20	42.30	-2.3
13 obs. associated						

SEP 19, 1991 07h 28m 29.74± 0.35s
3.453 S ± 4.9km 133.968 E ± 8.1km
DEPTH = 17.4km (4 depth phases)
5.2mb (15 obs.)
IRIAN JAYA REGION, INDONESIA (196)

AAI	5.77	268	eP	29	58.60	2.0
			eS	31	07.30	
MTN	9.75	197	eP	30	51.90	-0.3
			eS	32	38.50	
KNA	13.25	202	eP	31	37.70	-1.9
WR2	16.40	179	iPc	32	18.60	-2.2
	0.6s	8.30nm			4.0mb	X
			i	32	26.50	
			eS	35	12.10	
OIS	17.87	163	eP	32	39.00	-0.2
			eS	35	44.00	
ASPA	20.10	180	iPd	33	06.60	1.1
	0.8s	69.50nm			5.0mb	
			eS	36	41.30	
CTAO	20.42	145	iP	33	10.00	1.1
			e	33	15.00	19km
MBL	22.33	217	eP	33	30.50	2.3
WARB	23.67	197	eP	33	45.00	3.7X
SSE	36.45	341	Pc	35	35.00	-0.6
	0.7s	10.00nm			4.8mb	
CHG	40.96	304	eP	36	14.20	0.7
	1.0s	10.75nm			4.5mb	
CHTO	40.96	304	P	36	14.00	0.6
			e	36	18.50	15km
TIA	42.48	340	eP	36	24.80	-0.9
XAN	44.14	330	P	36	38.00	-1.2
			pP	36	43.80	19km
TIY	45.58	336	eP	36	50.00	-0.7
BJI	46.26	341	eP	36	55.50	-0.5
	1.0s	13.00nm			4.9mb	
LZH	48.37	327	eP	37	13.50	0.6
	2.0s	39.00nm			5.1mb	
			sP	37	28.00	
HHC	48.62	337	P	37	14.80	0.2
GTA	52.98	327	Pd	37	47.60	-0.2
	1.0s	10.00nm			4.7mb	
			pP	37	52.60	16km
GUN	55.79	307	P	38	08.50	-0.4
	0.8s	37.00nm			5.5mb	
PKI	56.02	307	P	38	09.48	-1.0
KKN	56.21	307	P	38	11.16	-0.6
	0.9s	54.00nm			5.6mb	
DMN	56.28	307	P	38	11.78	-0.5
GKN	56.82	307	P	38	15.44	-0.6
	0.8s	48.00nm			5.6mb	
WMQ	62.73	324	eP	38	56.00	-0.3
GAR	72.08	313	eP	39	55.60	0.3
SVW	83.67	27	eP	40	59.80	1.2
	0.8s	84.83nm			6.0mb	
TTA	84.10	26	eP	41	01.60	0.8
	0.9s	13.40nm			5.2mb	
KDC	84.19	31	eP	41	01.40	0.2
IMA	86.05	23	eP	41	11.30	0.7
	0.7s	7.20nm			5.0mb	
PWA	86.48	28	eP	41	12.10	-0.4
	1.1s	50.80nm			5.6mb	
PMR	86.81	28	eP	41	14.10	0.0
	0.9s	15.00nm			5.2mb	
FBA	88.13	25	eP	41	20.20	-0.2
	0.8s	6.80nm			5.0mb	
TOA	88.29	28	eP	41	22.10	0.7
NAO	108.63	334	Pdiff	43	05.40	11.9X
	0.5s	1.00nm				
CNCB	150.41	134	PKP	48	26.00	8.0X
LPB	150.51	133	PKP	48	25.80	7.8X
ZOBO	150.66	133	PKP	48	25.70	7.3X
	1.0s	8.00nm				
CCH	151.32	137	PKP	48	26.80	7.8X
S.D. = 1.0 on 33 of 39 obs.						

• SEP 19, 1991 07h 34m 05.03± 0.79s
45.420 N ± 8.2km 20.947 E ± 7.4km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
MG 3.4 (BEO).

TIM	0.37	31	iPc	34	14.00	1.4
BEO	0.69	210	iPg	34	19.20	0.5
			iSg	34	32.00	
DEV	1.45	71	ePd	34	30.00	-1.3
UZD	2.02	306	ePn	34	32.00	-7.5X
BUD	2.46	328	e(Pn)	34	46.00	0.3
PSZ	2.60	344	ePn	34	47.00	-0.9
SKO	3.46	174	eP	35	07.00	6.9X
MLR	3.52	87	ePc	35	05.50	4.6X
PTJ	3.53	280	eP	35	00.90	-0.2
VBY	4.00	273	e(Pn)	35	23.30	15.6X
VRI	4.08	82	ePc	35	09.00	0.2

S.D. = 1.1 on 7 of 11 obs.

---

* SEP 19, 1991 08h 13m 40.05± 1.41s
28.197 N ±13.1km 55.253 E ± 8.1km
DEPTH = 50.6 ± 17.6 km
4.3mb (2 obs.)
SOUTHERN IRAN (353)

SHI	2.79	302	eP	14 26.00	2.6
DHR	4.93	249	iPd	14 55.00	1.5
IR5	8.05	332	eP	15 43.00	5.9X
IR1	8.18	333	eP	15 39.00	0.0
RYD	8.48	248	eP	15 44.00	0.9
MAIO	8.84	23	eP	15 47.00	-1.1
			eS	17 37.00	
MJMA	9.19	258	iP	15 49.30	-3.5X
			eS	17 39.30	
QUE	10.41	76	eP	16 10.10	0.4
BHD	10.63	301	eP	16 07.00	-5.5X
			e	20 07.00	
OASM	10.65	261	iPd	16 10.00	-2.8
AFIF	11.59	252	eP	16 30.00	4.5X
			eS	18 40.00	
UOSK	11.75	261	iPd	16 25.30	-2.4
			eS	18 30.00	
GAR	16.52	45	eP	17 28.40	-1.4
AYN	16.94	277	eP	17 34.70	-0.3
GKN	25.90	83	P	19 12.00	2.8X
KKN	26.49	84	P	19 14.40	-0.4
PKI	26.63	84	P	19 16.80	0.6
LZH	41.54	66	(P)	21 25.50	1.1
HFS	42.48	331	eP	21 31.80	0.2
	0.6s		7.50nm		4.6mb
NAO	44.06	330	P	21 44.80	0.4
	0 5s		1.40nm		4.0mb
KIC	60.63	261	P	23 49.00	0.6

S.D. = 1.5 on 16 of 21 obs.

& SEP 19, 1991 09h 06m 18.50s
36.900 N 121.650 W
DEPTH = 6.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 4.5 (BRK).
Mo=4.1*10**15 Nm (BRK). Felt (V) at Aptos, Aromas and Morgan Hill. Felt (IV) at Gilroy, Mount Hermon, Santo Clara, Santo Cruz and Soquel. Felt from Marin County south as far as the San Luis Obispo area.

SAO	0.21	129	iPd	06 22.43	-0.5
GCC	0.31	295	iPc	06 24.81	0.1
ARN	0.46	12	iPc	06 28.00	0.3
PRS	0.61	158	iPd	06 30.03	-0.7
PCC	0.84	316	iPc	06 33.98	-1.1
BKS	1.08	335	iPc	06 37.40	-1.8
			iS	06 54.50	
PRI	1.10	133	iPd	06 38.80	-0.8
ZSP	1.15	335	iPc	06 39.18	-1.2
			eS	06 56.90	
PHAM	1.47	136	eP	06 43.60	-1.9
PKEM	1.50	124	eP	06 44.90	-1.0
CMB	1.52	41	iPd	06 45.20	-1.0
			i	07 04.20	
FRI	1.56	86	iPc	06 45.16	-1.6
			i	07 06.25	
NWRM	1.84	328	eP	06 48.00	-2.8
BCH	2.13	143	eP	06 52.40	-2.8
ORV	2.65	3	iPd	07 02.70	0.1
ABL	2.84	135	eP	07 02.90	-2.6
BONR	2.87	67	P	07 05.40	-0.5
LTCM	3.32	354	eP	07 10.00	-2.1
MIN	3.44	1	iPc	07 13.36	-0.5
KVN	3.53	51	eP	07 15.50	0.3
FOX	4.05	334	eP	07 21.24	-1.1
FHC	4.30	336	eP	07 24.00	-2.0
PLM	5.28	131	eP	07 36.50	-3.6
LRM	11.27	35	eP	09 11.00	7.6

24 obs. associated

& SEP 19, 1991 09h 07m 56.20s
36.883 N 121.663 W
DEPTH = 1.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 4.5 (BRK).
Mo=4.4*10**15 Nm (BRK). Felt from Marin County south as far as the San Luis Obispo area.

SAO	0.21	124	iPd	08 00.05	-0.4
GCC	0.30	299	iPc	08 02.60	0.3
MHC	0.46	2	iPd	08 05.75	0.4
			eS	08 12.50	
ARN	0.48	13	iP	08 05.40	-0.3
PRS	0.60	157	iPd	08 08.10	-0.1
PCC	0.84	317	iPc	08 12.40	-0.6
BKS	1.09	335	iPc	08 16.80	-0.7
			iS	08 33.20	
PRI	1.09	132	eP	08 17.80	0.2
ZSP	1.16	336	iPc	08 17.00	-1.7
			i	08 34.90	
PHAM	1.46	135	eP	08 22.40	-1.4
PKEM	1.50	123	eP	08 23.40	-0.9
CMB	1.54	41	iPd	08 24.20	-0.7
			eS	08 42.30	
FRI	1.57	85	eP	08 24.20	-1.1
			eS	08 44.50	
NWRM	1.85	329	eP	08 26.60	-2.7
BCH	2.12	142	eP	08 30.80	-2.6
ORV	2.67	3	eP	08 39.20	-1.9
ABL	2.84	135	eP	08 41.80	-1.9
BONR	2.88	67	eP	08 41.60	-2.9
KVN	3.55	51	e(P)	08 58.80	5.0

19 obs. associated

? SEP 19, 1991 10h 05m 27.99± 1.92s
2.310 N ±39.5km 98.737 W ±50.7km
DEPTH = 10.0km (geophysicist)
4.4mb (5 obs.)
WEST OF GALAPAGOS ISLANDS (695)

ANMO	33.26	348	P	12 07.90	0.0
	1.1s		4.11nm		4.3mb
PLM	35.24	333	P	12 25.10	0.1
CCH	37.63	123	P	12 45.50	0.0
			i	14 21.10	
GOL	37.70	352	P	12 46.00	0.2
	1.0s		1.75nm		3.8mb
BW06	41.44	348	P	13 16.30	-0.4
	1.2s		9.82nm		4.4mb
RSSD	41.90	354	P	13 21.00	0.6
	1.2s		9.11nm		4.4mb
ORV	42.46	334	P	13 25.50	0.6
NEW	48.44	344	P	14 11.30	-1.2
	0.9s		4.39nm		4.5mb

S.D = 0.7 on 8 of 8 obs.

? SEP 19, 1991 10h 50m 37.17± 5.42s
4.308 N ±33.4km 76.928 W ±37.7km
DEPTH = 33.0km (normal)
COLOMBIA (103)
MD 3.5 (UVC).

CLMC	0.56	139	iPd	50 49.75	1.0
BUGC	0.79	122	iPd	50 51.53	-0.4
ANCC	0.79	176	iPd	50 52.49	0.6
			eS	51 03.10	
HOBC	0.79	87	iPd	50 52.05	0.0
			eS	51 02.30	
HOOC	0.88	161	iPd	50 52.73	-0.7
			eS	51 03.50	
PURC	2.05	164	ePd	51 09.98	-0.5

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

? SEP 19, 1991 12h 20m 46.50± 1.05s
44.378 N ± 9.8km 7.392 E ± 8.3km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

STV	0.14	200	P	20 50.10	0.2
			S	20 52.88	
ENR	0.15	172	P	20 49.95	-0.2
			S	20 52.66	
PZZ	0.24	302	P	20 51.74	0.0
			S	20 55.65	
ROB	0.35	103	P	20 53.84	0.0
			S	20 59.48	

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

& SEP 19, 1991 13h 03m 55.40s
35.822 N 121.302 W
DEPTH = 10.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 3.3 (BRK).

PRS	0.51	354	iPd	04 05.09	-0.7
PRI	0.61	58	iPd	04 07.38	-0.4
			i	04 15.81	
PHAM	0.73	89	eP	04 10.00	0.2
SAO	0.95	353	iPd	04 12.74	-0.7
PKEM	1.00	76	eP	04 15.00	0.7
BCH	1.18	122	eP	04 16.40	-1.1
GCC	1.33	335	iPd	04 18.95	-1.0
			i	04 37.24	
ARN	1.54	353	eP	04 21.90	-1.0
MHC	1.54	350	ePc	04 24.45	1.4
			eS	04 45.40	
FRI	1.74	47	iPd	04 25.04	-0.7
			eS	04 47.84	
PCC	1.89	333	iPc	04 26.70	-1.2
ABL	1.96	119	eP	04 27.70	-1.5
BKS	2.18	340	eP	04 33.20	0.9
			i	04 38.30	
			i(S)	05 05.40	
CMB	2.33	18	iPd	04 33.65	-0.7
BONR	3.21	48	eP	04 37.00	-10.2
SSK	3.37	117	eP	04 48.00	-1.3

16 obs. associated

---

* SEP 19, 1991 15h 18m 41.21± 1.48s
0.525 N ± 7.1km 78.653 W ±23.0km
DEPTH = 33.0km (normal)
COLOMBIA-ECUADOR BORDER REGION (106)
MD 4.4 (QUI). Felt at Cotocochi, Ecuador.

COTA	0.37	121	P+	18 49.10	-1.3
YANA	0.64	173	Pd	18 52.60	-1.6
GGP	0.70	175	Pd	18 53.70	-1.4
OUR	0.70	170	iP+	18 53.40	-1.7
			eS	19 01.00	
OTO	0.74	171	iP+	18 54.50	-1.1
CAYA	0.80	123	Pd	18 56.50	-0.1
VC1	1.18	168	Pd	19 02.60	0.6
ANGL	1.44	129	P	18 56.40	-9.2X
			S	19 07.20	
TUNG	1.94	174	P	19 15.40	2.6
PURC	2.90	52	eP	19 30.44	3.8X
ANCC	3.47	31	eP	19 33.45	-0.8
			eS	20 09.90	
HOOC	3.55	35	eP	19 35.96	0.3
			eS	20 14.10	
CLMC	3.93	32	eP	19 40.80	-0.2
BUGC	4.11	36	eP	19 44.50	1.0
HOBC	4.56	33	eP	19 49.05	-0.8
ZOBO	19.66	149	P	23 13.00	1.9
LPB	19.89	149	(P)	23 22.00	8.6X
CNCB	20.18	149	P	23 19.00	2.4
SIV	23.89	134	P	23 56.30	3.3X
TUL	38.64	337	e(P)	26 15.20	11.8X
	0.8s		8.40nm		

S.D. = 1.5 on 15 of 20 obs.

? SEP 19, 1991 15h 59m 10.01± 2.90s
10.728 N ±14.0km 62.227 W ±28.3km
DEPTH = 70.0km (geophysicist)
NEAR COAST OF VENEZUELA (97)
MD 3.3 (TRN).

TCE	0.47	94	eP	59 22.02	-0.7
			eS	59 31.64	
TRN	0.81	96	eP	59 26.13	-0.3
			eS	59 39.70	
TPP	0.87	118	eP	59 27.26	0.2
			eS	59 40.65	
TBH	1.17	102	eP	59 31.71	0.8
			eS	59 49.22	
TPR	1.50	72	eP	59 35.46	0.1
			eS	59 56.81	
GRW	1.53	21	eP	59 35.41	-0.4
			eS	59 56.77	
BOT	1.55	73	eP	59 35.54	-0.4
			eS	59 57.11	
SVB	2.70	21	eP	59 52.72	0.7
			eS	00 24.76	

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

SEP 19, 1991 16h 20m 27.80± 0.45s
47.458 N ± 8.0km 115.803 W ± 4.4km
DEPTH = 1.0km (geophysicist)

19d 16h

MONTANA (456)
ML 3.0 (GS). Felt (IV) at Mullan, Idaho.

NEW	1.20	313	ePc	20 50.80	-0.2
DPW	1.67	285	eP	20 58.50	0.1
HBMT	2.76	126	ePn	21 14.26	0.0
HRY	2.82	104	ePn	21 15.04	0.1
LRM	2.83	124	ePn	21 15.18	-0.1
PNT	3.15	308	P	21 25.00	5.5X
	0.4s		8.00nm		
LCCM	3.15	120	ePn	21 19.72	0.0
MCMT	3.34	141	ePn	21 22.61	0.2
SXM	3.42	111	ePn	21 23.90	0.4
BGMT	3.43	129	ePn	21 23.28	-0.4
VGB	3.95	242	eP	21 31.00	0.1
LON	4.16	262	eP	21 34.00	0.1
HPI	4.20	152	eP	21 34.50	-0.2
	S.D. = 0.2		on 12 of 13 abs.		

& SEP 19, 1991 16h 30m 00.07s
37.236 N 116.166 W
DEPTH = 0.0km
4.0mb (3 abs.)
SOUTHERN NEVADA (41)
<DDE>. ML 3.8 (BRK). Tunnel Shot, 37° 14' 08.62" N., 116° 09' 59.16" W., Surface Elev. 1948 m., Depth of Burial 264 m., Shot time 163000.067, "DISTANT ZENITH," Nevada Test Site (Dept. of Energy).

BONR	1.84	294	iPc	30 32.90	-0.6
GSC	2.00	195	eP	30 34.90	-0.7
KVN	2.37	321	eP	30 40.00	-1.0
FRI	2.84	266	iPc	30 47.01	-0.6
			eS	31 24.56	
SSK	3.26	203	eP	30 53.70	0.0
PKEM	3.38	251	P	30 55.50	0.3
MSU	3.41	67	eP	30 54.70	-1.1
ABL	3.43	227	eP	30 55.40	-0.8
PEC	3.43	194	P	30 55.50	-0.5
CMB	3.44	285	P	30 55.40	-0.8
PHAM	3.68	249	eP	30 59.00	-0.5
BCH	3.77	238	eP	30 59.90	-1.0
PRI	3.78	255	iPd	31 00.93	-0.1
PLM	3.92	189	eP	31 02.20	-0.8
DUG	3.95	41	eP	31 03.70	0.3
SAO	4.25	265	iPc	31 06.62	-0.9
PRS	4.27	259	iPc	31 06.67	-1.2
ARN	4.28	273	eP	31 07.20	-0.8
GLA	4.32	165	eP	31 06.90	-1.6
GCC	4.66	269	eP	31 21.14	7.7
ORV	4.79	301	eP	31 14.00	-1.2
DAU	4.98	49	eP	31 19.90	1.7
MIN	5.26	308	eP	31 22.28	0.2
LTCM	5.52	304	eP	31 24.50	-1.1
LBFM	6.05	315	eP	31 33.00	-0.2
PTI	6.34	26	eP	31 57.00	19.8
HPI	6.88	19	eP	31 58.40	13.5
BW06	7.51	40	eP	31 53.00	-0.7
VGB	8.97	339	eP	32 15.40	1.6
LRM	9.02	17	eP	32 20.50	5.7
LON	10.39	338	eP	32 36.00	2.5
DPW	10.73	353	eP	32 39.50	1.3
PSSD	11.49	49	eP	32 46.50	-2.1
FFC	20.01	25	ePc	34 35.50	-1.6
	0.6s		13.00nm	4.4mb	
YKA	25.30	2	eP	35 29.10	-0.4
	1.0s		1.80nm	3.8mb	
IMA	36.06	335	eP	37 04.00	-1.1
	0.8s		1.72nm	3.9mb	
	36 obs. associated				

---

* SEP 19, 1991 18h 38m 02.14± 1.47s
51.319 N ±13.7km 15.910 E ± 7.4km
DEPTH = 10.0km (geophysicist)
POLAND (548)
ML 3.3 (GRF).

KSP	0.53	153	iPd	38 11.50	-1.4
	0.4s		71.00nm		
			iS	38 20.00	
BRG	1.32	251	iPn	38 26.00	-0.5
			iPg	38 27.50	
			iSg	38 47.40	
PRU	1.59	214	Pn	38 30.60	0.2
	0.4s		15.80nm		
			Pg	38 32.40	
			e	38 36.20	
			Sn	38 49.60	
			Sg	38 56.10	
			e	39 02.90	
CLL	1.82	271	iPn	38 33.20	-0.6
			iPg	38 35.90	
			eSg	39 05.00	
KHC	2.65	215	iPn	38 46.50	0.8
	0.8s		6.50nm		
			iPg	38 53.00	
			Sn	39 20.50	
			eSg	39 33.00	
HOF	2.75	250	ePn	38 47.00	-0.1
MOX	2.80	258	ePn	38 47.60	-0.1
			iPg	38 53.00	
			iSg	39 35.00	
KRA	2.86	115	eP	38 54.30	5.7X
			e	39 29.80	
WET	2.92	223	iPnc	38 49.90	0.4
ZST	3.22	166	eP	39 04.50	10.8X
			e	39 18.90	
			e	39 43.60	
GRF	3.41	243	iPnc	38 56.50	0.1
			ePg	39 10.00	
			e(Sn)	39 51.20	
			eSg	39 53.40	
SPC	3.50	126	e(Pn)	38 58.80	0.9
			e	39 07.00	
			e	39 51.20	
FVI	5.16	205	P	39 21.50	0.3
	S.D. = 0.7		on 11 of 13 abs.		

? SEP 19, 1991 20h 57m 41.61± 3.28s
20.981 S ±22.2km 169.595 E ±21.3km
DEPTH = 140.1 ± 25.3 km
4.4mb (5 obs.)
VANUATU ISLANDS (186)

DZM	3.13	249	iP	58 30.00	-0.9
			iS	59 11.40	
BRS	16.61	244	iPd	01 30.50	2.8
	1.0s		5.00nm	3.8mb	
			i	01 35.00	
ARMA	18.70	236	iPc	01 51.60	-0.4
RMQ	19.84	250	iPd	02 16.00	12.3X
	0.6s		47.00nm		
			i	02 27.70	
THZ	20.91	173	eP	02 15.70	1.3
LTZ	21.85	175	eP	02 29.30	5.6X
BWA	22.98	230	eP	02 31.30	-3.5X
CAN	23.04	227	eP	02 33.90	-1.4
CMS	23.70	239	eP	02 41.00	-0.7
			i	02 42.60	
STK	27.25	241	iPd	03 13.60	-0.9
	0.5s		6.00nm	4.5mb	
WR2	32.99	265	iPd	04 05.50	0.2
	0.5s		7.80nm	4.7mb	
ASPA	33.08	259	iPd	04 06.30	0.2
	0.5s		20.00nm	5.1mb	
FORR	38.41	247	eP	04 50.00	-1.0
WARB	39.57	254	iPc	05 01.30	0.5
CHTO	79.68	295	P	09 37.80	2.4
	1.0s		3.25nm	4.0mb	
KSP	143.57	331	iPKP	16 58.20	-2.9
BRG	144.57	333	iPKPc	17 01.60	-1.1
SRO	144.62	326	iPKP	17 02.50	-0.4
CLL	144.63	334	iPKPc	17 01.30	-1.5
	1.0s		21.00nm		
PRU	144.96	332	ePKP	17 02.50	-0.9
MOX	145.70	335	ePKP	17 04.60	-0.1
KHC	146.02	331	iPKPc	17 06.00	0.7
WTTA	148.28	331	ePKP	17 11.00	1.8
	1.0s		7.10nm		
DOU	148.61	341	PKPc	17 11.90	2.5
CDF	149.17	337	ePKP	17 13.40	3.0X
	0.8s		5.35nm		
BSF	149.83	337	ePKP	17 14.90	3.5X
	0.8s		5.35nm		
HAU	149.85	337	ePKP	17 15.10	3.7X
	0.8s		5.35nm		
LOR	151.34	340	ePKP	17 19.00	5.4X
	1.0s		5.00nm		
SSF	151.63	340	ePKP	17 18.80	4.8X
	1.0s		4.00nm		
LPL	151.76	334	ePKP	17 20.20	5.6X
	0.4s		1.15nm		
LPG	151.77	334	ePKP	17 20.10	5.4X
	0.4s		1.15nm		
LPF	151.98	347	ePKP	17 20.60	6.1X
	0.6s		4.50nm		
	S.D. = 1.6		on 21 of 32 abs.		

SEP 19, 1991 21h 35m 02.76± 0.41s
58.723 N ± 4.1km 155.140 W ± 3.8km
DEPTH = 158.9 ± 3.2 km
4.4mb (2 abs.)
ALASKA PENINSULA (12)

MCNL	0.62	42	iPc	35 25.30	-0.7
			eS	35 41.05	
CDD	0.81	74	iPc	35 26.43	-0.8
AUI	1.08	55	iPc	35 29.26	0.0
			eS	35 48.34	
AUW	1.08	52	iPc	35 29.49	0.2
			eS	35 48.95	
AUH	1.09	53	iPc	35 29.61	0.1
AGU	1.09	53	iPc	35 29.61	0.1
AUP	1.10	53	iPc	35 29.61	0.0
AUL	1.10	52	iPc	35 29.65	0.1
AUE	1.11	54	iPc	35 29.80	0.2
OPT	1.35	46	iPc	35 32.30	0.4
SYI	1.44	93	ePd	35 32.10	-0.6
INW	1.69	36	iPc	35 35.80	0.3
KDC	1.71	124	iPc	35 33.90	-1.6
INE	1.71	37	iPc	35 36.06	0.3
			eS	36 01.06	
HOM	2.03	61	ePc	35 39.51	0.4
RED	2.08	34	iPc	35 40.55	0.7
			eS	36 08.58	
RS1	2.12	34	iPd	35 41.19	0.8
RS2	2.12	34	ePd	35 41.19	0.7
RSO	2.12	34	ePd	35 41.17	0.7
RDW	2.13	33	ePd	35 41.07	0.6
NCT	2.16	30	ePd	35 41.38	0.6
REF	2.16	34	ePd	35 41.51	0.6
RDN	2.16	33	iPc	35 41.65	0.8
CNPM	2.17	67	iPc	35 40.70	-0.1
			iS	36 08.35	
DFR	2.25	33	ePd	35 42.55	0.7
RDT	2.32	36	iPd	35 43.28	0.7
			eS	36 13.24	
NNL	2.37	54	ePc	35 44.34	1.2
SVW	2.40	354	ePc	35 44.70	1.1
BRLK	2.42	63	eP	35 44.93	1.1
			eS	36 13.84	
CKL	2.85	28	iPd	35 50.20	0.9
BGL	2.90	27	ePd	35 50.92	1.1
SPU	2.91	31	iPd	35 50.62	0.7
CGLM	3.03	30	iPd	35 52.29	0.8
			eS	36 30.97	
SLKM	3.07	52	ePc	35 51.92	0.0
NCG	3.08	28	iPd	35 53.33	1.3
SEW	3.22	62	eP	35 54.43	0.7
SUA	3.52	37	ePd	35 58.03	0.2
SKT	3.73	27	iPd	36 01.08	0.7
PMS	3.77	46	ePd	36 01.00	0.0
PWA	3.94	40	eP	36 04.40	1.3
LTI	3.95	67	iPd	36 03.36	0.1
KNIM	4.11	63	eP	36 04.62	-0.7
			iS	36 52.35	
PLRM	4.16	44	eP	36 05.18	-0.7
PMR	4.16	44	eP	36 05.30	-0.6
TTA	4.24	355	ePc	36 08.40	1.3
KNK	4.30	48	iPd	36 06.93	-0.9
			eS	36 56.07	
CUT	4.41	31	ePd	36 08.94	-0.2
SDN	4.48	223	eP	36 07.80	-2.3
SML	4.59	45	eP	36 10.39	-1.3
MID	4.60	77	eP	36 12.10	0.4
GLI	4.60	59	eP	36 10.71	-1.1
			eS	37 00.69	
FID	4.83	61	ePd	36 13.68	-1.1
			eS	37 06.25	
VZW	4.92	58	eP	36 15.41	-0.6
HUR	5.04	30	eP	36 17.22	-0.4
VLZ	5.05	58	eP	36 17.25	-0.4
			eS	37 12.72	
CVA	5.10	65	iPd	36 17.79	-0.6
KTH	5.26	21	eP	36 20.53	0.0
			eS	37 18.98	
TRF	5.29	24	ePc	36 20.75	-0.4

			eS	37	21.72					eS	51	46.68			DFR	2.58	196	eP	47	41.73	0.5
SGAM	5.35	66	iPd	36	21.29	-0.4		SLKM	3.90	28	eP	51	08.14	-2.7		SLKM	2.62	169	eP	47	43.06	1.4
KLU	5.38	55	iPd	36	21.69	-0.5					eS	51	49.73			PAX	2.63	90	eP	47	43.22	1.3
			iS	37	21.47			SDN	4.09	247	eP	51	13.20	-0.2					eS	48	13.72	
RAGM	5.58	68	iPd	36	24.61	-0.2		SVW	4.10	348	eP	51	11.10	-2.6		NCT	2.65	198	eP	47	43.98	1.8
TOA	5.59	49	ePc	36	25.40	0.5		CKL	4.17	10	eP	51	12.27	-2.5		RDN	2.67	196	eP	47	44.18	1 7
RND	5.60	30	ePd	36	24.11	-1.0		SPU	4.19	12	iP	51	12.56	-2.4		SDG	2.67	99	eP	47	42.66	0.2
KAIM	5.62	73	eP	36	25.62	0.3		BGL	4.23	10	eP	51	13.38	-2.2					eS	48	15.04	
			eS	37	25.60			LTI	4.32	45	eP	51	14.14	-2.5		REF	2.69	196	eP	47	44.80	2.0
HMT	5.77	69	iPd	36	27.02	-0.3		KNIM	4.56	42	eP	51	17.02	-3.1		RDW	2.71	197	eP	47	45.78	2.7
MCK	5.85	28	eP	36	28.14	-0.2		SUA	4.65	19	eP	51	19.00	-2.5		RS2	2.72	196	eP	47	45.88	2.6
TZL	5.86	51	eP	36	28.05	-0.4		PMS	4.70	27	eP	51	19.50	-2.6		RSO	2.72	196	eP	47	45.08	1.8
SDG	6.07	47	ePd	36	30.80	-0.5		SKT	5.03	13	eP	51	24.04	-2.6		RS1	2.72	196	eP	47	45.46	2.2
BWN	6.10	24	eP	36	31.31	-0.4		KNK	5.13	31	eP	51	23.00	-5.1		RED	2.76	196	eP	47	46.94	3.2
GLB	6.29	60	iPd	36	34.20	-0.1		GLI	5.16	40	eP	51	24.22	-4.3		SVW	2.85	228	eP	47	46.40	1.4
			eS	37	41.97			FID	5.30	43	eP	51	26.38	-4.0		GLI	2.94	137	iP	47	47.39	1.2
PAX	6.36	44	eP	36	34.50	-0.8		VZW	5.47	41	eP	51	29.59	-3.3					eS	48	24.34	
CROM	6.40	66	iPd	36	35.93	0.0		VLZ	5.60	41	eP	51	31.27	-3.3		KLU	2.95	120	eP	47	47.48	1.2
SNH	6.44	72	ePd	36	36.53	0.2		SGAM	5.65	49	eP	51	31.79	-3.5		VZW	2.99	130	eP	47	47.53	0.6
WAX	6.48	69	iPd	36	36.54	-0.3		RAGM	5.81	52	eP	51	34.61	-3.0					eS	48	24.05	
NEA	6.54	24	eP	36	36.17	-1.5		TTA	5.93	351	eP	51	39.40	0.1		VLZ	3.02	128	eP	47	47.87	0.7
THY	6.55	40	eP	36	38.49	0.7		HMT	5.97	53	eP	51	36.98	-2.8		SEW	3.10	163	eP	47	46.52	-1.9
TGL	6 55	67	ePd	36	37.82	0.0		KLU	6.00	40	eP	51	37.39	-2.8		IMA	3.19	342	ePc	47	49.80	0.0
CYK	6.60	73	eP	36	39.12	0.7		TOA	6.36	35	eP	51	42.90	-2.3		KNIM	3.20	147	eP	47	48.90	-1.0
WRH	6.67	27	eP	36	37.61	-1.8		WAX	6.64	55	eP	51	46.02	-3.2		FID	3.24	134	eP	47	51.09	0.6
WRG	6.83	73	ePc	36	42.32	0.8		CROM	6.66	52	eP	51	46.99	-2.5		LTI	3.45	151	eP	47	52.26	-1.1
CCB	6.89	27	eP	36	40.41	-1.9		GLB	6.75	46	eP	51	47.71	-2.8		CNPM	3.56	180	eP	47	54.90	-0.1
HDA	6.91	31	ePd	36	40.90	-1.7		YAH	7.11	58	eP	51	52.06	-3.7		CVA	3.63	132	eP	47	55.48	-0.5
DJE	6.99	36	eP	36	42.74	-1.0		IMA	8.99	1	eP	52	20.70	-0.8		GLB	3.84	112	eP	47	59.61	0.6
YAH	7.01	71	iPd	36	44.64	0.5			52 obs. associated											eS	48	45.34	
MDM	7.06	25	eP	36	42.66	-1.9		----------									56 abs. associated						
FBA	7.10	26	ePc	36	44.10	-1.1		& SEP 19, 1991 23h 46m 59.05s								----------							
GLM	7.27	27	ePd	36	45.67	-1.8		63.073 N 151.233 W								SEP 20, 1991 00h 57m 34.80± 0.64s							
CTGM	7.31	66	ePd	36	48.44	0.4		DEPTH = 13.7km								41.894 N ± 5.3km 23.262 E ± 5.3km							
IMA	7.40	5	eP	36	50.40	1.1		CENTRAL ALASKA (1)								DEPTH = 10.0km (geophysicist)							
PCA	7.72	73	eP	36	53.96	0.5		<AEIC>, ML 3.0 (AEIC), 3.2 (PMR).								GREECE-BULGARIA BORDER REGION (363)							
YKU	7.97	77	eP	37	01.20	4.5X										MD 3.0 (THE).							
BCPM	8.02	75	iPd	36	57.63	0.2																	
PNL	8.14	77	eP	36	59.02	0.0		KTH	0.50	16	iP	47	08.60	-0.6		KKB	0.14	258	iPgc	57	38.00	-0.1
HON	8.41	78	ePd	37	02.53	0.0		TRF	0.57	48	iP	47	09.92	-0.6		MMB	0.46	131	i(Pg)d	57	43.00	-1.2
FYU	9.08	26	eP	37	10.49	-0.9		HUR	0.73	97	iP	47	12.96	-0.2		VTS	0.70	357	iPgc	57	48.00	-0.7
SIT	10.67	90	eP	37	34.00	1.7					eS	47	22.89			KNT	0.78	201	iPc	57	49.52	-0.5
YKA	20.00	62	eP	39	25.10	0.7		CUT	0.80	146	iP	47	14.87	0.6					eS	58	00.36	
	0.5s		9.70nm			4.5mb		SKT	1.11	187	iP	47	19.84	0.4		SRS	0.82	162	iPc	57	49.73	-0.9
PNT	22.64	99	iP	39	55.00	4.5X					eS	47	34.31						eS	58	01.24	
	0.6s		8.00nm			4.4mb		RND	1.13	72	eP	47	19.97	0.1		SOH	1.07	176	iPc	57	54.54	-0.5
LRM	28.60	98	eP	40	47.80	1.9					eS	47	34.52						eS	58	09.92	
GUN	80.01	308	PKP	46	57.80	2.0		MCK	1.23	56	eP	47	21.47	-0.1		PLD	1.09	78	iPg	57	56.00	0.7
KKN	80.36	309	PKP	46	57.40	-0.1					eS	47	38.82			RZN	1.11	100	iPg	57	55.00	-0.7
GKN	80.43	309	PKP	46	58.00	0.2		BWN	1.36	35	eP	47	23.95	0.4		GRG	1.14	215	ePd	57	56.56	0.4
PKI	80.50	308	PKP	46	58.40	0.0					eS	47	43.35						eS	58	11.89	
DMN	80.59	309	PKP	46	59.20	0.4		PWA	1.56	156	iPd	47	27.30	0.9		THE	1.28	190	ePc	57	58.84	0.3
S.D. = 0.9 on 102 of 104 abs.								SUA	1.63	172	eP	47	28.34	0.8					eS	58	16.44	
----------											eS	47	51.48			KDZ	1.63	98	iP	58	05.00	1.4
& SEP 19, 1991 22h 50m 12.05s								GHO	1.69	140	eP	47	27.58	-0.8		OUR	1.65	161	ePd	58	04.37	0.5
57.116 N 153.903 W											eS	47	50.97						iS	58	27.32	
DEPTH = 71.0km								NCG	1.73	195	eP	47	29.67	0.7		PAIG	1.99	171	ePc	58	10.24	1.4
KODIAK ISLAND REGION (13)											eS	47	53.61			S.D. = 0.9 on 13 of 13 obs.							
<AEIC>.								PLRM	1.78	146	eP	47	29.99	0.4		----------							
											eS	47	54.10										
KDC	0.99	50	ePd	50	30.10	-0.6		PMR	1.78	146	eP	47	30.10	0.5		% SEP 20, 1991 03h 01m 43.35± 3.05s							
SYI	1.70	28	iP	50	38.85	-1.3		NEA	1.79	31	eP	47	28.61	-1.1		10.670 N ±16.8km 60.701 W ±28.6km							
			eS	51	02.60						eS	47	54.24			DEPTH = 33.0km (normal)							
CDD	1.82	4	eP	50	40.52	-1.4		CGLM	1.81	192	eP	47	31.29	1.2		TRINIDAD (98)							
MCNL	2.09	354	eP	50	42.84	-2.7		SML	1.85	132	eP	47	30.56	-0.1		MD 2.9 (TRN).							
AUI	2.24	6	eP	50	46.81	-0.8		BGL	1.90	197	eP	47	32.83	1.5									
			eS	51	13.55						eS	47	58.33			TBH	0.40	243	eP	01	52.44	-0.1
AUE	2.27	7	eP	50	46.94	-1.0		SPU	1.94	192	eP	47	33.67	1.7					eS	01	58.33	
AUP	2.27	6	eP	50	47.49	-0.6					eS	47	58.67			BOT	0.49	358	eP	01	53.62	-0.2
AUH	2.27	6	eP	50	47.44	-0.6		CKL	1.95	196	eP	47	33.82	1.6					eS	02	02.97	
AUW	2.27	6	eP	50	46.76	-1.3		WRH	1.98	43	eP	47	31.59	-0.9		PIG	0.51	344	eP	01	53.90	-0.2
OPT	2 57	8	eP	50	50.63	-1.6					eS	48	00.45						eS	02	03.22	
CNPM	2.80	29	eP	50	53.90	-1.5		PMS	2.00	156	eP	47	33.60	0.8		TPR	0.52	352	eP	01	53.96	-0.3
INE	2.99	8	eP	50	56.31	-1.9		KNK	2.11	141	eP	47	35.34	0.9					eS	02	03.32	
INW	2.99	7	eP	50	55.95	-2.2					eS	48	02.14			TRN	0.69	268	eP	01	55.71	-0.9
NNL	3.24	24	iP	51	00.34	-1.2		TTA	2.19	268	eP	47	35.30	-0.3					eS	02	05.90	
RED	3.37	10	eP	51	01.50	-1.9		CCB	2.19	42	eP	47	34.44	-1.1		TPP	0.82	245	eP	01	59.12	0.7
RS1	3.41	10	eP	51	02.20	-1.9					eS	48	01.77			TCE	1.03	272	eP	02	01.42	-0.2
RSO	3.41	10	eP	51	02.35	-1.8		MDM	2.31	34	eP	47	36.08	-1.2					eS	02	15.38	
RS2	3.41	10	eP	51	01.69	-2.4					eS	48	06.04			GRW	1.75	328	eP	02	13.14	1.1
RDW	3.42	9	eP	51	02.45	-1.9		HDA	2.33	53	eP	47	36.77	-0.7					eS	02	34.40	
REF	3.44	10	eP	51	02.56	-2.0					eS	48	06 63			S.D. = 0.8 on 8 of 8 abs.							
RDN	3.46	9	eP	51	02.90	-1.9		FBA	2.38	38	eP	47	36.90	-1.3		----------							
NCT	3.49	8	eP	51	03.05	-2.1		TOA	2.54	110	eP	47	42.80	2.3		& SEP 20, 1991 03h 18m 04.50s							
DFR	3.54	10	eP	51	03.81	-2.1		GLM	2.56	40	eP	47	39 82	-1.0		40.288 N 124.530 W							
RDT	3.55	12	iP	51	03.63	-2.4					eS	48	12 24			DEPTH = 6.0km							
SEW	3.80	36	eP	51	06.44	-2.8		RDT	2.57	193	eP	47	42.88	1.9		NEAR COAST OF NORTHERN CALIF. (35)							
																<BRK>, ML 3.3 (BRK).							

20d 03h

FOX 0.47 60 iPc 18 14.09 0.1
eS 18 21.09
FHC 0.66 39 eP 18 16.08 -1.7
eS 18 26.63
e 18 27.00
WDC 1.55 78 eP 18 30.55 -2.1
3 obs. associated

& SEP 20, 1991 03h 36m 23.20s
40.287 N 124.545 W
DEPTH = 5.0km
NEAR COAST OF NORTHERN CALIF. (35)
<BRK>. ML 3.3 (BRK).

FOX 0.48 61 iPc 36 32.93 0.1
eS 36 40.11
FHC 0.67 40 ePc 36 36.42 -0.1
eS 36 45.59
e 36 46.00
WDC 1.56 79 eP 36 52.32 0.7
3 obs. associated

? SEP 20, 1991 04h 06m 53.90± 1.52s
36.818 N ±18.6km 3.041 W ± 7.1km
DEPTH = 10.0km (geophysicist)
STRAIT OF GIBRALTAR (385)
mbLg 2.3 (MDD).

EGUA 0.42 272 eP 07 02.50 0.0
eS 07 09.30
AFC 0.59 317 eP 07 06.00 0.0
eS 07 13.30
ECOG 0.62 318 eP 07 06.50 0.0
eS 07 14.00
ENIJ 0.69 77 eP 07 07.50 0.0
eS 07 17.00
S.D. = 0.0 on 4 of 4 obs.

& SEP 20, 1991 06h 24m 40.40s
61.336 N 140.798 W
DEPTH = 0.0km
SOUTHERN YUKON TERRITORY, CANADA(18)
<AEIC>. ML 3.2 (AEIC).

CTGM 0.45 215 iPd 24 49.12 -0.3
eS 24 58.45
YAH 1.08 206 iPd 25 00.23 -1.6
S 25 18.31
TGL 1.15 240 iPd 25 01.74 -1.1
eS 25 20.53
CROM 1.28 244 iPd 25 03.56 -1.6
eS 25 23.04
WAX 1.34 229 ePd 25 04.69 -1.5
WRG 1.44 206 eP 25 07.04 -0.7
eS 25 26.86
GLB 1.45 276 ePc 25 06.59 -1.4
eS 25 30.47
CYK 1.51 214 eP 25 09.21 0.5
SNH 1.53 222 ePc 25 09.21 0.1
YKU 1.87 163 eP 25 12.10 -1.7
HMT 1.97 241 ePc 25 16.51 1.1
RAGM 2.12 245 ePc 25 18.47 0.8
TMW 2.24 334 eP 25 14.89 -4.5
S 25 46.80
KAIM 2.28 233 eP 25 20.16 0.3
SGAM 2.31 251 ePc 25 20.75 0.4
TZL 2.32 290 eP 25 20.52 0.1
KLU 2.47 276 iPc 25 23.11 0.5
SDG 2.54 300 eP 25 21.22 -2.4
CVA 2.54 254 eP 25 24.19 0.6
TOA 2.67 289 eP 25 26.90 1.4
VLZ 2.68 268 ePc 25 25.52 -0.1
PAX 2.74 309 eP 25 26.18 -0.3
VZW 2.80 267 ePc 25 26.93 -0.4
FID 2.83 260 ePc 25 28.67 1.0
GLI 3.09 264 ePd 25 30.98 -0.4
KNIM 3.54 257 eP 25 36.80 -0.9
KNK 3.69 275 eP 25 39.28 -0.6
LTI 3.71 253 eP 25 39.20 -0.9
GHO 3.91 280 eP 25 41.91 -1.3
PMR 4.01 277 eP 25 44.40 0.0
HDA 4.18 320 eP 25 41.55 -5.2
PMS 4.23 273 eP 25 47.40 -0.2
RND 4.29 302 eP 25 47.89 -0.6
SLKM 4.67 264 eP 25 51.09 -2.8
FBA 4.78 321 eP 25 50.00 -5.4
MDM 4.96 320 eP 25 51.65 -6.2

IMA 7.43 315 eP 26 30.90 -1.9
37 obs. associated

& SEP 20, 1991 06h 40m 03.30s
40.242 N 124.642 W
DEPTH = 1.0km
NEAR COAST OF NORTHERN CALIF. (35)
<BRK>. ML 3.0 (BRK).

FOX 0.57 60 ePc 40 13.86 -0.8
iS 40 23.61
FHC 0.75 42 ePc 40 18.50 0.2
eS 40 28.98
e 40 29.00
WDC 1.64 77 eP 40 34.33 0.9
e 40 35.00
3 obs. associated

& SEP 20, 1991 06h 44m 11.40s
40.263 N 124.482 W
DEPTH = 4.0km
NEAR COAST OF NORTHERN CALIF. (35)
<BRK>. ML 3.4 (BRK). Felt (IV)
at Honeydew. Also felt in the
Ferndale area.

FOX 0.45 55 iPc 44 20.96 0.5
FHC 0.66 35 iPc 44 24.65 0.1
i 44 33.57
WDC 1.52 77 eP 44 37.16 -2.2
i 44 40.38
NWRM 2.19 145 eP 44 47.00 -2.0
MIN 2.20 87 eP 44 46.86 -2.6
e 44 53.11
ORV 2.40 106 eP 44 50.35 -1.8
iS 45 15.05
ZSP 2.89 142 eP 44 57.46 -1.6
eS 45 30.72
BKS 2.96 143 iPc 44 57.80 -2.2
i 45 32.00
PCC 3.21 149 eP 45 00.44 -3.1
iS 45 33.10
GCC 3.77 148 eP 45 08.49 -3.1
CMB 3.89 124 eP 45 14.50 1.2
SAO 4.23 145 eP 45 14.54 -3.5
PRS 4.63 147 eP 45 22.11 -1.6
FRI 4.96 130 eP 45 26.41 -2.1
BONR 5.33 114 eP 45 35.00 1.0
VGB 5.91 26 e(P) 45 41.00 -0.9
MSU 9.69 96 eP 46 33.00 -1.9
17 obs. associated

? SEP 20, 1991 07h 05m 54.70± 2.00s
34.033 S ±13.2km 179.931 E ±23.9km
DEPTH = 33.0km (normal)
4.7mb (3 obs.) 4.7Msz (1 obs.)
SOUTH OF KERMADEC ISLANDS (179)

HBZ 3.80 200 eP 06 51.80 -0.4
KUZ 4.38 231 eP 07 02.30 1.7
URZ 4.80 208 P 07 05.00 -1.4
eS 07 58.60
NOZ 4.82 198 P 07 06.50 -0.3
PATZ 5.26 213 eP 07 13.60 0.5
RUZ 6.28 215 eP 07 27.30 -0.2
ASPA 41.32 272 iPd 13 38.70 -0.3
1.1s 18.00nm 4.7mb
WR2 42.62 277 iPc 13 49.00 -0.7
0.9s 7.60nm 4.4mb
SPA 56.15 180 iPc 15 34.50 1.2
1.1s 17.86nm 5.0mb
LIC 151.95 169 PKP 25 50.40 8.7X
Z 18s 0.11um 4.7Msz
KIC 152.13 170 PKP 25 50.80 8.9X
S.D. = 1.1 on 9 of 11 obs.

& SEP 20, 1991 08h 32m 48.50s
40.278 N 124.447 W
DEPTH = 4.0km
NEAR COAST OF NORTHERN CALIF (35)
<BRK>. ML 3.0 (BRK).

FOX 0.42 55 iPc 32 57.59 0.6
eS 33 03.55
FHC 0.63 34 iPc 33 01.26 0.2
eS 33 10.64
e 33 10.70

WDC 1.49 78 ePd 33 13.71 -2.3
e 33 15.00
MIN 2.17 87 eP 33 23.50 -2.6
4 obs. associated

? SEP 20, 1991 09h 35m 42.37± 1.04s
15.365 S ±25.0km 72.659 W ±16.1km
DEPTH = 33.0km (normal)
SOUTHERN PERU (117)

ARE 1.57 134 iP 36 08.50 0.0
iS 36 29.00
ZOBO 4.46 102 P 36 50.00 0.0
LPB 4.54 105 eP 36 51.00 0.0
CNCB 4.72 108 P 36 53.60 -0.1
NNA 5.27 309 iP 37 01.00 0.0
1.0s 18.00nm 4.5mb
iS 37 56.20
S.D. = 0.0 on 5 of 5 obs.

SEP 20, 1991 09h 37m 42.52± 0.35s
44.832 N ± 5.6km 90.332 E ± 5.7km
DEPTH = 33.0km (normal)
4.8mb (18 obs.)
NORTHERN XINJIANG, CHINA (332)

GTA 8.88 124 eP 39 49.80 -1.9
Z 10s 1.50um
S 41 27.00
KSH 11.93 248 eP 40 52.00 18.7X
LZH 13.48 126 eP 40 55.00 1.0
2.0s 49.00nm 5.1mb
Z 11s 1.12um
N 10s 1.14um
E 10s 1.13um
pP 41 03.50
GAR 15.98 256 eP 41 27.00 0.5
HHC 16.06 97 Pc 41 30.40 2.9
GUN 17.26 193 P 41 43.78 0.9
GKN 17.40 197 P 41 44.70 0.2
0.9s 117.00nm 5.0mb
CD2 17.44 138 eP 41 48.40 3.5X
KKN 17.48 195 P 41 45.54 0.0
0.8s 162.00nm 5.2mb
PKI 17.67 195 P 41 48.20 0.2
1.0s 78.00nm 4.8mb
DMN 17.69 195 P 41 48.08 -0.1
XAN 17.91 121 eP 41 48.10 -2.6
N 10s 0.70um
E 10s 0.60um
TIY 18.04 106 eP 41 53.20 0.9
Z 12s 0.80um
NDI 19.20 217 eP 42 06.50 0.2
GYA 22.56 139 P 42 45.00 3.9X
1.0s 10.00nm 4.2mb
Z 18s 0.60um 4.1Msz
QUE 23.50 239 eP 42 54.90 4.5X
MAIO 24.81 261 eP 43 07.00 4.1X
eS 47 33.00
CHG 26.92 162 eP 43 21.00 -1.6
CLL 49.84 307 iP 46 34.90 0.9
GRFO 51.57 306 P 46 48.20 0.9
LPG 56.26 303 eP 47 22.70 0.5
1.0s 10.00nm 4.8mb
LPL 56.26 303 eP 47 22.80 0.7
1.0s 12.00nm 4.9mb
EKA 56.50 317 Pc 47 23.60 0.2
0.9s 5.80nm 4.6mb
LOR 57.02 306 eP 47 26.50 -0.8
0.8s 6.05nm 4.7mb
Z 20s 0.10um 3.9Msz
SSF 57.34 306 eP 47 29.00 -0.5
1.0s 6.00nm 4.6mb
SMF 57.37 305 eP 47 29.20 -0.5
0.8s 4.05nm 4.5mb
MAF 58.34 305 eP 47 36.40 -0.1
0.8s 4.05nm 4.6mb
TCF 58.51 306 eP 47 37.80 0.1
0.8s 5.35nm 4.7mb
LDF 58.55 309 eP 47 37.60 -0.4
1.0s 12.00nm 4.9mb
FLN 58.66 309 eP 47 38.20 -0.5
0.8s 10.75nm 5.0mb
Z 20s 0.08um 3.8Msz
GRR 59.08 309 eP 47 40.90 -0.7
0.7s 6.60nm 4.9mb
LPF 59.38 309 eP 47 43.10 -0.6

```
MFF     59.68 307 eP     47 45.50  -0.3
        1.0s      8.00nm          4.8mb
FBA     61.63  24 P      47 58.20  -0.6
ASPA    78.92 140 iPc    49 45.10   1.0
        1.0s      6.20nm          4.6mb
      S.D. = 1.0  on  30 of  35 obs.
-----------------------------------------
%  SEP  20, 1991  09h 52m 09.69± 0.99s
   39.310 N ±11.2km  114.097 E ±10.0km
   DEPTH =  10.0km  (geophysicist)
 NORTHEASTERN CHINA                (658)
      ML 3.9 (BJI).

BJI     1.76  65 Pn     52 40.00  -0.4
                Pg     52 41.00
                Sn     53 04.00
                Sg     53 05.00
TIY     2.06 220 Pnd    52 46.00   1.2
                Pg     52 48.60
                Sg     53 15.10
HHC     2.48 309 Pn     52 51.20   0.4
                Pg     52 53.00
                Sg     53 27.60
BTO     3.39 294 ePg    53 08.60   4.8X
                Sg     53 52.80
TIA     3.91 141 ePn    53 11.70   0.5
                Pg     53 21.70
                Sg     54 12.40
XAN     6.70 220 ePn    53 49.00  -1.7
                Pg     54 12.00
                Sg     55 36.00
LZH     8.74 252 eP     54 48.00  28.8X
                Lg     56 40.00
      S.D. = 1.5  on   5 of   7 obs.
-----------------------------------------
•  SEP  20, 1991  10h 05m 28.90± 0.82s
   2.391 N ±14.0km   98.895 W ±12.1km
   DEPTH =  10.0km  (geophysicist)
   4.4mb (  7 obs.)
 WEST OF GALAPAGOS ISLANDS         (695)

PPM    16.57   1 (P)    09 28.00   4.4X
UPA    20.34  70 (P)    10 10.00   1.8
     Z  16s      0.67um          4.1MszX
ANCC   22.03  87 eP     10 24.30  -1.2
HOOC   22.26  87 eP     10 27.54  -0.6
PURC   22.51  90 eP     10 30.95   0.0
HOBC   22.80  84 eP     10 32.93  -0.4
ANMO   33.15 349 P      12 07.90   0.1
       1.1s      4.11nm          4.3mb
PLM    35.10 333 P      12 25.00   0.3
ZOBO   35.61 122 P      12 29.80   0.1
                S      18 04.00
                LR     23 40.00
LPB    35.76 123 P      12 31.00   0.2
     Z  16s      1.35um          4.8MszX
                LR     22 06.00
CNCB   35.99 123 P      12 33.20   0.3
GOL    37.60 352 P      12 46.00   0.2
       1.0s      1.75nm          3.8mb
BW06   41.32 348 P      13 16.30  -0.4
       1.2s      9.82nm          4.4mb
SIV    41.61 117 eP     13 11.00  -8.1X
                i      14 50.80
RSSD   41.80 354 P      13 21.00   0.4
       1.2s      9.11nm          4.4mb
ORV    42.32 334 P      13 25.50   0.9
LRM    44.86 347 eP     13 45.10  -0.4
NEW    48.32 344 P      14 11.30  -1.2
       0.9s      4 39nm          4.5mb
PNT    49.99 342 eP     14 25.00  -0.3
       0.6s      3 00nm          4.4mb
MBC    74.68 355 eP     17 10.00   0.1
       1.0s      7 00nm          4.6mb
      S.D. = 0.7  on  18 of  20 obs.
-----------------------------------------
•  SEP  20, 1991  10h 06m 57 34± 1.73s
   1.899 N ±26.5km   99.170 W ±18.1km
   DEPTH =  10.0km  (geophysicist)
   4.6mb (  6 obs.)
 WEST OF GALAPAGOS ISLANDS         (695)

III    16.38 359 (P)    10 50.50   1.3
ANCC   22.34  85 eP     11 57.36   0.3
HOOC   22.57  86 eP     11 59.87   0.3
CLMC   22.66  85 eP     12 00.65   0.2
PURC   22.80  89 eP     12 01.90  -0.2

HOBC   23.13  83 eP     12 04.88  -0.1
MEO    32.72   1 iPd    13 31 00  -1.3
ANMO   33.57 349 P      13 39.50  -0.5
       1.1s      3.16nm          4.2mb
PLM    35.41 334 P      13 56.80   1.0
GOL    38.05 352 P      14 17.90  -0.1
       1.2s      5.74nm          4.2mb
BW06   41.75 349 P      14 48.00  -0.6
       1.1s     13.10nm          4.6mb
RSSD   42.26 355 P      14 52.60  -0.2
ORV    42.64 334 P      14 57.70   2.0
NEW    48.71 344 P      15 43.00  -1.0
       1.0s      8.50nm          4.7mb
SES    49.36 350 eP     15 48.00  -0.9
PNT    50.38 343 eP     15 56.00  -0.7
       0.9s     12.00nm          4.8mb
MBC    75.14 355 eP     18 41.50   0.4
       1.0s      7.00nm          4.7mb
      S.D. = 0.9  on  17 of  17 obs.
-----------------------------------------
?  SEP  20, 1991  10h 28m 05.59± 4.87s
   28.718 N ±83.6km  131.393 E ±57.0km
   DEPTH =  33.0km  (normol)
   4.3mb (  3 obs.)
 SOUTHEAST OF RYUKYU ISLANDS       (239)

MAT     9.69  35 (P)    30 25.00  -0.7
CHTO   31.20 259 P      34 24.20   0.0
       0.9s      3.84nm          4.2mb
GUN    39.89 280 P      35 40.20   1.6
PKI    40.37 280 P      35 41.80  -0.7
KKN    40.43 280 P      35 41.80  -1.1
DMN    40.62 280 P      35 43.50  -1.0
GKN    40.94 281 P      35 46.80  -0.2
HFS    77.91 333 eP     40 03.10   1.7
       0.4s      1.10nm          4.2mb
NAO    78.59 335 P      40 05.60   0.4
       0.7s      2.50nm          4.3mb
      S.D. = 1.2  on   9 of   9 obs.
-----------------------------------------
?  SEP  20, 1991  10h 59m 45.70± 2.45s
   4.372 N ±26.2km   76.161 W ±20.7km
   DEPTH =  33.0km  (normol)
 COLOMBIA                          (103)
      MD 3.6 (UVC).

HOBC    0.03 123 iPc    59 51.23  -0.2
BUGC    0.48 191 ePc    59 55.24  -1.0
                eS     00 04.40
CLMC    0.63 219 iPc    59 58.56   0.2
                eS     00 10.20
HOOC    1.01 208 eP     00 02.90  -1.0
                eS     00 17.80
ANCC    1.10 220 eP     00 05.46   0.5
                eS     00 22.30
PURC    2.05 186 eP     00 20.34   1.4
      S.D. = 1.2  on   6 of   6 obs.
-----------------------------------------
   SEP  20, 1991  11h 16m 11.58± 0.14s
   36.191 N ± 3.3km  100.063 E ± 2.7km
   DEPTH =  13.3km  (  9 depth phases)
   5.5mb ( 78 obs.)  5.0Msz (  6 obs.)
 QINGHAI, CHINA                    (325)
      ML 5.1 (BJI).

LZH     3.06  91 iPnc    17 02.50   1.8
                Pg     17 06.50
                Sn     17 41.00
GTA     3.22 357 iPgc    17 06 70   3.8X
     Z  10s     33.40um
     N  10s     27.10um
CD2     6.10 149 Pg     18 03.80  20.2X
     Z  10s     21.00um
     N  10s     26.80um
                Sg     19 24.00
XAN     7.57 104 iPnc   18 01.50  -2.7
     N  10s      5.80um
     E  12s      9.20um
                Pg     18 31.50
                Sn     19 28.70
                Sg     20 08.70
BTO     8.97  58 eP     18 22.00  -1.8
LSA     9.89 232 P      18 36.80  -0.1
TIY    10.02  78 eP     18 33.80  -4.4X
     Z  13s      7.20um
     N  13s     14.30um
                S      20 36.00

HHC    10.14  59 Pc     18 38.80  -1.1
       0.6s     80.00nm          6.3mb
     Z  12s      9.60um          4.3Msz
     E  10s      6.80um
                S      20 38.40
GYA    11.22 148 iPc    18 57.00   2.3
     Z  14s      4.50um
                PP     19 03.00
KMI    11.27 167 Pc     18 55.00  -0.5
       2.0s     80.00nm          5.7mb
     Z  10s      9.70um          4.0Msz
WMO    12.16 313 P      19 05.00  -2.3
       1.0s    100.00nm          6.0mb
     Z  12s     15.10um          4.3MszX
                S      21 21.00
WHN    13.20 111 eP     19 21.50   0.4
     Z  12s      6.00um
     E  10s      9.00um
                eS     21 44.50
BJI    13.26  68 P      19 21.00  -0.9
     Z  12s      4.23um
TIA    13.78  85 eP     19 26.30  -2.6
     Z  14s      3.20um
     E  12s      3.50um
GUN    14.58 239 P      19 37.28  -2.4
       0.8s    123.00nm          5.6mb
KKN    15.07 240 P      19 42.66  -3.3X
       0.7s    191.00nm          5.6mb
PKI    15.11 239 P      19 43.40  -3.3X
       0.7s    115.00nm          5.4mb
DMN    15.30 240 P      19 44.18  -4.9X
       0.9s    114.00nm          5.2mb
GKN    15.40 242 P      19 46.44  -3.8X
       0.9s    127.00nm          5.2mb
NJ2    16.10  99 Pd     20 01.20   2.2
                sP     20 13.00
IRK    16.36   9 eP     20 04.40   2.1
                e      20 16.70
                e      20 39.00
                eS     21 35.80
                e      23 14.00
                e      23 23.10
                e      24 28.20
                eSg    24 54.00
CHG    17.34 184 eP     20 14.00  -0.9
       1.0s     92.50nm          4.9mb
                eS     23 36.00
GZH    17.41 135 P      20 17.00   1.4
       1.0s     90.00nm          4.9mb
     Z  12s      5.40um          4.2MszX
     N  13s      1.80um
     E  10s      4.30um
SSE    18.30 100 Pc     20 28.00   1.4
       6.0s    600.00nm          4.9mb X
     Z  12s      4.50um          3.9Msz
                eS     23 48.00
LOE    18.77 175 eP     20 33.00   0.5
SNY    19.10  66 Pc     20 36.00  -0.3
       0.8s     40.00nm          4.7mb
     Z  10s      2.70um
QIZ    19.15 151 eP     20 36.50  -0.6
     N  13s      2.00um
     E  14s      5.30um
                eS     24 09.00
KSH    19.29 287 P      20 39.00   0.1
QZH    19.46 120 P      20 43.70   2.8
     Z  12s      4.00um
NST    20.44 180 eP     20 52.50   1.2
NDI    20.66 255 iPc    20 51.50  -2.0
       0.6s    120.00nm          5.4mb
                eS     21 40.00
CN2    20.83  61 eP     20 54.00  -1.1
     Z  16s     10.50um          5.3MszX
     N  10s      2.50um
     E  10s      3.40um
                esP    21 08.00
KHT    21.36 184 eP     21 01.20   0.5
GAR    23.69 286 iP     21 24.50   0.7
                ePP    22 03.00
                iS     25 52.00
MDJ    23.91  60 Pc     21 26.50   0.8
       2.0s    300.00nm          5.5mb
QUE    28.26 267 iPc    22 07.00   0.3
SNG    28.88 179 eP     22 15.00   3.0X
POO    29.04 240 eP     22 14.50   1.0
BOM    29.52 242 eP     22 21.50   3.7X
GBA    30.30 228 Pd     22 24.40  -0.4
```

20d 11h

	0.6s	10.80nm		4.9mb		WTTA	63.54	310	iPc	26	41.70	-2.3		OIS	67.71	140	eP	27	08.00	-2.7
IPM	31.47	178	ePc	22	38.00	2.9X		1.0s	60.90nm			5.7mb					i	27	13.10	16km
YAK	31.79	26	eP	22	37.00	-0.4				i	26	43.40	6km	SBF	67.72	309	iPc	27	10.70	0.0
MAIO	32.55	282	iPc	22	46.00	1.5				i	26	50.50		PMR	67.74	29	P	27	09.90	-0.5
	1.3s	23	69nm		5.0mb		TDS	63.77	301	P	26	45.75	0.4		0.7s	56.98nm			5.9mb	
		eS		29	00.00			0 8s	45.30nm			5.7mb		EKA	67.87	323	Pc	27	10.90	-0.5
KOD	32.98	224	eP	22	48.20	-0.4	WIT	64.02	318	eP	26	48.00	1.3		1.2s	41.10nm			5.5mb	
IR4	39.58	284	iPc	23	46.40	2.1	SGO	64.08	302	P	26	47.15	-0.2	LOR	68.23	313	iPc	27	13.10	-0.7
IR7	39.69	284	iPc	23	47.40	2.3		0.5s	11.90nm			5.3mb			1.0s	16.00nm			5.2mb	
IR1	39.70	284	iPc	23	47.00	1.7	OGA	64.09	310	iPc	26	47.00	-0.6		Z 20s	0.96um			5.0Msz	
IR5	39.84	284	eP	23	48.40	1.9		0.8s	23.00nm			5.4mb		LBF	68.30	313	iPc	27	13.60	-0.7
DHR	43.40	271	iPc	24	15.00	-0.5	DUI	64.17	304	P	26	48.27	0.3		1.2s	23.80nm			5.2mb	
SLY	43.70	286	ePd	24	20.50	2.7		0.1s	3.50nm			5.5mb		FRF	68.37	309	iPc	27	14.50	-0.2
MSL	45 29	288	ePd	24	31.00	0.4	WTS	64.30	317	ePc	26	49.00	0.4		0.6s	10.80nm			5.2mb	
OBN	46.46	315	iPc	24	40.00	0.4		1.0s	39.00nm			5.5mb		SSF	68.54	313	iPc	27	15.20	-0.5
	1.5s	0.14nm			2.8mb X	BNS	64.55	316	iPc	26	50.60	0.3			1.2s	28.25nm			5.3mb	
		ePcP	26	14.20			Z 14s	0.70um				5.0MszX		SMF	6B.55	313	iPc	27	15.40	-0.4
		ePP	26	31.00		WR2	64.58	144	iPd	26	49.00	-1.7		LMR	6B.57	309	iPc	27	15.90	0.0
		LO	41	05.00			0.7s	42.80nm				5.7mb			0.6s	19.85nm			5.5mb	
		LR	44	06.00				i		26	53.70	15km		LRG	68.60	309	iPc	27	16.20	0.1
MJMA	47.51	274	iPc	24	47 30	-1.1	SOI	64.68	300	P	26	50.93	-0.3		1.0s	32.00nm			5.5mb	
AFIF	50.01	273	ePc	25	09.30	1.5		1.0s	30.30nm			5.4mb			Z 20s	0.50um			4.7Msz	
SOD	50.85	331	iP	25	13.40	-0.1	OSS	64.71	310	ePc	26	51.30	-0.3	AVF	6B.77	313	iPc	27	16.80	-0.3
KAF	51.30	325	iP	25	16.70	-0.3	ASS	64.73	306	P	26	51.86	0.2		1.0s	48.00nm			5.6mb	
	0.6s	27.00nm			5.4mb			0.8s	105.80nm			6.1mb		BGF	69.18	313	iPc	27	19.40	-0.3
HRI	52.07	287	iPc	25	24.30	0.9	GMB	64.77	300	P	26	51.79	-0.3		0.Bs	19.50nm			5.3mb	
NUR	52.29	323	iP	25	24.30	-0.1		0.1s	14.10nm			6.1mb		MAF	69.52	313	iPc	27	22.00	0.2
DSI	53.02	285	eP	25	31.00	0.7	SFI	64.87	307	P	26	53.41	1.0		1.0s	64.00nm			5.7mb	
PSN	54.05	302	iP	25	38.00	0.4		1.2s	320.80nm			6.4mb		TCF	69.70	313	iPc	27	23.00	0.1
MBH	54.15	283	iPc	25	38.80	0.1	CRE	64.94	307	P	26	53.B1	0.8		1.0s	60.00nm			5.7mb	
HOL	54.23	283	eP	25	38.70	-0.5	PGD	64.98	307	P	26	54.31	0.9	LDF	69.B4	316	iPc	27	23.40	-0.2
VRI	54.36	305	iPc	25	39.00	-1.0	MNS	65.03	305	P	26	53.80	0.3		0.9s	29.50nm			5.4mb	
MLR	55.00	304	eP	25	45.00	0.1		0.1s	3.20nm			5.5mb		FLN	69.95	316	iPc	27	24.00	-0.3
ELL	55.19	293	iP	25	45.00	-1.4	MBC	65.09	10	ePc	26	53.50	0.1		0 8s	24.20nm			5.4mb	
UPP	55.86	323	iPc	25	50.20	-0.4		0.9s	14.00nm			5.1mb			Z 20s	0.80um			5.0Msz	
		i		25	54.40	14km	VDL	65.22	310	ePc	26	54.50	-0.4	LSF	70.12	313	iPc	27	24.90	-0.5
PVL	56.16	302	iP	25	54.00	1.0	SLE	65.23	312	ePc	26	54.40	-0.3		1.0s	14.00nm			5.0mb	
KDZ	56.65	300	iP	25	57.00	0.4	LLS	65.33	311	ePc	26	55.20	-0.4	GRR	70.36	316	iPc	27	26.60	-0.2
PLD	56.98	301	iP	25	59.00	0.0	ENN	65.35	316	eP	26	55.00	-0.4		0.Bs	61.80nm			5.8mb	
RZN	57.13	300	iPc	26	00.00	-0.2		1.0s	35 00nm			5.5mb		CAF	70.50	312	iPc	27	28.40	0.6
SPC	57.49	310	iP	26	03.80	1.1	SVW	65.37	31	P	26	55.80	0.3		1.0s	58.00nm			5.7mb	
HFS	57.68	324	eP	26	02.70	-1.0		0.8s	37.93nm			5.6mb		RJF	70.63	312	iPc	27	29.00	0.5
	0.6s	31 00nm			5.5mb		ZLA	65.42	312	ePc	26	55.50	-0.5		1.2s	77.35nm			5.7mb	
Z	17s	0 63um			4.8MszX	FEL	65.47	312	P		26	55.76	-0.6	LPF	70.66	316	iPc	27	28.50	-0.1
		LR	50	42.00		MME	65.49	308	P		26	57.84	1.1		0.8s	18.80nm			5.3mb	
VTS	57.84	302	iP	26	05.00	-0.2	CDF	65.66	313	P	26	57.17	-0.4	BALM	70.66	27	P	27	29.00	0.4
MMB	57.85	301	iP	26	05.00	-0.1	TMA	65.76	310	ePc	26	57.50	-0.9	MFF	70.92	314	iPc	27	30.50	0.3
KKB	58.20	301	iPc	26	07.00	-0.5	ECH	65.82	313	P	26	57.91	-0.6		1.0s	96.00nm			5.9mb	
KNA	58.36	147	eP	26	07.00	-1.7	BBS	65.96	312	P	26	58.93	-0.5	CTAO	71.00	134	iPc	27	30.00	-1.0
BUD	58.84	308	eP	26	12.00	0.1	MOF	66.00	313	P	26	59.50	-0.3		1.0s	15.00nm			5.1mb	
SKO	59.29	302	eP	26	14.50	-0.6	BSF	66.21	313	P	27	00.73	-0.4			e		27	33.00	10km
	1.2s	59.00nm			5.6mb		FBA	66.32	26	ePc	27	01.90	0.5	LPO	71.16	312	iPc	27	32.10	0.4
ZST	59.78	310	iP	26	18.20	-0.2		1.0s	22.00nm			5.3mb			0.9s	52.40nm			5.7mb	
VKA	60.25	310	iPc	26	22.50	0.9	MMK	66.34	311	ePc	27	02.00	-0.2	MTHF	71.27	310	P	27	32.58	0.1
PRU	60.67	312	Pc	26	24.70	0.2	SNF	66.39	316	Pc	27	02.30	0.2	LFF	71.29	312	iPc	27	33.20	0.7
Z	13s	1.10um			5.2MszX	HAU	66.40	313	iPc	27	02.00	-0.2			0.6s	48.70nm			5.8mb	
N	16s	0.60um					0.8s	18.80nm				5.3mb		PERF	71.29	309	P	27	32.25	-0.4
E	16s	1.40um					Z 20s	1.13um				5.1Msz		LSPF	71.65	310	P	27	35.11	0.4
		e	26	29.60	16km	DOU	66.42	316	Pc	27	03.00	0.7		TRGS	71.85	310	P	27	36.35	0.2
BRG	60 69	314	iPc	26	24.30	-0.3	LOMF	66.42	312	P	27	01.86	-0.6	GRBF	71.94	310	P	27	36.43	-0.1
	1.4s	52 00nm			5.5mb		VITF	66.51	313	P	27	02.69	-0.2	LESF	71.99	310	P	27	36.99	0.2
CLL	61.07	314	iP	26	26.70	-0.5	ORX	66.53	310	P	27	01.08	-2.2	MLS	72.15	310	P	27	37.33	-0.4
	1.7s	50.00nm			5.4mb		DIX	66.67	311	ePc	27	04.50	0.2	EPF	72.57	311	iPc	27	40.10	-0.2
PTJ	61.39	308	eP	26	29.50	0 0	PCP	66.69	309	P	27	03.33	-0.9		0.8s	20.15nm			5.2mb	
ZAG	61.41	308	iPc	26	29.70	0.2	MRWA	66.77	165	eP	27	03.50	-1.1	ENSF	72.70	311	P	27	42.03	0.9
KHC	61.58	312	iPc	26	30.80	0.0	RSO	66.91	31	P	27	05.70	0.2	BTH	72.B5	311	Pc	27	42.00	0.2
	1.3s	15.70nm			5.0mb		FIN	67.07	309	P	27	05.38	-1.2	EBR	73.70	309	eP	27	47.00	0.3
Z	18s	1.80um			5.3Msz		LSD	67.12	310	P	27	07.43	0.2	EROO	73.75	309	iPc	27	47.20	0.1
N	18s	0.50um					RSP	67.21	310	P	27	05.38	-2.2	ETOR	75.29	310	iPc	27	56.50	0.4
E	18s	1.70um					ROB	67.24	309	P	27	06.72	-1.0	EALH	76.60	307	eP	28	04.00	0.6
		e	28	45.00	724kmX	RSL	67.34	311	P	27	08.32	-0.1	GUD	76.69	311	iPc	28	04.90	0.8
WET	62 00	312	iPc	26	33 80	0.2	BHB	67.35	310	P	27	05.79	-2.6	EVIA	76.84	308	eP	28	06.00	1.1
	1.3s	54.00nm			5.6mb		LPG	67.35	310	iPc	27	09.10	0.4	TOL	77.07	310	iP	28	07.00	0.9
VBY	62 00	308	ePc	26	34.40	0 8		0.6s	42.25nm			5.8mb			0.8s	97.01nm			5.9mb	
HOF	62 12	314	iPc	26	34.20	-0 1	LPL	67.36	310	iPc	27	09.00	0.4	RMO	77.42	136	iPc	28	19.00	11.0X
	1.0s	37.00nm			5.5mb		PGF	67.36	307	iPc	27	08.80	0.3			i		28	23.00	13km
MOX	62.14	314	iPc	26	34 20	-0 2		0.7s	59 55nm			5.9mb		YKA	77.77	16	eP	28	09 50	0.0
	1.6s	49 00nm			5.4mb		IMI	67.41	309	P	27	08.67	-0.1		1 0s	15.50nm			5.0mb	
LJU	62.24	308	eP	26	35.00	-0.2	ENR	67.55	309	P	27	07.95	-1.8	EBAN	77.93	308	eP	28	11.70	0.9
CEY	62 44	308	eP	26	36.30	-0.2	ASPA	67.58	146	iPc	27	08.70	-1.2	STK	78.10	145	eP	28	10.90	-0.7
BHG	62.58	311	iPc	26	37.90	0.5		0.7s	33.90nm			5.6mb			0.8s	7.80nm			4.8mb	
VOY	62.65	309	eP	26	37.10	-0.9			i		27	13.30	15km	EPLA	78.21	311	eP	28	13.80	1.4
GRF	62.76	313	iPc	26	39.20	0.6	STV	67.61	309	P	27	08.05	-2 0	EGUA	78.58	307	eP	28	14.50	0.1
	1 4s	114 00nm			5.9mb		RRL	67 61	310	P	27	09.69	-0.6	EHOR	79.06	309	eP	28	18.00	1.0
Z	18s	1 00um			5.0Msz		BNI	67 62	310	P	27	10.10	-0 1	EPRU	79.57	308	eP	28	20.00	0.2
GRFO	62.77	313	P	26	38.40	-0.2		0.5s	7.70nm			5.1mb		EJIF	80.03	308	eP	28	22.30	0.0
TRI	62.87	308	eP	26	38.30	-1.0	PZZ	67.62	309	P	27	06.92	-3 3X	KRI	84.83	245	iPc	28	48.50	1.1

LSZ 84.90 247 iPd 28 49.90 2.2
DZM 85.35 121 iPd 28 51.10 1.2
FFC 87 48 13 iPc 28 59.90 0.1
0.7s 19.00nm 5.5mb
BUL 87 68 243 iPc 29 00.30 -1.0
0.6s 36.67nm 5.9mb
PNT 87 87 25 eP 29 03.00 1.2
0.8s 14.00nm 5.3mb
SES 89.52 19 eP 29 10.00 0.3
NEW 89.61 24 P 29 11.70 1.5
0.8s 25.00nm 5.5mb
pP 29 16.70 16km
LRM 93.26 22 eP 29 28.50 1.2
ORV 95 45 31 P 29 40.00 2.8
RSSD 97.12 17 P 29 45.70 0.7
0.9s 8.60nm 5 3mb
KIC 98.09 284 P 29 49.00 -0.4
LIC 98.40 284 P 29 50.20 -0.6
MSU 99 92 25 P 30 01.90 4.1X
SPA 126.01 180 iPKPd 35 11.90 -2.2
1.0s 10.50nm
SOB1 135.54 297 ePKP 35 32.10 -1.6
BMA 146.26 284 ePKP 35 54.50 1.9
PPD 151.41 292 ePKP 36 07.10 6.5X
e 36 12.00
SIV 153 79 315 PKP 36 04.40 0.3
ZOBO 157.54 329 PKP 36 09.30 -0.4
LPB 157.77 329 PKP 36 10.00 0.2
CNCB 157 97 328 PKP 36 11.20 1.0
S.D. = 1.0 on 218 of 232 obs.

& SEP 20, 1991 11h 20m 26.00s
40.285 N 124.515 W
DEPTH = 10.0km
NEAR COAST OF NORTHERN CALIF. (35)
<BRK>. ML 3.3 (BRK).

FOX 0.46 59 iPc 20 35.14 -0.3
FHC 0.66 38 iPc 20 38.82 -0.3
eS 20 47.65
e 20 47.70
WDC 1.54 78 iPc 20 51.19 -2.3
e 20 52.00
MIN 2.23 88 ePd 21 01.14 -2.5
GCC 3.80 148 ePd 21 23.71 -2.1
SAO 4.26 145 eP 21 29.56 -2.8
6 obs. assocIated

% SEP 20, 1991 11h 37m 37.16± 0.83s
39.261 N ± 6.2km 29.129 E ±10.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ALT 0.79 105 iPg 37 53.00 0.4
eSg 38 06.50
KHL 0.99 162 ePn 37 55.60 -0.3
IZI 1.11 14 iPn 37 57.70 -0.3
YLV 1.32 8 ePn 38 01.50 0.0
EDC 1.46 318 ePn 38 04.00 0.5
HRT 1 61 15 ePn 38 06.00 0.2
ISK 1.80 358 ePn 38 08.00 -0.5
S.D. = 0.5 on 7 of 7 obs

& SEP 20, 1991 12h 07m 22.50s
40.323 N 124.400 W
DEPTH = 6.0km
NEAR COAST OF NORTHERN CALIF. (35)
<BRK>. ML 3.0 (BRK).

FOX 0.37 57 iP 07 30.43 0.5
eS 07 37.60
FHC 0.57 33 ePc 07 34.12 0.1
eS 07 41.64
e 07 41.70
WDC 1 44 79 eP 07 46.62 -2.6
3 obs. assocIated

• SEP 20, 1991 12h 11m 40 01± 0.98s
2.430 N ±16 2km 98.857 W ±13.8km
DEPTH = 10.0km (geophysicist)
4.6mb (8 obs.)
WEST OF GALAPAGOS ISLANDS (695)

III 15.86 358 (P) 15 29.70 4.4X
PPM 16.54 1 (P) 15 38.70 4.5X
UPA 20 29 71 (P) 16 19.00 0.2
Z 16s 1.01um 4.3MszX

CUMC 21.03 94 eP 16 27.82 0.8
ANCC 21.99 87 eP 16 33.62 -2.6
HOOC 22.22 87 eP 16 38.68 -0.1
PURC 22.48 90 eP 16 42.46 0.8
HOBC 22.76 85 eP 16 44 73 0.7
MEO 32.19 0 iPc 18 10.50 0.1
ANMO 33.12 349 P 18 18.10 -0.6
1.3s 8.17nm 4.5mb
PLM 35.08 333 P 18 35.70 0.0
ZOBO 35.60 123 P 18 41.00 0.3
S 24 08.00
LR 29 48.00
LPB 35.75 123 P 18 48.00 6.2X
Z 16s 1.35um 4.8MszX
LR 29 22.00
CNCB 35.98 123 P 18 44.00 0.1
GOL 37.57 352 P 18 57.00 0.3
1.1s 5.13nm 4.2mb
pP 19 08.00 39kmX
GLD 37.60 352 P 18 58.00 1.2
1.3s 16.09nm 4.6mb
MSU 37.92 343 eP 19 01.00 1.4
BW06 41.29 348 P 19 26.90 -0.7
1.1s 11.90nm 4.5mb
pP 19 37.60 37kmX
SIV 41.59 117 P 19 30.00 -0.1
RSSD 41.77 354 P 19 32.00 0.6
1.2s 15.67nm 4.6mb
pP 19 42.70 37kmX
ORV 42.30 334 P 19 36.00 0.4
pP 19 43.60 26kmX
NEW 48.29 344 P 20 22.00 -1.4
0.9s 4.39nm 4.5mb
PNT 49.97 342 eP 20 35.00 -1.2
0.7s 5.00nm 4.6mb
MBC 74 64 355 eP 23 20.50 -0.4
1.0s 7.00nm 4.6mb
S.D. = 1.0 on 21 of 24 obs.

• SEP 20, 1991 12h 24m 21.55± 1.10s
5.428 S ±13.0km 146.448 E ±10.6km
DEPTH = 145.7 ± 5.4 km
5.1mb (7 obs.)
EASTERN NEW GUINEA REG., P.N.G. (207)

MDG 0.69 285 iPc 24 43.30 -0.4
YYYY 0.94 211 eP 24 46.50 0.7
eS 25 05.50
MNDI 2.87 255 eP 25 09.00 1.2
PMG 4.02 170 iPd 25 20.90 -1.7
eS 26 06.00
CTAO 14.57 181 iPd 27 46.50 4.5X
1.0s 65.00nm 4.9mb
epP 27 55.50
OIS 16.44 203 eP 28 05.00 -0.3
MTN 16.82 243 iPc 28 09.30 -0.6
WR2 18.61 218 iPd 28 29.60 -1.0
0.5s 114.70nm 5.5mb
i 32 05.10
ASPA 21.79 212 iPd 29 03.90 1.1
0.6s 69.00nm 5.3mb
eS 32 54.80
BRS 22.66 165 iPd 29 12.50 1.3
0.9s 5.30nm 4.0mb X
ARMA 25.33 169 iPc 29 38.00 1.3
STK 26.71 189 eP 29 48.90 -0.2
0.4s 4.80nm 4.5mb
WARB 28.01 220 iPd 30 01.40 0.5
FORR 30.61 212 eP 30 24.00 0.1
NANU 34.38 237 eP 30 55.70 -1.0
COOL 34.73 220 iPd 30 59.10 -0.6
MRWA 37.26 227 iPc 31 21.00 0.1
KLB 37.41 222 iPd 31 21.70 -0.5
0.4s 61.00nm 5.7mb
BAL 37.54 225 iPd 31 23.00 -0.3
0.4s 24.00nm 5.3mb
NWAO 38.59 221 eP 31 32.00 0.0
RKG 39.77 219 eP 31 42.50 0.8
SPA 84.61 180 iPd 36 39 10 -0.5
0.8s 12.50nm 4.8mb
SIV 145.43 128 PKP 43 44.40 -0.3
TIC 151.60 274 PKP 44 01.80 7 3X
LIC 151 61 273 PKP 44 02.00 7.6X
S.D. = 0.9 on 22 of 25 obs.

• SEP 20, 1991 12h 26m 53.01± 0.74s
9.827 N ± 9.5km 93.411 E ±12 8km
DEPTH = 33.0km (normol)
4.7mb (3 obs.)
NICOBAR ISLANDS, INDIA (704)

CHG 10.42 30 eP 29 23.00 -0.3
CHTO 10.42 30 P 29 23.20 -0.1
PKI 19.20 338 P 31 17.94 0.6
GUN 19.34 339 P 31 19.26 0.2
DMN 19.34 337 P 31 19.00 0.0
KKN 19.44 338 P 31 20.40 0.3
GKN 19.88 337 P 31 25.38 0.7
WR2 50.01 126 iPc 35 46.50 -0.1
0.2s 40.50nm 6.1mb X
ASPA 51.72 131 eP 35 59.80 0.2
0.3s 8.40nm 5.2mb
STK 61.97 134 eP 37 13.00 0.6
0.7s 2.30nm 4.4mb
HFS 76.42 330 eP 38 38.50 -2.3
0.3s 2.10nm 4.6mb
S.D. = 0.9 on 11 of 11 obs.

? SEP 20, 1991 12h 44m 47.30± 1.07s
6.704 N ±18.6km 72.874 W ±19.5km
DEPTH = 151.0 ± 13.6 km
NORTHERN COLOMBIA (99)

BMG 0.42 331 eP 45 10.00 0.0
BOG 2.38 210 eP 45 30.50 2.7
eS 46 00.50
HOBC 4.00 234 ePd 45 47.58 -0.8
eS 46 26.00
BUGC 4.37 231 ePd 45 53.25 -0.1
eS 46 36.00
CLMC 4.62 233 eP 45 56.10 -0.6
HOOC 4.93 230 ePc 45 59.72 -1.3
ANCC 5.08 232 eP 46 02.10 -0.6
PURC 5.57 219 eP 46 10.12 0.4
CUMC 7.58 221 ePc 46 36.85 0.1
TCE 11.69 69 eP 47 39.96 9.4X
TPP 11.85 72 eP 47 42.71 10.0X
TRN 12.00 70 eP 47 43.10 8.5X
TBH 12.26 71 eP 47 48.11 10.1X
ZOBO 23.30 168 P 49 45.00 1.6
LPB 23.57 168 eP 49 43.00 -2.8
CNCB 23.86 168 P 49 49.00 0.3
TIC 67.34 86 P 55 28.00 -0.6
LIC 67.36 86 Pd 55 28.20 -0.6
KIC 67.64 86 Pd 55 30.00 -0.5
ASPA 149.24 234 iPKPd 04 18.60 2.8
0.7s 11.60nm
S.D. = 1.6 on 16 of 20 obs.

SEP 20, 1991 12h 53m 07.78± 0.35s
1.751 N ± 7.1km 123.009 E ± 9.8km
DEPTH = 31.5km (4 depth phases)
4.6mb (7 obs.)
MINAHASSA PENINSULA, SULAWESI (265)

TSM 5.72 296 ePc 54 30.50 -2.2
KKM 8.01 302 ePc 55 04.20 -0.8
MTN 16.59 151 eP 56 59.00 -0.8
OIZ 21.48 324 eP 57 55.60 -0.4
IPM 22.13 278 ePc 58 04.50 2.0
SNG 22.96 284 eP 58 14.00 3.3X
WR2 24.27 153 iPc 58 22.60 -0.9
0.7s 32.50nm 5.0mb
epP 58 32.70 37km
ASPA 27.40 158 iPd 58 52.20 -0.4
0.9s 8.60nm 4.4mb
OIS 27.50 145 eP 58 52.60 -0.9
WARB 27.99 173 iPd 58 57.60 -0.4
0.7s 7.00nm 4.5mb
CHG 29.05 307 eP 59 07.00 -0.6
GYA 29.16 329 P 59 09.00 0.4
WHN 29.79 345 P 59 14.50 0.4
MRWA 31.52 192 eP 59 28.50 -0.8
CD2 34.25 330 P 59 52.60 -0.6
0.7s 10.00nm 4.9mb
XAN 34 72 339 P 59 56.00 -1.1
pP 00 03.40 25km
TIY 37.09 346 Pc 00 17.00 -0.2
STK 37.81 154 eP 00 23.00 -0.2
0.7s 4.90nm 4.5mb
LZH 38 50 335 eP 00 29.50 0.3
1.5s 31.00nm 4.9mb
sP 00 45.00
BJI 38.61 352 eP 00 29.00 -0.8

20d 13h

HHC	40.27	347	P	00 44.00	0.2
BWA	43.18	149	eP	01 09.80	2.3
			i	01 19.30	32km
GUN	44.00	310	P	01 15.46	0.8
CAN	44 17	149	eP	01 16.70	1.1
			i	01 26.20	32km
PKI	44.19	309	P	01 16.66	0.4
KKN	44.40	309	P	01 18.12	0.3
DMN	44.45	309	P	01 19.00	0.7
GKN	45.00	309	P	01 22.98	0.4
GBA	46.58	287	Pc	01 35.90	1.0
	0.6s	3.00nm		4.4mb	
WMQ	52.32	328	P	02 19.00	0.1
QUE	60.11	304	eP	03 14.90	-0.1
MAIO	67.79	309	eP	04 06.00	0.8
S.D. = 1.0 on 31 of 32 abs.					

SEP 20, 1991 13h 49m 31.59± 0.30s
45.574 N ± 2.6km 9.733 E ± 2.9km
DEPTH = 10.8 ± 1.8 km
NORTHERN ITALY (545)
ML 3.2 (LDG), 3.2 (STR), 2.7 (VIE).

SAL	0.56	86	P	49 42.00	-0.9
			eSg	49 50.30	
VAI	0.73	294	P	49 48.00	2.1
			eSg	50 01.00	
TMA	0.80	312	ePd	49 47.80	0.6
VDL	0.93	349	ePd	49 49.40	0.0
OSS	1.15	14	ePd	49 52.90	-0.2
ORX	1.23	273	P	49 54.22	-0.3
			S	50 09 49	
MMK	1.33	292	ePd	49 56.70	0.5
PCP	1.33	220	P	49 57.28	1.2
			S	50 13.82	
LLS	1.39	339	ePd	49 57.80	0.7
CTI	1.42	70	P	49 56.60	-0.9
			eSg	50 14.40	
MME	1.54	153	Pd	49 59.90	0.6
			eSg	50 19.30	
CKI	1.54	222	Pd	50 00.30	1.2
			eSn	50 20.50	
OGA	1.57	34	eP	49 59.80	0.1
BDI	1.63	158	P	50 01.50	1.1
DIX	1.70	288	ePc	50 03.70	2.1
FIN	1.74	219	P	50 02.43	0.4
			S	50 23.83	
RSP	1.80	257	P	50 00.93	-1.9
			S	50 23.86	
LSD	1.82	267	P	50 03.50	0.2
ROB	1.84	227	P	50 03.21	-0.2
			S	50 26.94	
BHB	1.89	248	P	50 02.57	-1.6
			S	50 25.86	
PII	1 94	163	P	50 04.80	0.1
DOI	2.06	240	P	50 08.00	1.3
LPG	2.10	269	Pn	50 08.00	0.6
			Sn	50 34.00	
LPL	2.11	270	Pn	50 08.60	1.1
IMI	2.12	219	P	50 07.96	0.5
			S	50 33.16	
ZLA	2.12	335	ePc	50 12.40	4.9X
ENR	2.12	231	P	50 07.36	-0.2
WTTA	2.14	37	iPnc	50 09.60	1.7
			iPg	50 13 40	
			i	50 25.80	
			iSg	50 38.30	
PZZ	2.15	241	P	50 08.16	0.2
			S	50 31 66	
STV	2.17	233	P	50 07 05	-1.2
			S	50 31 66	
RRL	2.18	254	P	50 07.16	-1.4
RSL	2.18	274	Pn	50 10.08	1.6
BNI	2.22	258	P	50 09.40	0.4
SLE	2.35	339	ePd	50 16.70	5.9X
FVI	2.35	63	P	50 11.50	0.7
			eSn	50 39.50	
SBF	2.37	225	Pn	50 12.20	1.1
			Sn	50 42.00	
BBS	2.44	322	Pn	50 12.39	0.4
			Sg	50 52.95	
FEL	2.59	333	ePn	50 13.65	-0.6
LOMF	2.68	313	Pn	50 15.75	0.2
MOF	2.90	323	Pn	50 18.53	0.0
FRF	2.99	229	Pn	50 19.50	-0.2
			Sn	50 53.00	
BSF	3.03	319	Pn	50 20.60	0 1
			Sn	50 55.00	
PGF	3.07	190	Pn	50 19.60	-1.4
			Sn	50 56.00	
ECH	3.18	327	Pn	50 22 07	-0.4
LMR	3.22	227	Pn	50 22.40	-0.6
			Sn	51 00.60	
CDF	3.30	330	Pn	50 23.53	-0.8
HAU	3.36	318	Pn	50 25.00	-0.2
			Sn	51 03.50	
VITF	3.69	317	Pn	50 29.67	-0.1
LBF	4.23	292	Pn	50 37.40	-0.1
			Sn	51 24.60	
SMF	4.24	287	Pn	50 37.40	-0.1
			Sn	51 25.00	
LOR	4.40	295	Pn	50 39.40	-0.5
			Sn	51 28.60	
KHC	4.41	35	ePn	50 49.00	8.9X
			ePg	51 03.00	
			eSn	51 29.00	
			eSg	51 54.00	
SSF	4.56	291	Pn	50 41.80	-0.3
AVF	4.60	288	Pn	50 42.00	-0.6
BGF	4.89	284	Pn	50 46.20	-0.6
			Sn	51 41.00	
MAF	5.04	280	Pn	50 48.00	-1.0
TCF	5.30	280	Pn	50 51.60	-1.0
S.D. = 0.9 on 54 of 57 abs.					

& SEP 20, 1991 14h 37m 02.96s
56.736 N 152.798 W
DEPTH = 1.2km (geophysicist)
KODIAK ISLAND REGION (13)
<AEIC>. ML 3.7 (AEIC).

SYI	1.89	6	eP	37 34.54	-2.1
			eS	38 01.53	
CDD	2.25	349	eP	37 39.59	-2 3
			S	38 07.80	
MCNL	2.59	342	eP	37 44.31	-2.4
			S	38 17.65	
AUI	2.63	353	eP	37 44.95	-2.3
			S	38 16.52	
AUE	2.65	354	eP	37 45.80	-1.7
AUP	2.65	353	eP	37 45.75	-2.0
AUH	2.66	353	eP	37 45.78	-2.0
AUW	2.67	353	eP	37 45.68	-2.1
AUL	2.68	353	eP	37 45.18	-2.7
CNPM	2.92	16	eP	37 49.16	-2.2
OPT	2.93	356	eP	37 49.46	-2.2
HOM	2.99	11	eP	37 49.42	-3.0
INE	3.34	358	eP	37 54.67	-2.8
INW	3.35	357	eP	37 54.67	-2.9
NNL	3.41	13	eP	37 56.38	-2.0
RS1	3.74	0	eP	38 00.14	-3.0
RS2	3.74	0	eP	38 00.33	-2.9
RSO	3.74	0	eP	37 59.95	-3.3
RDW	3.76	360	eP	38 00.38	-3.1
REF	3.77	1	iP	38 00.55	-3.0
RDN	3.79	0	eP	38 00.87	-3.0
SEW	3.81	26	eP	38 00.17	-3.8
NCT	3.84	359	eP	38 00.81	-3.7
RDT	3.86	3	eP	38 01.27	-3.5
DFR	3.87	1	eP	38 01.92	-3.0
SLKM	4.02	19	eP	38 03.94	-3.0
SPU	4.48	5	eP	38 09.91	-3.6
CKL	4.48	3	eP	38 11.32	-2.3
BGL	4.55	2	eP	38 11.72	-2.8
SVW	4.62	343	eP	38 11.46	-4.1
NCG	4.69	4	eP	38 13.70	-3.0
FID	5.20	37	eP	38 19.41	-4.3
SKT	5.30	6	eP	38 22.65	-2.6
VZW	5.41	34	eP	38 22.85	-3.9
RAGM	5.61	46	eP	38 26.93	-2.6
KLU	5.94	34	eP	38 31.20	-3.0
36 abs. associated					

SEP 20, 1991 14h 47m 46.44± 0.19s
6.486 S ± 3.6km 129.850 E ± 4.7km
DEPTH = 180.3km (5 depth phases)
5.4mb (38 abs.)
BANDA SEA (280)
CENTROID, MOMENT TENSOR (HRV)
Data Used. GDSN
L.P.B.: 18S. 35C
Centroid Location:
Origin Time 14:47:47.8 0.4
Lat 6.50S FIX;Lon 129.87E FIX
Dep 177.5 1.7 Half-duration 2.0
Moment Tensor: Scale 10**17 Nm
Mrr=-0.01 0.06 Mtt=-0.28 0.07
Mff= 0.29 0.09 Mrt= 0.84 0.07
Mrf= 1.25 0.06 Mtf= 0.00 0.08
Principal Axes:
T Val= 1.58 Plg=43 Azm=295
N -0.11 10 35
P -1.48 45 135
Best Double Couple:Mo=1.5*10**17
NP1:Strike=311 Dip=10 Slip=-174
NP2: 215 89 -80

AAI	3.23	329	iPd	48 40.00	1.6
			iS	48 47.00	
KUPT	7.17	239	ePc	49 34.00	4.3X
KNA	9.27	186	iPd	49 55.60	-1.8
			iS	51 32.00	
MNI	9.33	327	ePc	50 00.00	1.8
MKS	10.40	276	iPc	50 18.00	5.8X
MNDI	13.73	89	eP	50 56.00	0.9
WR2	14.08	162	iPc	50 55.10	-4.2X
	0.8s	229.50nm		5.6mb	
			eS	53 22.70	
DAV	14.14	342	eP	51 02.10	2.0
MDG	15.89	86	eP	51 23.10	1.3
TSM	16.05	312	ePc	51 24.80	1.1
	1.0s	457.70nm		5.8mb	
OIS	16.89	147	iPc	51 32.40	-1.5
			eS	54 27.60	
TRT	17.13	265	iPc	51 38.20	1.5
	1.4s	494.20nm		5.7mb	
PMG	17.38	101	eP	51 39.00	-0.6
MBL	17.52	213	iPd	51 40.30	-0.9
			eS	54 50.00	
ASPA	17.52	168	iPd	51 40.40	-0.8
	0.9s	664.80nm		6.0mb	
			eS	54 46.00	
			iScS	03 06 10	
KKM	18.44	312	ePc	51 51.00	-0.1
	1.3s	480.70nm		5.8mb	
WARB	19 83	189	iPd	52 05.80	0.5
			eS	55 45.00	
CTAO	20.89	132	iPd	52 16.50	0.6
	1.0s	1050.00nm		6.3mb	
			ipP	52 26.00	36kmX
			e	52 45.00	
			i	53 06.00	
			eS	56 10.00	
NANU	21.12	219	iPd	52 19.00	0.8
			eS	56 20.00	
RAB	22.34	85	eP	52 30.00	-0.1
OCP	22.72	338	eP	52 43.50	9.8X
OLP	24.23	147	eP	52 48.00	-0.2
	0.8s	504.00nm		6.2mb	
			i	53 24.50	186km
			e	57 17.00	
FORR	24.29	184	eP	52 48.00	-0.7
	0.3s	77.00nm		5.8mb	
BAG	24.53	338	eP	52 50.00	-1.2
			eS	56 53.50	
COOL	25.61	198	eP	52 59.00	-1.9
MRWA	26.12	208	eP	53 05.10	-0.4
	0.3s	11.00nm		5.0mb	
			eS	58 05.00	
RMQ	26.84	140	iPd	53 22.00	9.9X
	1.1s	183.00nm		5.7mb	
			i	54 01.00	194kmX
			e	58 25.00	
BAL	26.98	206	eP	53 13.00	-0.3
			eS	58 30.00	
KLB	27.42	203	iPd	53 17.10	-0.2
	0.3s	21.00nm		5.4mb	
			eS	58 37.00	
KGM	27.80	287	eP	53 20.00	-0.9
NWAO	28.81	202	eP	53 29.50	-0.2
	0.3s	12.00nm		5.1mb	
CMS	29.02	151	eP	53 31.00	-0.6
	1.1s	117.00nm		5.5mb	
			e	59 34.00	
ADE	29.50	165	eP	53 35.60	-0.2
	0.8s	492.54nm		6.3mb	
HNR	29.94	98	eP	53 38.00	-1.9
BRS	30.11	136	iPd	53 40.50	-0.8
	1.0s	34.80nm		5.0mb	
			i(pP)	54 16.40	173km

```
FFG      30.36 201 eP       53 44.70    1.3
PM       30.80 290 ePd      53 46.20   -1.3
IZ       32.12 322 Pc       53 58.50   -0.3
         1.1s   100.00nm           5.4mb
                   pP       54 37.00 185km
                   PP       55 14.00
                   S        58 57.00
SNG      32.17 294 eP       53 58.80   -0.5
BFD      32.67 161 iPc      54 03.60    0.1
         1.0s   293.00nm           5.9mb
                   e        00 35.00
BWA      32.67 151 eP       54 05.00    1.4
                   ePcP     55 23.90
OZH      33.11 341 eP       54 06.40   -0.9
RIV      33.61 147 iPc      54 13.60    2.0
CAN      33.67 151 eP       54 12.70    0.5
                   ePcP     55 34.00
CNB      33.84 151 eP       54 13.00   -0.7
         1.0s   160.00nm           5.6mb
                   e        01 35.00
LOE      36.54 311 eP       54 36.00   -0.6
NST      36.76 307 eP       54 39.20    0.9
KHT      37.51 304 eP       54 45.00    0.3
                   e        54 46.30   4kmX
SSE      38.28 348 Pd       54 50.70   -0.2
         1.0s    49.00nm           5.1mb
DZM      38.56 117 iPd      54 53.80    0.3
CHG      39.50 310 iPc      55 01.60    0.4
         1.1s   117.09nm           5.4mb
                   e        00 34.40
WHN      39.70 339 P        55 03.00    0.4
         1.0s   100.00nm           5.4mb
GYA      39.73 326 P        55 02.80   -0.3
         3.0s   500.00nm           5.6mb
                   PP       56 40.00
                   PcP      57 07.40
                   ScP      00 39.60
                   S        00 52.00
                   ScS      04 52.00
NJ2      39.73 345 Pc       55 03.30    0.5
         1.2s   100.00nm           5.3mb
KMI      41.02 321 eP       55 14.50    0.6
KMI      41.02 321 Pc       55 15.00    1.1
                   pP       55 51.50 167kmX
MAT      43.51  10 eP       55 31.00   -2.7
         0.9s    52.94nm           5.1mb
TIA      44.12 345 eP       55 37.40   -1.2
CD2      44.79 328 P        55 43.10   -0.9
         1.2s   100.00nm           5.2mb
XAN      44.91 335 Pc       55 43.50   -1.4
         1.0s    60.00nm           5.1mb
                   ScP      00 58.60
                   S        02 11.00
                   ScS      05 23.00
TIY      46.88 341 Pd       55 59.20   -1.2
         1.2s    70.00nm           5.0mb
BJI      47.98 346 eP       56 08.00   -0.8
         1.3s   100.00nm           5.2mb
SNY      48.42 354 Pc       56 11.80   -0.3
         0.6s   100.00nm           5.5mb
LZH      48.88 332 Pc       56 15.50   -0.5
         4.0s   520.00nm           5.4mb X
                   pP       56 54.00 172km
                   sP       57 08.50
                   PP       58 09.00
HHC      50.01 342 Pc       56 24.00   -0.5
         1.2s    90.00nm           5.3mb
CN2      50.21 356 eP       56 24.40   -1.4
BTO      50.28 340 eP       56 26.00   -0.5
MDJ      50.87 360 P        56 30.00   -0.7
LSA      51.73 316 Pc       56 36.30   -1.8
         2.0s   500.00nm           5.8mb
                   S        03 45.00
GTA      53.45 331 iPc      56 49.70   -0.5
         1.0s    30.00nm           5.0mb
                   S        04 06.60
                   ScS      06 20.80
GUN      54.50 311 P        56 57.44   -0.9
PKI      54.68 310 P        56 58.42   -1.2
KFN      54.89 311 P        56 59.92   -1.1
DMN      54.93 310 P        57 00.30   -1.0
GKN      55.49 310 P        57 04.32   -0.9
GBA      55.73 291 Pd       57 05.70   -1.2
         0.9s    53.20nm           5.3mb
POO      60.54 295 iPc      57 40.80    0.5
         1.0s    86.00nm           5.5mb
NDI      61.56 307 iPd      57 45.50   -1.4
BOM      61.59 295 iPd      57 46.00   -1.3
IRK      62.46 343 eP       57 52.30   -0.2
                   e        57 58.90  21kmX
                   e        58 33.30
WMO      62.88 327 Pd       57 55.50    0.0
         1.2s    70.00nm           5.4mb
                   PcP      58 31.50
                   pP       58 39.00 186km
                   ScP      02 17.50
                   S        06 10.00
                   sS       07 22.00
KSH      67.51 317 P        58 27.00    1.7
YAK      68.30 360 iP       58 29.10   -0.4
                   pP       58 52.00  89kmX
                   iPcP     59 06.00
                   iS       07 15.00
                   iScS     08 07.00
GAR      71.20 315 eP       58 47.60   -0.2
MAW      75.37 201 eP       59 12.50    1.2
MAIO     78.25 309 iPc      59 29.20    1.2
         0.7s    22.24nm           5.0mb
                   eS       09 12.00
SHI      82.26 301 eP       59 50.00    0.5
SPA      83.56 180 iPd      59 54.50   -0.8
         1.0s    22.50nm           4.9mb
                   i        00 00.00  17kmX
DHR      83.69 297 iPc      59 57.00    0.5
IR4      84.75 306 ePc      00 03.30    1.4
IR1      84.96 306 ePd      00 04.50    1.6
IR5      85.00 306 eP       00 05.50    2.4
IR7      85.08 307 ePc      00 05.10    1.6
MJMA     87.93 296 iPd      00 18.00    0.6
AFIF     89.59 294 iPd      00 27.30    2.0
UOSK     90.53 296 iPd      00 26.70   -2.9
MSL      91.15 306 ePd      00 33.00    0.8
                   eSKS     10 46.00
                   eS       11 15.00
OBN      97.13 325 eP       00 58.00   -1.1
         1.2s    18.00nm           5.3mb
SPC     107.66 320 ePKP     06 09.40   15.6X
                   i        06 21.40
BRG     111.21 322 e(PKP)   05 45.20  -15.0X
KHC     111.93 321 ePKP     06 20.50   18.9X
                   e        06 49.00
                   e        07 00.00
BSF     116.62 321 ePKP     06 10.50   -0.3
         0.8s     5.35nm
LPG     117.48 318 ePKP     06 12.80    0.0
         0.8s     3.35nm
LPL     117.48 318 ePKP     06 12.70    0.0
         0.7s     4.95nm
LOR     118.68 321 ePKP     06 15.00    0.4
         0.8s     4.05nm
LBF     118.71 321 ePKP     06 14.80    0.1
         0.6s     1.80nm
SSF     118.98 321 ePKP     06 15.50    0.3
         0.8s     5.35nm
AVF     119.19 321 ePKP     06 15.70    0.2
         0.8s     5.35nm
BGF     119.60 321 ePKP     06 16.90    0.5
         0.8s     8.75nm
TCF     120.11 321 ePKP     06 17.80    0.4
         0.8s     4.05nm
CAF     120.76 319 ePKP     06 19.50    0.8
         0.8s     4.70nm
ANMO    121.12  53 PKP      06 21.20    1.3
         1.0s     5.00nm
LPF     121.32 324 ePKP     06 20.10    0.6
         0.8s     8.05nm
LPO     121.43 319 ePKP     06 20.50    0.6
         0.8s     5.35nm
MFF     121.44 322 ePKP     06 20.20    0.4
         0.8s    10.75nm
EPF     122.67 318 ePKP     06 22.90    0.5
         0.8s     4.05nm
KIC     134.89 273 PKP      06 47.20    0.6
MBO     146.46 286 iPKP     07 10.80    3.8X
ARE     148.92 137 iPKPc    07 17.80    6.4X
UPA     150.78  83 (PKP)    07 20.00    6.2X
CNCB    150.90 143 PKP      07 17.30    2.6X
                   i        07 22.50
LPB     151.05 142 PKP      07 17.00    2.3
ZOBO    151.23 142 PKP      07 17.30    2.1
                   i        07 23.00
CUMC    151.81 100 ePKPc    07 18.67    2.6X
     S.D. = 1.1  on 111 of 124 obs.
--------------------------------------------
? SEP  20, 1991  15h 19m 34.43± 0.98s
  47.997 N ±12.6km    6.427 E ± 6.8km
  DEPTH =   5.0km  (geophysicist)
 FRANCE                              (538)
     ML 2.2 (LDG).

HAU      0.05 279 Pg       19 35.00   -1.0
                  Sg       19 35.80
BSF      0.30 124 Pg       19 40.10   -0.3
                  Sg       19 44.50
CDF      0.70  54 Pg       19 48.70    0.2
                  Sg       19 58.20
LOR      1.88 248 Pg       20 08.60    1.0
                  Sg       20 31.60
SMF      2.22 233 Pg       20 14.60    2.2X
                  Sg       20 42.70
AVF      2.41 241 Pg       20 18.40    3.2X
                  Sg       20 49.30
     S.D. = 1.5  on   4 of   6 obs.
--------------------------------------------
% SEP  20, 1991  16h 05m 54.43± 0.88s
  48.008 N ±12.2km    6.464 E ± 6.1km
  DEPTH =   5.0km  (geophysicist)
 FRANCE                              (538)
     ML 2.3 (LDG).

HAU      0.08 268 Pg       05 54.60   -1.7
                  Sg       05 55.40
BSF      0.28 129 Pg       05 59.70   -0.5
                  Sg       06 04.20
CDF      0.68  53 Pg       06 08.40    0.4
                  Sg       06 17.60
FEL      1.05  97 ePn      06 14.47   -0.3
LOR      1.91 248 Pg       06 28.90    0.9
                  Sg       06 51.60
SMF      2.25 234 Pg       06 34.00    1.2
                  Sg       07 02.60
AVF      2.44 241 Pg       06 37.70    2.1X
                  Sg       07 08.80
     S.D. = 1.4  on   6 of   7 obs.
--------------------------------------------
? SEP  20, 1991  16h 16m 53.52± 0.99s
  44.370 N ±10.4km    7.362 E ± 8.7km
  DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                      (545)
     ML 1.4 (GEN).

STV      0.13 192 P        16 56.62   -0.1
                  S        16 58.46
ENR      0.15 164 P        16 57.18    0.1
                  S        16 59.39
PZZ      0.23 306 P        16 58.57    0.0
                  S        17 02.16
ROB      0.37 101 P        17 01.17    0.0
                  S        17 07.55
     S.D. = 0.2  on   4 of   4 obs.
--------------------------------------------
? SEP  20, 1991  16h 24m 58.23± 1.55s
  15.543 N ±19.6km   61.326 W ±29.5km
  DEPTH = 100.0km  (geophysicist)
 LEEWARD ISLANDS                     ( 92)

BBL      0.15 262 eP       25 12.90   -0.6
MGG      0.37   1 iPd      25 13.82    0.5
PAG      0.59 325 eP       25 15.80    0.8
                  S        25 30.90
DEG      0.81  18 eP       25 16.79   -0.2
SEG      0.87 349 ePc      25 17.93    0.4
BPA      1.58 341 eP       25 25.00   -0.9
     S.D. = 0.9  on   6 of   6 obs.
--------------------------------------------
& SEP  20, 1991  16h 55m 22.19s
  43.171 N            120.477 W
  DEPTH =  20.5km
 OREGON                              ( 32)
     <SEA>. MD 3.3 (SEA).

TCO      1.24 319 Pc       55 44.91    0.3
                  S        56 02.46
GMO      1.31 345 P        55 45.95    0.4
VIPM     1.34 356 P        55 46.57    0.6
HBO      1.50 297 P        55 48.60    0.4
CROR     1.85 349 P        55 54.50    1.3
HSO      1.94 281 Pd       55 56.76    2.2
VTHM     2.01 358 Pd       55 56.95    1.4
DBO      2.02 269 P        55 56.27    0.5
VBEM     2.05 337 Pd       55 57.94    1.7
```

20d 16h

VFP	2.26	342	P	56	01.34	2.1
TDH	2.32	336	P	56	02 26	2.2
JBO	2.34	11	P	56	03 14	3.0
VGB	2.35	355	eP	56	03.00	2.6
GT2	2.37	328	Pd	56	03 22	2.6
VLL	2.45	340	P	56	04.70	2.9
VLMM	2.62	335	P	56	07.85	3.6
GL2	2.80	355	P	56	12.92	6.1
GULW	2.87	344	P	56	14 14	6 4
MTMW	3.11	337	P	56	17.31	6 1
CDFW	3.15	340	P	56	19.49	7.7
FL2	3.31	337	P	56	20.15	6.1
STD	3.31	339	P	56	21.11	7.1
MXC	3.41	2	P	56	22.62	7.3
CZM	3.57	337	P	56	23.10	5.4
NLO	3.61	325	P	56	25.82	7.5
WPW	3.61	348	P	56	25.05	6.7
ORV	3.69	192	e(P)	56	24.20	4.8
LON	3.70	346	P	56	28.80	9.2
EBG	3.74	359	P	56	27.13	7.0
BMW	3.84	330	P	56	27.88	6.4
FMW	3.85	348	P	56	30.42	8.6
KVN	4.49	156	e(P)	56	45.80	14.9
CMB	5.13	179	eP	56	56.00	16.2
HPI	5.40	82	eP	56	44.50	0.6
BONR	5.47	162	eP	56	49.30	4.5
MCMT	5.75	71	eP	56	49.70	1.0
HBMT	6.21	62	eP	56	56.00	0.7
LRM	6.32	62	eP	56	57.70	0.8
BGMT	6.40	68	eP	56	58.50	0.5
SXM	7.25	63	eP	57	10.60	0.8

40 obs. associated

---

* SEP 20, 1991 17h 10m 08.90± 0.76s
0.656 N ±12.0km 123.777 E ±20.4km
DEPTH = 286.2 ± 11.6 km
4.4mb (5 obs.)
MINAHASSA PENINSULA, SULAWESI (265)

MNI	1 32	54	ePc	10	50.00	0.2
KUPT	10.74	181	e(P)	12	45.40	8.2X
MTN	15.27	152	eP	13	31.60	-0.9
KNA	17.03	163	eP	13	50.50	-0.9
	0.4s	10.00nm			4.6mb	
WR2	22.96	154	iPc	14	50.40	0.3
	0.2s	37.30nm			5.5mb	
		eS		18	37.20	
ASPA	26.10	159	iPc	15	20.30	1.3
	0.4s	8.40nm			4.6mb	
WARB	26.83	174	iPc	15	25.70	0.3
	0.2s	1.00nm			4.0mb	
CHG	30.32	308	eP	15	56 80	0.4
FORR	31.60	173	eP	16	06.50	-0.8
STK	36.50	154	eP	16	49.80	0.9
	0.6s	3.60nm			4.0mb	
GUN	45.28	310	P	18	00.98	0.1
PKI	45.48	309	P	18	02.34	-0.1
KKN	45.68	310	P	18	03.26	-0.6
DMN	45.73	309	P	18	04.80	0.5
GKN	46.28	309	P	18	08.46	-0 1
YAK	61.37	3	eP	19	56.10	-0.6
BUL	95.07	250	iPd	23	05.50	4.1X
	0.7s	41.10nm			5.7mb X	

S.D. = 0.7 on 15 of 17 obs.

? SEP 20, 1991 17h 48m 01.70±15.26s
42.515 N ±95.4km 125 193 W ±75.8km
DEPTH = 10.0km (geophysicist)
OFF COAST OF OREGON (30)

KMOR	3.35	21	P	48	56.46	1.2
		S		49	36 40	
GT2	3.38	38	P	48	56.18	0.5
TDH	3.71	40	P	49	00.92	0.5
VLMM	3.78	36	P	49	01 74	0 3
		S		49	47 46	
VIPM	3.88	58	P	49	02 68	-0.1
VLL	3.89	40	P	49	04.19	1.3
CROR	3.92	50	P	49	02.89	-0 4
RVW	4.04	25	P	49	05 44	0.6
LVP	4.08	28	P	49	05.13	-0.4
MTMW	4.11	30	P	49	05.54	-0 4
FL2	4.21	28	P	49	06.95	-0.5
		S		49	57 40	
JLK	4.23	30	P	49	07 30	-0.5
SHW	4.24	29	P	49	07.91	0 0
CDFW	4.25	31	Pd	49	07.55	-0.4
GULW	4.28	36	P	49	08 88	0.5
ESD	4.28	30	P	49	07 83	-0.6
VTHM	4.28	50	P	49	08.50	0.1
STD	4.29	29	P	49	08.30	-0.3
SOSW	4.32	29	P	49	08.59	-0.4
CZM	4.37	25	P	49	09.55	0.0
VGB	4.37	45	P	49	10.04	0.3
ASR	4.46	34	P	49	10.72	-0.2
KOSW	4.49	28	P	49	11.46	0.1
LMW	4.64	26	P	49	14.02	0.5
GLK	4.79	31	P	49	15.40	-0.3
JBO	4.86	51	P	49	16.29	-0.3
LON	4.87	29	P	49	16.40	-0.4
WPW	4.93	31	P	49	17.10	-0.5
FMW	5.08	28	P	49	19.74	-0.1
GSM	5.27	26	P	49	22.32	-0.2
RMW	5.50	25	P	49	25.72	0.1

S.D. = 0.5 on 31 of 31 obs.

? SEP 20, 1991 18h 04m 12.89± 3.35s
11.597 N ± 9.5km 59.975 W ±34.6km
DEPTH = 33.0km (normal)
NORTH ATLANTIC OCEAN (402)
MD 3.9 (TRN).

TBH	1.54	224	eP	04	38.50	0.1
		eS		04	58.00	
TRN	1.69	236	eP	04	40.00	-0.5
		eS		05	00.50	
GRW	1.74	289	eP	04	41.50	0.1
		eS		05	07.80	
TCE	1.96	243	eP	04	44.80	0.3
		eS		05	07.00	
SVB	2.08	323	eP	04	45.80	-0.4
		eS		05	07.30	
SLB	2.45	335	eP	04	51.70	0.2
		eS		05	22.40	

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

---

* SEP 20, 1991 19h 38m 28.28± 1.14s
13.746 N ±14.1km 92.989 W ±16.2km
DEPTH = 33.0km (normal)
4.6mb (3 obs.)
OFF COAST OF CHIAPAS, MEXICO (68)

TPX	1.35	31	iP	38	50.50	-0.5
			(S)	39	07.00	
SCX	2.99	7	eP	39	15.50	1.0
			iS	39	46.50	
PPM	7.57	315	eP	40	20.00	0.4
TUL	22.21	354	eP	43	23.10	-0.4
	0.6s	10.80nm			4.5mb	
ANMO	24.36	332	(P)	43	45.00	0.3
SIV	43.23	132	eP	46	27.00	-1.4
YKA	51.06	347	eP	47	28.30	-0.9
	0.6s	4.30nm			4.6mb	
SOB1	56.51	111	eP	48	12.70	2.6
EKA	78.73	36	Pc	50	27.80	-1.1
	0.9s	7.10nm			4.7mb	

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

SEP 20, 1991 19h 54m 35.18± 0.49s
37.593 N ± 4.7km 14.862 E ± 4.6km
DEPTH = 15.6 ± 5.6 km
3.5mb (1 obs.)
SICILY (398)
MD 3.5 (ROM).

GIO	0.20	98	P	54	40.95	0.9
MNO	0.36	339	P	54	42.70	-0.2
MEU	0.49	174	Pc	54	44.90	-0.2
			eSg	54	52.30	
PZI	0.56	176	P	54	46.15	-0.1
ATN	0.74	40	P	54	49.70	0.5
			eSg	55	01.70	
ATN	0.74	40	P	54	50.00	0.8
			iSg	55	00.00	
GIB	0.77	301	P	54	50.60	0.8
			eSg	55	02.50	
MSI	0.82	42	P	54	51.95	1.4
MCT	0.98	273	P	54	53.50	0.1
			iSg	55	09.50	
GMB	0.98	54	P	54	53.88	0.5
SOI	1.06	63	P	54	55.10	0.5
CZI	1.91	31	P	55	06.90	-0.4
			eSg	55	32.50	
TDS	2.36	29	P	55	13.20	-0.7
ROI	2.39	34	P	55	14.50	0.2
PTS	2.42	252	P	55	14.60	-0.1
			eSn	55	42.90	
CSI	2.45	27	P	55	16.10	0.9
			eSg	55	45.50	
MGR	2.60	12	P	55	16.60	-0.7
			eSn	55	48.40	
SGO	2.98	7	P	55	22.50	-0.1
			eSn	55	57.20	
LCI	3.65	40	P	55	31.20	-0.9
			eSn	56	13.00	
BRT	3.75	28	P	55	32.20	-1.4
			eSn	56	14.80	
BAI	3.85	23	P	55	34.00	-1.0
OHR	5.79	51	e(Pn)	56	01.30	-1.2
BRG	13.29	357	e(P)	57	51.00	5.4X
HFS	22.57	358	eP	59	38.70	2.9
	0.5s	0.90nm			3.5mb	

S.D. = 1.0 on 23 of 24 obs.

---

* SEP 20, 1991 19h 55m 59.19± 0.58s
1.390 S ±11.6km 126.743 E ±12.7km
DEPTH = 33.0km (normal)
4.7mb (5 obs.)
SOUTHERN MOLUCCA SEA (269)

AAI	2.70	148	ePd	56	43.00	1.7
			e(S)	57	20.50	
MKS	8.20	242	ePc	57	56.00	-2.8
PMG	21.81	112	eP	00	50.00	-0.6
ASPA	23.21	163	eP	01	03.60	-0.7
	1.1s	18.80nm			4.5mb	
IPM	26.37	283	ePc	01	37.00	2.5X
CTAO	26.63	136	iPc	01	37.00	0.1
	1.0s	25.00nm			4.8mb	
STK	33.41	157	iPc	02	37.10	0.1
	1.2s	2.40nm			4.0mb	
CHG	33.91	308	eP	02	42.60	1.1
CHTO	33.91	308	P	02	42.00	0.5
BJI	42.35	348	eP	03	49.50	-2.3
LZH	42.96	332	eP	03	57.50	0.4
	1.6s	38.00nm			4.9mb	
Z	17s	0.73um			4.6MszX	
E	15s	0.57um				
		pP		04	04.50	23kmX
		sP		04	07.50	
GUN	48.86	310	P	04	45.22	0.9
PKI	49.06	309	P	04	46.12	0.3
KKN	49.27	309	P	04	47.96	0.7
DMN	49.31	309	P	04	48.60	0.9
GKN	49.87	309	P	04	52.40	0.6
GBA	51.09	289	Pc	05	02.20	1.2
	1.3s	11.00nm			4.7mb	
YAK	63.28	2	iP	06	23.60	-3.0
MAIO	72.66	309	eP	07	27.00	1.1

S.D. = 1.5 on 18 of 19 obs.

SEP 20, 1991 20h 55m 36.11± 0.81s
42.403 N ± 5.6km 144.377 E ±11.6km
DEPTH = 78.7 ± 6.1 km
4.5mb (4 obs.)
HOKKAIDO, JAPAN REGION (224)

KUSJ	0.74	19	iPd	55	52.40	0.2
			S	56	03.10	
HOOJ	0.81	269	iPd	55	52.90	-0.1
			eS	56	03.30	
ASAJ	2.13	324	eP	56	10.30	0.0
MRRJ	2.45	272	eP	56	15.50	0.9
			eS	56	42.40	
AOMJ	3.53	240	eP	56	29.90	0.3
			eS	57	08.30	
OFUJ	3.91	213	P	56	34.90	0.0
			eS	57	16.90	
YAMJ	5.37	220	eP	56	55.60	0.2
			eS	57	54.10	
NIIJ	6.61	221	P	57	12.70	0.1
KAKJ	6.99	209	P	57	16.10	-1.8
			S	58	30.70	
MAT	7.55	221	eP	57	25.00	-0.6
	0.9s	16.81nm			4.7mb	
			(S)	58	49.00	
CHJJ	7.60	215	P	57	26.50	0.3
			S	58	49.70	
KEV	59.25	339	eP	05	31.00	0.0
SOD	60.92	337	iP	05	42.00	-0.4
WR2	62.72	191	eP	05	56.80	1.9

1.0s 2.30nm 4.2mb
KAF 64.59 333 eP 06 06 50 -0 3
NUR 66.29 332 eP 06 17.00 -0.6
NB2 70.10 338 P 06 41.50 0.1
0.7s 2 60nm 4.3mb
HFS 70.12 336 eP 06 41 20 -0.2
0.3s 3.40nm 4 7mb
S.D. = 0.8 on 18 of 18 obs.

SEP 20, 1991 21h 52m 16.90± 0.58s
40.109 N ± 5.2km 23.579 E ± 4.8km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 3 2 (THE).

PAIG 0.20 157 ePd 52 20.78 -0.5
OUR 0.38 54 iPc 52 24.65 -0.1
THE 0.70 318 ePc 52 30.06 -0.7
SOH 0.73 347 iPc 52 30.74 -0.6
iS 52 41.42
LIT 0.84 270 iPc 52 32.97 -0.1
iS 52 44.97
SRS 1.01 1 iPc 52 35.70 -0.3
KNT 1.17 334 ePd 52 38.90 0.1
eS 52 56.42
GRG 1.23 314 iPc 52 40.65 0.8
eS 52 59.21
AGG 1.45 222 iPc 52 42.10 -1.1
eS 53 05.14
MMB 1.48 4 iPd 52 43.00 -0.6
KKB 1.80 348 iPd 52 47.00 -1.1
RZN 1.80 28 iP 52 48.00 -0.3
FNA 1.81 293 ePd 52 49.22 0.8
iS 53 14.34
ALN 2.04 67 ePc 52 53.53 1.9
iS 53 19.70
KDZ 2.08 42 iP 52 50.00 -2.2
OHR 2.34 296 ePn 52 55.50 -0.6
SKO 2.47 320 ePn 52 57.80 0.0
VTS 2.50 354 iP 52 58.00 -0.3
IGT 2.57 258 iPd 53 00.86 1.7
eS 53 32.70
MLR 5.65 17 eP 53 45.00 1.9
VRI 6.20 21 ePc 53 52.00 1.3
S.D. = 1.1 on 21 of 21 obs.

& SEP 20, 1991 22h 30m 20.44s
57.664 N 142.962 W
DEPTH = 10.0km (geophysicist)
GULF OF ALASKA (15)
<AEIC>. ML 3.9 (AEIC), 3.8 (PMR)

KAIM 2.39 342 ePd 30 54.97 -5.3
WRG 2.43 11 ePd 30 55.52 -5.3
S 31 23.39
CYK 2.44 6 ePd 30 55.93 -5.0
MID 2.50 316 eP 30 56.40 -5.4
SNH 2.52 1 iPd 30 56.95 -5.2
eS 31 24.66
YKU 2.54 40 ePd 30 57.57 -4.7
PNL 2.74 41 iPd 31 00 07 -5.2
eS 31 29.20
HMT 2 76 346 iPd 31 00.28 -5.3
YAH 2.78 13 iPd 31 00 98 -5.0
eS 31 31.37
HON 2.79 48 iPc 31 00 63 -5.3
S 31 30.97
WAX 2.80 1 iPd 31 00.60 -5.5
PCA 2.82 29 iPd 31 01.22 -5.2
RAGM 2.87 343 ePd 31 01.72 -5.4
BCPM 2.88 36 iPd 31 01.89 -5.2
S 31 33.37
SGAM 3.07 339 ePd 31 04.56 -5.3
S 31 38.37
TGL 3.10 1 iPd 31 04.88 -5.5
CROM 3.10 358 iPd 31 04.84 -5.7
CVA 3.23 335 ePc 31 06.40 -5.7
HIN 3.30 328 eP 31 07.97 -5.2
CTGM 3.42 13 ePd 31 09.46 -5.5
LTI 3.48 315 iPc 31 09.97 -5.8
FID 3.58 331 ePc 31 11.56 -5.6
KNIM 3.65 319 ePc 31 12.09 -6.1
GLB 3.81 354 iPd 31 14.57 -6.0
GLI 3.86 328 eP 31 14.71 -6.4
VZW 3.87 333 ePc 31 15.13 -6.2
VLZ 3.88 335 eP 31 15.10 -6.3
eS 31 56.88
PLBC 3.90 60 Pc 31 16.40 -5.2
S 31 59.00
KLU 4.12 340 ePc 31 18.73 -6.2
SEW 4 16 309 eP 31 19.97 -5.3
SIT 4.18 95 eP 31 18.20 -7.4
HYT 4.23 39 P 31 21.80 -4.7
KNK 4.68 326 eP 31 26.80 -6.1
SLKM 4.71 310 eP 31 27.48 -5.7
CNPM 4.71 297 ePc 31 27.83 -5.5
TOA 4.74 341 eP 31 28.20 -5.5
PMS 4.92 320 eP 31 30.30 -5.9
NNL 4.94 302 ePc 31 32.13 -4.3
HOM 4.95 297 eP 31 31.34 -5.2
PMR 5.03 324 eP 31 34.10 -3.6
SDG 5.05 346 eP 31 32.19 -5.8
WHC 5.08 49 P 31 34.00 -4 5
GHO 5.11 326 eP 31 33.63 -5.2
KDC 5.11 275 eP 31 34.80 -4.0
PAX 5.47 348 eP 31 37.74 -6.3
SUA 5.49 317 eP 31 38.86 -5.5
RDT 5.67 305 eP 31 41.13 -5.7
AUE 5.72 292 eP 31 43.20 -4.2
OPT 5.72 295 ePc 31 42.19 -5.3
AUI 5.74 291 eP 31 43.71 -4.0
AUP 5.74 292 eP 31 43.55 -4.3
AGU 5.75 292 eP 31 44.01 -3.9
AUH 5.75 292 eP 31 43.80 -4.1
AUL 5.75 292 eP 31 44.27 -3.6
REF 5.77 304 ePc 31 42.87 -5.4
INE 5.77 299 eP 31 42.26 -5.9
AUW 5.77 292 eP 31 43.47 -4.6
RED 5.77 303 ePc 31 42.65 -5.5
CDD 5.77 287 eP 31 43.37 -4.8
RSO 5.78 303 eP 31 42.83 -5.6
RS1 5.78 303 eP 31 42.81 -5.6
RS2 5.78 303 eP 31 43.05 -5.4
INW 5.80 299 eP 31 42.83 -5.8
DFR 5.80 304 eP 31 43.32 -5.4
RDN 5.80 304 eP 31 42.68 -6.0
RDW 5.81 303 eP 31 43.37 -5.5
SPU 5.83 311 eP 31 43.98 -5.0
CGLM 5.88 312 eP 31 44.40 -5.3
NCT 5.90 304 eP 31 44.30 -5.7
CKL 5.95 310 eP 31 45.74 -5.0
NCG 5.99 313 eP 31 46.31 -5.0
CUT 6.00 325 eP 31 46.85 -4.5
BGL 6.01 311 eP 31 47.15 -4.4
SKT 6.11 319 eP 31 47.13 -5.8
MCNL 6.17 289 eP 31 48.90 -4.8
SVW 7.33 303 eP 32 04.60 -5.5
VIB 7.39 122 P 32 04.40 -6.6
CWB 7.70 121 P 32 09.20 -6.1
TTA 8.35 315 eP 32 21.80 -2.6
INK 11.49 18 eP 33 08.00 0.6
FFC 22.74 80 iPd 35 21.60 -1.8
0.7s 9.00nm 4.4mb
81 obs. associated

% SEP 20, 1991 22h 34m 03.85± 2.38s
3.790 N ±12.9km 77.023 W ±19.4km
DEPTH = 31.6 ± 10.9 km
NEAR WEST COAST OF COLOMBIA (102)
MD 4.1 (UVC).

ANCC 0.31 150 iPd 34 11.85 0.1
eS 34 16.50
CLMC 0.47 79 iPc 34 14.31 0.3
eS 34 20.80
HOOC 0.50 129 iPd 34 14.28 -0.4
BUGC 0.77 82 iPc 34 18.59 0.1
eS 34 28.30
HOBC 1.05 58 iPc 34 22.72 0.2
PURC 1.60 156 iPd 34 31.57 0.8
CUMC 2.94 197 eP 34 50.01 0.2
S.D. = 0.5 on 7 of 7 obs.

& SEP 20, 1991 23h 33m 50.10s
37.448 N 118.857 W
DEPTH = 4 0km
CALIFORNIA-NEVADA BORDER REGION (40)
<BRK>. ML 3.4 (BRK).

BONR 0.67 41 iPc 34 02 20 -1.3
FRI 0.82 236 iPc 34 05.16 -1.3
i 34 17.20
CMB 1.35 296 iPc 34 14.32 -1.2
eS 34 32.95
PRI 1.95 229 iPd 34 25.06 0.6
i 34 52.06
SAO 2 18 253 eP 34 27.88 0.2
PRS 2.30 242 iPc 34 29.46 0.0
BCH 2.47 204 eP 34 31.50 -0.4
GCC 2.54 261 iPc 34 33.98 1 2
ABL 2.61 187 eP 34 34.00 0 0
BKS 2.71 280 e(P) 34 36.80 1.5
PCC 2.80 272 iPd 34 36.27 -0.3
11 obs. associated

& SEP 21, 1991 00h 04m 10.31s
62.231 N 148.836 W
DEPTH = 34.4km
CENTRAL ALASKA (1)
<AEIC>. ML 3.0 (AEIC), 3.1 (PMR).

GHO 0.46 185 iPd 04 19.84 -0.6
eS 04 27.39
SML 0.49 151 iPc 04 19.85 -0.9
PLRM 0.66 192 iPd 04 21.98 -1.1
S 04 32.05
PMR 0.66 192 iPd 04 22.50 -0.6
CUT 0.69 285 ePc 04 22.98 -0.6
PWA 0.76 221 iPc 04 24.30 -0.3
SCM 0.82 119 eP 04 24.26 -1.2
HUR 0.84 334 iPc 04 24.75 -0.9
S 04 36.05
KNK 0.84 167 iPd 04 24.98 -0.8
iS 04 36.58
PMS 1.05 200 ePd 04 28.00 -0.8
RND 1.18 360 iPd 04 29.44 -1.3
S 04 44.01
SUA 1.19 230 iPd 04 30.27 -0.6
eS 04 46.61
TOA 1.26 95 ePc 04 31.50 -0.3
SKT 1.29 260 iPc 04 31.33 -1.0
eS 04 51.39
TRF 1.39 332 iPc 04 32.64 -1.3
MCK 1.51 358 ePd 04 34.51 -0.9
iS 04 53.41
SDG 1.56 78 eP 04 35.51 -0.7
S 04 55.04
KLU 1.57 117 iPc 04 34.96 -1.4
eS 04 55.80
GLI 1.59 148 iPc 04 35.52 -1.1
eS 04 56.81
VZW 1.60 136 iPc 04 35.45 -1.3
TZL 1.61 95 ePc 04 36.63 -0.3
S 04 58.38
VLZ 1.63 132 ePc 04 35.16 -1.9
S 04 56.78
KTH 1.64 325 iPc 04 36.17 -1.1
eS 04 56.63
PAX 1.73 63 ePd 04 37.73 -0.9
eS 04 58.84
CGLM 1.77 240 eP 04 39.08 -0.1
eS 05 02.70
NCG 1.78 244 iPc 04 38.81 -0 6
THY 1.85 49 eP 04 39.85 -0.5
SLKM 1.85 202 eP 04 39.51 -0.8
S 05 02.70
SPU 1.86 237 ePc 04 40.30 -0.2
eS 05 05.42
FID 1.87 142 iPc 04 39.33 -1.2
BGL 1.95 242 eP 04 42.00 0.2
KNIM 1.96 164 eP 04 40.49 -1.4
CKL 1.96 240 eP 04 41.65 -0.3
BWN 1.97 352 eP 04 40.69 -1.3
SEW 2.16 188 eP 04 43.96 -0.6
LTI 2.25 167 eP 04 44.40 -1.6
CVA 2.25 137 eP 04 43.90 -2.0
WRH 2.27 8 iPd 04 44.33 -2.0
DJE 2.30 37 eP 04 47.11 0.4
HDA 2 34 20 ePd 04 45.53 -1.8
NEA 2.36 357 eP 04 45.48 -2.0
RDT 2.39 228 ePd 04 47.27 -0.7
eS 05 16.45
SGAM 2.46 133 iPc 04 47.28 -1.7
CCB 2.47 10 ePd 04 46.79 -2.2
DFR 2.48 230 eP 04 48.75 -0.5
NNL 2.50 210 eP 04 49.86 0.4
GLB 2.51 106 ePc 04 48.31 -1.4
eS 05 18.63
REF 2 55 229 eP 04 50.01 -0.4

21d 00h

RDN 2.56 229 eP 04 48.99 -1.4
NCT 2.59 231 eP 04 50.41 -0.4
RSO 2.59 228 eP 04 50.32 -0.6
RS2 2.59 229 eP 04 50.45 -0.5
RS1 2.59 228 eP 04 50.62 -0.4
RDW 2.60 229 eP 04 50.61 -0.4
RED 2.63 228 eP 04 51.03 -0.3
FBA 2.72 9 eP 04 51.00 -1.6
RAGM 2.73 131 eP 04 51.22 -1.6
MDM 2.75 5 eP 04 50.49 -2.6
GLM 2.84 13 eP 04 52.27 -2.1
HMT 2.91 129 eP 04 53.09 -2.3
CNPM 2.96 204 eP 04 55.18 -0.8
INE 2.99 225 ePc 04 55.80 -0.8
INW 3.01 226 ePc 04 56.26 -0.5
CROM 3.11 116 eP 04 56.62 -1.6
TGL 3.24 115 eP 04 57.58 -2.5
WAX 3.39 119 eP 04 59.54 -2.7
TTA 3.39 285 eP 05 01.30 -1.0
SVW 3.43 254 eP 05 01.20 -1.5
AUE 3.64 220 ePd 05 05.05 -0.5
AUL 3.64 220 eP 05 05.59 0.0
AUP 3.65 220 ePd 05 05.61 -0.3
AUI 3.67 220 ePc 05 05.74 -0.4
CTGM 3.80 106 eP 05 07.07 -1.1
YAH 3.90 116 eP 05 07.06 -2.5
SYI 4.04 207 eP 05 09.81 -1.5
CDD 4.07 218 ePc 05 10.41 -1.4
MCNL 4.08 224 eP 05 10.60 -1.3
IMA 4.40 333 ePc 05 14.40 -2.2
INK 8.83 40 P 06 16.00 -2.4
79 obs. associated

? SEP 21, 1991 00h 08m 41.75± 8.77s
17.412 N ±72.1km 61.575 W ±17.0km
DEPTH = 33.0km (normol)
LEEWARD ISLANDS (92)
ML 3.1 (FDF).

BPA 0.45 217 iPd 08 51.94 0.2
S 08 58.80
MGH 0.92 222 eP 08 58.20 -0.2
SEG 1.01 176 ePd 08 59.81 0.3
DEG 1.20 156 eP 09 02.22 -0.1
PAG 1.38 184 eP 09 04.80 -0.1
S 09 21.60
MGG 1.51 171 eP 09 07.20 0.5
BBL 1.88 177 eP 09 11.60 -0.6
S.D. = 0.4 on 7 of 7 obs.

% SEP 21, 1991 00h 52m 14.84± 1.73s
23.944 N ± 8.2km 121.858 E ±16.7km
DEPTH = 10.0km (geophysicist)
TAIWAN (244)

TWD 0.28 299 iPd 52 20.70 0.1
eS 52 24.10
TWC 0.66 359 iPc 52 28.30 0.3
eS 52 37.60
TWF1 0.78 221 ePd 52 30.00 -0.1
eS 52 41.50
TWZ 1.18 348 ePd 52 36.40 -0.4
eS 52 52.80
TWH 1.43 242 ePc 52 40.90 0.1
S.D. = 0.4 on 5 of 5 obs.

• SEP 21, 1991 01h 46m 47.37± 0.52s
55.483 S ±14.0km 28.962 W ±12.7km
DEPTH = 33.0km (normol)
5.1mb (2 obs.)
SOUTH SANDWICH ISLANDS REGION (153)

SNA 18.92 152 iPd 51 07.80 0.3
1.2s 153.13nm 5.1mb
PPD 37.33 324 eP 53 58.50 0.2
SIV 46.46 315 Pd 55 12.40 -0.5
SOB1 47.11 344 (P) 55 18.00 0.0
CCH 47.37 308 eP 55 20.00 -0.4
CNCB 48.71 307 P 55 32.00 0.9
LPB 49.00 307 P 55 34.00 0.8
ZOBO 49.25 307 Pd 55 35.20 0.0
1.0s 20.00nm 5.1mb
LR 09 48.00
BUL 55.37 75 iPd 56 21.20 0.7
MTD 59.73 75 iP 56 51.00 -0.2
YKA 135.08 319 ePKP 06 03.20 -0.2
0.7s 3.20nm

INK 144.73 321 ePKPd 06 19.00 -1.6
TOA 147.99 308 ePKP 06 31.40 5.1X
PMR 149.19 306 ePKP 06 33.00 5.0X
FBA 149.40 313 ePKP 06 33.20 4.9X
1.2s 37.20nm
FDC 149.61 298 ePKP 06 34.50 5.7X
IMA 151.99 314 ePKP 06 40.40 8.1X
SVW 152.10 304 ePKP 06 38.80 6.3X
TTA 152.62 307 ePKP 06 41.40 8.2X
S.D. = 0.8 on 12 of 19 obs.

% SEP 21, 1991 02h 19m 56.83± 1.83s
18.198 N ± 6.7km 67.180 W ±14.2km
DEPTH = 10.0km (geophysicist)
MONA PASSAGE (89)

MGP 0.21 155 P 20 01.40 0.0
S 20 08.40
MCP 0.23 17 P 20 01.70 -0.1
S 20 09.13
APR 0.50 59 P 20 07.20 0.3
S 20 17.40
CLLP 0.59 101 P 20 08.70 0.0
SJG 0.98 95 iP 20 15.70 0.2
LPR 1.25 85 P 20 19.60 -0.5
S.D. = 0.3 on 6 of 6 obs.

& SEP 21, 1991 04h 35m 42.06s
61.410 N 150.612 W
DEPTH = 49.6km
SOUTHERN ALASKA (2)
<AEIC>. ML 2.7 (AEIC).

SUA 0.08 311 iPd 35 50.04 1.7
eS 35 57.05
PWA 0.43 55 iPc 35 51.97 -0.5
PMS 0.53 108 iPc 35 53.28 -0.5
CGLM 0.68 262 iPd 35 55.13 -0.6
S 36 05.79
SKT 0.72 323 iPd 35 55.28 -0.9
eS 36 06.20
SPU 0.73 252 iPd 35 55.66 -0.7
iS 36 06.84
PLRM 0.73 75 iPc 35 55.26 -1.1
eS 36 06.36
NCG 0.74 270 iPd 35 55.96 -0.6
eS 36 07.41
CKL 0.86 256 ePd 35 57.30 -0.9
iS 36 09.70
BGL 0.87 261 eP 35 57.51 -0.8
GHO 0.89 65 iPc 35 57.64 -0.9
eS 36 11.00
SLKM 0.93 168 iPc 35 57.83 -1.2
eS 36 10.80
CUT 1.01 9 ePd 35 59.21 -0.9
KNK 1.04 89 iPc 35 59.86 -0.7
eS 36 14.37
SML 1.16 69 eP 36 01.20 -1.1
RDT 1.21 227 iPc 36 02.15 -0.9
eS 36 18.14
DFR 1.30 232 iPc 36 03.45 -0.8
eS 36 21.19
REF 1.38 229 ePc 36 04.68 -0.7
S 36 22.26
RDN 1.38 230 ePc 36 04.38 -1.1
eS 36 22.77
NNL 1.41 194 eP 36 05.67 -0.1
RS2 1.41 229 eP 36 05.08 -0.9
eS 36 23.53
RSO 1.41 229 ePd 36 05.25 -0.7
eS 36 23.86
NCT 1.41 234 eP 36 05.23 -0.6
eS 36 24.06
RS1 1.42 229 eP 36 05.26 -0.7
eS 36 23.55
RDW 1.42 230 ePd 36 05.36 -0.7
SEW 1.43 156 eP 36 05.99 0.0
RED 1.45 228 eP 36 05.49 -0.9
eS 36 24.56
KNIM 1.76 126 ePd 36 07.74 -3.0
GLI 1.79 106 iPd 36 08.50 -2.5
eS 36 30.56
INE 1.81 223 ePd 36 10.94 -0.6
eS 36 33.56
INW 1.83 224 eP 36 11.12 -0.6
eS 36 34.06
CNPM 1.92 190 ePd 36 11.14 -1.7

LTI 1.93 134 eP 36 10.17 -2.9
VZW 1.99 98 eP 36 11.85 -2.1
TRF 2.05 4 eP 36 14.63 -0.3
VLZ 2.09 96 eP 36 12.99 -2.2
FID 2.11 106 eP 36 12.32 -3.3
TOA 2.22 70 eP 36 15.85 -1.4
KLU 2.25 86 iPc 36 15.46 -2.3
CDD 2.91 213 eP 36 26.84 -0.2
GLB 3.27 86 eP 36 31.27 -0.9
41 obs. associated

• SEP 21, 1991 04h 56m 55.29± 2.22s
41.157 N ±12.1km 20.376 E ±17.3km
DEPTH = 10.0km (geophysicist)
ALBANIA (391)

OHR 0.32 98 iPgc 57 00.90 -1.1
iSg 57 08.20
Lg 57 09.30
FNA 0.84 116 ePd 57 10.08 -1.5
eS 57 24.16
SKO 1.14 44 ePg 57 15.80 -0.8
iSg 57 32.00
Lg 57 34.70
IGT 1.62 181 ePc 57 23.40 -0.6
KNT 1.90 89 ePc 57 29.64 1.5
eS 57 58.00
LIT 1.92 123 ePd 57 29.28 0.9
eS 57 57.96
SOH 2.28 97 iPc 57 34.96 1.4
AGG 2.61 144 ePc 57 38.56 0.4
S.D. = 1.4 on 8 of 8 obs.

% SEP 21, 1991 05h 56m 27.04± 3.01s
60.895 N ± 7.8km 3.254 E ±24.8km
DEPTH = 10.0km (geophysicist)
NORTH SEA (534)
MD 2.0 (BER).

SUE 0.75 77 iPd 56 41.82 0.1
eS 56 51.10
ASK 1.04 113 eP 56 47.10 0.4
eS 57 00.15
FOO 1.12 50 eP 56 47.76 -0.2
eS 57 00.61
EGD 1.16 122 eP 56 48.90 0.3
eS 57 03.35
FRO 1.17 42 eP 56 49.56 0.7
eS 57 01.17
HYA 1.45 78 eP 56 52.06 -1.2
eS 57 10.83
KMY 1.96 149 eP 57 00.55 -0.1
eS 57 23.35
S.D. = 0.8 on 7 of 7 obs.

? SEP 21, 1991 06h 30m 02.33± 2.84s
3.722 N ±14.1km 76.938 W ±28.7km
DEPTH = 33.0km (normol)
COLOMBIA (103)
MD 3.0 (UVC).

ANCC 0.22 161 iPd 30 09.19 0.0
eS 30 13.80
HOOC 0.39 130 iPd 30 11.56 -0.1
eS 30 18.00
CLMC 0.41 67 iPc 30 11.52 -0.2
BUGC 0.70 76 ePc 30 16.14 0.3
eS 30 26.00
HOBC 1.02 52 ePc 30 20.41 0.0
eS 30 33.50
S.D. = 0.2 on 5 of 5 obs.

% SEP 21, 1991 06h 48m 49.92± 0.90s
37.947 N ± 9.0km 1.866 W ± 7.0km
DEPTH = 10.0km (geophysicist)
SPAIN (377)
mbLg 3.0 (MDD).

EALH 0.36 104 iPgc 48 57.50 0.1
eSg 49 03.50
EHUE 0.59 257 ePg 49 00.60 -1.3
eSg 49 09.00
EVIA 0.85 324 ePg 49 06.00 -0.4
eSg 49 20.30
ENIJ 1.01 196 ePg 49 08.20 -0.9
eSg 49 21.50
ECOG 1.51 244 ePn 49 18.00 0.9

```
                    eSn    49 37.00
EBAN     1.53 279   ePn    49 18 00    0.7
                    eSn    49 37.80
EGUA     1.75 231   ePn    49 21.50    1.0
TOL      2.57 319   ePg    49 40.00    7.6X
                    eSg    50 16.00
ETOR     2.87 357   ePg    49 44.00    7.3X
      S.D. = 1.1   on   7 of   9 obs.
-------------------------------------------
*  SEP 21, 1991  06h 52m 58.18± 1.13s
   12.114 S ±12.6km  117.610 E ±14.1km
   DEPTH =  33.0km  (normal)
   4.2mb (  2 obs.)
 SOUTH OF SUMBAWA, INDONESIA          (291)

TRT      6.57 311   ePc    54 35.00   -0.1
                    iS     55 33.50
MBL      9.24 167   eP     55 11.40   -0.9
                    iS     56 49.00
NANU    10.58 191   eP     55 30.00   -0.6
                    eS     57 21.00
WARB    16.38 150   eP     56 47.80    0.5
                    eS     59 42.00
MRWA    17.09 185   eP     56 55.00   -1.2
                    eS     59 53.00
WR2     17.88 118   eP     57 05.10   -1.0
        0.4s      8.60nm          4.2mb
BAL     18 42 182   eP     57 15.00    2.2
                    eS     00 18.00
ASPA    19.27 129   iPc    57 24.20    1.0
        0.6s      7.60nm          4.1mb
KLB     19.39 180   eP     57 29.00    4.7X
                    eS     00 43.00
      S.D. = 1.4   on   8 of   9 obs.
-------------------------------------------
*  SEP 21, 1991  07h 15m 57.70± 1.05s
   32.148 N ± 8.9km   49.033 E ±12.8km
   DEPTH =  33.0km  (normal)
   4.5mb (  2 obs.)
 WESTERN IRAN                         (347)

IR5      3.32  22   eP     16 49.00    0.3
IR4      3 45  26   eP     16 50.00   -0.6
IR1      3 54  22   eP     16 52.00    0.2
IR7      3.78  20   eP     16 55.10   -0.1
SHI      3.90 129   e(P)   16 57.00    0.0
BHD      4.08 287   eP     17 21.00   21.7X
                    e      18 19.00
                    e      18 38 00
APO     36.55 331   eP     23 01.50   -0.3
        0.3s      6.00nm          5.0mb
NB2     37.93 331   P      23 13.80    0.3
        0.5s      1 40nm          4.1mb
      S.D. = 0.4   on   7 of   8 obs.
-------------------------------------------
   SEP 21, 1991  07h 19m 59.06± 0.28s
   44.911 N ± 2.2km    6.796 E ± 3.0km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                               (538)
      ML 2.8 (LDG), 2.7 (GEN).

PRL      0.01 317   P      20 00.60   -0.6
                    S      20 02.34
BNI      0.17 329   P      20 02.50   -0.4
                    iSg    20 05.50
BHB      0.34 102   P      20 06.36    0.3
                    S      20 12.25
RSP      0.41  53   P      20 08.19    0.8
                    S      20 15.37
PZZ      0.46 152   P      20 07.78   -0.7
                    S      20 14.75
DOI      0.52 142   P      20 09.00   -0.6
                    eSg    20 15.50
LPG      0.59 357   Pg     20 10.80   -0.4
                    Sg     20 20.20
LSD      0.60  25   P      20 11.36   -0.1
                    S      20 20.20
LPL      0.61 356   Pg     20 11.20   -0.3
                    Sg     20 20.70
STV      0.77 150   P      20 13.31   -0.8
                    S      20 23.98
ENR      0 82 147   P      20 14.31   -0.6
                    S      20 25.33
ROB      0.98 128   P      20 17.62   -0.2
                    S      20 31.23
ORX      1.10  49   P      20 20.08    0.2
                    S      20 35.72

SBF      1.14 156   Pg     20 21.00    0.5
                    Sg     20 35.60
CKI      1.16 114   P      20 21.00    0.2
                    eSg    20 36.00
FIN      1.23 124   P      20 22.03    0 1
                    S      20 38.54
IMI      1.27 142   P      20 22.44   -0.3
                    S      20 39.43
PCP      1.30 106   P      20 23.47    0.3
                    S      20 41.23
FRF      1.35 185   Pg     20 23.80   -0.2
                    Sg     20 40.80
CDR      1.44 211   eP     20 25.70    0.5
                    e(Sg)  20 43.60
LRG      1.49 192   Pg     20 26.00    0.2
                    Sg     20 44.80
LMR      1.59 188   Pg     20 28.20    0.9
                    Sg     20 48.20
PGF      2.85 145   Pn     20 46.00    0.5
                    Sn     21 17.00
BGF      3.22 302   Pn     20 51.20    0.6
      S.D. = 0.5   on  24 of  24 obs.
-------------------------------------------
&  SEP 21, 1991  07h 27m 32.06s
   57.660 N          143.154 W
   DEPTH =  10.0km  (geophysicist)
 GULF OF ALASKA                        ( 15)
      <AEIC>. ML 3.0 (AEIC).

KAIM     2.37 344   eP     28 06.64   -4.9
MID      2.44 318   eP     28 05.97   -6.5
CYK      2.46   8   eP     28 07.76   -5.0
                    S      28 33.86
WRG      2.46  13   eP     28 07.92   -4.9
                    S      28 36.13
SNH      2.53   4   eP     28 08.66   -5.3
YKU      2.61  42   eP     28 09.51   -5.4
HMT      2.75 348   iP     28 11.68   -5 3
WAX      2.80   3   eP     28 12.15   -5.7
YAH      2.81  14   iP     28 12.62   -5.4
                    eS     28 42.64
PNL      2.81  43   eP     28 11.63   -6.3
                    S      28 41.50
RAGM     2.85 345   eP     28 12.96   -5.4
PCA      2.87  30   eP     28 12.95   -5.8
HON      2.87  49   eP     28 12.34   -6.4
BCPM     2.94  37   eP     28 15.00   -4.7
SGAM     3.04 340   eP     28 16.12   -4.9
                    S      28 49.86
CROM     3.11   0   eP     28 16.44   -5.7
TGL      3.11   3   eP     28 16.47   -5.7
CVA      3.19 336   eP     28 16.87   -6.3
LTI      3.41 316   eP     28 20.46   -5.9
CTGM     3.44  15   eP     28 21.11   -5.9
FID      3.54 333   eP     28 21.84   -6.3
KNIM     3.59 321   eP     28 22.26   -6.6
GLB      3.81 355   eP     28 26.13   -6.0
VZW      3.83 334   eP     28 26.24   -6.1
VLZ      3.84 336   eP     28 27.14   -5.3
SEW      4.08 310   eP     28 30.79   -5.0
KLU      4.09 341   eP     28 30.25   -5.8
CNPM     4.62 297   eP     28 39.08   -4.5
SLKM     4.63 311   eP     28 39.59   -4.1
        29 obs. ossocioted
-------------------------------------------
?  SEP 21, 1991  07h 39m 24.49± 1.13s
   44.425 N ±10.6km    7.326 E ± 9.0km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                       (545)
      ML 1.4 (GEN).

PZZ      0.18 296   P      39 28.61    0.0
                    S      39 31.17
STV      0.18 180   P      39 28.52   -0.1
                    S      39 31.07
ENR      0.21 161   P      39 29.22    0.1
                    S      39 31.99
ROB      0.41 108   P      39 32.90    0.0
      S.D. = 0.1   on   4 of   4 obs.
-------------------------------------------
*  SEP 21, 1991  07h 56m 46.66± 0.98s
   25.294 S ± 6.8km   71.064 W ±20.1km
   DEPTH =  33.0km  (normal)
 OFF COAST OF NORTHERN CHILE          (121)

ANT      1.69  21   iPc    57 15 30    1.0
                    iS     57 40.90

ZON      6.57 162   e(P)   58 38.00   14.4X
PEL      7.83 178   eP     58 42.50    1.3
PCH      8.31 177   eP     58 52.50    4.6X
CHCH     8.62 178   eP     58 51.00   -1.1
ARE      8.80 357   eP     58 54.00   -0.8
                    eS     00 34.00
CNCB     8.92  19   P      58 57.20    0.4
CCH      9.11  31   P      59 10.70   11.5X
ZOBO     9.39  18   P      59 03.00   -0.3
      Z  20s       0.20um
                    LR     02 22.00
SIV     13.15  47   P      59 48.40   -5.4X
PPD     18.38  84   eP     01 00.20   -0.5
                    e      01 09.40
VAO     22.10  89   (P)    01 36.00   -4.9X
GBA    148.19 105   PKP    16 31.00    2.9X
        0.8s      3.00nm
      S.D. = 1.2   on   7 of  13 obs.
-------------------------------------------
   SEP 21, 1991  08h 00m 37.99± 0.36s
   44.904 N ± 2.6km    6.778 E ± 4.1km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                               (538)
      ML 2.3 (GEN), 2.2 (LDG).

RRL      0.02  16   P      00 39.46   -0.7
                    S      00 40.90
BNI      0.17 334   P      00 41.50   -0.4
                    eSg    00 44.50
BHB      0.35 100   P      00 46.23    1.0
                    S      00 50.97
RSP      0.42  54   P      00 47.51    0.9
                    S      00 54.12
PZZ      0.46 150   P      00 46.87   -0.5
                    S      00 53.15
DOI      0.52 140   P      00 48.00   -0.6
                    eSg    00 54.50
LPG      0.59 358   Pg     00 50.00   -0.2
                    Sg     00 59.40
LPL      0.61 357   Pg     00 50.30   -0.2
                    Sg     00 59.80
LSD      0.61  26   P      00 50.33   -0.2
                    S      00 59.15
STV      0.77 149   P      00 52.25   -0.8
                    S      01 02.64
ENR      0.82 146   P      00 53.28   -0.6
                    S      01 04.69
ROB      0.99 128   P      00 56.61   -0.2
                    S      01 09.31
SBF      1.14 155   Pg     01 00.00    0.6
                    Sg     01 14.60
FIN      1.24 124   P      01 00.89   -0.1
IMI      1.27 141   P      01 01.23   -0.4
PCP      1.31 105   P      01 02.64    0.4
FRF      1.35 184   Pg     01 02.80    0.0
                    Sg     01 20.80
LRG      1.48 192   Pg     01 05.00    0.4
                    Sg     01 24.00
LMR      1.58 187   Pg     01 07.20    1.1
                    Sg     01 27.20
BGF      3.21 302   Pn     01 30.00    0.5
      S.D. = 0.6   on  20 of  20 obs.
-------------------------------------------
%  SEP 21, 1991  08h 07m 20.13± 2.55s
   61.336 N ± 5.9km    4.028 E ±21.7km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN NORWAY                      (535)
      MD 1.6 (BER).

SUE      0.45 128   eP     07 29.53    0.2
                    eS     07 37.11
FOO      0.55  61   eP     07 31.43    0.1
                    eS     07 39.88
FRO      0.59  44   eP     07 31.71   -0.3
                    eS     07 40.80
ASK      1.03 146   eP     07 39.55    0.0
                    eS     07 55.08
HYA      1.06  98   eP     07 39.79   -0.2
                    eS     07 55.56
EGD      1.22 151   eP     07 42.64   -0.1
                    eS     08 00.79
MOL      2.07  52   eP     07 55.73    0.4
      S.D. = 0 3   on   7 of   7 obs.
-------------------------------------------
   SEP 21, 1991  08h 08m 38.53± 0.31s
   18.620 N ± 3.0km  145.375 E ± 4.0km
   DEPTH = 593.9 ±  4.0 km
```

21d 08h

4.9mb (43 obs)
MARIANA ISLANDS (216)

GUMO	5.03	186	iP	10 11.70	0.0
PJG	5.03	186	eP	10 11.50	-0.2
GUA	5.07	185	eP	10 11 00	-1.1
	0.5s	760.56nm			5.9mb X
			eS	11 25.40	
IIDJ	18.05	340	P	12 16.00	0.1
			eS	15 15.60	
KAKJ	18.11	346	P	12 17.40	1.1
			eS	15 18.80	
CHJJ	18.25	343	P	12 17.70	0.0
			eS	15 12.90	
TSRJ	18.79	336	eP	12 22.80	0.1
MAT	18.94	342	iPd	12 23.40	-0.7
	0.7s	53.42nm			5.2mb
			eS	15 31.00	
MTMJ	19.10	341	P	12 25.30	-0.4
NIIJ	19.38	345	iPd	12 28.20	0.1
YAMJ	20.03	348	P	12 34.40	0.2
OFUJ	20.64	352	P	12 39.00	-0.7
CVP	22.40	271	eP	12 57.60	1.9
CGP	22.48	246	ePd	12 56.00	-0.5
HOOJ	23.75	356	eP	13 08.10	0.4
KUSJ	24.41	359	P	13 12.90	-0.5
ASAJ	25.53	355	P	13 24.10	0.8
PPR	27.25	255	ePd	13 40.00	1.4
MDJ	29.09	336	eP	13 54.40	0.2
	1.0s	50.00nm			5.1mb
CN2	30.18	331	Pd	14 03.60	0.1
	1.0s	30.00nm			4.9mb
			PcP	16 43.00	
BJI	32 98	317	eP	14 27.00	-0.1
	1.5s	70.00nm			5.1mb
			S	19 04.00	
MTN	34.28	205	eP	14 38.90	0.8
TIY	34.46	310	Pc	14 40.90	1.3
	1.0s	60.00nm			5.2mb
XAN	35.88	303	Pd	14 51.70	0.4
			S	19 46.50	
HHC	36.44	315	Pc	14 56.60	0.8
	1.0s	80 00nm			5.3mb
GYA	36.49	289	P	14 58.00	1.6
			PcP	17 04.20	
BTO	37.38	313	P	15 04.00	0.4
CTAO	38.48	179	iPc	15 13.00	0 5
	0.6s	14 52nm			4.7mb
OIS	39.34	189	eP	15 19.90	0.4
CD2	39.51	296	P	15 21.20	0.3
	0.9s	40.00nm			5.0mb
WR2	39.82	196	iPd	15 23.80	0 4
	0.2s	12 80nm			5.1mb
			e	15 44.90	
LZH	40.44	304	iPd	15 32 00	3 6X
	1.6s	120.00nm			5.2mb
	Z 18s	0.25um			4.1Msz
			eS	20 57.00	
SMY	40.74	27	eP	15 31.70	1.4
ASPA	43.49	195	iPd	15 52 20	-0 2
	0.4s	9.80nm			4.7mb
			eScP	20 20.90	
			eS	21 36.60	
CHG	43.88	278	ePd	15 56.00	0 5
	0.9s	9.45nm			4.3mb
			e	17 28.70	
GTA	44.35	308	iPd	15 59.60	0.6
	1.0s	20.00nm			4.6mb
			PcP	17 29.60	
			pP	17 43.80	584kmX
			ScP	20 23.60	
			S	21 50.00	
ADK	44.55	33	ePd	16 00.90	0.7
	1.1s	82.90nm			5.2mb
YAK	44.72	350	iP	16 09.00	7.7X
			e	20 56.00	
			e	21 55.00	
PMO	44.96	176	iPd	16 13.60	10.0X
DZM	45.39	152	iPc	16 07.40	0.3
BRS	46.30	171	iPc	16 14.00	0.2
	0.5s	3.00nm			4.1mb
			i	16 43.80	
IRK	46.39	326	eP	16 14.20	-0.1
MBL	46.78	214	iPd	16 17.40	-0.2
	0.3s	3.00nm			4.3mb
SHL	49.78	288	iP	16 39.50	-0.7
			eS	23 03.00	

NANU	50.26	217	eP	16 43.40	-0.1
LSA	50.30	293	iPd	16 43 40	-0 9
	1.0s	200.00nm			5.6mb
STK	50.34	184	eP	16 43.50	-0 4
	0.4s	3.30nm			4.2mb
FORR	51.91	199	eP	16 54.00	-1 3
WMQ	54.13	311	P	17 11.50	0.4
	1.2s	50.00nm			4.7mb
SDN	54.70	35	eP	17 14 30	-0.4
GUN	54.99	291	Pd	17 17.46	-0.2
MRWA	55.37	211	iPd	17 18.80	-0.9
	0.3s	5.00nm			4.3mb
PKI	55.43	291	Pd	17 20.24	-0.5
	0.6s	90.00nm			5.2mb
KKN	55.52	291	P	17 20.86	-0.4
	0.7s	143 00nm			5.4mb
DMN	55.69	291	Pd	17 22.00	-0.4
	0.6s	73.00nm			5.2mb
GKN	56.08	292	Pd	17 24.68	-0.3
	0.7s	143.00nm			5.4mb
BAL	56.18	210	eP	17 24.30	-1.0
ANM	56.39	23	eP	17 26.20	-0.1
KLB	56.52	208	eP	17 26.00	-1.6
MUN	57.56	209	eP	17 33.50	-1.1
SVW	59.03	29	ePd	17 44.90	0.7
	0.8s	23.50nm			4.5mb
RKG	59.38	207	iPc	17 47.60	0.9
	0.4s	12.00nm			4.5mb
TTA	59.46	27	ePd	17 47.30	0.2
	1.0s	31.50nm			4.5mb
KDC	59.63	33	eP	17 47.80	-0.3
RSO	60.19	30	eP	17 50.00	-2.1
SLKM	61.41	31	iP	17 59.50	-0.3
PMR	62.17	29	ePd	18 03.80	-0.8
	0.7s	36.20nm			4.8mb
FBA	63.50	26	eP	18 12.20	-0.9
TOA	63.65	29	eP	18 14.50	0.3
GBA	65.13	277	Pc	18 23.60	-0.5
	0.7s	21.00nm			4.7mb
BALM	65.31	31	P	18 24.10	-0.6
KOD	65.98	273	eP	18 29.60	-0.2
GAR	67.08	305	eP	18 35.50	-0.4
POO	67.33	283	iPc	18 39.50	1.9
INK	69.57	23	iPd	18 49.40	-0.7
	1.0s	54.00nm			5.0mb
QUE	71.12	296	eP	19 00.20	0.0
MBC	73.30	14	eP	19 12.00	0.4
	1.0s	65.00nm			5.1mb
MAIO	75.99	304	iPd	19 28.00	0.7
	0.9s	25.58nm			4.7mb
PGC	77.02	43	eP	19 34.00	1.6
YKA	78.20	28	eP	19 38.10	-0.4
	0.6s	13.70nm			4.6mb
PNT	79.29	42	eP	19 45.00	0.5
	0.8s	16.00nm			4.5mb
ORV	80.72	51	iP	19 52.00	0.0
NEW	81.18	42	P	19 54.50	0.2
	0.9s	20.18nm			4.7mb
KEV	81.91	342	iP	19 56.80	-0.7
	0.8s	39.60nm			5.0mb
SOD	83.33	340	iP	20 03.60	-1.0
SES	84.19	39	iPd	20 09.50	0.3
	0.4s	32.00nm			5.3mb
TRO	84.26	344	eP	20 08.70	-0 4
DAG	84.34	356	iPc	20 08.70	-0.7
	1.0s	57.00nm			5.2mb
CLC	84.80	54	eP	20 13.00	0.4
SBB	84.99	55	eP	20 14.00	0.5
LRM	85.01	43	ePd	20 13.80	0.2
OBN	85.17	327	iPc	20 12.80	-1.0
	1.0s	*******	nm		8.0mb X
RVR	85.57	56	eP	20 16.00	-0.2
GSC	85.58	54	eP	20 16.00	-0.3
PLM	86.19	56	eP	20 20.00	0.6
KAF	86.36	336	iP	20 17.50	-1 9
	0.6s	14.90nm			4.9mb
TPC	86.57	55	eP	20 21.00	-0 1
FFC	87.32	32	iPd	20 24.20	0.1
	0.9s	38.00nm			5 2mb
NUR	87.93	335	iP	20 25 00	-1.8
BW06	88.10	45	P	20 27 90	-0 4
	1.0s	1.50nm			3 8mb X
PV09	90.12	49	eP	20 38.50	0.8
UPP	91.09	336	iP	20 39 10	-2 2
RSSD	91.15	42	eP	20 42 00	-0.3
	1.1s	12 42nm			4.9mb
APO	91.97	338	eP	20 45 00	-0.5

	0.4s	5 00nm			4.9mb
GOL	92.26	47	P	20 48.00	0.5
NB2	92.54	340	P	20 46.40	-1.7
	0.7s	4.40nm			4.6mb
CLL	98.86	332	eP	21 16 00	-0.9
SKO	100.56	321	ePdiff	21 24.00	-0.5
MTD	117.23	260	iPKPc	26 16.50	-2.9X
KRI	119.08	261	iPKPc	26 23 50	0.5
BUL	120.65	257	iPKPd	26 23.10	-2.9X
	0.8s	89.55nm			
KIC	141.47	307	PKP	26 59.38	-5.9X
TIC	141.50	308	PKP	26 59.68	-5.6X
LIC	141.78	307	PKP	27 00.02	-5.7X
LNV	143.87	122	iPKPc	27 08.50	-0.2
TACH	144.33	122	ePKP	27 10.00	0.4
CHCH	144.49	123	ePKP	27 11.00	1.1
PEL	144.67	121	ePKP	27 11.00	0.8
ZOBO	147.98	91	PKP	27 17.30	0.6
LPB	148.05	92	PKP	27 18.00	1.4
CNCB	148.20	92	PKP	27 18.60	1.6
CCH	150.02	93	PKP	27 27.00	7.6X
SIV	154.62	88	PKP	27 26.80	1.3
	S.D. = 0.8	on 114 of 123 obs.			

? SEP 21, 1991 08h 16m 34.79± 5.51s
1B.094 N ±18.1km 67.353 W ±44.5km
DEPTH = 33.0km (normal)
MONA PASSAGE (89)

MGP	0.26	109	P	16 41.80	-0.3
MCP	0.40	35	P	16 44.00	0.1
			S	16 49.00	
LRS	0.52	68	P	16 44.90	-0.9
APR	0.69	59	P	16 48.00	-0.1
			S	16 56.00	
CLLP	0.74	91	P	16 48.20	-0.5
SJG	1 14	89	iP	16 55.00	0.4
LPR	1 43	81	P	16 59.90	1.3
	S.D. = 0.8	on 7 of 7 obs.			

---

* SEP 21, 1991 09h 16m 38.68± 1.45s
38.473 N ±15.8km 20.437 E ± 6.8km
DEPTH = 10.0km (geophysicist)
GREECE (364)

IGT	1.06	356	iPd	16 57.82	-0.8
			iS	17 15.12	
AGG	1.58	69	ePc	17 06.73	-0.1
			eS	17 32.68	
LIT	2.28	44	ePc	17 20.12	3.2X
			eS	17 50.96	
FNA	2.42	17	ePc	17 18.96	0.0
			eS	17 50.08	
OHR	2.65	6	iPn	17 22.30	0.1
ROI	3.21	291	P	17 29.50	-0.6
SOH	3.25	43	iPc	17 31.96	1.2
KNT	3.29	34	ePc	17 31.92	0.7
OUR	3.32	55	ePc	17 30.32	-1.3
CZI	3.44	284	P	17 32.50	-0.9
CSI	3.48	293	P	17 35.70	1.7
SKO	3.58	12	e(Pn)	17 42.20	6.9X
			i	17 44.60	
	S.D. = 1.1	on 10 of 12 obs.			

& SEP 21, 1991 09h 44m 44.30s
40.707 N 124.617 W
DEPTH = 19.0km
3.9mb (3 obs.)
NEAR COAST OF NORTHERN CALIF. (35)
<BRK>. ML 3.5 (BRK). MD 3.9
(GM). Felt (II) ot Rio Dell.

FHC	0.49	79	iPc	44 53.91	-0.2
			i	44 57.75	
FOX	0.51	111	iPc	44 54.52	0.1
WDC	1.59	94	iPc	45 09.64	-1.9
			i	45 16.57	
			e	45 16.60	
MIN	2.32	98	iPc	45 19.94	-2.4
ORV	2.65	115	eP	45 23.90	-3.0
ZSP	3.31	146	eP	45 34.61	-1.6
BKS	3.38	146	iPc	45 34.70	-2.4
			i	46 13.00	
PCC	3.64	151	iPc	45 39.31	-1.7
ARN	4 12	143	eP	45 45.30	-2.5
GCC	4.20	150	eP	45 46.71	-2.2
CMB	4.23	128	eP	45 46.00	-3.3

SAO	4 65	147	eP	45	51.36	-3.9
PRS	5.06	149	eP	45	59.14	-1.8
KVN	5.28	106	eP	45	59.50	-4.8
FRI	5.33	133	ePc	46	03.23	-1.6
BONR	5.61	117	eP	46	07.00	-2.2
BMW	5.85	9	e(P)	46	10.00	-2.2
LON	6.37	18	eP	46	26.00	6 4
MSU	9.85	99	eP	47	06.30	-1.9
BW06	11.44	75	P	47	27.90	-2.1
GOL	14.75	88	eP	48	13.00	-0.9
ANMO	15.45	106	eP	48	21.00	-2.0
	1.0s	1.50nm			3.2mb	
RSSD	15.57	71	eP	48	20.00	-4.6
	1.5s	14.40nm			4.0mb	
FFC	20.58	39	eP	49	21.00	-3.4
	1.0s	10.00nm			4.1mb	
	24 obs. associated					

? SEP 21, 1991 10h 00m 49.83± 5.97s
36.441 N ±34.2km 8.468 W ±46.5km
DEPTH = 10.0km (geophysicist)
WEST OF GIBRALTAR (384)
MD 3.2 (RBA).

GIBL	2.06	78	eP	01	30.00	5.1X
PLAT	2.21	98	eP	01	28.00	0.9
MOMI	2.22	92	eP	01	27.00	-0.2
LIJA	2.50	79	eP	01	31.00	-0.3
AVE	3.25	164	iPn	01	43.00	1.1
			iSn	02	19.00	
IFR	4.00	136	iPn	01	52.00	-0.7
			iSn	02	33.00	
			i	02	35.00	
TIO	5.59	169	iPn	02	14.50	-0.7
			iSn	03	14.00	
			i	03	15.00	
	S.D. = 1.0	on	6 of	7	obs.	

? SEP 21, 1991 11h 05m 27.25± 9.72s
17.189 N ±49.2km 60.852 W ±55.3km
DEPTH = 10.0km (geophysicist)
LEEWARD ISLANDS (92)
ML 3.0 (FDF).

DEG	0.89	193	eP	05	44.47	0.1
BPA	0.97	262	eP	05	45.75	0.0
			S	05	56.90	
SEG	1.00	219	eP	05	46.21	0.0
MGG	1.34	200	eP	05	51.89	0.0
PAG	1.40	215	eP	05	52.80	-0 1
			S	06	11.70	
	S.D. = 0.1	on	5 of	5	obs	

SEP 21, 1991 11h 07m 45.52± 0.82s
38.775 N ± 6 3km 23.477 E ±11.4km
DEPTH = 5.0km (geophysicist)
GREECE (364)
ML 3.2 (ATH).

ATH	0.82	167	ePb	08	01.00	-0.9
AGG	0.93	286	iPc	08	02.82	-0.9
			eS	08	15.66	
PAIG	1.16	8	ePc	08	07.82	0.2
			eS	08	23.66	
LIT	1.53	330	iPc	08	12.85	-0.7
			eS	08	37.06	
OUR	1.61	14	ePd	08	14.38	-0.2
KZN	2.02	320	ePn	08	22.00	1.3
VLI	2.10	192	ePb	08	23.00	1.3
OHR	3.11	319	ePn	08	40.80	4.6X
SKO	3.55	335	eP	08	57.70	15.3X
	S.D. = 1.2	on	7 of	9	obs	

? SEP 21, 1991 11h 16m 50.46±12 54s
36 770 N ±75.2km 18.769 E ±79 4km
DEPTH = 10.0km (geophysicist)
CENTRAL MEDITERRANEAN SEA (400)

SOI	2.52	302	P	17	33 00	0.9
ATN	2.97	299	P	17	38.50	-0 1
MEU	3.09	277	P	17	41.00	0.7
			eSn	18	15.00	
CZI	3.21	320	P	18	13.20	31.3X
GIB	3.97	289	P	17	51.00	-1.8
			eSn	18	30.00	
MCT	4.19	283	P	17	52.50	-3.5X
BRT	4.28	344	P	17	57.00	-0.1

S.D. = 1.5 on 5 of 7 obs

• SEP 21, 1991 13h 15m 22.89± 0.50s
0.977 N ±10.0km 123.655 E ± 9.2km
DEPTH = 33.0km (normal)
4.2mb (2 obs.)
MINAHASSA PENINSULA, SULAWESI (265)

MNI	1.27	69	ePd	15	44.50	0.1
			eS	16	02.50	
WR2	23.30	154	iPd	20	28.60	-0.3
	0.5s	10.30nm			4.6mb	
ASPA	26.44	159	iPc	20	59.40	0.6
	1.1s	3.50nm			3.9mb	
QIS	26.50	145	eP	20	59.00	-0.3
GUN	44.99	310	P	23	36.80	-0.8
PKI	45.18	309	P	23	39.80	0.7
KKN	45.39	309	P	23	40.40	-0.2
DMN	45.43	309	P	23	41.60	0.6
GKN	45.99	309	P	23	45.00	-0.3
	S.D. = 0.6	on	9 of	9	obs.	

% SEP 21, 1991 13h 42m 13.39± 0 84s
43.467 N ± 9.9km 12.479 E ± 7.9km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

ARV	0.34	85	P	42	20.20	-0.2
			eSg	42	25.90	
CRE	0.42	293	P	42	21.00	-0.9
			eSg	42	27.60	
ASS	0.42	161	P	42	22.10	0.1
			eSg	42	30.10	
SFI	0.64	315	P	42	26.20	0.0
			eSg	42	34.40	
PGD	0.68	307	P	42	28.10	1.0
			eSg	42	36.50	
	S.D. = 1.0	on	5 of	5	obs	

& SEP 21, 1991 14h 16m 07.64s
63.090 N 150.843 W
DEPTH = 121.7km
CENTRAL ALASKA (1)
<AEIC>.

TRF	0.44	34	iPd	16	25.61	-0.3
			eS	16	39.57	
KTH	0.47	356	iPd	16	25.53	-0.4
			eS	16	38.82	
HUR	0.56	101	eP	16	26.00	-0.4
CUT	0.74	159	iPd	16	27.48	-0.2
RND	0.95	70	iPd	16	29.13	-0.6
MCK	1.07	52	iPd	16	30.40	-0.5
SKT	1.16	196	iPd	16	31.22	-0.5
			eS	16	49.32	
BWN	1.25	29	iPd	16	32.47	-0.2
PWA	1.51	162	iPc	16	35.80	0.1
GHO	1.60	145	iPc	16	36.49	-0.3
SUA	1.63	178	eP	16	37.65	0.4
			eS	17	00.30	
NEA	1.69	27	iPd	16	36.35	-1.4
PMR	1.70	151	iPc	16	37.60	-0.3
PLRM	1.70	151	iPc	16	37.10	-0.8
			eS	17	00.45	
SML	1.74	137	iPc	16	37.68	-0.7
			iS	17	02.08	
NCG	1.80	201	ePd	16	38.78	-0.5
WRH	1.85	40	ePd	16	38.53	-1.2
CGLM	1.87	197	eP	16	39.68	-0 4
PMS	1.95	161	ePc	16	40.50	-0.5
BGL	1.97	202	eP	16	41 73	0.3
SPU	2.00	197	eP	16	40.96	-0.7
			S	17	06.80	
KNK	2.02	145	ePc	16	41.05	-0.9
CKL	2.03	201	eP	16	41.79	-0.3
			eS	17	08.30	
CCB	2.06	39	iPd	16	41 08	-1.3
HDA	2.18	51	eP	16	42.69	-1.2
MDM	2.20	30	iPd	16	42.78	-1 4
FBA	2.26	35	ePd	16	44.10	-0.8
TTA	2.36	268	ePc	16	45.30	-1.1
TOA	2.38	113	iPc	16	46.60	0.1
GLM	2.44	37	iPd	16	46 01	-1.3
PAX	2.45	90	iPc	16	46 91	-0 6
			eS	17	16.42	
DJE	2.50	66	eP	16	46 13	-1.9
SDG	2.50	101	eP	16	47 34	-0.7
SLKM	2.61	173	eP	16	48.65	-0.9
RDT	2.63	197	eP	16	49.22	-0.6
NCT	2.72	202	eP	16	50.96	-0.1
RDN	2.74	200	eP	16	51.09	-0.3
KLU	2.80	123	ePc	16	50.32	-1.8
GLI	2.84	140	ePc	16	50.83	-1.7
VZW	2.87	133	eP	16	51.10	-1.8
VLZ	2.89	131	ePc	16	50.96	-2.2
SVW	3.00	231	eP	16	53.70	-1.0
NNL	3.07	184	eP	16	54.88	-0.6
SEW	3.07	167	eP	16	54.20	-1.3
KNIM	3.12	150	iPc	16	54.08	-2.2
FID	3.13	137	ePc	16	54.44	-1.9
IMA	3.23	339	eP	16	56.50	-1.3
LTI	3.38	154	iPc	16	57.66	-2.0
MTU	3.47	152	eP	16	59.00	-1.9
CNPM	3.58	183	ePd	17	01.47	-1.0
GLB	3.68	114	ePc	17	02.32	-1.5
SGAM	3.73	132	eP	17	02.27	-2.1
TGL	4.45	118	eP	17	12.10	-2.2
WAX	4.63	121	eP	17	14.49	-2.2
YAH	5.12	118	eP	17	21.37	-2.1
	55 obs. associated					

? SEP 21, 1991 14h 22m 37.52± 1.59s
50.456 N ±29.3km 179.141 W ±15.7km
DEPTH = 33.0km (normal)
4.4mb (4 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS. (7)

ADK	2.11	46	eP	23	13.40	2.3
SMY	4.79	301	eP	23	49.40	0.3
TTA	17.68	36	eP	26	43.00	0.4
IMA	20.35	30	eP	27	11.70	-1.9
FBA	21.81	37	eP	27	28.00	-0.2
YKA	36.03	45	eP	29	37.00	-0.1
	0.5s	1.30nm			4.1mb	
TGY	60.20	255	ePc	32	42.00	-2.5
KAF	65.96	347	iP	33	20.10	-1.9
	0.5s	2.80nm			4.6mb	
NUR	67.74	348	eP	33	32.00	-1.3
NB2	68.55	355	P	33	37.00	-1.4
	0.9s	3.20nm			4.4mb	
APO	68.86	353	eP	33	41.00	0.7
	0.4s	1.60nm			4.4mb	
UPP	69.21	351	iP	33	40.80	-1.5
GUN	72.00	292	PKP	34	02.22	2.0
KKN	72.45	292	PKP	34	04.62	1.9
PKI	72.53	292	PKP	34	03.44	0.1
GKN	72.67	293	PKP	34	05.36	1.4
DMN	72.68	292	PKP	34	03.46	-0.7
KHC	80.20	352	eP	34	46.00	0.3
QUE	80.77	307	eP	34	51.40	2.2
	S.D. = 1.6	an	19 of	19	obs.	

& SEP 21, 1991 14h 31m 52.18s
37.474 N 121.812 W
DEPTH = 1.6km
CENTRAL CALIFORNIA (39)
<GM-P>. MD 2.6 (GM).

MHC	0.19	134	iPd	31	56.50	0.5
			iS	32	00.05	
ARN	0.25	119	iPd	31	57.60	0.3
PCC	0.45	273	iPc	32	01.23	0.0
			i	32	02.17	
GCC	0.47	198	iPd	32	01.76	0.3
			i	32	04.93	
BKS	0.52	320	eP	32	04.00	1.4
			eS	32	11.50	
ZSP	0.59	323	eP	32	04.54	0.6
SAO	0.77	157	eP	32	07.58	0.1
PRS	1.19	163	eP	32	14.49	-0.7
CMB	1.26	63	iPc	32	16.33	-0.1
			i	32	32.12	
PRI	1.62	145	eP	32	21.78	-0.2
FRI	1.75	105	iPc	32	23.26	-0.5
			eS	32	46.18	
	11 obs. associated					

SEP 21, 1991 15h 19m 48.18± 0.09s
16.232 S ± 3.0km 173.004 W ± 2.8km
DEPTH = 17.0km (geophysicist)
5.8mb (57 obs.) 5.7Msz (40 obs.)
TONGA ISLANDS (173)
Ms 6.0 (BRK). Mo=3.0•10••18 Nm
(PPT). Depth from broadband

21d 15h

displacement seismograms
FAULT PLANE SOLUTION: P-Waves
NP1.Strike= 15 Dip=65 Slip= 125
NP2: 136 42 39
Principal Axes:
T Plg=55 Azm=331
P 13 80
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting with a small strike-slip component. The preferred fault plane is not determined.
RADIATED ENERGY
No. of sto: 9 Focal mech. M
Energy 4.2±1.2*10**12 Nm
MOMENT TENSOR SOLUTION
Dep 11 No. of sta: 21
Moment Tensor; Scale 10**18 Nm
Mrr= 0.70 Mtt= 0.08
Mff=-0.79 Mrt= 0.30
Mrf= 0.79 Mtf= 0.80
Principal axes:
T Val= 1.35 Plg=50 Azm=316
N 0.05 36 166
P -1.41 15 65
Best Double Couple:Mo=1.4*10**18
NP1:Strike=115 Dip=43 Slip= 31
NP2: 2 69 129
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 28S, 79C
Centroid Location:
Origin Time 15:19:54.3 0.2
Lat 16.48S 0.02 Lon 172.61W 0.02
Dep 15.0 FIX Half-durotion 4.0
Moment Tensor; Scale 10**18 Nm
Mrr= 0.88 0.01 Mtt= 0.04 0.02
Mff=-0.92 0.02 Mrt= 0.23 0.04
Mrf= 1.24 0.06 Mtf=-0.02 0.01
Principal Axes:
T Val= 1.54 Plg=62 Azm=286
N 0.02 5 187
P -1.56 27 95
Best Double Couple:Mo=1.5*10**18
NP1:Strike=173 Dip=18 Slip= 75
NP2: 9 72 95

AFI 2.60 27 eP 20 23.72 -6.5X
VUN 8.35 257 ePc 21 57.50 6.2X
SVA 8.37 256 ePc 21 58.40 6.7X
NDF 9.26 259 eP 22 02.00 -1.9X
PVC 17.93 263 iP 24 05.50 7.0X
DZM 20.26 250 iPc 24 24.10 -1.6
AFR 22.26 97 iP 24 45.50 -0.5
1.2s 160.00nm 5.4mb
PAE 22.45 97 iP 24 47.40 -0.5
1.2s 235.00nm 5.5mb
PPT 22.45 97 iP 24 47.70 -0.2
1.2s 280.00nm 5.6mb
PPN 22.59 97 iP 24 49.00 -0.3
1.2s 105.00nm 5.2mb
HBZ 22.63 198 eP 24 51.90 2.5
WCZ 22.64 208 eP 24 51.20 1.6
KUZ 22.75 204 P 24 51.60 0.9
TVO 22.76 97 iP 24 50.80 -0.2
1.2s 385.00nm 5.8mb
TBI 23.24 111 iP 24 56.80 1.3
0.8s 60.00nm 5.2mb
URZ 23.61 200 eP 24 59.20 0.2
NOZ 23.65 198 P 25 02.40 3.0X
WLZ 23.76 203 eP 25 03.20 2.7X
PATZ 24.00 201 eP 25 04.20 1.3
PMO 24.21 91 iP 25 04.40 -0.6
1.2s 105.00nm 5.3mb
VAH 24.44 91 iP 25 06.00 -1.2
1.2s 105.00nm 5.3mb
TPT 24.48 91 iP 25 06.70 -0.9
1.2s 190.00nm 5.6mb
MOZ 24.64 203 eP 25 07.40 -1.6
RUV 24.68 91 iP 25 08.40 -1.2
1.2s 175.00nm 5.6mb
RUZ 24.99 202 eP 25 11.40 -1.0
PGZ 25.02 199 P 25 22.50 0.5
MNG 25.27 200 P 25 24.00 -0.4
0.4s 31.00nm 5.3mb
MTW 26.75 200 eP 25 28.10 -0.7

WDW 27.02 200 eP 25 31.60 0.4
WEL 27.11 201 P 25 32.00 0.0
eS 30 12.00
HNR 27.21 281 eP 25 32.00 -1.2
eS 30 24.00
THZ 28.19 203 eP 25 41.30 -0.6
KHZ 28.54 201 eP 25 43.70 -1.2
0.4s 64.00nm 5.7mb
DSZ 28.60 204 eP 25 45.60 0.0
LTZ 29.31 202 P 25 49.70 -2.3
i 25 55.50
MOZ 29.98 201 eP 25 58.00 0.1
e 26 08.70
WVZ 30.14 204 eP 25 58.00 -1.3
e 26 05.50
e 26 12.10
EWZ 30.47 204 eP 26 02.30 0.1
BWZ 31.70 204 eP 26 11.90 -1.1
ODZ 31.85 202 eP 26 19.70 5.3X
MSZ 32.60 206 eP 26 23.90 3.0X
BRS 33.55 245 iPc 26 27.40 -2.1
1.0s 9.90nm 4.7mb X
i(pP) 26 34.80 25kmX
eS 32 12.00
ARMA 35.25 240 iPc 26 44.10 -0.1
RMO 36.92 247 eP 27 06.00 7.8X
i 27 09.80
i 29 32.00
CNB 38.55 233 iPd 27 11.40 -0.5
1.1s 233.00nm 5.8mb
e 29 25.00
CAN 38.84 233 eP 27 13.10 -1.1
CTAO 38.84 258 iPc 27 13.87 -0.5
1.3s 78.86nm 5.3mb
i 27 25.00
ePP 28 50.00
i 28 58.00
i 29 26.00
e 33 00.00
iS 33 06.60
BWA 39.00 235 eP 27 12.20 -3.4X
PMG 39.38 275 eP 27 19.00 0.1
KKH 39.39 26 P 27 19.40 0.6
MHA 39.90 26 P 27 23.70 0.7
HON 40.11 22 P 27 35.00 10.2X
Z 20s 2.84um 5.1Msz
KIP 40.21 22 ePc 27 26.05 0.5
LAT 40.27 279 eP 27 27.50 1.3
CMS 40.34 240 iPd 27 25.60 -1.1
0.8s 146.00nm 5.7mb
OLP 40.96 248 iPd 27 30.20 -1.5
i 27 35.60
TAU 42.97 223 eP 27 50.00 1.9
STK 43.96 241 eP 27 55.60 -0.7
1.2s 29.80nm 5.0mb
eS 34 54.20
BFD 44.37 233 eP 27 55.00 -4.5X
OIS 45.06 257 iPc 28 03.90 -1.3
ADE 46.89 237 iPd 28 18.30 -1.3
1.2s 171.88nm 6.0mb
WR2 50.01 257 iPc 28 41.80 -2.2
0.7s 62.60nm 5.7mb
ASPA 50.22 253 iPc 28 43.80 -1.8
0.7s 289.80nm 6.4mb
Z 18s 20.90um 6.2Msz
ePcP 30 08.40
iPcS 34 00.90
eS 35 45.70
eScS 38 37.80
GUA 51.04 303 eP 28 52.20 0.4
1.2s 225.00nm 6.0mb
Z 22s 4.14um 5.4Msz
GUMO 51.10 303 eP 28 52.50 0.2
PJG 51.10 303 eP 28 52.50 0.2
MTN 54.05 266 iPd 29 13.00 -1.3
0.6s 96.00nm 6.0mb
FORR 55.35 244 eP 29 21.30 -2.4
0.4s 51.00nm 5.9mb
KNA 55.81 262 eP 29 24.50 -2.6X
WARB 56.71 249 iPd 29 31.60 -2.0
DRV 58.95 200 P 29 49.20 0.6
S 37 30.00
COOL 61.33 243 eP 30 03.00 -2.6
0.5s 20.00nm 5.5mb
MBL 63.40 254 eP 30 20.30 0.8
MNI 63.79 280 e(P) 30 22.00 -0.1
KLB 64.19 242 eP 30 23.00 -1.5

0.6s 82.00nm 6.1mb
NWAO 64.55 241 ePc 30 25.88 -1.0
Z 20s 4.70um 5.7Msz
epPd 30 32.17 20kmX
RKG 64.65 239 eP 30 27.50 0.0
DAV 65.04 286 eP 30 31.00 0.8
BAL 65.16 243 eP 30 29.30 -1.5
0.6s 62.00nm 5.9mb
MUN 65.48 242 eP 30 32.00 -0.8
0.6s 85.00nm 6.1mb
MRWA 65.90 245 eP 30 34.00 -1.6
0.6s 17.00nm 5.4mb
CGP 66.35 287 iPc 30 39.00 0.4
NANU 67.16 252 iPc 30 43.30 -0.4
MAP 67.70 289 ePd 30 48.00 0.9
ADK 67.90 358 eP 30 46.10 -1.6
1.3s 236.50nm 6.2mb
KAKJ 68.39 321 P 30 51.10 0.0
CHJJ 69.01 320 P 30 54.20 -0.7
IIDJ 69.33 319 P 30 56.70 -0.3
OFUJ 69.44 324 eP 30 59.30 1.9
SMY 69.58 352 eP 30 58.00 0.0
YAMJ 69.77 322 eP 30 59.20 -0.3
NIIJ 69.78 321 P 30 59.50 -0.1
MAJO 69.82 320 eP 30 59.40 -0.5
epPd 31 05.69 20kmX
eS 40 04.09
e 40 15.35
MAT 69.82 320 iPc 30 58.50 -1.4
1.6s 60.00nm 5.5mb
Z 20s 2.84um 5.5Msz
eS 40 05.00
MTMJ 70.09 320 P 31 01.40 -0.3
KUSJ 70.64 329 P 31 04.20 -0.5
SYP 71.32 44 eP 31 09.00 -0.2
SBC 71.45 44 ePc 31 09.26 -0.5
epPd 31 14.72 18kmX
eS 40 28.46
PRS 71.48 42 iPc 31 10.06 0.1
GCC 71.51 41 iPc 31 10.03 -0.1
PCC 71.56 40 iPc 31 10.16 -0.2
BCH 71.63 44 P 31 10.30 -0.8
PRI 71.82 42 iPc 31 12.22 0.0
BKS 71.88 40 eP 31 12.30 -0.1
1.1s 128.00nm 5.9mb
Z 20s 7.00um 5.9Msz
N 20s 3.80um
E 20s 4.40um
ePcP 31 24.50
eS 40 40.00
eSP 41 24.00
e 49 28.00
eLO 53 40.00
TGY 71.89 291 eP 31 16.00 3.3X
ARN 72.00 41 P 31 13.60 0.5
ABL 72.01 44 P 31 12.90 -0.6
MRRJ 72.06 326 eP 31 13.10 -0.1
SDN 72.08 7 eP 31 11.90 -1.2
ASAJ 72.42 328 P 31 16.40 1.0
MWC 72.44 45 eP 31 15.00 -1.0
FOX 72.51 37 iPc 31 15.99 0.0
CVP 72.51 295 ePc 31 07.60 -8.8X
BAR 72.55 47 eP 31 16.00 -0.5
RVR 72.78 46 eP 31 17.00 -0.8
PLM 72.79 47 eP 31 17.00 -1.0
SBB 72.86 45 eP 31 17.00 -1.3
PEC 72.87 46 ePc 31 17.00 -1.4
TRT 72.92 267 iPd 31 20.00 1.0
1.2s 196.60nm 6.0mb
FRI 72.95 42 iPc 31 18.14 -0.5
ISA 72.98 44 ePc 31 18.57 -0.4
epPd 31 23.70 17kmX
iS 40 48.10
eSS 45 22.88
BAG 73.09 293 ePc+ 31 19.50 -0.6
eS 40 42.00
CMB 73.14 41 ePc 31 18.71 -1.1
epPd 31 23.84 17kmX
PFO 73.21 47 ePc 31 20.08 -0.4
iS 40 50.80
ORV 73.38 39 iPc 31 20.67 -0.4
WDC 73.40 38 iPc 31 21.07 -0.1
KKM 73.42 282 ePc 31 21.50 -0.4
CLC 73.65 44 iP+ 31 22.00 -0.9
CWC 73.69 43 iP 31 22.00 -1.2
TPC 73.76 46 eP 31 23.00 -0.5
MIN 73.80 38 iPc 31 22.92 -0.8

PIP 73.81 295 iPd 31 23.50 -0.5
GSC 73.90 45 ePc 31 23.44 -0.9
epPd 31 29.07 18kmX
iS 40 57.03
GLA 74.06 48 eP 31 25.00 -0.3
BONR 74.42 42 P 31 27.10 -0.5
COR 75.54 34 ePc 31 33.74 0.3
iS 41 17.20
eSS 46 02.73
eHSS 46 06.32
KDC 75.64 11 ePc 31 33.80 0.1
TATO 75.83 302 ePc 31 34.07 -1.5
epPd 31 39.20 16kmX
SHW 77.16 33 P 31 43.20 0.5
VGB 77.51 35 P 31 44.90 0.3
LON 77.74 33 ePc 31 44.99 -0.9
ePcP 31 54.42
PGC 78.15 31 eP 31 48.00 0.1
1.1s 171.00nm 6.0mb
OZH 78.20 300 eP 31 49.50 0.8
Z 24s 2.60um 5.5MszX
SVW 78.32 9 ePc 31 48.30 -0.4
MCW 78.48 31 P 31 50.20 0.4
MSU 78.75 44 iPc 31 52.00 0.2
SSE 78.76 307 P 31 52.00 0.3
Z 20s 2.75um 5.6Msz
N 18s 1.40um
E 17s 1.70um
S 41 42.00
PMR 79.86 11 ePc 31 56.40 -0.5
1.4s 316.40nm 6.1mb
Z 22s 2.20um 5.5Msz
MDJ 79.91 322 eP 31 54.40 -3.2X
Z 22s 4.70um 5.8Msz
N 22s 3.40um
E 22s 6.20um
MDJ 79.91 322 ePc 31 58.23 0.6
Z 22s 4.70um 5.8Msz
N 22s 3.40um
E 22s 6.20um
iS 42 05.39
TTA 80.02 8 ePc 31 58.50 0.6
1.3s 221.80nm 6.0mb
DAU 80.34 43 P 32 00.80 0.4
KLU 80.41 13 P 31 58.70 -1.4
PNT 80.51 32 iPc 32 01.00 0.3
0.8s 101.00nm 5.9mb
BALM 80.82 15 iPc 32 01.20 -1.1
TOA 80.91 12 ePc 32 03.20 0.5
NJ2 80.97 307 Pc 32 04.00 0.5
7.0s 900.00nm 5.9mb X
Z 24s 1.50um 5.3MszX
N 15s 1.20um
sP 32 20.00
eS 42 08.00
ALO 81.04 50 iPc 32 03.90 -0.2
1.0s 66.50nm 5.6mb
Z 18s 2.41um 5.6Msz
ANMO 81.04 50 iPc 32 04.10 0.0
0.9s 46.22nm 5.5mb
Z 19s 2.60um 5.6Msz
iSS 47 24.93
eHSS 47 26.42
NEW 81.18 34 iPc 32 02.90 -1.4
1.2s 94.70nm 5.7mb
Z 20s 4.00um 5.8Msz
e 39 04.30
GZH 81.91 297 P 32 10.00 1.4
6.0s 1000.00nm 6.1mb X
Z 20s 4.40um 5.8Msz
E 22s 4.80um
CN2 81.96 320 iPc 32 08.80 0.4
6.0s 1400.00nm 6.2mb X
Z 22s 5.80um 5.9Msz
N 17s 1.20um
E 17s 1.80um
DL2 82.03 314 Pc 32 10.00 1.1
7.0s 1100.00nm 6.0mb X
Z 22s 1.90um 5.4Msz
N 15s 1.10um
E 18s 1.40um
sP 32 26.00
SNY 82.14 318 iPc 32 10.20 0.8
6.0s 1200.00nm 6.1mb X
Z 28s 2.00um 5.3MszX
LRM 82.43 38 ePc 32 10.80 -0.4
BW06 82.64 42 iPc 32 10.90 -1.4
1.2s 111.87nm 5.9mb
AIA 82.99 156 eP 32 14.40 1.0
COL 83.14 11 iPc 32 13.44 -0.6
eS 42 28.29
FBA 83.14 11 ePc 32 13.90 -0.2
0.9s 312.60nm 6.5mb
IMA 83.33 8 ePc 32 15.70 0.5
1.6s 200.90nm 6.1mb
OIZ 83.57 292 eP 32 18.00 0.8
E 22s 2.30um
WHN 83.87 304 eP 32 20.00 1.5
Z 20s 1.25um 5.3Msz
GOL 83.96 46 iPc 32 18.50 -0.6
1.0s 92.50nm 6.0mb
Z 20s 1.50um 5.4Msz
TIA 84.03 310 P 32 20.00 0.7
8.0s 1300.00nm 6.2mb X
Z 23s 2.60um 5.5MszX
E 25s 2.70um
S 42 44.00
GLD 84.08 46 ePc 32 19.80 0.1
1.2s 191.92nm 6.2mb
Z 20s 2.50um 5.6Msz
KGM 84.49 274 ePc 32 23.90 1.9
SES 85.67 35 ePc 32 26.60 -0.6
0.9s 131.00nm 6.1mb
BJI 86.31 313 ePc 32 31.38 0.9
Z 24s 2.24um 5.5MszX
RSSD 86.81 42 iPc 32 31.30 -1.9
1.0s 48.81nm 5.7mb
Z 20s 2.26um 5.6Msz
MEO 86.87 53 iPc 32 32.30 -1.1
MAW 87.13 199 iPc 32 35.40 1.3
1.0s 116.00nm 6.1mb
ACO 87.17 51 iPc 32 36.20 1.4
IPM 87.41 275 ePc 32 37.90 1.5
0.8s 67.20nm 6.0mb
TIY 88.07 310 iPc 32 40.20 1.0
4.0s 1200.00nm 6.6mb X
Z 20s 2.50um 5.6Msz
E 21s 2.80um
S 43 12.00
HIA 88.09 323 ePc 32 39.36 0.4
ePP 36 05.38
SNG 88.53 278 eP 32 43.80 2.1
GYA 88.77 298 iPc 32 43.00 0.2
5.0s 1200.00nm 6.5mb X
Z 40s 2.00um 5.2MszX
N 20s 1.60um
E 20s 2.90um
pP 32 55.00 39kmX
S 43 18.00
SIO 88.95 52 eP 32 43.10 -0.3
INK 88.98 14 P 32 42.00 -0.8
0.6s 11.50nm 5.4mb
TUL 89.40 52 eP 32 43.80 -1.7
1.0s 25.60nm 5.4mb
Z 18s 2.58um 5.7Msz
N 18s 0.87um
E 18s 1.62um
eS 43 23.00
e 49 17.00
e 52 45.00
e 56 21.00
e 58 34.00
LR 01 39.00
XAN 89.42 306 Pc 32 46.50 0.8
6.0s 900.00nm 6.2mb X
E 19s 1.60um
pP 32 53.50 22kmX
sP 32 59.00
HHC 89.87 313 Pd 32 49.00 1.3
1.2s 200.00nm 6.2mb
Z 26s 2.80um 5.6MszX
N 15s 0.60um
pP 33 00.00 35kmX
SKS 43 20.00
YAK 90.00 337 iP 32 46.90 -0.8
ePP 36 18.00
SKS 43 11.00
eS 43 37.00
eSS 49 50.00
eSSS 53 00.00
LNV 90.35 125 ePd 32 51.00 1.0
LCCH 90.38 125 eP 32 51.50 1.3
LOE 90.40 288 eP 32 51.80 1.4
eS 43 03.20
YKA 90.71 23 eP 32 51.00 0.1
1.1s 28.20nm 5.5mb
TACH 90.82 125 eP 32 53.00 0.8
BTO 90.87 312 P 32 53.50 1.2
N 17s 0.70um
E 17s 1.00um
esP 33 01.00
SKS 43 25.50
CHCH 90.95 126 eP 32 55.00 2.1
SAN 91.10 125 ePd 32 55.20 1.6
PCH 91.16 125 iP 32 55.50 1.6
PEL 91.19 125 iPd 32 55.60 1.6
NST 91.37 286 eP 32 59.00 4.1X
KMI 91.73 296 ePc 32 58.79 2.1
Z 20s 2.66um 5.7Msz
ePP 36 38.05
sS 44 05.00
CD2 92.57 301 P 33 01.60 1.3
1.4s 50.00nm 5.7mb
Z 24s 2.20um 5.5MszX
FFC 92.58 33 ePc 32 58.20 -1.5
1.6s 68.00nm 5.8mb
CHG 93.33 289 ePc 33 05.50 1.6
1.0s 47.50nm 5.9mb
e 45 17.20
CHTO 93.33 289 ePc 33 05.35 1.4
SNA 93.43 177 iPd 33 04.90 1.4
1.1s 174.68nm 6.4mb
CCM 93.54 52 iPc 33 04.72 0.2
iS 44 13.56
esS 44 24.04
LZH 94.02 306 ePc 33 07.17 0.2
Z 20s 1.88um 5.5Msz
E 18s 1.34um
ePP 36 50.00
FVM 94.14 52 ePd 33 06.40 -0.9
1.0s 50.00nm 5.9mb
Z 20s 6.85um 6.1Msz
e 35 55.50
MBC 97.67 11 eP 33 22.00 -0.5
1.0s 65.00nm 6.2mb
GTA 97.99 309 Pc 33 26.20 1.2
6.0s 400.00nm 6.2mb X
Z 22s 4.40um 5.9Msz
E 20s 3.70um
sP 33 39.00
PP 37 20.00
SKS 44 05.00
LPB 99.12 110 P 33 33.00 2.1
Z 20s 3.40um 5.8Msz
LR 06 30.00
CNCB 99.13 110 P 33 28.80 -2.3
ZOBO 99.18 110 P 33 33.70 2.3
SKS 44 20.00
SHL 101.34 293 ePdiff33 40.50 0.0
eS 44 22.40
SIV 105.61 112 ePdiff34 04.00 4.5X
GAR 120.68 306 ePKP 38 40.60 -0.6
e 41 13.00
QUE 123.74 296 ePKP 38 47.60 0.1
KEV 125.07 352 ePKP 38 48.00 -0.5
1.0s 30.00nm
SOB1 126.28 115 ePKP 38 51.90 -0.7
SOD 127.32 351 iPKP 38 53.50 0.6
MAIO 129.51 304 ePKP 38 49.00 -9.2X
e 41 05.00
FRS 130.99 201 iPKPc 39 02.70 1.7
0.7s 17.12nm
BLF 131.26 202 ePKP 39 02.00 0.2
KIM 132.09 201 iPKPc 39 13.00 9.6X
1.5s 83.33nm
KAF 132.18 348 iPKP 39 01.90 -0.4
0.6s 9.00nm
SLR 133.42 207 ePKP 39 07.00 1.0
Z 17s 3.40um 6.1MszX
NUR 133.98 348 ePKP 38 58.00 -7.7X
1.0s 38.00nm
i 39 06.00
e 42 36.00
OBN 135.02 336 ePKP 39 07.00 -0.9
Z 20s 2.40um 5.9Msz
N 20s 1.80um
E 20s 0.80um
i 39 10.00
i 39 33.00
iPP 41 40.00
iPKS 42 40.00

21d 15h

			ePPP	44	32.00			BST	146.75	14	PKP	39	24.23	-4.8X		LFK	149.64	314	iPKP	39	36.50	2.4X
			eSKKS	52	04.00			KHC	146.75	352	iPKPd	39	29.70	0.6		LSF	149.73	8	ePKP	39	33.50	-0.3
			e	55	08.00				1.5s	205.00nm						VOY	149.73	350	ePKPc	39	33.40	-0.5
			eSS	59	48.00				Z 22s	2.10um			5.9Msz						i	39	38.40	
NB2	135.15	357	PKP	38	55.70	-12.4X			N 22s	1.70um						DIM	149 74	332	iPKP	39	39.00	5.1X
	1.0s	3.90nm							E 22s	0 60um						VDL	149.76	357	ePKPd	39	34.60	0.5
APO	135.47	355	ePKP	39	01.00	-7.6X					e	39	40.00			TCF	149.77	7	ePKP	39	33.90	0.0
	1.6s	24.50nm									e	40	02.30				1.3s	25.25nm				
BUL	138.07	211	ePKP	39	06.60	-8.4X		MLR	146.78	335	ePKPd	39	29.80	0.5		MAF	149.87	6	ePKP	39	34.10	0.1
			ipPKP	39	14.10			WET	146.83	353	ePKP	39	29.90	0.7			1.4s	34.85nm				
			iPP	42	08.00			ZST	147.06	348	ePKP	39	29.80	0.3		MFT	149.88	328	ePKP	39	33.00	-1.3
MTD	139.21	218	ePKP	39	07.50	-9.5X					i	39	32.60			JVI	149.89	306	iPKPc	39	40.30	5.7X
			ipPKP	39	17.30			VKA	147.15	348	ePKP	39	29.00	-0.7		EDC	149.90	327	iPKP	39	39.00	4.8X
WIN	140.19	195	ePKP	39	09.50	-9.3X			4.0s	1463.00nm						CEY	149.93	350	ePKPc	39	33.80	-0.4
	1.0s	25.00nm									i	39	32.30						i	39	38.90	
KRI	140.29	215	ePKP	39	14.50	-4.5X					e	42	38.00			CSS	149.95	313	ePKP	39	40.00	5.5X
			ipPKP	39	23.20			SRO	147.15	346	iPKP	39	29.90	0.2		VVI	149.99	352	PKP	39	35.20	1.0
COP	140.41	355	ePKP	39	20.00	2.1					i	39	32.10			VBY	150.00	348	ePKPc	39	34.50	0.3
	Z 20s	0.85um				5.5Msz		PSN	147.25	331	iPKP	39	33.00	3.1X					i	39	39.40	
			e	42	15.00			BUD	147.29	345	ePKP	39	30.30	0.4		PLD	150.06	333	iPKPc	39	39.00	4.6X
			e	45	08.00			CMP	147.32	336	ePKPc	39	33.00	2.9X		TRI	150.07	350	ePKP	39	34.60	0.3
LSZ	142.34	215	iPKP	39	19.00	-3.7X		GWF	147.34	359	PKP	39	29.90	-0.1					e	39	38.80	
MJMA	143.11	292	ePKP	39	20.60	-3.1X		BBTK	147.50	321	iPKP	39	32.00	1.3		AGO	150.09	5	PKP	39	34.62	0.2
WIT	143.50	0	ePKP	39	22.00	-1.4		COZ	147.54	337	ePKPc	39	34.50	3.9X		KDZ	150.11	332	iPKPc	39	40.00	5.5X
DBN	144.19	2	ePKP	39	20.00	-4.6X		DEV	147.58	339	iPKPc	39	35.00	4.6X		TMA	150.17	357	ePKPd	39	34.90	0.2
			ePP	42	36.00			KMR	147.72	351	iPKP+	39	34.30	3.7X		PLDF	150.22	5	PKP	39	35.03	0.4
WTS	144.32	0	ePKP	39	23.00	-1.8		CDF	147.91	360	PKP	39	30.33	-0.7		DIX	150.24	359	ePKPd	39	36.10	1.2
	1.1s	64 00nm						FUR	147.96	355	ePKP	39	31.20	0.2		MMK	150.26	359	ePKPd	39	36.20	1.3
			e	39	33.00						i	39	34.30			STS	150.30	23	ePKP	39	36.00	1.3
OASM	144.65	292	iPKPc	39	25.30	-1.0		VITF	148.09	1	PKP	39	31.23	0.0		RIY	150.32	349	ePKP	39	34.50	-0.2
KRA	144.67	346	ePKPc	39	23.90	-1.6		ECH	148.10	360	PKP	39	30.07	-1.2		PYM	150.38	6	PKP	39	35.41	0.5
	1.1s	158.00nm						BHG	148.23	352	iPKPc	39	34.90	3.5X		RZN	150.39	333	iPKPc	39	41.00	5.8X
			i	39	28.20				1.3s	276.00nm						KHL	150.40	322	iPKP	39	40.60	5.4X
KSP	144.67	350	iPKPc	39	24.00	-1.5		UZD	148.23	345	ePKP	39	31.60	0.2		AYN	150.50	300	iPKPd	39	35.30	-0.1
	1.0s	95.00nm						BZS	148.24	340	ePKP	39	29.00	-2.5		SAL	150.56	355	PKP	39	36.30	1.3
CLL	144.68	353	iPKP	39	23.20	-2.3		TIM	148.26	341	ePKPc	39	36.00	4.5X		RSL	150.63	1	PKP	39	36.01	0.6
	1.6s	99.00nm						HAU	148.31	1	ePKP	39	31.40	-0.2		RJF	150.65	8	ePKP	39	35.50	0.3
	Z 19s	1.00um				5.6Msz			Z 20s	2.50um			6.0Msz				1.2s	23 80nm				
KVT	144.76	320	ePKP	39	23.00	-3.0X		FEL	148.43	359	PKP	39	31.01	-0.9			Z 20s	2.50um			6.0Msz	
ARO	144.91	267	ePKP+	39	28.00	1.0		MOF	148.47	360	PKP	39	31.23	-0.7		COLF	150 67	5	PKP	39	36.12	0.8
BRG	145.00	352	iPKPc	39	24.40	-1.6		BSF	148.49	0	ePKP	39	31.50	-0.5		PPCY	150.68	314	ePKP	39	40.00	4.5X
	1.3s	68.00nm							1.2s	14.90nm						ORX	150.68	359	PKP	39	34.05	-1.3
	Z 20s	2.00um				5.9Msz		SLE	148.53	358	ePKPd	39	32.10	0.1		PRNI	150.79	304	iPKPc	39	42.30	6.4X
	N 20s	1.00um						HRT	148.61	326	iPKP	39	35.50	3.2X		LPL	150.80	0	ePKP	39	36.70	1.0
	E 20s	0.50um						GPA	148.62	324	iPKP	39	35.50	3.2X			1.4s	26.15nm				
			e	43	12.00			ITU	148.75	327	ePKP	39	32.00	-0.4		LPG	150 82	0	ePKP	39	36.80	0.9
AFIF	145.22	289	iPKPc	39	28.00	0.6		ISK	148.76	327	ePKP	39	23.00	-9.5X			1.4s	28.30nm				
BNS	145.35	360	iPKP	39	25.10	-1.5		KBA	148.79	352	ePKP	39	29.00	-3.6X		LSD	150.86	360	PKP	39	36.31	0.4
	1.1s	306.00nm							1.0s	84.50nm						LFF	150.90	9	ePKP	39	35.70	0.1
	Z 19s	1.40um				5.7Msz					i	39	35.70				1.2s	17.85nm				
			ic	39	37.30			BHL	148.80	310	PKP	39	36.00	3.1X		MMB	150.90	334	iPKPc	39	41.00	5.2X
SPC	145.40	345	iPKP	39	27.20	0.2		ZLA	148.82	358	ePKPd	39	32.80	0.4		LBL	150.92	5	PKP	39	36.60	0.9
PTT	145.42	336	ePKPc	39	28.00	1.1		WTTA	148.82	354	iPKPc	39	32.10	-0.5		KKB	150 94	335	iPKPc	39	41.00	5.2X
UCC	145.45	3	iPKP+	39	26.00	-0.8			1.4s	287.00nm						SSB	150.97	4	PKP	39	36.40	0.7
MOX	145.47	355	iPKPc+	39	26.50	-0.4					i	39	36.40			GRN	151.06	2	PKP	39	37.37	1.4
	1.5s	310.00nm									i	39	49.80			CAF	151.10	7	ePKP	39	36.40	0.5
	Z 21s	1.30um				5.7Msz					iPP	43	09.40				1.3s	28.90nm				
	N 23s	1.70um						BBS	148.85	359	PKP	39	31.68	-0.8		HOL	151.14	302	ePKP	39	36.70	0.3
ENN	145.54	1	iPKPc	39	26.60	-0.3		GRC	148.86	5	PKP	39	32.76	0.4		RSP	151.17	360	PKP	39	35.80	-0.3
	1.4s	528.00nm						DMK	148.87	329	ePKP	39	36.20	3.6X		ELL	151.19	320	ePKP	39	37.00	0.5
MEM	145.70	1	iPKPc	39	27.10	-0.1		PVL	148.89	334	iPKPc	39	37.00	4.4X		LPO	151.22	9	ePKP	39	36.50	0.4
SNF	145.74	3	iPKPc	39	27.41	0.1		LOR	14B.94	4	ePKP	39	32.80	0.2			1.2s	17.85nm				
UOSK	145.74	292	ePKP	39	28.00	-0.2			1.2s	32.75nm						BNI	151.27	0	PKP	39	42.00	5.7X
HOF	145.78	354	iPKPc	39	27.50	0.1			Z 20s	3.00um			6.1Msz			SRS	151.35	333	iPKPd	39	41.56	5.2X
	1.4s	296 00nm						YLV	148.95	326	ePKP	39	46.00	13.1X		RRL	151.40	0	PKP	39	37.23	0.6
PRU	145 78	351	iPKPc	39	27.90	0.5		LOMF	148.97	0	PKP	39	31.61	-1 1		BADA	151.44	300	ePKP	39	36.70	-0.2
	1.3s	319 20nm						CTT	149.03	328	iPKP	39	36.50	3.6X		BHB	151.48	360	PKP	39	34.57	-1.9
	N 22s	2.60um						SSF	149.12	5	ePKP	39	33.20	0.3		SKO	151.50	337	iPKP	39	36.50	-0.1
	E 21s	0 80um							1.2s	38.70nm							1.6s	252.00nm				
			e	39	39.20			MFF	149.14	10	ePKP	39	32.90	0.0					i	39	42.70	
			e	39	44.50				1.1s	14.65nm									i	39	51.20	
NAI	145.81	242	iPKPc	39	31.50	2.7X		LBF	149.23	4	ePKP	39	33.00	-0.1					iPP	43	21.50	
	Z 20s	1.42um				5.7Msz			1.3s	36.10nm									i	43	24.50	
BMR	145.82	340	ePKPc	39	29.00	1.5		OGA	149.27	355	ePKP	39	34.00	0.6					i	53	35.00	
KAS	145.94	323	PKPc	39	29.50	1.5					i	39	38.40			KNT	151.61	334	ePKPc	39	42.60	5.8X
TNS	146.07	358	iPKPc	39	28.50	0.5		BEO	149.32	341	iPKP	39	37.80	4.6X		SOH	151.70	333	ePKPc	39	42.08	5.1X
DOMF	146.10	4	PKP	39	28.60	0.7		AVF	149.38	5	ePKP	39	33.10	-0.1		PCP	151.75	358	PKP	39	36.41	-0.6
CFR	146.10	333	ePKPc	39	28.00	0.0			1.2s	17.85nm						PTO	151.75	25	ePKP	39	43.50	6.5X
GAZ	146.12	314	ePKP	39	21.00	-7.4X		LLS	149.41	357	ePKPd	39	34.00	0.4		OUR	151.81	332	iPKPd	39	43.50	6.4X
CEI	146 14	341	ePKPd	39	28.00	0.0		ADI	149.49	309	iPKPc	39	38.90	5.0X		PZZ	151.82	360	PKP	39	37.23	0.1
VRI	146 15	335	ePKPd	39	27.00	-1.2		OSS	149.52	356	ePKPd	39	34.20	0.5		DOI	151.82	360	PKP	39	38.90	1.8
DOU	146 17	3	PKPc+	39	28.70	0.7		SMF	149.56	4	ePKP	39	33.30	-0.2		SURF	151.84	0	PKP	39	32.50	-4 8X
			PP	42	39.00				1.3s	25.25nm						CKI	151.88	358	PKP	39	37.60	0.5
GRF	146 45	355	ePKP	39	28.40	-0.1		BGF	149.57	6	ePKP	39	33.50	0 0		MME	151.95	354	PKP	39	39.10	1.6
	Z 21s	1 00um				5 6Msz			1.4s	34 85nm						HVAR	151.96	345	ePKP	39	42.70	5.5X
			ic	39	30.30			LJU	149.62	350	ePKP	39	33.00	-0.6		RSM	152.01	352	PKP	39	38.40	1.2
PSZ	146.66	344	ePKP	39	28.00	-1.0					i	39	38.10			ROB	152.02	359	PKP	39	37.03	-0.3

STV	152.08	359	PKP	39	36.92	-0.6
BDI	152.09	354	PKP	39	39.30	1.8
ENR	152.09	359	PKP	39	36.62	-0.9
FIN	152.09	358	PKP	39	37.23	-0.2
SFI	152.09	352	PKP	39	38.10	0.8
PGD	152.16	353	PKP	39	38.30	0.6
PAIG	152.28	332	ePKPd	39	42.20	4.4X
CRE	152.37	352	PKP	39	36.70	-1.3
IMI	152.40	359	PKP	39	38.16	0.2
PII	152.44	354	PKP	39	41.10	3.2X
SBF	152.46	359	ePKP	39	37.80	-0.2
	1.2s		29.75nm			
ECRI	152.48	15	ePKP	39	41.00	2.9X
OHR	152.48	337	ePKP	39	30.00	-8.1X
	1.1s		192.00nm			
			i	39	45.30	
			i	39	57.20	
BTH	152.50	11	ePKPc	39	38.00	0.0
			epP	39	44.50	
			e	40	01.00	
			e	40	07.00	
FNA	152.54	336	iPKPd	39	45.50	7.3X
CDR	152.63	2	ePKPd	39	39.20	1.0
			e	39	45.60	
LIT	152.66	334	iPKPc	39	44.66	6.3X
FRF	152.76	1	ePKP	39	38.70	0.4
	1.2s		17.85nm			
ASS	152.82	351	PKP	39	39.50	1.0
LRG	152.86	1	ePKP	39	38.90	0.4
	1.2s		26.80nm			
	Z 20s		3.00um		6.1Msz	
LMR	152.98	1	ePKP	39	38.90	0.3
	1.2s		17.85nm			
AQU	153.39	349	PKP	39	44.20	4.9X
AGG	153.62	332	iPKPc	39	56.46	16.7X
EPLA	153.67	23	ePKP	39	42.00	2.2X
PGF	153.72	357	ePKP	39	39.80	-0.1
	1.3s		32.50nm			
AZI	153.74	349	PKP	39	39.10	-0.6
GUD	153.82	19	ePKP	39	42.80	2.7X
DUI	153.86	347	PKP	39	40.60	0.5
HLW	153.88	306	ePKP	39	39.50	-0.8
			e	43	22.00	
BRT	153.90	342	PKP	39	39.90	-0.1
ETOR	154.27	16	ePKP	39	42.70	2.0
TOL	154.55	20	iPKP	39	42.50	1.6
			iPKKP	40	04.00	
SGO	154.71	345	PKP	39	37.20	-3.8X
EROO	154.84	12	ePKP	39	43.50	2.2X
EBR	154.86	12	ePKP	39	42.00	0.8
			ePP	43	40.00	
MGR	155.04	344	PKP	39	35.20	-6.3X
ROI	155.29	342	PKP	39	36.60	-5.4X
EVAL	155.51	27	ePKP	39	44.00	1.7
ECHE	155.71	15	ePKP	39	44.50	1.9
CZI	155.74	343	PKP	39	41.10	-1.4
EVIA	156.17	19	ePKP	39	45.00	1.7
EPRU	156.68	25	ePKP	39	46.30	2.4X
EHUE	156.90	20	ePKP	39	45.70	1.4
EJIF	157.02	26	ePKP	39	47.30	3.0X
ECOG	157.05	22	ePKP	39	45.50	1.0
AFC	157.08	22	ePKP	39	45.00	0.4
EGUA	157.44	23	ePKP	39	53.00	8.1X
AVE	158.60	35	iPKP	39	48.00	1.8
			i	40	22.00	
IFR	159.61	30	ePKP	40	00.00	12.4X
TIO	160.42	39	iPKP	39	50.00	1.5
LIC	164.58	129	PKP	39	52.44	-0.4
	Z 20s		0.85um			
TIC	164.86	128	PKP	39	52.80	-0.3
KIC	164.89	129	PKP	39	52.32	-0.8
	1.4s		44.50nm			
	S.D. = 1.0		on 361 of 453 obs.			

---

* SEP 21, 1991 15h 28m 24.07± 2.50s
33.634 S ± 8.6km 71.836 W ±20.8km
DEPTH = 23.6 ± 6.2 km
NEAR COAST OF CENTRAL CHILE (135)

LCCH	0.27	55	iPd	28	30.50	-0.1
			iS	28	36.50	
LNV	0.48	132	iPd	28	34.10	0.3
IHA	0.63	15	iP	28	36.00	-0.3
			iS	28	46.40	
TACH	0.75	92	iP	28	38.20	-0.2
			iS	28	49.50	
ROCH	0.96	47	iPd	28	42.00	-0.1
			iS	28	56.00	
SAN	1.00	80	iPc	28	42.50	0.0
			iS	28	58.60	
CHCH	1.03	107	iPd	28	42.60	-0.5
			iS	29	00.00	
PEL	1.08	63	iPd	28	44.10	0.3
			iS	29	00.00	
PCH	1.10	90	iPd	28	44.10	0.0
			iS	29	01.50	
JACH	1.41	48	iPd	28	49.00	0.5
			iS	29	09.00	
	S.D. = 0.4		on 10 of 10 obs.			

& SEP 21, 1991 15h 34m 14.20s
62.369 N 124.232 W
DEPTH = 10.0km (geophysicist)
NORTHWEST TERRITORIES, CANADA (679)
<PGC>. ML 4.3 (PGC).

MUB	3.51	193	Pc	35	09.20	-0.7
YKA	4.48	84	eP	35	38.30	14.7
	0.4s		56.30nm			
DLB	4.90	219	P	35	28.50	-1.2
BDBC	6.29	170	P	35	46.20	-3.1
			S	36	58.00	
HYT	6.52	262	Pd	35	52.20	-0.4
PLBC	6.60	249	P	35	52.60	-0.9
BALM	8.70	269	eP	36	24.80	1.7
MNB	10.67	160	P	36	46.80	-3.5
			S	38	41.00	
FBA	10.75	294	eP	36	50.00	-1.1
SLEB	11.71	161	P	37	01.00	-3.4
FFC	13.85	113	eP	37	27.00	-5.7
	0.6s		11.00nm		4.9mb	
SES	14.01	143	P	37	30.00	-4.8
	0.9s		2.50nm		4.0mb	
NEW	14.69	161	eP	37	51.00	7.3
SVW	14.85	279	eP	37	51.00	5.3
BW06	21.45	149	eP	39	08.50	3.8
RSSD	21.74	138	eP	39	08.00	0.5
	16 obs. associated					

& SEP 21, 1991 15h 35m 43.60s
49.130 N 126.402 W
DEPTH = 37.2km
VANCOUVER ISLAND REGION (25)
<PGC>. ML 2.8 (PGC).

ETB	0.26	340	P	35	50.83	-0.4
OZB	0.62	106	Pc	35	55.81	-0.2
BTB	0.67	59	Pc	35	56.57	-0.2
GDR	0.69	20	Pd	35	56.41	-0.5
EDB	0.88	328	Pc	35	58.88	-0.7
ALB	1.04	82	Pc	36	01.75	-0.1
CBB	1.13	36	Pd	36	03.34	0.2
MGB	1.13	96	Pc	36	02.83	-0.5
PFB	1.41	113	Pc	36	06.31	-0.9
NAB	1.58	86	P	36	09.89	0.3
PHC	1.71	338	P	36	12.53	1.0
SHB	1.72	73	Pc	36	11.72	0.0
PGC	2.01	103	P	36	15.55	-0.1
BIB	2.05	81	P	36	16.02	-0.2
STW	2.06	117	P	36	16.22	-0.2
WPB	2.15	75	P	36	18.00	0.2
OSD	2.22	125	P	36	19.27	0.3
BLN	2.54	115	P	36	23.43	0.1
HDW	2.68	122	P	36	25.42	0.1
CMW	2.92	102	P	36	29.35	0.5
MBW	2.99	95	P	36	30.25	0.4
CPW	3.07	133	P	36	30.64	-0.3
JCW	3.11	106	P	36	31.43	0.0
RPW	3.30	100	P	36	34.40	0.2
HTW	3.36	112	P	36	34.97	0.0
RMW	3.49	117	P	36	37.61	0.7
GSM	3.64	120	P	36	39.77	0.8
RVC	3.69	125	P	36	40.63	0.9
LMW	3.70	130	P	36	41.19	1.2
CZM	3.76	134	P	36	41.71	1.0
FMW	3.86	123	P	36	42.85	0.6
KOSW	3.90	132	P	36	43.53	0.9
TDL	3.96	133	P	36	44.80	1.1
FL2	4.01	135	P	36	44 92	0.5
STD	4.04	134	P	36	45.83	1.1
WPW	4.07	125	P	36	45.94	0.7
LVP	4.08	137	P	36	46 16	0.8
SOSW	4.08	134	P	36	46 45	1.1
ESD	4.11	134	P	36	47 81	2.1
GLK	4.12	127	P	36	47.06	1.1
JLK	4.14	135	P	36	47.49	1.3
MTMW	4.21	136	P	36	48.33	1.3
CDFW	4.21	134	P	36	48.55	1.4
ETW	4.33	108	P	36	49.05	0.3
ASR	4.41	131	P	36	51.03	1.1
NAC	4.45	121	P	36	51 15	0.7
PNT	4.45	85	P	36	55.00	4.6
	0.8s		2.60nm			
EBG	4.50	117	P	36	52.07	0.9
WTV	4.53	106	P	36	51.40	-0.1
VLMM	4.66	139	P	36	55.37	1.9
MDW	5.13	117	P	36	59.71	-0.3
	51 obs. associated					

SEP 21, 1991 15h 37m 06.48± 0.62s
23.849 N ± 5.7km 114.492 E ± 7.6km
DEPTH = 33.0km (normal)
4.2mb (2 obs.)
NEAR SOUTHEASTERN COAST OF CHINA(242)

GZH	1.30	234	Pn	37	29.10	0.7
			Pg	37	30.10	
			Sg	37	45.80	
HKC	1.57	191	iP	37	32.10	-0.2
MCO	1.92	207	eP	37	36.20	-1.3
			eS	38	04.90	
QZH	3.89	73	Pn	38	05.50	0.0
			Sn	38	47.50	
QIZ	6.46	223	ePn	38	42.00	0.2
			Pg	39	05.30	
			Sn	39	50.30	
			iSg	40	25.20	
WHN	6.67	359	Pnc	38	45.00	0.3
			Sn	39	58.00	
GYA	7.55	292	P	38	56.60	-0.6
			S	40	19.80	
NJ2	9.03	24	eP	39	17.50	-0.1
			S	41	06.00	
SSE	9.35	38	e(P)	39	50.20	28.3X
	Z 12s		1.40um			
	N 10s		0.70um			
	E 10s		1.20um			
			S	41	10.50	
XAN	11.26	336	eP	39	46.60	-1.6
	N 10s		0.90um			
CD2	11.85	309	P	39	54.80	-1.4
LZH	15.28	325	eP	40	41.50	0.0
	2.0s		35.00nm		4.3mb	
	Z 20s		0.94um		4.8MszX	
	N 10s		0.57um			
			sP	40	52.00	
GTA	19.88	325	Pd	41	39.60	1.6
	1.0s		10.00nm		4.1mb	
	Z 20s		0.60um		5.3MszX	
	E 12s		0.70um			
			pP	41	43.70	16kmX
CN2	21.85	22	eP	42	01.50	3.6X
GUN	26.03	285	P	42	40.60	1.7
PKI	26.44	284	P	42	43.20	0.6
KKN	26.56	285	P	42	43.60	0.0
	S.D. = 1.0		on 15 of 17 obs.			

---

* SEP 21, 1991 16h 13m 36.97± 0.51s
8.515 S ±10.3km 106.694 E ±12.9km
DEPTH = 33.0km (normal)
5.1mb (15 obs.)
SOUTH OF JAWA, INDONESIA (282)

NANU	16.34	150	eP	17	23.00	-2.6
			eS	20	06.00	
MBL	17.85	136	eP	17	43.00	-1.6
CGP	24.61	47	eP	18	57.00	1.3
WARB	25.84	135	eP	19	07.60	0.3
CHG	28.21	344	eP	19	27.00	-2.0
WR2	29.08	116	iPd	19	37 50	0.7
	0.6s		14.40nm		4.9mb	
ASPA	30.08	123	iPc	19	46.40	0.5
	0.6s		7.00nm		4.6mb	
QIS	33.95	114	iPd	20	21.00	1.3
GBA	36 42	307	P	20	43.00	2.3
	0.5s		2 30nm		4.3mb	
CD2	39.30	356	P	21	04.90	0.2
	0.8s		10.00nm		4.6mb	
STK	39.87	131	eP	21	10.80	1.4
	0.7s		5.90nm		4.5mb	
			i	21	21.10	

21d 16h

LSA	40.83	339	P	21 15.60	-2.3
	0.8s		50.00nm	5.3mb	
PKI	41.37	331	P	21 21.98	-0.2
	0.6s		20.00nm	5.1mb	
GUN	41.43	332	P	21 22.56	-0.1
	0.7s		92.00nm	5.6mb	
DMN	41.55	331	P	21 23.32	-0.2
	0.7s		49.00nm	5.4mb	
KKN	41.62	331	P	21 23.68	-0.3
	0.7s		79.00nm	5.6mb	
GKN	42.11	330	P	21 27.76	-0.2
	0.5s		32.00nm	5.3mb	
XAN	42.37	3	P	21 29.80	-0.1
LZH	44.44	357	eP	21 49.00	2.1
	1.0s		23.00nm	5.0mb	
TIY	46.30	6	eP	22 02.00	0.5
NDI	46.66	324	iPc	22 04.50	0.1
	0.6s		53.33nm	5.7mb	
GTA	48.11	353	eP	22 15.60	-0.2
	0.8s		20.00nm	5.2mb	
			PcP	23 44.00	
BJI	49.10	10	eP	22 23.00	-0.2
OUE	54.20	317	eP	23 02.50	0.4
CN2	54.78	17	P	23 04.00	-1.9
	1.0s		30.00nm	5.3mb	
			PcP	24 09.00	
WMO	54.87	343	P	23 06.20	-0.4
MDJ	56.78	19	eP	23 18.90	-1.4
MAIO	62.86	318	eP	24 03.00	0.8
YAK	72.56	11	iP	25 01.70	-0.7
VRI	89.13	317	ePd	26 30.00	-0.5
MEO	145.06	38	iPKPc	33 13.70	0.6
SIO	145.71	34	ePKP	33 15.70	1.5
TUL	145.88	34	ePKP	33 15.40	0.9
	0.6s		6.20nm		
SIV	152.80	206	PKP	33 35.50	9.9X
S.D. = 1.2 on 33 of 34 obs.					

& SEP 21, 1991 16h 15m 40.39s
59.994 N 153.123 W
DEPTH = 128.9km
SOUTHERN ALASKA (2)
<AEIC>.

IVS	0.03	54	eP	15 57.48	0.6
INE	0.07	24	iPd	15 57.39	0.7
			eS	16 11.63	
INW	0.07	356	ePd	15 57.22	0.6
			eS	16 11.51	
OPT	0.35	189	iPd	15 58.09	0.8
			eS	16 11.96	
RED	0.46	22	iPd	15 58.62	-0.9
			eS	16 12.69	
RS1	0.50	21	iPd	15 59.08	-0.8
			eS	16 13.63	
RS2	0.50	21	iPd	15 59.16	-0.7
			eS	16 13.36	
RSO	0.50	21	iPd	15 59.08	-0.8
			eS	16 13.34	
RDW	0.51	18	iPd	15 59.08	-0.8
			eS	16 14.44	
REF	0.54	23	iPd	15 59.30	-0.8
			eS	16 13.80	
RDN	0.55	19	iPd	15 59.34	-0.7
			iS	16 14.08	
NCT	0.58	10	iPd	15 59.46	-0.7
			eS	16 14.17	
AUL	0.63	195	ePd	15 59.62	-0.8
			eS	16 14.87	
DFR	0.64	20	eP	15 59.70	-0.9
			S	16 14.97	
AUE	0.65	191	iPd	15 59.51	-1.0
			eS	16 15.21	
AUW	0.65	196	iPd	15 59.69	-0.8
AUP	0.65	194	iPd	15 59.83	-0.8
AUH	0.65	195	eP	15 59.78	-0.9
AGU	0.65	194	ePd	15 59.75	-1.0
AUI	0.68	193	ePd	15 59.75	-1.0
			eS	16 14.37	
PDT	0.68	31	iPd	16 00.06	-0.8
			eS	16 14.98	
HOM	0.82	114	eP	16 01.31	-0.5
			eS	16 18.15	
NNL	0.92	86	iPd	16 02.97	0.2
MCNL	1.02	218	eP	16 02.79	-0.9
CNPM	1.06	115	iPd	16 03.34	-0.8
			eS	16 21.00	

CDD	1.10	194	ePc	16 03.23	-1.3
			eS	16 20.78	
CKL	1.27	17	iPc	16 05.81	-0.5
SPU	1.30	23	iPc	16 05.89	-0.7
			iS	16 25.41	
BGL	1.32	16	iPc	16 06.56	-0.4
CGLM	1.43	22	iPc	16 07.39	-0.7
			S	16 28.56	
SYI	1.44	165	ePd	16 07.05	-1.0
			eS	16 27.78	
NCG	1.49	18	ePc	16 08.24	-0.6
SLKM	1.54	69	eP	16 08.22	-1.0
SVW	1.67	313	ePc	16 09.27	-1.5
SEW	1.85	85	iPd	16 11.88	-0.9
			eS	16 34.98	
SUA	1.88	37	ePc	16 12.58	-0.8
			eS	16 37.72	
SKT	2.14	21	iPc	16 15.41	-1.1
PMS	2.16	53	iPc	16 15.57	-1.2
KDC	2.28	171	ePc	16 15.51	-2.6
			S	16 43.16	
PWA	2.30	42	eP	16 17.75	-0.7
PLRM	2.53	49	eP	16 21.15	-0.3
LTI	2.65	87	iPc	16 21.79	-1.2
KNK	2.70	56	ePc	16 21.42	-2.3
KNIM	2.72	80	ePc	16 21.47	-2.4
GHO	2.72	47	eP	16 21.65	-2.4
MTU	2.75	88	eP	16 23.49	-0.8
CUT	2.79	28	ePc	16 23.40	-1.3
SML	2.96	50	eP	16 24.30	-2.9
GLI	3.12	71	eP	16 27.12	-2.0
FID	3.39	74	iPc	16 30.90	-1.8
VZW	3.42	69	ePd	16 31.52	-1.7
VLZ	3.54	68	eP	16 32.54	-2.2
TRF	3.72	20	eP	16 35.54	-1.8
KLU	3.84	64	ePc	16 36.42	-2.5
RND	3.98	29	ePc	16 38.97	-1.8
TOA	3.99	55	eP	16 39.08	-1.7
GLB	4.80	68	ePc	16 49.58	-2.2
NEA	4.97	21	eP	16 51.75	-2.3
WRH	5.07	25	ePd	16 53.06	-2.3
WAX	5.14	80	eP	16 54.53	-1.9
TGL	5.17	77	eP	16 55.39	-1.4
HDA	5.28	30	eP	16 55.75	-2.5
CCB	5.29	26	eP	16 55.62	-2.6
MDM	5.47	22	ePd	16 58.54	-2.3
FBA	5.51	24	eP	16 58.96	-2.3
GLM	5.67	25	eP	17 01.38	-2.2
YAH	5.69	81	eP	17 02.81	-1.2
67 obs. associated					

? SEP 21, 1991 16h 44m 58.82± 1.39s
15.600 S ±65.1km 173.101 W ±52.5km
DEPTH = 33.0km (normal)
4.3mb (2 obs.)
TONGA ISLANDS (173)

AFI	2.11	37	ePc	45 31.50	-1.1
			eS	46 00.00	
DZM	20.39	248	iPd	49 36.90	1.1
STK	44.19	240	eP	53 04.20	-2.4
	1.1s		1.80nm	3.8mb	
ASPA	50.33	252	iPc	53 50.80	-4.0X
	0.6s		7.00nm	4.8mb	
MSU	78.37	44	eP	56 59.00	1.0
ALO	80.71	50	eP	57 10.00	-0.7
SES	85.20	35	eP	57 34.00	0.9
MOX	144.84	355	e(PKP)	04 34.00	0.0
PRU	145.14	351	ePKP	04 34.00	-0.5
KHC	146.12	352	ePKP	04 38.00	1.7
S.D. = 1.5 on 9 of 10 obs.					

% SEP 21, 1991 16h 59m 24.04± 1.15s
11.165 N ± 7.2km 61.758 W ±15.0km
DEPTH = 33.0km (normal)
WINDWARD ISLANDS (95)
MD 3.1 (TRN).

TCE	0.47	179	eP	59 34.38	0.2
			eS	59 45.83	
TRN	0.62	146	eP	59 37.01	0.7
			eS	59 48.74	
TPP	0.90	160	eP	59 39.54	-0.7
			eS	59 55.31	
TBH	0.96	135	eP	59 41.01	-0.2
			eS	59 57.82	
GRW	0.99	5	eP	59 41.75	0.0
			eS	59 59.95	
BOT	1.02	90	eP	59 42.03	0.0
			eS	00 00.12	
S.D. = 0.6 on 6 of 6 obs.					

? SEP 21, 1991 17h 16m 54.83± 1.44s
4.219 N ±15.8km 76.156 W ±22.7km
DEPTH = 33.0km (normal)
COLOMBIA (103)
MD 3.4 (UVC).

HOBC	0.14	8	iPc	17 01.08	0.0
			eS	17 12.60	
CLMC	0.53	231	eP	17 06.96	1.0
HOOC	0.89	213	eP	17 11.52	0.4
			eS	17 30.90	
ANCC	1.00	225	ePc	17 11.14	-1.4
			eS	17 30.20	
PURC	1.89	186	eP	17 25.94	0.0
S.D. = 1.2 on 5 of 5 obs.					

SEP 21, 1991 17h 57m 38.25± 1.19s
9.846 S ± 8.4km 119.326 E ± 9.7km
DEPTH = 58.4 ± 15.8 km
4.6mb (2 obs.)
SUMBA REGION, INDONESIA (287)

MKS	4.60	2	iPd	58 46.70	-0.2
TRT	6.95	287	ePc	59 21.50	1.7
KNA	10.92	123	eP	00 13.80	-0.5
MBL	11.26	178	eP	00 17.40	-1.6
			iS	02 13.00	
MTN	11.95	106	eP	00 27.00	-1.2
			iS	02 35.00	
NANU	13.16	196	eP	00 43.00	-1.2
			eS	02 57.00	
WR2	17.65	126	iPd	01 43.10	1.3
	0.4s		22.40nm	4.7mb	
			eS	04 46.90	
WARB	17 67	158	eP	01 43.20	1.3
			eS	04 51.00	
MRWA	19.52	189	eP	02 09.50	5.7X
			eS	05 23.00	
ASPA	19.56	136	iPc	02 06.20	1.9
	0.5s		16.40nm	4.6mb	
			eS	05 36.10	
KLB	21.69	184	eP	02 37.00	11.1X
			eS	06 15.00	
OIS	22.25	121	iPc	02 34.70	3.0X
			i	02 39.70	
GUN	49.56	320	P	06 26.40	0.4
PKI	49.63	319	P	06 25.60	-0.8
DMN	49.85	319	P	06 27.80	-0.2
KKN	49.86	320	P	06 27.40	-0.7
GKN	50.42	319	P	06 32.00	-0.3
S.D. = 1.3 on 14 of 17 obs.					

SEP 21, 1991 18h 20m 37.27± 0.15s
36.451 N ± 4.2km 71.092 E ± 2.9km
DEPTH = 227.3km (7 depth phases)
4.6mb (71 obs.)
AFGHANISTAN-TAJIKISTAN BORD REG.(717)
Felt at Kabul, Afghaniston.

KSH	4.89	51	P	21 51.60	-0.1
	5.0s		2000.00nm		
			S	22 44.40	
OUE	7.14	210	iPd	22 22.10	1.7
	0.7s		530.82nm	5.8mb X	
			eS	23 40.30	
NDI	9.31	145	iPc	22 48.00	-0.2
	0.5s		179.58nm	5.5mb	
			iS	24 25.50	
MAIO	9.36	273	iPd	22 48.00	-0.9
	0.8s		35.51nm	4.6mb	
			eS	24 19.00	
GKN	14.21	122	P	23 49.38	-0.7
	0.4s		566.00nm	6.3mb X	
WMO	14.66	55	P	23 53.50	-2.0
	1.0s		30.00nm	4.7mb	
			S	26 36.20	
DMN	14.78	123	P	23 56.74	-0.5
	0.4s		344.00nm	6.1mb X	
KKN	14.79	122	P	23 56.46	-0.8
	0.5s		964.00nm	6.4mb X	
PKI	15.02	122	P	23 59.38	-0.7
	0.4s		421.00nm	6.2mb X	

```
GUN     15.13 120 P      24 00.86  -0.6
        0.4s  346.00nm           6.1mb X
POO     18.01 172 iPd    24 38.50   4.6X
LSA     18.09 106 P      24 34.80  -0.3
        1.0s   80.00nm           5.2mb
TAB     19.77 282 eP     24 57.00   5.2X
DHR     20.51 246 eP     25 00.00   1.0
SHL     20.82 116 eP     25 02.50   0.2
                  iS     28 42.50
GTA     22.81  74 iPc    25 23.00   1.5
        0.8s   20.00nm           4.7mb
                  sP     26 35.60
GBA     23.45 164 Pc     25 29.60   2.0
        0.5s   17.50nm           4.9mb
MJMA    24.41 252 eP     25 35.30  -1.3
LZH     26.34  81 eP     25 56.00   1.7
        2.0s   21.00nm           4.5mb
KOD     26.73 166 eP     26 00.00   1.9
                  eS     30 17.00
CD2     27.66  92 P      26 06.80   0.8
        0.9s   20.00nm           4.8mb
OBN     30.00 319 iPd    26 26.50   0.1
        0.6s  ********nm         8.2mb X
                  ePP    27 24.00
                  iPPP   27 39.00
                  e      27 54.00
                  eS     31 07.00
CHG     30.13 118 eP     26 29.00   1.0
CHTO    30.13 118 eP     26 29.00   1.0
        0.8s    5.86nm           4.3mb
BTO     30.56  70 eP     26 31.80   0.1
XAN     30.86  83 P      26 33.70  -0.6
                  PcP    29 24.40
GYA     31.78  98 P      26 43.00   0.5
KHT     32.67 124 eP     26 51.50   1.5
TIY     32.82  75 eP     26 51.80   0.5
ELL     32.88 283 iP     26 52.50   0.6
VRI     34.32 300 ePd    27 22.50  18.6X
MLR     34.87 299 ePc    27 11.50   2.8X
BJI     35.30  70 eP     27 12.50   0.3
                  PcP    29 37.00
WHN     36.32  87 eP     27 22.00   1.2
PAIG    37.09 290 ePc    27 28.44   1.3
KNT     37.47 292 ePd    27 31.42   1.0
KAF     37.71 327 eP     27 32.10   0.0
        0.2s    4.60nm           4.7mb
NUR     37.91 324 iP     27 33.90   0.1
        0.5s   32.30nm           5.2mb
LIT     37.95 291 ePd    27 35.00   0.5
AGG     38.28 289 ePd    27 37.80   0.6
SPC     38.70 306 iP     27 42.90   2.2
                  e      28 29.50 222km
KRA     38.90 307 iPc    27 43.70   1.6
        0.7s   21.00nm           4.8mb
                  e      28 31.40 228km
NJ2     39.41  82 Pc     27 48.00   1.5
SOD     39.81 335 iP     27 49.40   0.0
SRO     40.03 303 i(P)   27 53.10   1.7
                  e      28 39.70 220km
                  i      29 06.70
UPP     41.16 322 iP     28 00.30  -0.1
SSE     41.61  82 P      28 05.50   1.0
KTK1    41.69 336 eP     28 04.49  -0.3
IPM     41.98 132 ePc    28 09.00   1.4
BSD     42.10 315 iPc    28 07.00  -1.2
        0.6s    7.00nm           4.3mb
VBY     42.36 300 e(P)   28 12.00   1.6
PRU     42.38 307 ePd    28 12.30   1.7
                  e      29 00.00 224km
                  e      29 27.00
TDS     42.68 292 P      28 14.10   1.0
BRG     42.71 308 iPd    28 14.50   1.3
        0.8s   22.00nm           4.6mb
                  e      29 04.00 234km
LJU     42.78 301 eP     28 15.00   1.1
KHC     43.07 306 eP     28 17.50   1.2
                  e      29 31.00 371kmX
APO     43.09 323 eP     28 15.90  -0.3
        0.4s   23.30nm           5.0mb
VOY     43.23 301 e(P)   28 17.80   0.2
SGO     43.23 293 Pd     28 18.90   1.3
CLL     43.28 309 iPd    28 18.20   0.4
        0.9s   16.00nm           4.4mb
                  ipP    29 07.90 235km
DUI     43.61 295 P      28 18.30  -2.5
FVI     43.91 302 Pd     28 23.30   0.4
YAK     43.98  35 iP     28 21.90  -1.3
```

```
                  i      29 13.00 242kmX
                  eS     34 36.00
MOX     44.20 308 iPd    28 26.70   1.5
        1.2s   19.00nm           4.4mb
ARV     44.33 298 Pd     28 27.40   1.1
NB2     44.46 323 P      28 26.30  -0.9
        0.6s   12.30nm           4.5mb
GRF     44.55 307 iPc    28 29.90   1.9
        0.8s    9.00nm           4.2mb
WTTA    44.59 303 iPc    28 28.30  -0.2
        1.0s   10.60nm           4.2mb
                  e      29 43.00 375kmX
LOF     44.72 333 eP     28 28.29  -0.7
CRE     45.01 298 P      28 32.80   1.0
SFI     45.02 299 Pd     28 33.50   1.8
OGA     45.06 303 iPd    28 32.50   0.2
        0.5s   13.00nm           4.6mb
MME     45.78 299 P      28 39.40   1.4
WTS     47.06 310 eP     28 48.50   0.9
        0.7s    9.00nm           4.3mb
PCP     47.21 300 P      28 48.17  -0.8
CDF     47.30 306 eP     28 49.40  -0.3
        0.8s    5.35nm           4.0mb
PGF     47.36 297 iPc    28 49.70  -0.5
        0.6s   15.35nm           4.6mb
ORX     47.36 302 P      28 48.68  -1.6
FIN     47.52 300 P      28 50.53  -0.8
BSF     47.72 305 eP     28 52.70  -0.3
        0.6s   18.05nm           4.6mb
ROB     47.74 300 P      28 52.37  -0.7
ENN     47.78 309 eP     28 54.00   0.8
        0.7s    6.00nm           4.1mb
IMI     47.81 299 P      28 53.50  -0.2
RSP     47.97 301 P      28 52.78  -2.1
LSD     47.97 302 P      28 55.45   0.4
HAU     47.98 305 eP     28 54.80  -0.1
        0.4s    6.85nm           4.4mb
BH8     48.03 301 P      28 53.50  -1.8
ENR     48.07 300 P      28 55.04  -0.6
STV     48.13 300 P      28 55.24  -0.9
SBF     48.14 300 iPc    28 56.20   0.0
        0.6s   24.35nm           4.8mb
PZZ     48.22 300 P      28 55.35  -1.5
LPG     48.24 302 iPc    28 57.40   0.2
        0.6s   16.25nm           4.6mb
LPL     48.25 302 eP     28 57.40   0.2
        0.8s   22.85nm           4.6mb
RSL     48.28 302 P      28 57.52   0.2
RRL     48.35 301 P      28 57.60  -0.4
BNI     48.39 301 P      28 58.30   0.1
DOU     48.73 308 P      29 01.50   1.0
        1.0s   33.30nm           4.7mb
FRF     48.77 299 eP     29 00.70  -0.2
        0.6s   10.80nm           4.4mb
SNF     48.85 309 iPd    29 02.19   0.8
LRG     49.00 299 eP     29 02.50  -0.2
        0.6s    6.30nm           4.2mb
LBF     49.77 304 eP     29 07.80  -0.8
        0.6s    6.30nm           4.3mb
LOR     49.79 305 eP     29 08.00  -0.6
        0.8s    6.70nm           4.2mb
SSB     49.80 302 P      29 08.92   0.1
SMF     49.94 304 iPc    29 09.40  -0.4
        0.6s   18.05nm           4.7mb
SSF     50.07 304 eP     29 10.50  -0.2
        1.2s   20.85nm           4.5mb
AVF     50.23 304 iPc    29 11.50  -0.5
        0.7s   22.60nm           4.8mb
BGF     50.63 304 eP     29 14.40  -0.6
        1.0s   16.00nm           4.4mb
MAF     50.90 304 iPc    29 17.10   0.0
        0.8s   13.45nm           4.5mb
TCF     51.12 304 eP     29 18.70  -0.1
        0.8s   16.80nm           4.6mb
CAF     51.59 302 eP     29 22.30   0.0
        0.6s    9.45nm           4.5mb
LSF     51.59 304 eP     29 21.60  -0.6
        1.2s   35.70nm           4.7mb
RJF     51.85 303 eP     29 24.50   0.3
        0.8s    8.05nm           4.3mb
LDF     52.07 307 eP     29 24.80  -0.9
        0.9s   19.65nm           4.6mb
LPO     52.25 302 eP     29 26.90  -0.2
        0.6s    5.40nm           4.2mb
FLN     52.25 307 eP     29 26.20  -0.8
        0.8s   10.75nm           4.4mb
EKA     52.37 316 Pc     29 27.90   0.1
```

```
        1.1s   14.90nm           4.4mb
LFF     52.48 303 iPc    29 28.90   0.1
        0.6s   10.80nm           4.5mb
GRR     52.59 307 eP     29 28.60  -0.9
        0.6s    9.00nm           4.5mb
MFF     52.61 305 eP     29 29.00  -0.7
        0.8s   10.75nm           4.4mb
LPF     52.81 307 eP     29 30.10  -1.0
        0.8s    5.35nm           4.1mb
MLS     52.84 300 P      29 30.34  -1.1
EPF     53.34 300 eP     29 33.90  -1.3
        0.6s    4.50nm           4.2mb
TOL     57.53 298 iPc    30 04.50  -0.5
        1.0s   30.00nm           4.9mb
NPA     59.43 216 iP     30 11.20  -7.1X
        0.6s   80.00nm           5.6mb
MTD     64.77 222 iPd    30 51.70  -2.0
KRI     65.90 224 iPd    31 02.30   1.3
MBC     67.38   3 ePc    31 09.20  -0.2
        0.9s   64.00nm           5.4mb
BUL     69.13 223 iPd    31 18.40  -2.6
        0.9s  294.12nm           6.0mb X
IMA     72.15  18 iPc    31 37.90  -0.6
        0.7s    8.10nm           4.6mb
MBL     73.50 133 iPd    31 44.30  -2.4
        0.6s   16.00nm           4.9mb
SLR     73.86 220 eP     31 48.00  -0.9
INK     73.94   9 iPc    31 49.00   0.4
        0.6s   20.00nm           5.0mb
                  pP     32 43.00 228km
TTA     74.04  20 eP     31 49.70   0.2
FBA     74.50  16 ePc    31 51.90   0.0
        1.1s   37.70nm           5.0mb
KIC     74.86 267 Pc     31 53.74  -1.0
        0.5s    7.50nm           4.7mb
TIC     74.92 267 Pc     31 54.00  -1.1
        0.5s    6.00nm           4.6mb
LIC     75.17 267 Pc     31 55.42  -1.1
        0.6s    9.50nm           4.7mb
KNA     75.19 123 iPc    31 55.70  -0.8
        0.5s   41.00nm           5.4mb
SEK     76.31 219 iPc    32 04.70   2.0
        0.7s   23.97nm           5.0mb
PMR     76.99  18 eP     32 05.40  -0.4
TOA     77.28  17 ePc    32 08.20   0.7
BLF     77.67 219 iPc    32 10.00  -0.2
MRWA    77.76 141 eP     32 10.00  -0.5
FRS     78.64 219 iPc    32 15.30   0.1
        0.7s   23.97nm           5.0mb
HVD     79.24 219 e(P)   32 37.70  19.1X
BAL     79.25 141 eP     32 17.00  -1.5
KLB     80.57 141 eP     32 24.00  -1.5
YKA     81.29   3 eP     32 28.70  -0.1
        0.6s    8.90nm           4.7mb
NWAO    81.38 142 eP     32 29.00  -0.7
COOL    81.78 138 eP     32 31.00  -0.8
WR2     81.92 122 iPd    32 32.00  -0.8
        0.4s   43.80nm           5.5mb
ASPA    84.16 125 iPc    32 43.60  -0.5
        0.7s   41.50nm           5.3mb
FORR    85.66 134 iPd    32 51.10  -0.1
FFC     89.00 356 iPc    33 07.20   0.1
        0.6s    8.00nm           4.8mb
CTAO    90.45 115 iPc    33 13.50  -0.7
        1.0s   15.00nm           4.9mb
TUL    106.98 349 e(Pdif34 36.80    8.2X
     S.D. = 1.0  on 149 of 156 obs.
-----------------------------------------
& SEP 21, 1991  18h 34m 59.45s
   59.287 N          154.669 W
   DEPTH =   5.3km
 SOUTHERN ALASKA                    (  2)
         <AEIC>, ML 3.3 (AEIC), 3.8
         (PMR).

MCNL     0.20 121 iPd    35 03.35  -0.2
AUW      0.62  82 iPc    35 11.96   0.1
AUH      0.63  82 iPc    35 12.35   0.2
AGU      0.64  83 iPc    35 12.46   0.2
AUI      0.64  85 iPc    35 12.22   0.0
                  iS     35 21.62
CDD      0.64 124 iPd    35 11.88  -0.4
AUL      0.64  81 iPc    35 12.39   0.1
AUP      0.64  83 iPc    35 12.49   0.1
AUE      0.67  83 iPc    35 12.75  -0.1
OPT      0.82  63 iPc    35 15.30  -0.5
IVS      1.08  47 eP     35 18.65  -1.8
```

21d 18h

INW	1.11	44	iPc	35	18.77	-1.9				e	01	58.06						e	17	58.00		
			iS	35	33.45		TBH	0.54	193	iP	01	47.63	0.1	MEO	41.61	311	iPd	09	11.30	-2.9X
INE	1.13	46	iPc	35	19.14	-2.0	TRN	0.58	231	iPc	01	48.56	0.7	SCH	43.94	355	eP	09	34.00	1.1
			iS	35	33.99					eS	01	59.56		PEL	44.88	192	iPc	09	39.50	-1.2
SYI	1.36	119	ePd	35	23.27	-1 7	TPP	0.86	216	eP	01	52.54	1.9	PCH	45.31	191	iPd	09	43.70	-0.5
			eS	35	41.66		TCE	0.86	249	iP	01	52.37	1.6	LCCH	45.38	193	eP	09	44.00	-0.6
RED	1.49	39	iPc	35	25.50	-1 4	GRW	1.34	328	eP	01	58.17	1.5	TACH	45.43	192	eP	09	44.50	-0.5
			eS	35	45.11		SVB	2.26	352	eP	02	09.82	0.8	CHCH	45.64	191	iPc	09	45.60	-1.1
RS1	1.52	38	iPc	35	26.32	-1.2	SOA	2.35	355	eP	02	11.03	0.9	LNV	45.82	192	eP	09	47.00	-1.0
RDW	1.52	37	iPc	35	26.27	-1.2	BDH	2.54	31	eP	02	13.98	1.1	ALQ	47.67	308	eP	10	02.00	-1.0
RS2	1.52	38	iPc	35	26.38	-1.2				eS	02	18.47			1.0s	12.25nm			4.8mb	
RSO	1.52	39	iPc	35	26.34	-1.2	SLB	2.80	358	eP	02	16.78	0.4	DAU	53.04	313	P	10	43.00	-0.8
NCT	1.55	34	iPc	35	26.85	-1.0	BIM	3.48	358	iPd	02	26.26	0.4	GLA	53.91	303	P	10	49.70	-0.3
			eS	35	47.29		MVM	3.52	1	iPd	02	26.37	0.1	DUG	54.10	312	P	10	50.20	-1.2
RDN	1.56	37	iPc	35	26.99	-1.0	FDF	3.70	357	iPd	02	29.16	0.3	LIC	55.42	90	P	10	59.70	-1.5
REF	1.56	39	iPc	35	26.85	-1.2		0.2s		2.40nm				Z	20s	0.08um			3.8Msz	
HOM	1.59	75	iPc	35	27.81	-0.4				S	03	11.50		KIC	55.68	90	P	11	01.34	-1.8
			S	35	48.30		CRM	3.72	0	iPd	02	28.89	-0.1	LRM	55.74	319	eP	11	02.80	-0.6
DFR	1.65	36	ePc	35	28.29	-0.9				S	03	10.10		GSC	55.96	305	eP	11	04.00	-0.9
RDT	1.72	40	iPc	35	29.58	-0.7	PCM	3.79	356	iPd	02	30.14	0.1	SBB	56.67	304	eP	11	09.00	-1.0
			eS	35	51.85					eS	03	14.93		CLC	56.69	306	eP	11	09.00	-1.1
CNPM	1.77	81	iPc	35	30.10	-0.8	BBL	4.51	353	ePd	02	40.17	0.0	SES	56.71	324	eP	11	10.00	0.0
			eS	35	53.52		GUAN	4.75	258	iP	02	46.59	3.0X	BONR	57.67	308	P	11	16.50	-0.7
NNL	1.87	65	ePc	35	32.38	0.0				e	03	22.80		TOL	57.73	50	eP	11	18.00	0.7
KDC	1.92	143	eP	35	33.60	0.6	MGG	4.89	356	eP	02	45.20	-0.2	ABL	57.83	304	P	11	17.70	-0.6
CKL	2.24	30	ePc	35	37.06	-0.8				S	03	40.00		ORV	60.43	309	P	11	35.20	-0.7
BGL	2.29	29	eP	35	37.79	-0.7	PAG	5.04	352	ePd	02	47.95	0.4	VGB	61.20	316	P	11	40.90	-0.2
SPU	2.31	33	ePc	35	37.78	-0.9				S	03	45.00		BTH	61.27	47	e(P)c	11	33.00	-8.5X
			S	36	08.05		SFG	5.21	357	eP	02	49.10	-0.8				ipP	12	02.00	119kmX
CGLM	2.42	32	ePc	35	39.66	-0.7	DEG	5.27	359	eP	02	48.50	-2.2				sP	12	09.00	
NCG	2.46	29	eP	35	40.38	-0.6	SEG	5.38	354	ePd	02	52.50	0.2	EPF	61.64	47	eP	11	44.80	0.7
SLKM	2.55	59	iPc	35	41.38	-0 8	OLLA	5.85	261	iP	02	57.70	-1.2		0.8s	3.35nm			4.5mb	
			S	36	13.04					eS	04	00.40		LFF	62.33	45	eP	11	48.60	0.0
SEW	2.77	71	ePc	35	45.56	0.3	CAR	5.91	266	eP	02	58.50	-1.2		1.2s	17.85nm			5.0mb	
			eS	36	20.19					eS	04	07.00		FLN	62.44	40	eP	11	49.20	0.0
SUA	2.93	40	ePc	35	46.86	-0.7	BPA	6.06	352	ePd	03	01.20	-0.5		0.8s	6.70nm			4.7mb	
SKT	3.11	28	ePc	35	49.34	-0.8				S	04	08.00		Z	22s	0.08um			3.8Msz	
PMS	3.21	50	eP	35	52.20	0.6	CPB	6.64	353	eP	03	08.36	-1.3	LPO	62.58	45	eP	11	50.20	-0.1
PWA	3.35	43	eP	35	54.20	0.7	MORO	7.25	270	eP	03	12.10	-6 0X		1.0s	8.00nm			4.7mb	
LTI	3.54	75	eP	35	56.70	0.6				eS	04	37.30		LSF	63.15	44	eP	11	54.10	0.1
PLRM	3.59	48	eP	35	56.82	0.0	CEOS	7.55	256	iP	03	19.70	-2.5X		0.8s	3.35nm			4.4mb	
PMR	3.59	48	eP	35	57.30	0.5				eS	04	42.50		CAF	63.24	45	eP	11	54.70	0.0
KNIM	3.66	70	eP	35	56.34	-1 5	SJG	8.67	325	iP	03	37.50	-0.2		1.0s	7.00nm			4.6mb	
TTA	3.71	350	eP	35	55.80	-2.9	LPR	8.68	327	P	03	37.80	0.0	TCF	63.62	44	eP	11	56.90	-0.2
KNK	3.75	53	eP	35	58.05	-1.2	TOV	8.80	263	eP	03	37.50	-1.9		1.0s	6.00nm			4.5mb	
GHO	3.78	46	eP	35	59.30	-0.4				iS	05	15.80		MAF	63.85	44	eP	11	58.20	-0.4
CUT	3.80	33	eP	35	59.86	0.0	MGP	9.15	320	P	03	45.20	1.1		1.2s	5.95nm			4.4mb	
KLU	4.87	59	ePc	36	12.90	-2.2	APR	9.27	324	P	03	47.00	1.2	YKA	64.01	335	eP	11	58.40	-0.9
TOA	5.04	52	eP	36	17.40	-0.1	MCP	9.48	322	P	03	49.10	0.5		0.7s	6.30nm			4.7mb	
SDG	5.51	50	eP	36	20.69	-3.5	SDV	9.78	258	iPc	03	48.60	-4.3X	BGF	64.11	43	eP	12	00.10	-0.2
PAX	5.79	46	ePc	36	26.87	-1.2				eS	05	29.50			1.1s	9.75nm			4.6mb	
IMA	6.82	3	eP	36	39.90	-2.8	HOBC	16.44	247	ePd	05	21.05	1.1	AVF	64.50	43	eP	12	02.20	-0.6
	52 obs. associated						BUGC	16.75	246	eP	05	23.60	-0.2		1.0s	7.00nm			4.5mb	
							CLMC	17.03	247	eP	05	28.27	1.0	SSF	64.65	43	eP	12	03.30	-0.5
SEP 21, 1991 19h 01m 32.80± 0.27s							HOQC	17.27	245	ePc	05	30.01	-0.4		1.0s	4.00nm			4.3mb	
11 014 N ± 2.5km 60.938 W ± 3.2km							ANCC	17.46	246	ePc	05	32.72	0.3	SMF	64 80	44	eP	12	04.50	-0.3
DEPTH = 84.2 ± 2.5 km							PURC	17.57	242	eP	05	35.74	1.4		1.0s	10.00nm			4.7mb	
4.6mb (32 obs.)							CUMC	19.56	240	ePc	05	57.21	-0.1	LOR	64.93	43	eP	12	04.90	-0.7
WINDWARD ISLANDS						(95)	SIV	26.83	180	P	07	05.40	-1.9		1.0s	5.00nm			4.4mb	
MD 4.9 (TRN) Felt (II) on Martinique. Also felt on Trinidod, Tobogo ond St Vincent.							NNA	27.78	215	iP	07	16.50	0.5	Z	22s	0.10um			4.0Msz	
								1.7s	65.38nm			5.0mb		LBF	64.95	43	eP	12	05.00	-0.8
							ZOBO	28.02	195	P	07	18.80	0.1		1.2s	8.95nm			4.6mb	
CENTROID, MOMENT TENSOR (HRV)										i	07	41.50		FRF	66.27	47	eP	12	14.10	-0.1
Dota Used: GDSN										LR	15	12.00			0.8s	5.35nm			4.5mb	
L.P.B.: 22S, 40C							LPB	28.27	195	P	07	21.80	1.0	LPL	66.59	45	eP	12	17.00	0.5
Centroid Locotion:										LR	14	04.00			1.0s	6.00nm			4.5mb	
Origin Time 19:01:33 1 0.5							SOB1	28.30	134	eP	07	21.00	0.3	LPG	66.60	45	eP	12	17.40	0.7
Lot 11.18N 0.04 Lon 60.57W 0.07										e	07	42.20			1.2s	8.95nm			4.6mb	
Dep 50.2 4.4 Half-duration 1.7							CNCB	28.51	194	P	07	23.80	0.7	BSF	66.99	43	eP	12	18.00	-0.8
Moment Tensor: Scale 10**16 Nm										i	12	46.00			0.6s	3.60nm			4.5mb	
Mrr= 5.26 0 46 Mtt=-7.67 0 57							CCH	28.68	190	P	07	26.00	1.7	CDF	67.40	42	eP	12	20.80	-0.6
Mff= 2.42 0.82 Mrt=-6.46 0.74							BAO	29 42	154	e(P)	07	30.00	-0.8		1.0s	8.00nm			4.6mb	
Mrf= 2.41 0.69 Mtf=-3.67 0.52										e	13	34.00		GRF	70.14	41	eP	12	38.40	0.2
Principol Axes:							NA2	30.91	334	P	07	42.80	-0.8				e	12	45.70	
T Vol= 9.79 Plg=53 Azm=229							TBR	32.21	341	P	07	55.70	0.8				e	12	57.90	
N 1.04 30 90							GBTN	32.37	323	P	07	57.30	0.9				e	13	01.50	
P -10.84 20 348							PPD	34.17	164	eP	08	11.40	-0.7	WTTA	70.17	44	e(P)	12	36.50	-2.1
Best Double Couple:Mo=1.0*10**17							PWLA	34.32	318	P	08	13.10	-0.2		1.4s	20.80nm			4.8mb	
NP1:Strike= 39 Dip=36 Slip= 33							FVM	37.66	320	P	08	40.90	-0.6				i	12	56.70	
NP2: 281 71 122								1.0s	25.00nm			5.1mb		CLL	71.44	40	iPc	12	45.80	-0.2
							UYO	38.30	312	iPd	08	45.90	-1 0		1.6s	16.00nm			4.7mb	
							TUL	40.10	314	eP	08	59.60	-2.2	KHC	71.62	42	iP	12	47.10	-0.1
PIG	0.17	33	iP	01	44.64	-1 6		1.0s	13.40nm			4.8mb			1.4s	11.00nm			4.6mb	
TPR	0.23	43	iP	01	44.52	-0.9	Z	20s	0.31um			4.2Msz					e	13	06.50	
			eS	01	51.10		N	16s	0.13um					VOY	71.63	45	eP	12	47.00	-0.3
BOT	0.26	55	iP	01	44.27	-1.2	E	16s	0 21um								e	13	06.90	
			eS	01	50.77					e	10	52.00		NB2	71.80	29	P	12	48.60	0.6

	0.9s	9 10nm		4.7mb		
CEY	71.99	45 eP	12 49 40	0.0		
BRG	72.00	40 eP	12 49.20	-0.1		
	1.1s	12 00nm		4.7mb		
		e	13 08.20			
LJU	72.08	45 eP	12 50.00	0.1		
MBC	72.10	348 eP	12 51.00	1.5		
	0.6s	19 00nm		5.2mb		
		pP	13 00.50	30kmX		
PRU	72.31	41 P	12 51.60	0.5		
		e	12 59.60			
		e	13 11.10			
VBY	72.56	46 eP	12 53.40	0.7		
		e	13 12.30			
APO	73.04	30 eP	12 54.20	-1.0		
	0.6s	3 60nm		4 4mb		
	Z 16s	0.00um		1.2MszX		
		LR	41 14.00			
INK	73.41	338 eP	12 57.00	-0.2		
KSP	73.48	40 eP	13 05 00	7.0X		
ZST	73.91	43 eP	13 00.60	0.1		
SRO	74.71	43 iP	13 05.50	0.4		
UPP	74.81	31 iP	13 05.50	0.1		
UZD	74.89	45 eP	13 07.00	0.8		
KRA	75.79	41 eP	13 12.30	1.1		
		e	13 19.80			
SKO	77.08	49 i(PKP)	13 19.00	0.4		
		i	13 39.00			
KKB	78.31	49 iPc	13 27.00	1.6		
NUR	78.33	30 eP	13 25.00	0.0		
		e	13 38.00			
FBA	78.78	334 P	13 28.20	0.7		
	1.0s	17.50nm		4.9mb		
KAF	79.06	29 eP	13 29.90	0.9		
MLR	80.07	45 eP	13 36.00	1.0		
VRI	80.57	45 ePc	13 38.00	0.5		
IMA	81 13	336 eP	13 41.90	1.7		
OBN	85.34	35 iPd	14 03.00	1.4		
		i	14 23.00			
		i	14 33.00			
		e	14 41.00			
		e	15 09.00			
		LR	43 10.00			
GTA	126.73	19 ePKP	20 29.00	0.3		
HHC	127.94	7 ePKP	20 32.50	1.6		
GKN	128.86	40 PKP	20 33.60	0.5		
BJI	129 14	3 ePKP	20 34.00	1.0		
MAT	129.38	340 (PKP)	20 34.00	0.4		
KKN	129.42	40 PKP	20 30.60	-3.6X		
PKI	129.65	40 PKP	20 30.60	-4.2X		
GUN	129.70	39 PKP	20 37.20	2.3		
LZH	131.00	16 ePKP	20 39.50	2.6X		
TIY	131.13	7 ePKP	20 38.40	1.4		
ARMA	144.13	233 ePKP	21 01.00	-0.1		
CHG	144.33	34 ePKP	21 00.20	-1.4		
CHTO	144.33	34 iPKP	21 00.00	-1.6		
	1.0s	6 25nm				
NST	147.53	36 ePKP	21 12.00	5.1X		
CMS	147 95	226 ePKP	21 11 00	3.8X		
RMO	148 06	237 ePKP	21 20.00	12.4X		
		i	21 23 00			
STK	150 61	222 ePKP	21 13.10	1.8		
	1 4s	4 50nm				
		i	21 17.70			
		e	21 38.30			
CTAO	152.33	248 iPKPd	21 16.20	2.0		
		i	21 22.30			
		i	21 32.50			
		i	21 44 00			

S.D. = 1 0 on 139 of 152 obs

? SEP 21, 1991 19h 21m 58 11± 6.02s
38.807 N ±40.5km 23 974 E ±31 6km
DEPTH = 5 0km (geophysicist)
GREECE (364)

PAIG	1 14	349 ePd	22 20.17	0.2		
		iS	22 36 93			
AGG	1 30	280 ePd	22 22.82	0.1		
		iS	22 37.89			
OUR	1.53	0 iPc	22 26.14	0.1		
LIT	1 73	319 iPd	22 28.70	-0.3		
		iS	22 49.93			
SOH	2 07	347 ePd	22 33.85	-0 1		
SRS	2.33	353 ePc	22 37 42	-0.2		
KNT	2 49	341 ePc	22 40.02	0.0		
		iS	23 05 85			

S.D. = 0.3 on 7 of 7 obs.

& SEP 21, 1991 19h 52m 27.75s
57.764 N 142.836 W
DEPTH = 10 0km (geophysicist)
GULF OF ALASKA (15)
<AEIC>. ML 2.5 (AEIC).

PNL	2.62	42 eP	53 05.26	-5.6		
YAH	2.67	12 iP	53 06.35	-5.4		
		S	53 36.16			
HON	2.68	49 eP	53 05.87	-5.8		
		S	53 36.54			
PCA	2.69	29 eP	53 06.59	-5.4		
BCPM	2.75	36 iP	53 07.32	-5.4		
		S	53 38.10			

5 obs. associoted

SEP 21, 1991 20h 19m 21.09± 0.49s
38.049 N ± 3.9km 134.559 E ± 4.0km
DEPTH = 414.2 ± 4.8 km
4.8mb (74 obs.)
SEA OF JAPAN (660)

MAT	3.28	116 iPd	20 27.20	-1.0		
		eS	21 20.00			
MDJ	7.55	332 iPc	21 12.30	0.3		
	1.0s	380.00nm		5.6mb		
		S	22 42.00			
CN2	8.97	313 iPc	21 28.40	0.2		
	3.0s	400.00nm		5.2mb		
		esP	22 49.00			
		S	23 13.00			
SNY	9.24	298 iPd	21 32.70	1.4		
	1.0s	120.00nm		5.2mb		
		eS	23 19.00			
DL2	10.18	279 Pd	21 43.00	0.9		
	3.0s	800.00nm		5.6mb		
		S	23 37.50			
SSE	13.01	242 Pd	22 15.00	1.2		
	1.1s	46.00nm		4.8mb		
		S	24 36.00			
TIA	14.03	268 Pd	22 24.80	0.1		
		S	24 57.70			
NJ2	14 18	250 Pd	22 25.50	-0.8		
	1.2s	100.00nm		5.1mb		
BJI	14.43	284 eP	22 27.50	-1.4		
	1.5s	210.00nm		5.4mb		
		eS	25 00.00			
TIY	17.47	276 Pd	22 59.30	-0.9		
	1.0s	50.00nm		4.9mb		
		S	26 01.00			
HHC	17.97	286 P	23 04.00	-1.2		
	1.2s	40.00nm		4.7mb		
WHN	18.28	252 eP	23 10.50	2.4		
BTO	19.14	285 eP	23 15.00	-1.6		
XAN	21.09	267 iPd	23 35.00	-0.4		
	0.5s	70.00nm		5.4mb		
YAK	24.18	354 iP	24 03.10	-0.5		
		e	25 06.00			
		e	27 45.00			
		e	29 25.00			
		e	34 13.00			
LZH	24.53	275 eP	24 08.50	1.2		
	1.5s	113.00nm		5.1mb		
	Z 14s	0.24um		3.8MszX		
		i	24 28.00			
GYA	26.17	252 P	24 21.20	-0.8		
	0.8s	50.00nm		5.0mb		
		S	28 23.40			
CD2	26.29	264 P	24 21.60	-1.3		
	0.3s	40.00nm		5.3mb		
GTA	27.04	284 iPd	24 28.80	-0.8		
		pP	25 43.40			
		PcP	27 38.40			
		S	28 35.00			
WMO	35.49	295 P	25 42.00	0.0		
CHG	36.42	248 ePd	25 51.00	1 1		
	0.8s	43.10nm		4.9mb		
		e	28 04.50			
LSA	36.72	270 P	25 51.60	-1.2		
SHL	38.03	264 iP	26 02 50	-0 8		
		eS	31 18.00			
KHT	39.31	244 eP	26 15.20	1.6		
GUN	41.66	271 P	26 33.28	0 2		
	0.4s	71.00nm		5.4mb		
PKI	42.18	271 P	26 37 00	-0 3		

	0.6s	53.00nm		5.1mb		
KKN	42 19	271 P	26 37.34	0.2		
	0.6s	150.00nm		5.6mb		
DMN	42.41	271 P	26 39.04	0.1		
	0.3s	50.00nm		5.3mb		
GKN	42.60	272 P	26 40.50	0.1		
	0 6s	146.00nm		5.5mb		
SNG	43.44	234 eP	26 48.00	1.2		
IMA	48.61	31 iPc	27 27.40	0.9		
	0 5s	4.30nm		4.1mb		
MTN	50.73	184 eP	27 42.30	-0.3		
	0.5s	26.00nm		4.8mb		
PMR	51.07	37 eP	27 44.50	-0.2		
	0.7s	6.50nm		4.1mb		
FBA	51.16	32 ePc	27 46.30	1.0		
	1.2s	20.60nm		4.3mb		
TOA	52.35	36 eP	27 55.40	1.1		
HNR	52.86	148 eP	27 58.00	-0.3		
GBA	55.93	260 Pc	28 20.70	0.5		
	0.8s	36.80nm		4.8mb		
INK	55.95	27 P	28 19.00	-0.7		
	0.2s	1.40nm		3.9mb		
MBC	57.07	16 ePd	28 27.00	-0.4		
	0.5s	13.00nm		4.6mb		
WR2	57.69	180 iPd	28 31.40	-0.8		
	0.3s	7.40nm		4.6mb		
		e	29 20.00			
KOD	57.96	257 eP	28 34.40	-0.2		
MAIO	58.26	293 iPd	28 36.40	0.2		
OIS	58.49	174 iPc	28 36.80	-0.8		
KEV	60.50	338 eP	28 50.00	-0.7		
MBL	60.50	196 eP	28 50.50	-0.6		
ASPA	61.39	181 iPc	28 56.80	-0.2		
	0.7s	6.40nm		4.3mb		
SOD	61.84	335 iP	28 58.80	-0.8		
OBN	63.93	321 iPd	29 12.50	-0.7		
	1.2s	******nm		7.7mb X		
WARB	64.32	188 iPc	29 16.60	0.7		
KAF	64.82	330 iP	29 17.90	-0.9		
	0.4s	16.80nm		5.0mb		
YKA	65.59	28 eP	29 23.00	-0.6		
	0.6s	2.20nm		4.0mb		
NUR	66.40	329 iP	29 27.80	-0.9		
	0.6s	19.60nm		5.0mb		
FORR	68.81	186 eP	29 43.40	-0.2		
	0.3s	14.00nm		5.1mb		
UPP	69.55	331 iP	29 46.90	-1.0		
APO	70.45	333 eP	29 54.50	1.2		
	0.5s	32.80nm		5.2mb		
NB2	71.04	335 P	29 56.20	-0.6		
	0.6s	9.90nm		4.6mb		
BSD	73.86	329 iPd	30 12.00	-1.1		
	0.7s	15.00nm		4.7mb		
VRI	74.33	316 ePc	30 17.50	1.6		
KRA	75.09	323 iPd	30 20.60	0.5		
	0.5s	27.00nm		5.2mb		
SPC	75.53	322 iP	30 22.70	-0.1		
FFC	75.68	30 eP	30 23.00	-0.3		
	0.7s	12.00nm		4.7mb		
KSP	76.26	325 iPd	30 26.60	0.1		
HRI	76.48	302 iPd	30 28.70	0.5		
LRM	77.11	41 eP	30 32.40	0.7		
BRG	77.28	326 iP	30 32.30	0.1		
	1.5s	28.00nm		4.7mb		
CLL	77.38	327 iPd	30 32.70	0.0		
SRO	77.41	322 eP	30 33.20	0.3		
DIM	77.42	314 iP	30 34.00	1.0		
JVI	77.55	301 iPd	30 34 60	0.6		
PRU	77.65	325 Pd	30 34.80	0.6		
ZST	77.73	323 eP	30 35.40	0.8		
		e	47 14.70			
KDZ	77.74	314 iP	30 35.00	0.2		
PLD	77.85	314 iP	30 36.00	0.6		
RZN	78.12	314 iP	30 37.00	-0.1		
VTS	78.37	315 iP	30 39.00	0.6		
MOX	78.47	327 iPc	30 39.00	0.4		
	1.6s	23.00nm		4.6mb		
KHC	78.71	325 eP	30 40.00	0.1		
MMB	78.74	314 iP	30 41.00	0.8		
PRNI	78.75	300 iPd	30 40.90	0.5		
KkB	78.92	315 iP	30 37.00	-4.1X		
GRF	79.34	326 iPd	30 44.30	1.1		
	1.8s	88.00nm		5.2mb		
WTS	79.42	330 eP	30 44.00	0.5		
	0.5s	5.00nm		4.5mb		
SKO	79.76	316 eP	30 46.50	1.0		
EKA	80.22	337 P	30 48.00	0.4		

21d 20h

0.7s 10.40nm 4.6mb
FUR 80.45 325 iPd 30 49.90 0.9
0.7s 19.00nm 4.9mb
ENN 80.73 330 eP 30 50.00 -0.3
0.6s 19.00nm 5.0mb
WTTA 80.96 325 iPd 30 52.10 0.2
0 5s 8.30nm 4.7mb
i 30 59.40
SNF 81.58 330 iPd 30 54.68 0.0
DOU 81.78 330 P 30 55.70 -0.1
CDF 82.01 328 eP 30 57.10 0.0
0.8s 10.75nm 4.6mb
BSF 82.66 328 eP 31 00.10 -0.4
0.6s 3 60nm 4.3mb
HAU 82.71 328 eP 31 00.30 -0.3
0.6s 3.60nm 4.3mb
SFI 83.34 322 Pd 31 05.10 1.3
PGD 83.44 322 Pd 31 06.00 1.5
CRE 83.51 322 Pd 31 05.50 0.7
MME 83.69 323 Pd 31 06.80 0.9
ORX 83.85 325 P 31 05.24 -1.2
TDS 84.15 317 P 31 08.90 1.0
LOR 84.33 329 eP 31 08.30 -0.4
0.6s 5.40nm 4.5mb
LSD 84.35 326 P 31 09.96 0.8
PCP 84.43 324 P 31 09.14 -0.2
LPL 84.49 326 eP 31 10.20 0.4
0.6s 10.80nm 4.8mb
LPG 84.50 326 eP 31 10.40 0.4
0.6s 14.45nm 4.9mb
LBF 84.51 329 eP 31 09.60 -0.1
0.6s 4.50nm 4.4mb
RSP 84.54 326 P 31 09.65 -0.3
SSF 84.64 329 eP 31 09.90 -0.3
0.6s 3.60nm 4.3mb
FLN 84.81 332 eP 31 10.40 -0.6
0.5s 8 00nm 4.8mb
LDF 84.81 332 eP 31 10.50 -0.6
0.6s 7.20nm 4.6mb
SMF 84.83 328 eP 31 11.20 0.0
1.0s 14.00nm 4.7mb
FIN 84.84 324 P 31 10.06 -1.3
BNI 84.88 326 Pd 31 11.80 0.2
AVF 84.92 329 eP 31 11.30 -0.3
1.0s 16.00nm 4.8mb
ROB 84.93 325 P 31 10.57 -1.2
RRL 84.93 326 P 31 11.91 -0.1
PZZ 85.11 325 P 31 12.62 -0.2
ENR 85.19 325 P 31 11.60 -1.5
STV 85.22 325 P 31 10.88 -2.4
IMI 85.22 324 P 31 11.91 -1.3
GRR 85.26 332 eP 31 12.80 -0.4
0.4s 8.00nm 4.9mb
BGF 85.31 329 eP 31 13.60 0.0
1.2s 17.85nm 4.7mb
SOI 85.44 316 P 31 15.00 0.7
SBF 85.46 325 eP 31 13.60 -0.8
0.6s 16 25nm 5.0mb
LPF 85.62 332 eP 31 14.90 -0.1
0.6s 15 35nm 5.0mb
MAF 85.70 329 eP 31 15.90 0.4
1.0s 13.00nm 4.7mb
PGF 85.74 323 eP 31 15.20 -0.7
0.6s 5.40nm 4.5mb
TCF 85 79 329 eP 31 15.90 0.0
0.5s 3.65nm 4.4mb
FRF 86.06 325 eP 31 16.30 -0.9
0.6s 4.50nm 4 4mb
LSF 86.10 329 eP 31 17.00 -0.4
0.5s 3 65nm 4.4mb
LRG 86.27 325 eP 31 17 80 -0.4
0 4s 6.85nm 4 8mb
LMR 86.29 325 eP 31 17 80 -0.5
0.6s 10 80nm 4.8mb
MFF 86.47 331 eP 31 19 10 0.0
0.6s 5.40nm 4.5mb
CAF 86.96 328 eP 31 21.60 0.1
0.6s 2.70nm 4.2mb
LFF 87.49 329 eP 31 24.30 0.3
0.6s 9.00nm 4.8mb
LPO 87.52 329 eP 31 24.10 -0.1
0 4s 2.30nm 4 3mb
ALQ 87.96 46 eP 31 28.00 1.3
1.2s 5 08nm 4.2mb
EPF 89.22 328 eP 31 32 30 0.0
0.8s 4.05nm 4.3mb
SLR 117.69 258 ePKP 37 19.50 -1.0
TIC 121.77 311 PKPd 37 27.72 -0.7
0.4s 4.00nm
KIC 121.83 310 PKPd 37 27.98 -0.5
0.6s 6.00nm
LIC 122.11 310 PKPd 37 28.38 -0 7
0.6s 4.50nm
ZOBO 150.52 49 PKP 38 22.00 1.0
i 38 27.20
LPB 150.74 49 PKP 38 28.30 7.2X
SOB1 151.00 351 ePKP 38 25.70 4.6X
CNCB 151.02 49 PKP 38 24.00 2.3
i 38 29.80
S.D. = 0.8 on 141 of 144 obs.

? SEP 21, 1991 22h 09m 18.93± 4.64s
10.871 N ±16.9km 62.329 W ±42.3km
DEPTH = 33.0km (normal)
NEAR COAST OF VENEZUELA (97)
MD 2.9 (TRN).

TCE 0.59 107 eP 09 31.36 0.5
eS 09 41.27
TRN 0.94 104 eP 09 35.69 0.0
eS 09 48.29
TPP 1.02 122 eP 09 36.80 -0.2
eS 09 49.80
TBH 1.30 107 eP 09 40.70 -0.2
eS 09 56.80
GRW 1.44 27 eP 09 43.02 0.0
eS 10 01.52
BOT 1.61 79 eP 09 45.20 -0.2
eS 10 04.39
S.D. = 0.3 on 6 of 6 obs.

SEP 21, 1991 22h 20m 23.36± 0.52s
33.998 N ± 9.2km 25.636 E ± 4.7km
DEPTH = 10.0km (geophysicist)
4.0mb (7 obs.)
EASTERN MEDITERRANEAN SEA (371)
ML 4.1 (CSS).

NPS 1.26 359 ePn 20 40.00 -6.8X
eSn 21 09.00
VLI 3.50 322 ePn 21 19.00 0.1
ELL 4.44 51 iPn 21 33.00 0.6
BCK 5.31 48 ePn 21 44.00 -0.6
CSS 6.43 79 eP 22 00.70 0.3
eS 23 07.50
KOT 6.64 126 ePn 22 04.00 0.6
ZNT 8.07 100 eP 22 23.50 0.0
eS 23 46.70
SAGI 8.53 114 eP 22 28.70 -1.2
eS 23 57.40
SOI 8.76 300 P 22 32.80 -0.1
eSn 23 58.40
LCI 8.81 318 P 22 30.10 -3.5X
eSn 23 59.30
CZI 9.24 307 P 22 39.50 -0.1
MEU 9.26 293 P 22 40.20 0.3
eSn 24 14.30
TDS 9.35 310 P 22 40.70 -0.4
BRT 9.59 318 P 22 41.70 -2.8X
SGO 10.51 312 P 22 55.50 -1.6
LBF 20.88 315 eP 25 08.70 0.7
0.6s 2.25nm 3.7mb
LOR 21.10 315 eP 25 11.60 1.4
0.6s 1.80nm 3.6mb
SSF 21.20 315 eP 25 11.20 0.0
0.6s 2.70nm 3.8mb
BGF 21.35 313 eP 25 15.60 2.8X
0.6s 3.60nm 3.9mb
LDF 24.08 315 eP 25 39.50 -0.1
0.5s 2.90nm 4.1mb
FLN 24.37 315 eP 25 42.60 0.2
0.4s 3.45nm 4.3mb
LPF 24.38 313 eP 25 42.50 0.0
0.4s 2.30nm 4.2mb
S.D. = 0.7 on 18 of 22 obs.

• SEP 21, 1991 22h 44m 48.78± 1.16s
40.076 N ±13.5km 25.284 E ± 5.9km
DEPTH = 10 0km (geophysicist)
AEGEAN SEA (365)

ALN 1.00 35 iPc 45 07.85 0 1
OUR 1.03 285 iPd 45 08.34 0 1
PAIG 1.24 264 iPd 45 10.46 -1.4
KDZ 1.58 4 iP 45 16.00 -0.8
SOH 1 65 297 ePd 45 19.90 1.9
eS 45 45.86
SRS 1.66 309 iPc 45 18.65 0.7
iS 45 46.02
RZN 1.67 345 iP 45 18.00 -0.3
MFT 1.68 64 ePn 45 17.50 -0.9
MMB 1.92 322 eP 45 25.00 3.2X
EDC 1.99 81 ePn 45 24.00 1.1
KNT 2.12 302 ePc 45 24.21 -0.5
eS 46 00.30
KKB 2.44 318 eP 45 35.00 5.6X
DMK 2.56 46 ePn 45 38.00 7.0X
CTT 2.62 65 ePn 45 35.00 3.1X
YLV 3.16 80 ePn 45 36.50 -3.1X
IZI 3.22 84 eP 45 44.00 3.6X
S.D. = 1.1 on 10 of 16 obs.

& SEP 21, 1991 22h 45m 30.14s
61.228 N 158.592 W
DEPTH = 10.0km (geophysicist)
SOUTHERN ALASKA (2)
<AEIC>. ML 2.7 (AEIC).

SVW 1.44 93 eP 45 54.78 -1.6
S 46 13.22
TTA 2.10 34 eP 46 03.78 -2.0
S 46 29.68
NCT 2.85 101 eP 46 13.29 -3.3
RDW 2.93 102 eP 46 14.78 -3.0
RDN 2.94 102 eP 46 14.74 -3.1
RS2 2.96 102 eP 46 15.69 -2.5
RS1 2.96 103 eP 46 15.59 -2.6
RSO 2.96 102 eP 46 15.79 -2.4
REF 2.98 102 eP 46 14.59 -3.8
BGL 3.00 87 eP 46 16.27 -2.4
RDT 3.09 100 eP 46 16.92 -3.0
NCG 3.11 84 eP 46 16.90 -3.3
SKT 3.46 74 eP 46 21.35 -3.7
13 obs. associated

? SEP 21, 1991 23h 16m 48.75± 9.72s
37.877 N ±78.1km 7.216 E ±24.8km
DEPTH = 33.0km (normal)
WESTERN MEDITERRANEAN SEA (387)
ML 3.6 (LDG).

PGF 4.86 16 Pn 18 02.40 0.9
Sn 19 00.80
LMR 5.48 355 Pn 18 10.40 0.3
Sn 19 13.60
LRG 5.61 354 Pn 18 12.00 0.0
Sn 19 17.00
FRF 5.69 356 Pn 18 13.30 0.1
Sn 19 19.00
SBF 5.98 2 Pn 18 18.00 0.6
Sn 19 27.20
IMI 6.05 5 P 18 16.71 -1.6
ENR 6.35 1 P 18 21.32 -1.2
STV 6.36 1 P 18 21 42 -1.3
FIN 6.37 6 P 18 22.86 0.1
ROB 6.43 4 P 18 23.78 0.1
PZZ 6.62 359 P 18 26.55 0.1
PCP 6.73 8 P 18 27.68 -0.2
RRL 7.04 358 P 18 32.80 0.4
RSP 7.27 0 P 18 35.78 0.4
EPF 7.35 317 Pn 18 36.20 -0.3
LPG 7.62 358 Pn 18 41.60 1.1
CAF 8.03 333 Pn 18 46.40 0.3
S.D. = 0.8 on 17 of 17 obs.

• SEP 21, 1991 23h 23m 50.74± 2.81s
42.861 N ±23.4km 6.320 E ± 5.2km
DEPTH = 10.0km (geophysicist)
WESTERN MEDITERRANEAN SEA (387)

TAVF 0 78 346 P 24 06 52 0.6
PUYF 0.81 326 P 24 06.59 0.1
GELF 0.84 309 P 24 06.18 -0.7
CDR 0.91 334 eP 24 06.70 -1.4
e 24 07.90
e 24 10.00
e 24 21.70
CALN 0.98 25 P 24 10.17 0.7
TREF 1.02 318 P 24 10.52 0.4
VILF 1 09 336 P 24 11.40 0.2
MVIF 1.20 30 P 24 13.77 0.6

```
AURF     1 26  35 P      24 14.59    0.3
PRAF     1.26 319 P      24 15.01    0.8
TOUF     1.34  30 P      24 13.55   -1.9
AUTN     1.39  35 P      24 14.16   -2.2
SAOF     1.44  38 P      24 17.68    0.8
IMI      1.55  47 P      24 18.36   -0.1
STV      1.56  27 P      24 19.12    0.4
ENR      1.58  30 P      24 18.53   -0.4
PZZ      1 74  19 P      24 21 92    0.6
ROB      1.82  38 P      24 22.76    0.3
FIN      1.92  45 P      24 28.35    4.5X
RRL      2.09   9 P      24 29.11    2.7X
PCP      2.33  43 P      24 30.72    1.0
RSP      2.39  16 P      24 24.12   -6 5X
     S.D  = 1.0  on  19 of  22 obs.
-----------------------------------------
?  SEP  22, 1991   00h 11m 21.61± 4.46s
   3.593 N ±58.5km    76.201 W ±75.7km
   DEPTH = 110.0km  (geophysicist)
 COLOMBIA                          (103)
     MD 2.7 (UVC).

HOOC     0.45 254 eP     11 38.77    0.1
                 eS     11 52.90
CLMC     0.46 308 eP     11 38.85    0.2
                 eS     11 53.10
ANCC     0.67 263 ePc    11 39.82   -0.2
                 eS     11 54.80
HOBC     0.76   5 eP     11 40.79   -0.1
     S.D. = 0.3  on   4 of   4 obs.
-----------------------------------------
?  SEP  22, 1991   00h 11m 54.90± 8.67s
   18.600 N ±37.5km    68.100 W ±56.9km
   DEPTH =  10.0km  (geophysicist)
 MONA PASSAGE                      ( 89)

MCP      0.96 101 P      12 12.40   -0.7
MGP      1.13 121 P      12 15.20   -0.8
LRS      1.23 104 P      12 18.00    0.2
APR      1.31  96 P      12 18.30   -0.8
CLLP     1.54 109 P      12 22.10   -0.3
                 S      12 55.60
SJG      1.91 104 iP     12 27.40   -0.5
     S.D. = 0.5  on   6 of   6 obs.
-----------------------------------------
   SEP  22, 1991   02h 08m 20.05± 0.17s
   39.650 N ± 3.1km    51.840 E ± 2.3km
   DEPTH =  64.1km  ( 12 depth phases)
   4.8mb ( 49 obs.)
 CASPIAN SEA                       (338)

TEH      3.92 185 ePc    09 18.50   -0 8
IR7      4.06 194 iPc    09 20.00   -1.2
IR1      4.32 193 iPc    09 23.50   -1.5
IR4      4.47 190 iPc    09 26.30   -0.7
IR5      4.54 193 eP     09 27.70   -0.3
TAB      4.58 252 iPd    09 28.00   -0.6
KER      6 50 217 eP     09 56.00    0.6
MAIO     6.91 117 iPnd   09 58.00   -3.0X
       0.8s    21.96nm          4 9mb
                 eSn    11 11 00
MSL      7 60 247 eP     10 10.50    0.0
                 eS     11 44.50
                 eLR    12 10 00
SHI     10.00 177 eP     10 46.00    2.4X
GAR     14.32  87 eP     11 37.00   -4.0X
HRI     14.43 249 eP     11 43 80    1 4
BBTK    14.68 277 iP     11 45 00   -0 7
CSS     15.45 258 eP     11 57 00    1.5
OUE     15.56 123 eP     11 59.10    2.0
DSI     15.61 244 eP     11 57.10   -0.4
PPCY    16.23 259 eP     12 08.00    2.8X
AYN     16.92 235 eP     12 12.70   -1.2
HRT     16 97 281 ePn    12 16.00    1.4
MBH     17 05 240 eP     12 13.40   -2 3
AFIF    17.14 208 eP     12 19.30    2.4
IZI     17.15 279 iP     12 16.50   -0 4
YLV     17.21 280 eP     12 17 50   -0 1
HOL     17 26 238 eP     12 18.00   -0 2
KHL     17 40 273 eP     12 18.00   -2 0
ELL     17 48 267 iP     12 22 50    1.5
BADA    17 79 237 eP     12 24 00   -0.7
CFR     18.32 295 eP     12 21 00  -10.1X
OBN     18 52 332 ePc    12 30.30   -3.1X
       1 0s     35 00nm          4.5mb
     Z  20s      0 40um          4.4Msz
                 iPP    12 42.00
                 e      12 47.00
                 iPPP   12 54 00
                 i      13 14.00
                 iS     15 54.00
                 e      15 57.00
                 ePcP   17 11.00

KSH     18.61   83 eP    12 35.00    0.2
VRI     19.42  297 ePc   12 43.00   -0.8
ALN     19.70  282 ePc   12 46.52   -0.3
MLR     19.90  296 ePc   12 49.50    0.5
KDZ     20.13  284 iP    12 56.00    4.8X
PVL     20.16  289 iP    12 52.00    0.5
CMP     20.51  295 iPd   12 56.00    0.9
PLD     20.64  286 iP    12 55.00   -1.4
RZN     20.65  284 iP    12 56.00   -0.8
COZ     21.00  295 ePc   12 59.80   -0.5
OUR     21.33  281 ePc   13 03.64    0.3
MMB     21.39  284 iP    13 04.00   -0.1
SRS     21.53  283 iPc   13 06.22    0.7
PAIG    21.61  280 ePd   13 06.77    0.5
VTS     21.73  287 iP    13 08.00    0.4
KKB     21.85  285 iP    13 09.00    0.3
THE     22.06  282 ePc   13 12.24    1.6
LIT     22.49  281 ePd   13 16.28    1.3
AGG     22.79  278 ePc   13 18.40    0.4
SKO     23.07  286 eP    13 21.50    0.9
       1.1s     86.00nm          5.1mb
                 i      13 22.50    4kmX
                 i      13 36.70

FNA     23.24  283 ePc   13 24.48    2.2
NDI     23.60  110 eP    13 26.00    0.2
OHR     23.63  284 iP    13 27.20    1.1
       1.0s     70.00nm          5.1mb
SPC     24.34  303 eP    13 34.50    1.4
PSZ     24.36  300 eP    13 34.80    1.6
KRA     24.72  305 eP    13 36.80    0.4
       0.7s     21.00nm          4.7mb
                 e      13 43.30   23kmX
                 e      13 53.30

UZD     25.11  297 e(P)  13 42.00    1.8
SRO     25.41  300 iP    13 43.90    1.0
                 i      14 00.60   73km
ZST     26.26  300 eP    13 50.70   -0.1
                 i      14 05.70   63km

HVAR    26.65  289 eP    13 53.90   -0.6
VKA     26.78  301 e(P)  13 55.00   -0.6
                 i      14 10.80   67km
                 i      14 43.90
NUR     26.86  330 eP    13 54.00   -2.1
       0.8s     17.60nm          4.7mb
                 e      14 10.00   68km

PTJ     26.91  295 eP    13 56.90    0.0
WMO     26.94   69 P     13 57.50    0.3
ROI     27.07  281 P     13 56.40   -1.9
KSP     27.16  306 eP    13 59.00    0.0
KAF     27.32  334 iP    13 59.50   -0.8
       0.4s     1.60nm          4.0mb
VBY     27.40  294 e(P)  14 02.60    1.4
MMN     27.44  282 P     14 02.40    0.7
CZI     27.47  281 P     14 01.80   -0.1
SOI     27.80  278 P     14 23.00   18.1X
                 eSn    14 47.00
LJU     27.90  296 eP    14 06.30    0.5
CEY     27.98  295 eP    14 07.00    0.5
PRU     28.13  304 eP    14 06.60   -1.2
                 e      14 27.00   91kmX
                 e      15 14.00

ATN     28.23  279 P     14 19.00   10.2X
VOY     28.35  296 eP    14 06.10   -3.8X
                 e      14 26.90   93kmX

BRG     28.63  306 iPd   14 12.80    0.5
       1.2s     28.00nm          4 8mb
                 i      14 28 40   65km

KHC     28.67  302 iPc   14 12.50   -0.2
       1.2s      7.50nm          4.2mb
                 e      14 28.00   64km
                 e      15 10.50

MNO     28 87  279 P     14 14 00   -0.8
                 eSg    14 32 50
MEU     28.92  277 P     14 01 00  -14 1X
                 eSg    14 10.00

BSD     28.98  315 iPc   14 13.00   -2.3
                 i      14 27 00   56km

CLL     29.28  306 iPd   14 18 00   -0.1
       1.1s     13 00nm          4.5mb
                 i      14 32 90   61km

GIB     29.37  279 P     14 14 50   -4.7X
                 eSn    14 34.00

UPP     29 44  325 iP    14 18.10   -1.3
GKN     29.46  103 P     14 18.98   -1.2
MCT     29.76  278 P     14 12.00  -10.8X
WTTA    29 89  298 iPd   14 23.10   -0.7
       0.6s     14.20nm          4.8mb
                 i      14 30.60   26kmX
                 i      14 38.40
                 i      15 10.10

DMN     30 02  103 P     14 24.70   -0.5
KKN     30.06  103 P     14 25.18   -0.3
MOX     30.07  305 iPc   14 26.00    0.8
       1.4s     24.00nm          4.7mb
GRF     30.25  303 eP    14 27.50    0.8
     Z  28s      0.20um          3.6MszX
                 e      14 42.50   61km
PKI     30.27  103 P     14 26.92   -0.6
GUN     30.44  102 P     14 28.96   -0.1
SOD     31 09  341 eP    14 32.00   -1.9
                 e      14 48.00   66km
HFS     31.34  324 eP    14 34.90   -1.3
       0.4s     7.40nm          4.8mb
PGF     32.16  289 eP    14 43.70    0.0
       0.8s     6.70nm          4.5mb
PCP     32.21  293 P     14 43.19   -0.8
FIN     32.49  293 P     14 45.45   -1.0
IMI     32.76  292 P     14 48.42   -0.4
NB2     32.82  324 P     14 47.60   -1.5
       0.8s     8.40nm          4.6mb
KEV     32.89  344 eP    14 52.00    2.4X
ENR     33.05  293 P     14 50.78   -0.6
BHB     33.08  294 P     14 49.04   -2.5X
LSD     33.09  295 P     14 51.50   -0.4
SBF     33.09  292 eP    14 51.70    0.0
       1.0s     20.00nm          4.9mb
STV     33.12  293 P     14 51.19   -0.8
PZZ     33.24  293 P     14 51.29   -1.8
LPG     33.37  295 eP    14 53.90   -0.5
       1 0s     10.00nm          4.6mb
LPL     33.38  295 eP    14 53.90   -0.5
       1.1s     13.45nm          4.7mb
RRL     33.41  294 P     14 54.37   -0.3
HAU     33.45  300 eP    14 53.80   -0.9
       1.0s     18.00nm          4.9mb
     Z  20s      0.08um          3.4Msz
FRF     33.70  292 eP    14 57.00    0.1
       0.8s     26.85nm          5.2mb
LMR     33.84  291 eP    14 57.90   -0.2
       0.8s     5.35nm           4.5mb
LRG     33.92  292 eP    14 58.90    0.1
       1.0s     20.00nm          5.0mb
     Z  20s      0.08um          3.4Msz
GBA     34.36  132 Pc    15 02.70   -0.1
       0.9s     10.30nm          4.8mb
DOU     34.54  303 P     15 06.30    2.3
                 e      15 21.30   60km
SNF     34.73  304 Pd    15 07.00    1.3
                 ec     15 23.00   65km
LBF     35.13  298 eP    15 08.40   -0.8
       0.6s     6.30nm           4.7mb
LOR     35.18  299 eP    15 09.10   -0.5
       0.6s     7.65nm           4.8mb
     Z  20s      0.05um          3.3Msz
SMF     35.26  298 eP    15 09.80   -0.4
       1.2s     23.80nm          5.0mb
SSF     35.44  298 eP    15 11.30   -0.5
       0.6s     4.50nm           4.6mb
AVF     35.57  298 eP    15 12.70   -0.2
       1.2s     32.75nm          5.1mb
MAF     36.18  297 eP    15 18.30    0.2
       1 2s     25.30nm          5.0mb
TCF     36.42  297 eP    15 20.60    0.5
       0.8s     10.05nm          4.8mb
GTA     36.65   75 P     15 22.60    0.4
                 pP     15 29.60   24kmX
CAF     36 73  295 eP    15 23.20    0.5
       0 8s     8.75nm           4.7mb
LSF     36.89  297 eP    15 24.20    0.2
       1 2s     26 80nm          5.0mb
RJF     37 05  296 eP    15 26.20    0.9
       1.0s     18.00nm          5.0mb
     Z  22s      0.08um          3.4Msz
LPO     37.39  295 eP    15 28.70    0.6
       0.8s     5.35nm           4.5mb
LFF     37 65  295 eP    15 31.20    0.8
       0.9s     19.65nm          5.0mb
LDF     37.71  301 eP    15 30.90    0.1
```

22d 02h

	0.6s	6.30nm		4.7mb		
FLN	37.93	302 eP	15	32.80	0.1	
	0.8s	10.75nm		4.8mb		
	Z 20s	0.05um		3.3Msz		
MFF	37.99	298 eP	15	33.20	0.0	
	0.8s	8.05nm		4.7mb		
GRR	38.22	301 eP	15	35.30	0.2	
	0.8s	5.40nm		4.5mb		
LPF	38.39	300 eP	15	36.30	-0.2	
	0.8s	14.80nm		5.0mb		
EBR	38.76	289 eP	15	40.00	0.4	
EKA	39.23	312 Pc	15	43.80	0.4	
	1.2s	65.60nm		5.4mb		
LZH	40.74	78 eP	15	57.00	0.7	
	1.0s	21.00nm		4.9mb		
	Z 25s	0.37um		4.1MszX		
		pP	16	10.00	49kmX	
TOL	42.35	289 iP	16	09.50	0.2	
CD2	42.76	85 eP	16	13.20	0.4	
BTO	43.78	69 eP	16	22.60	1.6	
XAN	45.37	78 eP	16	33.60	-0.1	
		pP	16	46.60	48kmX	
IFR	45.50	281 iP	16	36.50	1.5	
TIY	46.55	72 Pd	16	43.20	0.2	
	Z 30s	0.60um		4.4MszX		
GYA	47.13	89 P	16	48.00	0.2	
AVE	47.32	282 eP	16	50.00	0.9	
TIO	48.26	279 iP	16	56.50	-0.1	
TIA	50.59	72 eP	17	14.50	0.3	
WHN	51.04	80 eP	17	18.50	0.9	
		sP	17	33.00		
NJ2	53.72	76 Pc	17	37.50	-0.2	
SSE	55.93	76 P	17	53.00	-0.7	
		sP	18	08.00		
MTD	59.24	203 iPd	18	14.00	-3.1X	
KRI	59.89	205 eP	18	22.60	0.9	
KIC	60.49	252 Pd	18	25.28	-0.5	
	1.1s	43.00nm		5.5mb		
TIC	60.51	253 Pd	18	25.30	-0.6	
LIC	60.79	253 Pd	18	27.30	-0.5	
BUL	63.32	205 iPd	18	41.30	-3.3X	
	0.9s	121.85nm		5.9mb X		
MBC	64.25	358 eP	18	50.00	0.0	
	0.9s	9.00nm		4.7mb		
SLR	68.66	203 iPd	19	19.00	0.3	
	1.0s	25.00nm		5.1mb		
PRY	70.02	203 eP	19	27.00	0.0	
SEK	71.29	202 iPd	19	36.30	1.6	
	1.1s	37.97nm		5.2mb		
SCH	72.29	328 eP	19	40.00	-0.2	
BLF	72.46	203 iPc	19	41.50	-0.1	
FRS	73.32	204 iPc	19	46.70	0.3	
	1.1s	31.65nm		5.2mb		
YKA	77.62	354 eP	20	10.00	-0.4	
	0.9s	2.00nm		4.1mb		
WR2	96.95	110 iPd	21	45.20	-0.5	
	0.6s	3 00nm		5.0mb		
SPA	129.46	180 ePKP	27	21.00	-1.0	
	1.1s	11.90nm				
	S.D. = 0.9	on 149 of 166 obs				

---

* SEP 22, 1991 02h 17m 56.11± 0.90s
38.660 N ± 7.4km 20.493 E ±10.7km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 3.2 (ATH).

VLS	0.49	171 ePb	18	05.70	-0.3	
KEK	1.18	333 ePb	18	17.40	-0.8	
KZN	1.92	31 ePn	18	30.80	1.6	
OHR	2.46	5 ePn	18	37.00	0.1	
LCI	2.58	311 P	18	42.00	3.4X	
		eSn	19	15.00		
SKO	3.39	12 ePn	18	48.50	-1.6	
CZI	3.45	281 P	18	50.70	-0.2	
SGO	4.43	297 P	19	06.00	1.1	
	S.D. = 1.3	on 7 of 8 obs				

SEP 22, 1991 02h 31m 59.17± 0.59s
2.261 N ± 3.8km 128.477 E ± 6.9km
DEPTH = 243.9 ± 6.1 km
4.9mb (23 obs.)
HALMAHERA, INDONESIA (267)

MNI	3.73	257 eP	32	59.60	-0.3	
		eS	33	46.30		
DAV	5.60	329 eP	33	21.60	-1.2	
	0.9s	873.95nm		5.7mb X		
AAI	5.91	183 eP	33	28.50	1.8	
BIP	6.33	340 iPc	33	26.50	-5.4X	
		iS	34	11.00		
CGP	7.21	329 iPc	33	40.00	-3.2X	
MAP	9.17	331 iPd	34	07.00	-1.2	
	1.0s	442.00nm		5.5mb X		
TSM	10.78	281 ePd	34	28.80	0.2	
MKS	11.67	230 iPd	34	46.50	6.7X	
KKM	12.79	287 ePd	34	55.50	-0.5	
	1.2s	99.30nm		4.9mb		
PGP	13.42	327 ePc	35	02.00	0.4	
OCP	14.30	330 eP	35	22.00	9.5X	
MTN	15.24	170 iPd	35	22.50	-1.4	
BAG	16.07	332 eP	35	34.00	-0.1	
CVP	16.68	337 iPd	35	41.50	0.9	
	0.6s	75.00nm		5.3mb		
SZP	17.12	333 eP	35	46.00	0.8	
PIP	17.73	335 ePc	35	53.00	1.3	
KNA	17.90	179 eP	35	52.70	-0.8	
TRT	18.65	238 Pd	36	04.60	3.4X	
WR2	22.81	166 iPd	36	42.00	-0.3	
	0.3s	115.70nm		5.9mb X		
		eS	40	32.40		
OIS	25.16	155 iPd	37	04.20	0.0	
	1.0s	60.00nm		5.1mb		
		i	40	27.00		
ASPA	26.31	169 iPc	37	14.20	-0.4	
	0.4s	47.80nm		5.5mb		
		eS	41	28.50		
IPM	27.50	276 ePd	37	25.80	0.4	
	0.8s	33.30nm		5.0mb		
NANU	27.72	206 eP	37	27.00	-0.2	
SNG	28.18	281 eP	37	32.30	0.8	
CTAO	28.24	143 eP	37	32.00	0.0	
WARB	28.33	183 eP	37	32.50	-0.2	
WHN	31.15	336 eP	37	59.00	1.7	
KHT	32.01	295 iPd	38	06.00	1.0	
FORR	32.93	181 eP	38	12.00	-0.7	
CHG	33.27	302 iPd	38	17.00	1.1	
	0.9s	36.76nm		5.0mb		
MRWA	33.51	200 eP	38	17.30	-0.4	
BAL	34.56	198 eP	38	26.50	-0.1	
KLB	35.17	196 eP	38	32.00	0.2	
	0.4s	6.00nm		4.5mb		
MUN	35.99	198 eP	38	39.00	0.4	
STK	36.17	161 iPc	38	40.70	0.6	
	0.6s	23.10nm		4.9mb		
		e	40	06.20		
XAN	36.51	332 eP	38	42.90	-0.2	
NWAO	36.58	196 eP	38	44.00	0.4	
	0.4s	3.00nm		4.2mb		
CD2	36.85	323 eP	38	46.50	0.5	
	0.5s	20.00nm		4.9mb		
BRS	37.64	143 iPc	38	52.80	0.2	
	0.8s	3.00nm		3.9mb		
TIY	38.24	339 eP	38	57.50	0.0	
BJI	39.23	345 eP	39	05.00	-0.5	
	1.1s	10.00nm		4.2mb		
ARMA	39.29	148 eP	39	07.00	0.7	
LZH	40.65	329 eP	39	13.50	-3.9X	
	1.5s	48.00nm		4.7mb		
BFD	41.36	163 iPd	39	24.00	1.0	
	0.7s	40.00nm		5.0mb		
		i	44	02.50		
GTA	45.25	328 P	39	54.40	0.1	
	0.4s	10.00nm		4.5mb		
GUN	47.99	306 P	40	16.32	0.1	
	0.6s	113.00nm		5.4mb		
PKI	48.24	306 P	40	17.68	-0.3	
	0.5s	35.00nm		5.0mb		
KKN	48.43	306 P	40	18.94	-0.4	
	0.7s	89.00nm		5.3mb		
DMN	48.50	306 P	40	19.74	-0.2	
	0.7s	52.00nm		5.0mb		
GKN	49.04	306 P	40	23.68	-0.2	
	0.7s	32.00nm		4.8mb		
KOD	51.26	281 eP	40	40.50	-0.6	
GBA	51.68	285 Pd	40	43.00	-0.8	
	0.7s	15.80nm		4.6mb		
SOD	92.48	338 eP	44	42.00	-1.3	
KAF	93.70	333 iP	44	47.90	-1.0	
	0.5s	2.80nm		4.6mb		
HFS	100.12	333 ePdiff	45	16.50	-1.6	
	0.4s	0.80nm		4.5mb		
	S.D. = 0.8	on 49 of 55 obs.				

% SEP 22, 1991 02h 52m 32.40± 2.42s
35.254 N ±21.4km 3.637 W ±11.6km
DEPTH = 10.0km (geophysicist)
STRAIT OF GIBRALTAR (385)
mbLg 2.8 (MDD).

EMEL	0.56	85 ePg	52	44.00	0.3	
		eSg	52	51.30		
AFC	2.00	2 ePn	53	07.00	0.3	
		eSn	53	29.60		
ECOG	2.02	2 ePn	53	07.30	0.3	
		eSn	53	29.50		
ENIJ	2.07	34 ePn	53	06.30	-1.3	
		eSn	53	29.50		
EHUE	2.69	18 ePn	53	17.20	0.6	
		eSn	53	48.20		
EVAL	3.42	314 ePn	53	26.60	-0.2	
		eSn	54	05.50		
	S.D. = 0.9	on 6 of 6 obs.				

% SEP 22, 1991 03h 03m 49.63± 2.52s
40.097 N ±21.3km 28.275 E ± 8.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZI	0.95	75 iPg	04	08.00	0.2	
YLV	0.96	60 ePg	04	07.00	-1.0	
		eSg	04	21.50		
MFT	1.02	313 ePg	04	09.00	0.0	
CTT	1.06	6 iPg	04	09.50	0.0	
		eSg	04	22.50		
ISK	1.14	31 ePn	04	11.00	0.1	
HRT	1.29	55 ePn	04	14.00	0.5	
	S.D. = 0.7	on 6 of 6 obs.				

? SEP 22, 1991 03h 30m 31.40± 8.49s
16.092 S ±45.5km 177.434 E ±57.4km
DEPTH = 33.0km (normal)
FIJI ISLANDS (182)
ML 4.2 (SVA).

MBU	1.51	126 ePc	30	56.20	-0.3	
		eS	32	07.70		
SGE	1.56	163 eP	30	56.60	-0.7	
		eS	32	09.20		
NDE	1.87	105 ePc	31	00.90	-0.9	
		eS	31	21.90		
OVA	2.05	141 eP	31	06.00	1.8	
		eS	31	28.40		
VUN	2.14	153 eP	31	05.40	-0.2	
		eS	31	27.30		
KRO	2.24	123 ePc	31	05.90	-1.0	
		eS	31	25.80		
SVA	2.24	154 ePc	31	06.40	-0.5	
		eS	31	31.40		
UDU	2.48	92 eP	31	10.60	0.2	
		eS	31	41.30		
TVI	2.56	109 eP	30	11.40	-60.2X	
		eS	30	49.30		
	S.D. = 1.0	on 8 of 9 obs.				

? SEP 22, 1991 04h 07m 16.78± 6.32s
16.194 S ±35.0km 177.526 E ±42.9km
DEPTH = 33.0km (normal)
FIJI ISLANDS (182)
ML 4.3 (SVA).

MBU	1.38	124 ePc	07	40.20	0.2	
		eS	08	35.50		
SGE	1.44	165 eP	07	40.50	-0.4	
		eS	08	36.90		
NDF	1.56	183 eP	07	33.80	-8.6X	
NDE	1.76	103 eP	07	45.90	0.3	
		eS	08	03.40		
OVA	1.91	141 eP	07	49.80	2.1X	
		eS	08	12.40		
VUN	2.01	154 ePc	07	49.50	0.4	
		eS	08	11.80		
KRO	2.11	122 ePc	07	49.80	-0.6	
SVA	2.11	155 eP	07	50.60	0.2	
		eS	08	10.80		
UDU	2.39	89 eP	07	54.40	-0.1	
		eS	08	23.20		
TVI	2.44	108 eP	07	55.30	0.0	
		eS	09	22.10		
	S.D. = 0.4	on 8 of 10 obs.				

? SEP 22, 1991 04h 37m 41.85± 8.52s
19.202 N ±40.6km 67.689 W ±52.3km
DEPTH = 10.0km (geophysicist)
MONA PASSAGE (89)

MCP	0.95	145	P	38	00.00	0.0
			S	38	07.20	
APR	1.18	129	P	38	04.00	0.2
LRS	1.21	138	P	38	04.00	-0.4
MGP	1.32	154	P	38	06.30	0.1
CLLP	1.54	136	P	38	09.10	-0.2
SJG	1.82	126	iP	38	13.50	0.1

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

---

* SEP 22, 1991 05h 19m 31.27± 1.71s
38.974 N ± 9.8km 29.928 E ±28.1km
DEPTH = 10 0km (geophysicist)
TURKEY (366)

KHL	0.72	206	iPg	19	44.30	-1.2
			eSg	19	53.80	
GPA	1.35	13	iPn	19	56.50	0.4
IZI	1.41	346	iPn	19	57.00	0.0
YLV	1.65	345	ePn	19	59.50	-0.9
HRT	1 86	354	ePn	20	04.00	0.6
CIN	1.99	227	eP	20	07.00	1.6
BBTK	2.36	68	eP	20	28.00	17.2X
			eS	20	49.00	
CTT	2.46	333	ePn	20	11.50	-0.5

S.D = 1.2 on 7 of 8 obs.

? SEP 22, 1991 05h 21m 47.66± 3.69s
15.522 S ±57.6km 172.872 W ±27.3km
DEPTH = 106.9 ± 53.3 km
4.5mb (4 obs.)
SAMOA ISLANDS REGION (169)

AFI	1.92	34	eP	22	20.00	-0.1
			eS	22	43.00	
DZM	20.62	248	iPc	26	22.50	1 9
CMS	40.81	240	eP	29	18.60	-1.6
STK	44.42	240	eP	29	48.50	-1.1
	0.7s		2.30nm			4.1mb
WR2	50.29	257	iPc	30	34.80	-0.7
	0.9s		4.20nm			4.4mb
ASPA	50.56	252	iPd	30	36.50	-1.0
	0.7s		12.00nm			5.0mb
	Z 20s		0.30um			4.3Msz
MUN	65.92	242	eP	32	25.20	0.7
NANU	67.50	252	eP	32	36.20	1.6
SPA	74.58	180	iPd	33	16.80	0.3
	1.0s		9.00nm			4.5mb
PRU	145.10	352	PKPc	41	20.90	7.0X
KHC	146.07	352	ePKP	41	20.00	4.3X
			e	41	36.00	

S.D = 1.5 on 9 of 11 obs.

? SEP 22, 1991 05h 22m 46.84± 1.14s
45.459 N ± 9.6km 14.269 E ± 9.0km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
MD 1 8 (TRI).

RIY	0.14	144	iPgd	22	49.80	-0.3
			iSg	22	52.10	
CEY	0.30	22	e(Pg)	22	52.50	-0.6
			eSg	22	57.00	
TRI	0.43	305	ePg	22	55.90	0.2
			iSg	23	03.30	
PTJ	1.26	69	eP	23	11.10	0.7

S D = 1.0 on 4 of 4 obs.

SEP 22, 1991 05h 42m 27.89± 0.24s
30.165 N ± 5.8km 67 799 E ± 3.4km
DEPTH = 10.0km (geophysicist)
4.9mb (44 obs.)
PAKISTAN (710)
Felt ot Quetto.

QUE	0.74	272	iPd	42	42.20	-0.3
			eS	42	52.00	
NDI	8 35	98	iPc	44	29.00	-2.8
			eS	45	58.00	
MAIO	9 26	314	eP	44	45.00	0.5
			eS	46	48.00	
KSH	11 44	34	eP	45	09.00	-5.5X
			eS	47	21.00	
BOM	12.11	157	eP	45	16.80	-6.6X
			eS	47	46.20	
POO	12.82	153	iPc	45	34.20	1.2
			iS	48	27.50	
GKN	14.88	94	P	45	55.20	-5.0X
IR4	15.10	294	ePc	46	10.00	7.0X
IR1	15.31	294	eP	46	09.00	3.2X
IR5	15.34	294	eP	46	08.70	2.5
DMN	15.37	95	P	46	03.36	-3.4X
IR7	15.45	295	ePd	46	13.80	6.2X
KKN	15.48	94	P	46	03.76	-4.4X
PKI	15.64	95	P	46	05.84	-4.5X
GUN	15.97	94	P	46	09.94	-4.7X
GBA	18.73	150	Pc	46	47.80	-1.1
	0.8s		20.80nm			4.4mb
BHD	20.15	285	eP	47	02.00	-3.0X
			eS	53	43.00	
LSA	20.24	85	P	47	05.40	-1.1
WMQ	20.87	44	P	47	13.00	0.5
	Z 16s		1.10um			4.3MszX
KOD	21.78	154	eP	47	22.80	0.6
GTA	27.75	62	eP	48	19.40	0.7
	1.4s		20.00nm			4.7mb
			pP	48	24.80	19kmX
CHG	30.42	105	eP	48	43.00	0.3
	0.8s		10.45nm			4.7mb
LZH	30.64	69	eP	48	45.00	0.3
	1.0s		18.00nm			4.9mb
	Z 15s		0.24um			4.0MszX
			pP	48	50.00	17kmX
			sP	48	53.00	
OBN	33.39	327	iPc	49	08.00	-0.4
	1.0s		42.00nm			5.3mb
	Z 17s		0.60um			4.4MszX
	N 16s		0.80um			
	E 20s		0.60um			
GYA	34.30	86	P	49	17.00	0.2
	1.0s		30.00nm			5.2mb
XAN	34.88	73	eP	49	21.40	-0.2
VRI	35.53	308	ePd	49	28.00	1.1
BTO	35.66	61	eP	49	28.50	0.3
MLR	35.99	307	ePc	49	32.00	1.0
TIY	37.51	66	eP	49	43.40	-0.3
	Z 18s		0.50um			4.4Msz
BZS	39.02	306	eP	49	56.50	0.3
WHN	39.95	77	eP	50	06.00	1.9
BJI	40.36	62	eP	50	04.00	-3.4X
SPC	40.47	312	eP	50	09.60	1.2
PSZ	40.49	310	iPd	50	09 60	1.1
KRA	40.82	313	eP	50	11.50	0.5
TIA	41.36	68	eP	50	16.60	0.9
SRO	41.54	309	eP	50	17.60	0.7
NUR	41.66	329	iP	50	17.20	-0.5
	0.9s		18.60nm			4.8mb
KAF	41.73	332	iP	50	18.10	-0.2
	0.4s		9.70nm			4.9mb
ZST	42.39	310	iP	50	24.50	0.6
			e	18	16.60	
VKA	42.92	310	iPc	50	28.80	0.5
			i	50	34.20	
PTJ	42.99	306	eP	50	28.70	-0.3
NJ2	43.42	74	Pc	50	34.00	1.5
VBY	43.46	306	eP	50	33.00	0.3
LJU	43.98	307	eP	50	37.50	0.5
CEY	44.05	306	ePc	50	38.00	0.5
PRU	44.25	312	P	50	39.50	0.4
VOY	44.43	306	ePc	50	41.10	0.4
SOD	44.50	339	iP	50	40.70	-0.1
			i	50	46.20	
UPP	44.64	327	iP	50	41.40	-0.6
BRG	44.73	313	iPc	50	43.80	0.9
	1.3s		23.00nm			4.9mb
KHC	44.80	311	P	50	43.50	-0.1
	1.0s		3.50nm			4.2mb
			e	51	05.30	
CLL	45.37	314	iP	50	48.20	0.2
	1.2s		12.00nm			4.7mb
KEV	45.82	342	iP	50	51.00	-0.3
WTTA	46.01	308	iPc	50	52 60	-0.8
	0.9s		14.00nm			5 0mb
			i	50	57 60	
MOX	46.18	313	iP	50	55.30	0.9
	1.2s		28.00nm			5 1mb
GRF	46.37	312	iPc	50	57.10	1.1
	1.2s		35.00nm			5.3mb
	Z 15s		0.20um			4 2MszX
			ed	51	02.10	
OGA	46.42	308	iPc	50	56.20	-0.5
	0 7s		10.00nm			5.0mb
HFS	46.61	326	eP	50	56.80	-0.8
	1.1s		34.00nm			5.3mb
	Z 17s		0.27um			4.3MszX
			LR	11	57.00	
NB2	48 02	327	P	51	07.30	-1.5
	0.9s		18.60nm			5.2mb
CDF	48 95	310	eP	51	15.20	-1.0
	0.8s		5.35nm			4.6mb
SBF	49.08	304	eP	51	16.90	-0.4
	0.8s		67.15nm			5.7mb
BSF	49.29	309	eP	51	17.80	-1.1
	1.0s		16.00nm			5.0mb
LPG	49.44	306	eP	51	19.60	-0.7
	1.0s		14.00nm			4.9mb
LPL	49.45	306	eP	51	19.80	-0.5
	1.0s		14.00nm			4.9mb
HAU	49.58	309	eP	51	20.30	-0.7
	0.9s		9.85nm			4.8mb
FRF	49.68	303	eP	51	21.10	-0.7
	1.0s		12.00nm			4.8mb
LRG	49.90	303	eP	51	22.80	-0.7
	1.0s		22.00nm			5.1mb
	Z 20s		0.08um			3.7Msz
CDR	50.30	304	ePd	51	26.40	-0.2
DOU	50.66	312	Pc	51	30.00	0.8
YAK	50.72	33	eP	51	28.00	-1.4
SNF	50.85	313	P	51	31.90	1.3
LBF	51.25	308	eP	51	33.00	-0.8
	0.8s		8.05nm			4.7mb
LOR	51.30	308	eP	51	33.20	-1.0
	1.0s		11.00nm			4.7mb
	Z 20s		0.05um			3.5Msz
SMF	51.37	308	eP	51	33.90	-0.7
	0.9s		24.55nm			5.1mb
SSF	51.56	308	eP	51	35.40	-0.7
	0.8s		12.10nm			4.9mb
AVF	51.69	308	eP	51	36.20	-0.8
	1.0s		8.00nm			4.6mb
BGF	52.06	308	eP	51	38.90	-1.0
	0.8s		8.05nm			4.7mb
TCF	52.52	307	eP	51	43.00	-0.4
	0.8s		5.35nm			4.5mb
CAF	52.79	306	eP	51	45.10	-0.3
	0.8s		10.75nm			4.8mb
LSF	53.00	307	eP	51	46.20	-0.7
	0.8s		6.70nm			4.6mb
RJF	53.13	306	eP	51	47.70	-0.2
	1.0s		10.00nm			4.7mb
	Z 20s		0.05um			3.6Msz
LPO	53.44	305	eP	51	50.30	0.1
	1.2s		17.85nm			4.9mb
LFF	53.72	306	eP	51	51.90	-0.3
	0.8s		8.05nm			4.8mb
KIC	71.74	267	P	53	52.22	-0.4
TIC	71.84	267	P	53	52.36	-0.9
	0.8s		5.00nm			4.7mb
LIC	72.06	267	P	53	53.96	-0.6
	0.9s		7.00nm			4.7mb
MBC	73.75	2	eP	54	03.80	0.4
	0.7s		17.00nm			5.2mb
WR2	81.11	119	iPd	54	50.20	5.0X
	0.6s		7.30nm			4.9mb
FBA	81.27	15	eP	54	45.50	0.3
	0.8s		15.52nm			5.1mb
			e	54	50.00	
ASPA	82.99	122	iPd	54	56.40	1.6
	0.9s		7.10nm			4.9mb
YKA	87.65	1	eP	55	17.20	-0.2
	0.8s		6.60nm			5.0mb

S.D. = 0.9 on 80 of 93 obs.

? SEP 22, 1991 06h 26m 18.83± 1.28s
44.199 N ± 8.4km 12.001 E ±15.0km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

SFI	0.30	201	P	26	25.20	0.2
			eSg	26	31.00	
PGD	0.38	212	P	26	26.50	-0.2
CRE	0.57	184	P	26	33.40	2.9X
MME	0 94	270	P	26	36.90	0.0
			eSg	26	51.10	
FVI	2 46	13	P	26	59.50	0.0

S.D = 0.3 on 4 of 5 obs.

22d 06h

SEP 22, 1991 06h 32m 37.37± 0.14s
49.644 N ± 3.1km 156.549 E ± 2.6km
DEPTH = 30.4km (7 depth phases)
5.5mb (84 abs.) 4.7Msz (10 abs.)
KURIL ISLANDS (221)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 20S, 40C
Centroid Location:
Origin Time 06:32:41.4 0.4
Lat 49.59N 0.07 Lon 156.83E 0.06
Dep 32.4 4.5 Half-duration 2.1
Moment Tensor; Scale 10**16 Nm
Mrr= 7.73 0.41 Mtt=-0.07 0.66
Mff=-7.66 0.49 Mrt= 2.49 1.01
Mrf=-0.70 1.24 Mtf=-2.81 0.58
Principal Axes:
T Val= 8.59 Plg=72 Azm= 17
N 0.00 18 198
P -8.59 0 108
Best Double Couple:Mo=8.6*10**16
NP1:Strike=180 Dip=48 Slip= 65
NP2: 36 48 115

KUSJ	10.47	236	eP	35	04.50
			eS	36	54.10
ASAJ	11.00	245	P	35	19.30
HOOJ	11.73	237	eP	35	24.00
			eS	37	24.50
MRRJ	12.94	242	eP	35	39.70
OFUJ	14.96	231	eP	36	04.30
			eS	38	37.50
NIIJ	17.72	232	P	36	41.10
KAKJ	17.95	228	eP	36	45.50
			eS	39	49.60
CHJJ	18.65	230	P	36	54.20
			eS	40	08.30
MTMJ	18.84	233	P	36	57.40
MDJ	18.97	265	eP	36	56.30
Z	24s	2.00um			
N	12s	0.80um			
E	12s	0.70um			
YAK	19.33	320	iP	37	01.10
			ipP	37	11.00
			iPPP	37	24.00
			eS	40	29.00
			iSS	40	46.00
			iPcP	40	52.00
			ePcS	44	56.00
			eScS	48	33.00
			iPSP	48	48.00
IIDJ	19.64	231	P	37	06.00
			eS	40	37.80
TSRJ	20.60	235	eP	37	16.30
WKYJ	21.81	233	eP	37	29.30
CNC	22.01	267	eP	37	27.20
5.0s	400.00nm		5.1mb X		
Z	23s	4.70um	4.8MszX		
N	14s	1.20um			
E	14s	0.80um			
		SP	37	37.00	
YONJ	22.22	238	P	37	33.60
TKSJ	22.81	235	P	37	40.10
SNY	24.15	264	Pc	37	51.20
1.6s	60.00nm		4.9mb		
Z	20s	1.58um	4.5Msz		
E	15s	0.97um			
ANM	24.99	39	eP	38	01.00
BJI	29.87	267	eP	38	43.00
1.0s	8.00nm		4.5mb X		
Z	22s	1.24um	4.5Msz		
N	16s	0.58um			
		eS	43	44.00	
RSO	30.22	50	eP	38	47.50
TIA	31.46	260	eP	38	57.50
SLKM	31.47	49	eP	38	58.00
PMR	31.93	47	P	39	00.90
1.0s	50.00nm		5.4mb		
SSE	32.30	248	Pd	39	06.50
1.2s	34.00nm		5.1mb		
Z	20s	1.40um	4.7Msz		
		pP	39	14.00	26km
		eS	44	20.00	
IRK	32.42	295	eP	39	06.00
		e	39	22.80	70kmX
		e	39	56.00	
HHC	32.45	272	eP	39	05.80

	Z	24s	2.00um	4.7MszX	
	N	13s	0.50um		
	E	13s	0.70um		
			pP	39	15.00
FBA	32.47	41	P	39	06.20
	1.0s	210	00nm	6.0mb	
NJ2	33.06	252	Pc	39	12.00
BTO	33.58	272	eP	39	15.00
	N	15s	0.70um		
	E	14s	0.80um		
			eS	44	28.00
TIY	33.59	266	Pc	39	16.40
	0.8s	30.00nm		5.3mb	
	Z	20s	0.90um	4.5Msz	
	E	19s	1.00um		
BALM	35.25	48	P	39	31.50
WHN	36.90	255	Pd	39	45.00
	0.6s	30.00nm		5.3mb	
XAN	38.08	264	eP	39	54.00
			pP	40	01.50
LZH	40.12	271	eP	40	12.20
	1.5s	57.00nm		5.1mb	
	Z	12s	1.58um	5.1MszX	
	E	15s	0.65um		
GTA	40.82	278	P	40	17.20
	4.0s	400.00nm		5.5mb X	
	Z	16s	1.90um	5.0MszX	
	E	14s	1.40um		
			PcP	42	18.80
MBC	41.08	21	ePc	40	20.00
	1.0s	79.00nm		5.4mb	
CD2	43.42	265	eP	40	38.30
	0.9s	20.00nm		4.9mb	
GYA	44.58	258	P	40	49.00
	1.0s	30.00nm		5.1mb	
			S	47	20.00
WMO	46.05	290	P	41	01.00
	1.0s	20.00nm		5.0mb	
	Z	20s	1.20um	4.8Msz	
			pP	41	10.00
			PcP	42	36.20
			PcS	46	29.50
			S	47	38.00
YKA	47.23	39	eP	41	09.70
	0.8s	48.30nm		5.6mb	
KMI	48.03	260	Pc	41	16.50
	1.5s	80.00nm		5.5mb	
OIZ	48.09	248	eP	41	19.40
PGC	49.94	59	eP	41	30.00
PNT	51.66	56	eP	41	43.00
	0.9s	33.00nm		5.3mb	
NEW	53.62	56	P	41	56.50
LOE	54.30	254	eP	42	03.80
CHG	55.01	258	iPd	42	09.40
	0.8s	89.55nm		5.8mb	
			e	51	06.00
KEV	55.37	341	eP	42	06.00
SES	55.50	51	ePc	42	10.70
	0.7s	31.00nm		5.4mb	
ORV	56.47	67	eP	42	17.90
GUN	57.03	275	P	42	22.60
FFC	57.05	43	iPc	42	22.50
	1.1s	96.00nm		5.7mb	
SOD	57.37	339	iP	42	22.20
KKN	57.50	276	P	42	25.88
	0.6s	95.00nm		6.0mb	
PKI	57.56	276	P	42	26.72
	0.7s	32.00nm		5.5mb	
LRM	57.64	56	ePc	42	26.50
DMN	57.73	276	P	42	28.12
GKN	57.77	276	P	42	27.64
	0.5s	90.00nm		6.1mb	
CMB	58.12	67	P	42	31.50
	1.3s	61.48nm		5.5mb	
GAR	59.37	295	eP	42	37.60
CWC	60.55	67	eP	42	47.00
SYP	60.68	70	eP	42	48.00
BW06	61.20	57	ePc	42	50.90
	0.9s	115	82nm	6.0mb	
			e	43	07.50
CLC	61.26	68	iP+	42	51.00
FRB	61.54	21	eP	42	52.00
	0.8s	68.00nm		5.8mb	
KAF	61.76	336	iP	42	52.70
	0.5s	4.50nm		4.9mb	
SBB	61.88	69	eP	42	56.00
PAS	62.03	69	eP	42	57.00

MWC	62.05	69	eP	42	57.00
GSC	62.08	68	eP	42	57.00
MSU	62.62	62	ePc	43	00.90
			e	43	16.70
RVR	62.62	69	eP	43	00.00
PEC	62.82	69	P	43	01.20
SNG	62.89	247	eP	43	04.30
RSSD	63.22	53	ePc	43	03.80
0.9s	76.67nm		5.8mb		
		i	43	19.90	59kmX
		PP	45	27.70	
PLM	63.37	69	eP	43	06.00
NUR	63.54	336	eP	43	04.00
0.5s	11.20nm		5.2mb		
BAR	63.95	70	eP	43	09.00
OBN	64.20	326	eP	43	10.00
1.1s	20.00nm		5.1mb		
Z	20s	0.60um	4.8Msz		
N	20s	0.60um			
		e	43	11.40	5kmX
		e	43	21.00	
		e	43	44.00	
PV09	64.36	60	eP	43	12.80
IPM	64.72	245	ePd	43	15.90
AKU	64.93	358	iPc	43	16.90
0.9s	53.78nm		5.7mb		
GOL	65.61	57	ePc	43	20.30
0.8s	96.73nm		6.0mb		
GLD	65.66	57	ePc	43	21.40
1.2s	54.55nm		5.5mb		
UPP	65.88	339	iP	43	20.40
MTN	66.12	207	eP	43	22.60
0.7s	28.00nm		5.5mb		
NB2	66.20	342	P	43	22.60
0.7s	22.10nm		5.4mb		
HFS	66.52	341	eP	43	24.30
1.0s	20.90nm		5.2mb		
Z	18s	0.42um	4.7Msz		
		LR	08	24.00	
QUE	67.41	290	eP	43	33.22
MAIO	67.46	300	eP	43	34.00
		eS	52	28.00	
ANMO	68.39	61	iPd	43	37.90
ALQ	68.39	61	ePc	43	38.00
1.0s	21.75nm		5.2mb		
TRT	68.72	228	ePd	43	41.30
SCH	69.76	25	eP	43	46.00
CTAO	70.02	190	iPc	43	47.00
ACO	71.15	55	iPd	43	54.50
POO	71.43	277	eP	43	59.50
OIS	71.49	197	iPd	43	56.10
DZM	71.93	170	iPd	44	00.70
WR2	72.03	202	iPc	43	59.90
1.0s	28.80nm		5.2mb		
EDR	72.40	348	eP	44	00.50
0.5s	33.00nm		5.6mb		
GBA	72.72	271	Pd	44	04.90
0.8s	41.10nm		5.5mb		
MEO	72.89	56	iPc	44	04.80
ELO	72.99	349	eP	44	04.20
EBH	73.18	349	eP	44	05.70
0.8s	102.00nm		5.9mb		
EAB	73.34	349	eP	44	06.70
0.7s	76.00nm		5.8mb		
ESY	73.38	348	eP	44	06.80
0.7s	73.00nm		5.8mb		
KRA	73.95	333	iPd	44	11.10
0.6s	29.00nm		5.5mb		
Z	18s	1.20um	5.2Msz		
		e	44	22.80	39km
SPC	74.63	332	eP	44	15.20
FVM	74.65	49	P	44	15.00
1.2s	66.18nm		5.5mb		
CLL	74.73	337	iPd	44	15.40
1.7s	74.00nm		5.4mb		
BRG	74.89	337	iP	44	16.20
1.5s	30.00nm		5.1mb		
KOD	75.21	268	eP	44	19.90
VRI	75.36	326	iPc	44	29.50
WTS	75.52	341	eP	44	20.00
1.0s	58.00nm		5.5mb		
PRU	75.54	336	iPd	44	20.80
0.8s	14.60nm		5.0mb		
		e	44	27.50	22km
UYO	75.56	54	iPc	44	20.10
MOX	75.69	338	iPd	44	21.40
1.6s	65.00nm		5.4mb		

ASPA	75.71	201	iPd	44	22.20	0.7	WARB	80.05	207	eP	44	46.80	1.5		1.2s	71.40nm		5.7mb					
	0.9s	21.00nm			5.1mb		VDL	80.08	338	ePd	44	46.10	0.5	LRG	83.68	339	eP	45	04.50	0.4
PSZ	75.86	332	iP	44	22.60	0.4	LDF	80.10	345	iPc	44	45.10	-0.3		1.0s	78.00nm		5.8mb					
DMU	75.89	350	iPd	44	22.60	0.4		1.0s	68.00nm			5.6mb		DSI	83.76	313	eP	45	05.20	0.5			
CLE	75.92	41	iP	44	22.60	0.1	GRR	80.42	345	iPc	44	47.20	0.1	LMR	83.76	338	eP	45	04.90	0.4			
HOF	75.93	338	iPd	44	22.60	0.1	TMA	80.58	338	ePd	44	48.50	0.3		1.0s	80.00nm		5.8mb					
	0.8s	24.00nm			5.3mb		LOR	80.62	342	eP	44	48.20	0.0	PGF	83.88	336	eP	45	05.30	0.0		
MLR	75.97	327	ePc	44	23.50	0.6		0.8s	42.00nm			5.5mb			0.9s	52.40nm		5.7mb					
MSL	76.09	310	ePd	44	23.50	-0.1	SKO	80.63	328	iP	44	47.90	-0.4	SGO	83.92	331	P	45	05.50	0.2		
RMO	76.11	187	iPd	44	35.00	11.4X		1.7s	138.00nm			5.7mb		MGR	84.22	331	P	45	06.60	-0.3		
KAS	76.38	319	eP	44	27.00	1.8	Z	21s	0.69um			5.0Msz		MMN	84.31	331	P	45	06.60	-0.7		
BNS	76.41	341	iPd	44	25.50	0.4	E	21s	0.63um					CSI	84.32	330	P	45	07.60	0.2		
	0.9s	29.00nm			5.3mb		SAL	80.63	337	P	44	48.50	0.3	TDS	84.41	330	P	45	08.60	0.8		
SRO	76.44	332	iP	44	26.10	0.8	KHL	80.72	320	eP	44	47.00	-1.9	ROI	84.41	330	P	45	08.50	0.6		
			e	01	28.00		LPF	80.80	345	iPc	44	49.40	0.3	CZI	84.88	330	P	45	09.40	-0.7		
DLF	76.44	350	eP	44	25.00	-0.2		0.9s	85.15nm			5.8mb		GRI	85.15	330	P	45	12.20	0.6		
ZST	76.45	333	eP	44	25.80	0.4	KNT	80.83	326	ePc	44	49.46	0.1	EPF	85.38	343	eP	45	13.20	0.5		
DCN	76.48	350	iPd	44	26.00	0.5	KNT	80.83	326	ePc	44	49.77	0.4		1.0s	13.00nm		5.1mb					
	0.8s	142.00nm			6.0mb		MMK	80.85	338	ePd	44	50.90	1.2	MBH	85.49	312	eP	45	13.80	0.3		
BUD	76.52	332	eP	44	26.00	0.2	LBF	80.86	341	eP	44	49.50	0.0	SOI	85.94	330	P	45	15.50	0.0		
KHC	76.58	336	iPd	44	21.90	-4.3X	SSF	80.89	342	eP	44	49.80	0.2	USI	86.27	332	P	45	17.50	0.4		
	1.0s	28.50nm			5.2mb		DIX	80.96	339	ePd	44	51.00	0.7	MRWA	86.40	215	eP	45	18.20	0.5		
			e	45	21.60	253kmX	EMS	81.08	339	ePd	44	52.00	1.2		0.6s	7.00nm		5.1mb					
VKA	76.62	334	i(P)	44	26.90	0.6	OUR	81.16	325	iPc	44	50.58	-0.4	TOL	89.23	345	eP	45	14.50	-16.9X		
GRF	76.67	338	ePc	44	26.90	0.3	AVF	81.18	342	iPc	44	51.30	0.2	TIC	121.69	338	PKP	51	29.66	-0.2		
	1.0s	86.00nm			5.7mb		SMF	81.21	341	eP	44	51.40	0.1	KIC	121.89	338	PKP	51	30.04	-0.2		
Z	20s	0.50um			4.8Msz			1.1s	78.15nm			5.6mb		LIC	122.10	338	PKP	51	30.44	-0.1		
		ic		44	27.50	2kmX	ORX	81.24	338	P	44	51.61	0.0	MTD	125.09	286	iPKPd	51	33.70	-2.7X		
WET	76.75	336	iPd	44	28.00	0.9	CMS	81.33	189	eP	44	53.00	1.1	KRI	126.35	288	iPKPd	51	40.30	1.3		
	1.2s	121.00nm			5.8mb		BGF	81.50	342	eP	44	53.20	0.4	BUL	129.47	286	iPKPd	51	42.10	-2.7X		
ENN	76.86	341	iPd	44	28.40	0.8		1.2s	38.70nm			5.3mb			0.3s	116.88nm							
	1.0s	135.00nm			5.9mb		RSL	81.51	339	P	44	53.26	0.2	LPB	131.19	64	PKP	51	49.00	0.5		
UCC	77.15	342	P	44	29.70	0.5	LFK	81.54	316	iP	44	51.00	-2.2				e	55	12.00				
BNH	77.31	33	iP	44	30.00	-0.2	LSD	81.61	339	P	44	54.58	0.9	CNCB	131.47	64	iPKPd	51	50.20	1.0		
SNF	77.44	342	iPc	44	30.67	-0.1	PAIG	81.62	325	ePc	44	52.74	-0.7				i	55	17.00				
DOU	77.77	342	iPd	44	33.10	0.4	LPL	81.65	339	iPc	44	54.80	0.9	SLR	133.73	281	iPKPd	51	52.00	-0.8		
	0.9s	82.50nm			5.8mb		LPG	81.66	339	iPc	44	55.00	1.0		1.0s	23.00nm						
BHD	77.91	307	ePd	44	32.50	-1.2		0.8s	62.95nm			5.7mb		SIV	134.69	56	PKP	51	41.60	-13.1X		
BHG	78.06	336	iPd	44	35.50	1.2	SFI	81.84	335	P	44	56.10	1.6				i	51	55.40				
	1.2s	51.00nm			5.4mb		RSP	81.87	339	P	44	54.48	-0.4	SEK	135.95	279	iPKPd	51	57.70	0.8		
FUR	78.07	337	iPd	44	35.40	1.0	MAF	81.88	342	iPc	44	55.50	0.7		0.7s	13.70nm							
	1.0s	73.00nm			5.7mb		TCF	81.89	342	iPc	44	55.10	0.3	BLF	137.40	280	iPKPd	52	02.00	2.3		
GWF	78 18	340	P	44	34.69	-0.3	ELL	81.89	319	iP	44	54.50	-0.6	KIM	138.06	282	iPKPd	52	02.00	1.1		
BEO	78.43	330	eP	44	35.80	-0.6	CSS	81.90	316	eP	44	55.00	0.0	FRS	138.39	280	ePKP	51	50.80	-10.5X		
KBA	78.53	335	PKPc	44	37.80	0.7	MME	81.90	336	P	44	56.30	1.1	SPA	139.45	180	ePKP	51	49.00	-13.2X		
	0.9s	119.00nm			5.9mb		LIT	81.91	326	iPc	44	54.01	-1.0		0.7s	7.03nm						
		i		44	38.40	2kmX	PGD	81.92	335	P	44	57.00	1.8	BAO	140.65	39	e(PKP)	52	04.00	-1.8		
CDF	78.79	340	P	44	38.10	-0.4	ARV	81.93	334	P	44	56.00	0.9	CER	144.63	281	iPKPd	52	11.50	-0 7		
WTTA	78.81	336	iPKPc	44	39.10	0.4	MFF	82.03	344	iPc	44	56.20	0.7		0.7s	35.00nm							
	1 0s	122.00nm			5.9mb			0.9s	55.70nm			5.6mb		PPD	144.75	49	ePKP	52	11.30	-1.4		
		i		44	39.80	2kmX	BDI	82.05	336	P	44	55.90	0.1				e	52	12.50				
PTJ	78.86	333	iPc	44	38.50	-0.3	LSF	82.06	343	iPc	44	56.10	0.4				e	52	30.00				
ZAG	78.93	333	iPc	44	39.00	-0.1	CRE	82.09	335	P	44	57.00	1.0	ITB1	145.34	55	PKPc	52	18.50	5.0X		
LIBD	78.97	339	P	44	39.62	0.4	BNI	82.10	339	P	44	57.60	1.5	VAO	147.62	43	ePKP	52	20.60	3.2X		
ECH	79.01	340	P	44	39.58	0.1	PCP	82.13	338	P	44	56.22	0.1				e	52	33.50				
IZI	79.03	322	eP	44	40.00	0.2	BHB	82.16	338	P	44	55.20	-1.1	BMA	148.55	39	ePKP	52	23.50	4.6X		
RBL	79.05	335	P	44	40.10	0.3	HRI	82.19	313	eP	44	57.30	0.6	NVL	153.23	205	PKPc	52	31.00	6.7X		
SLE	79.12	339	ePd	44	40.10	-0.1	RRL	82.20	339	P	44	57.66	0.9				e	52	44.00				
FVI	79.12	335	Pc	44	39.90	-0.2	STK	82.25	193	eP	44	57.20	0.6				e	53	13.00				
FEL	79 13	339	P	44	39.89	-0.4		1.1s	3.10nm			4.3mb	X				e	53	19.00				
LJU	79 14	334	eP	44	40.50	0.2	CKI	82.31	338	P	44	57.30	0.3	AIA	153.69	142	e(PKP)	52	33.00	7.9X		
TBR	79.19	37	eP	44	39.60	-1.0	ASS	82.40	334	P	44	58.00	0.4		S.D. = 0.8		on 271 of 293 obs.						
VITF	79 26	340	P	44	40.82	-0.1	PZZ	82.52	338	P	44	57.56	-0.7	----------									
OGA	79.33	337	eP	44	42.10	0.5	FIN	82.53	338	P	44	57.76	-0.4	?	SEP	22,	1991	06h	47m	59.39±	4.47s		
		i		44	42.80	2kmX	ROB	82.53	338	P	44	58.07	-0.2		6.564 S	±31.8km		129.941 E	±22.4km				
VOY	79.33	335	ePc	44	40.40	-1.0	ENR	82.70	338	P	44	57.76	-1.4		DEPTH = 151.2 ± 47.0 km								
MOF	79 35	340	P	44	41.17	-0.3	STV	82.71	338	P	44	57.56	-1.7		4.6mb (3 obs.)								
HAU	79 39	340	eP	44	41 40	-0.2	AOU	82.85	333	P	45	01.10	1.2	BANDA SEA								(280)	
	0.8s	43.00nm			5.5mb		IMI	82.89	338	P	45	00.12	0.0										
ZLA	79.41	339	ePd	44	42.10	0.3	AGG	82.92	326	ePd	44	58.54	-1.8	MTN	6.35	169	eP	49	32.00	0.2			
VBY	79.43	333	ePc	44	41.50	-0.3	RJF	82.97	343	eP	45	01.00	0.6				eS	50	39.00				
BSF	79 45	340	eP	44	41.70	-0.3		1.2s	71.40nm			5.7mb		KNA	9.20	187	eP	50	10.00	0.1			
	0.9s	42.60nm			5.5mb		BRT	83.03	330	P	45	00.80	0.0				eS	51	56.50				
CEY	79.45	334	ePc	44	41.40	-0.6	MNS	83.03	334	P	45	00.91	0.1	WR2	13.98	163	iPc	51	08.90	-3.3X			
GBTN	79.48	46	P	44	41.50	-0.8		0.1s	3.80nm			5.5mb			0.3s	11.30nm				4.7mb			
BBS	79.63	339	P	44	43.31	0.4	SBF	83.04	338	eP	45	01.00	0.1				eS	53	36.60				
TRI	79.67	334	Pc	44	42.40	-0.6		1.0s	68.00nm			5.7mb		OIS	16.77	147	iPc	51	46.30	-0.6			
OSS	79.73	337	ePd	44	44.00	0.4	DUI	83.17	332	P	45	02.50	0.9		0.3s	9.00nm				4.6mb			
ARMA	79.82	184	eP	44	46.00	1.9	CAF	83.22	342	eP	45	02.80	1.0				eS	54	39.70				
RIY	79.83	334	eP	44	43.30	-0.6		1.2s	74.40nm			5.7mb		ASPA	17.43	168	iPd	51	54.80	-0.1			
LLS	79.84	338	ePd	44	44.80	0.5	LCI	83.27	329	P	45	01.80	-0.2		0.7s	24.90nm				4.7mb			
ALN	79.89	324	iPd	44	44.41	0.1	LFF	83.47	343	eP	45	03.90	0.9				eS	54	59.90				
LOMF	79.90	340	P	44	44.31	-0.1		1.2s	83.30nm			5.8mb		CTAO	20.77	132	iPc	52	30.50	0.4			
BLA	79.94	43	P	44	45.00	0.2	FRF	83.52	338	eP	45	03.70	0.4	GUN	54.62	311	P	57	15.40	0.2			
	1.0s	30.00nm			5.3mb			1.2s	59.50nm			5.6mb		PKI	54.80	310	P	57	16.23	-0.2			
FLN	80.00	345	iPc	44	44.70	-0.1	CDR	83.61	339	iPd	45	04.80	1.0	KKN	55.01	311	P	57	17.60	-0.2			
	0.8s	75.20nm			5.8mb		LPO	83.63	343	eP	45	04.80	1.0	DMN	55.05	310	P	57	18.20	0.1			

22d 06h

GKN 55.61 310 P 57 22.00 0.0
CNCB 150.79 143 PKP 07 38.90 7.9X
LPB 150.93 142 PKP 07 38.30 7.3X
S.D. = 0.3 on 10 of 13 obs.

? SEP 22, 1991 07h 00m 16.81± 8.74s
18.657 N ±32.7km 68.280 W ±67.1km
DEPTH = 10.0km (geophysicist)
MONA PASSAGE (89)

MCP 1.13 102 P 00 38.00 -0.1
MGP 1.30 120 P 00 41.00 0.1
APR 1.48 98 P 00 43.70 0.2
S 01 14.20
CLLP 1.72 109 P 00 47.00 0.1
SJG 2.09 105 iP 00 51.90 -0.5
S 01 29.90
LPR 2.31 98 P 00 55.80 0.2
S.D. = 0.3 on 6 of 6 obs.

? SEP 22, 1991 07h 20m 54.25± 4.61s
31.954 S ±43.6km 70.505 W ±27.5km
DEPTH = 110.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)

JACH 0.73 186 iP 21 13.00 -0.2
iS 21 31.50
ROCH 1.10 203 eP 21 17.20 0.1
eS 21 39.30
PEL 1.20 187 iPd 21 18.00 0.1
iS 21 40.10
PCH 1.66 180 iPc 21 24.00 0.5
iS 21 51.50
TACH 1.73 192 iPc 21 24.20 -0.1
LCCH 1.76 210 iPc 21 25.00 0.3
CHCH 1.98 184 iPc 21 27.30 -0.2
iS 21 58.00
LNV 2 14 201 iPc 21 29.00 -0.5
iS 22 01.10
S.D. = 0.4 on 8 of 8 obs.

% SEP 22, 1991 07h 57m 41.86± 2.74s
11.243 N ± 9.9km 61.899 W ±17.4km
DEPTH = 104.7 ± 31.7 km
WINDWARD ISLANDS (95)
MD 3.5 (TRN).

TCE 0.56 165 eP 57 58.62 -0.2
eS 58 10.76
TRN 0.77 140 eP 58 00.53 0.0
eS 58 13.68
GRW 0.94 14 eP 58 02.42 0.0
eS 58 16.93
TPP 1.02 154 eP 58 03.23 0.1
eS 58 18.82
TPR 1.10 93 eP 58 04.09 0.0
eS 58 20.40
TBH 1.11 133 eP 58 04.22 0.1
eS 58 21.06
BOT 1.16 94 eP 58 04.55 -0.1
SVB 2.11 17 eP 58 17.03 0.4
eS 58 42.82
SLB 2.70 18 eP 58 24.11 -0.4
eS 58 56.74
S.D = 0.3 on 9 of 9 obs.

• SEP 22, 1991 08h 05m 13.30± 2 98s
45.060 N ±13.2km 5.792 E ±27.0km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2 2 (LDG).

BNI 0.63 90 P 05 25.50 -0.5
eSg 05 35.00
LPL 0.81 55 Pg 05 29.20 0.1
LPG 0.81 57 Pg 05 29 20 0.0
Sg 05 43.60
FRF 1 62 157 Pg 05 41.50 -0.5
Sg 06 03.20
LRG 1 66 166 Pg 05 42.40 -0 1
Sg 06 04.40
SBF 1 68 135 Pg 05 43.80 0 9
Sg 06 06.80
S.D = 0.7 on 6 of 6 obs.

% SEP 22, 1991 08h 18m 27.42± 5.29s
40.496 N ±11.5km 30.494 E ±40 4km
DEPTH = 10 0km (geophysicist)
TURKEY (366)

GPA 0.25 214 iPg 18 32.60 -0.1
eSg 18 37.60
HRT 0.71 298 iPg 18 40.50 -0.9
IZI 0.80 259 iPn 18 43.50 0.6
YLV 0.86 275 ePn 18 43.50 -0.5
ISK 1.23 298 ePn 18 51.00 0.7
CTT 1.70 293 ePn 18 57.50 0.3
S.D. = 0.8 on 6 of 6 obs.

& SEP 22, 1991 11h 24m 19.77s
59.199 N 152.171 W
DEPTH = 61.9km
SOUTHERN ALASKA (2)
<AEIC>. ML 3.0 (AEIC).

HOM 0.53 30 ePd 24 31.83 -0.5
eS 24 41.38
CNPM 0.58 55 iPd 24 32.25 -0.6
eS 24 42.19
SYI 0.60 191 iPd 24 32.30 -0.8
eS 24 42.42
AUE 0.64 285 eP 24 33.01 -0.5
eS 24 43.46
AUI 0.66 282 ePd 24 33.08 -0.7
iS 24 43.18
AUP 0.66 285 eP 24 33.41 -0.5
AGU 0.67 285 eP 24 33.76 -0.2
AUH 0.67 285 eP 24 33.64 -0.4
AUL 0.67 286 iPc 24 33.60 -0.3
eS 24 44.31
AUW 0.69 285 eP 24 33.73 -0.4
OPT 0.71 311 iPc 24 33.76 -0.6
eS 24 43.97
CDD 0.81 251 iPd 24 34.90 -0.7
NNL 0.96 27 iPd 24 37.84 0.4
INE 0.98 333 ePc 24 36.83 -1.0
INW 1.00 331 ePc 24 37.68 -0.4
RED 1.26 346 iPc 24 40.82 -0.8
eS 24 57.48
RS1 1.30 347 iPc 24 41.65 -0.6
RSO 1.30 347 iPc 24 41.66 -0.6
RS2 1.30 347 iPc 24 41.68 -0.6
eS 24 58.87
REF 1.32 349 iPc 24 41.91 -0.7
eS 24 59.15
RDW 1.33 346 iPc 24 41.95 -0.7
RDN 1.35 347 iPc 24 42.31 -0.6
eS 25 00.05
RDT 1.38 355 ePn 24 42.64 -0.7
NCT 1.42 345 eP 24 43.17 -0.7
DFR 1.42 350 eP 24 43.28 -0.6
KDC 1.47 187 eP 24 43.54 -0.8
SLKM 1.64 36 eP 24 46.13 -0.7
SEW 1.65 56 eP 24 45.61 -1.3
SPU 1.99 2 ePd 24 51.45 -0.2
CKL 2.01 358 ePc 24 51.84 -0.1
BGL 2.07 357 eP 24 53.44 0.5
CGLM 2.12 2 eP 24 53.65 0.2
NCG 2.21 0 ePd 24 55.07 0.2
LTI 2.35 67 eP 24 55.68 -1.0
SUA 2.38 17 ePd 24 56.79 -0.4
PMS 2.43 31 ePd 24 57.19 -0.6
KNIM 2.52 61 ePd 24 57.50 -1.6
SVW 2.58 319 eP 24 58.57 -1.3
PWA 2.71 24 ePc 25 01.70 0.0
SKT 2.81 6 ePd 25 02.89 -0.3
PLRM 2.84 31 ePd 25 02.13 -1.4
KNK 2.89 38 ePd 25 02.83 -1.5
GHO 3.04 31 eP 25 05.07 -1.5
GLI 3.05 54 eP 25 03.91 -2.7
FID 3.26 59 ePd 25 06.43 -3.1
CUT 3.35 15 eP 25 10.03 -0.7
VZW 3.37 54 eP 25 09.04 -2.1
VLZ 3.50 54 eP 25 10.69 -2.2
SGAM 3.75 67 eP 25 14.07 -2.3
KLU 3.87 51 ePd 25 16.09 -2.0
50 obs. associated

• SEP 22, 1991 11h 33m 24.29± 2.99s
32.939 S ±13.7km 71.080 W ± 8.2km
DEPTH = 65.5 ± 29.1 km
NEAR COAST OF CENTRAL CHILE (135)

ROCH 0.07 119 iP 33 34.20 -0.3
iS 33 41.00
PEL 0.39 122 iPc 33 36.20 0.3
iS 33 44.70
IHA 0.48 260 iPc 33 37.10 0.5
iS 33 41.50
JACH 0 48 58 iPc 33 36.70 -0.1
iS 33 46.00
SAN 0.62 146 iPc 33 38.20 0.0
iS 33 48.50
LCCH 0.67 217 iP 33 38.50 -0.3
iS 33 49.20
TACH 0.72 171 iPc 33 39.60 0.2
iS 33 50.80
PCH 0.83 145 iP 33 40.50 -0.2
iS 33 53.00
LNV 1.05 195 iPd 33 43.00 -0.4
CHCH 1.05 160 iPc 33 44.00 0.4
iS 33 56.00
S.D. = 0.4 on 10 of 10 obs.

SEP 22, 1991 11h 34m 31.28± 0.92s
41.890 N ± 7.6km 22.893 E ± 9.4km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)

KNT 0.73 180 iPc 34 44.66 -0.9
eS 34 53.22
SRS 0.93 146 ePc 34 49.46 0.4
eS 35 03.74
SKO 1.09 275 ePn 34 51.30 -0.4
iPg 34 55.90
iSn 35 06.50
i 35 10.00
Lg 35 13.80
SOH 1.12 162 ePc 34 52.70 0.4
eS 35 07.46
THE 1.26 178 ePc 34 54.42 -0.2
OHR 1.75 244 ePn 35 03.00 1.0
BZS 3.84 346 ePc 35 31.50 -0.1
MLR 4.23 31 ePc 36 04.00 26.7X
VRI 4.85 34 ePc 36 04.00 18.0X
S.D. = 0.8 on 7 of 9 obs.

? SEP 22, 1991 11h 40m 21.68± 4.54s
32.506 S ±37.1km 70.954 W ±15.5km
DEPTH = 33.0km (normal)
CHILE-ARGENTINA BORDER REGION (127)

JACH 0.35 120 iPc 40 30.20 0.0
iS 40 40.60
ROCH 0.47 186 iPc 40 33.00 1.0
iS 40 45.40
PEL 0.67 161 iPc 40 35.20 0.4
iS 40 49.00
LCCH 1.10 208 iP 40 41.00 0.2
TACH 1.14 179 iPd 40 41.50 0.1
iS 41 02.70
PCH 1.17 162 eP 40 42.00 0.1
iS 41 01.50
CHCH 1.45 170 iPc 40 45.00 -0.8
iS 41 09.00
LNV 1.50 195 iP 40 45.50 -1.0
iS 41 09.50
S.D. = 0.7 on 8 of 8 obs.

SEP 22, 1991 12h 05m 31.42± 0.82s
44.239 N ± 3.6km 6.347 E ± 6.9km
DEPTH = 5.0km (geophysicist)
FRANCE (538)
ML 2.2 (LDG).

PZZ 0.60 64 P 05 43.73 0.2
S 05 51.33
STV 0.70 89 P 05 44.96 -0.5
S 05 53.28
FRF 0.71 162 Pg 05 45.80 0.2
Sg 05 55.60
RRL 0.75 24 P 05 46.40 0.0
S 05 55.83
ENR 0.77 91 P 05 46.19 -0.8
S 05 55.43
LRG 0.78 179 Pg 05 47.00 -0.1
Sg 05 59.20
SBF 0.87 115 Pg 05 49.00 0.3
Sg 06 02.00
BHB 0.89 47 P 05 48.25 -0.7
S 05 59.63

LMR	0.91	173	Pg	05 49.20	-0 1
			Sg	06 02.80	
ROB	1.10	87	P	05 52.76	0.3
RSP	1.12	35	P	05 53.06	0.1
			S	06 08.86	
IMI	1.16	106	P	05 54.40	0.8
			S	06 00.71	
LPG	1.29	13	Pg	05 57.00	1.0
			Sg	06 15.20	
FIN	1.34	91	P	05 57.99	1.4

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

% SEP 22, 1991 12h 52m 38.89± 2.51s
44.674 N ± 7.6km 6.714 E ±21.3km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.1 (GEN).

RRL	0.25	12	P	52 45.03	0.7
			S	52 48.52	
PZZ	0.32	121	P	52 46.67	1.0
			S	52 51.18	
BHB	0.43	67	P	52 47.70	0.1
			S	52 53.23	
STV	0.61	134	P	52 51.08	-0.2
RSP	0.61	39	P	52 50.36	-1.0
ENR	0.68	131	P	52 51.80	-0.6

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

? SEP 22, 1991 12h 58m 48.00± 7.14s
16.016 N ±12.0km 60.661 W ±60.8km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)
ML 2.4 (FDF).

DEG	0.48	308	ePd	58 57.89	-0.5
			S	59 03.10	
SFG	0.57	295	eP	58 59.00	-0.5
MGG	0.64	261	ePc	59 00.70	0.2
			S	59 08.80	
SEG	0.90	295	ePd	59 04.10	-0.1
			S	59 13.00	
BBL	0.93	238	eP	59 04.40	-0.3
			S	59 15.00	
PAG	0.98	271	eP	59 05.60	0.1
			S	59 17.80	
BPA	1.54	312	eP	59 13.80	0.4

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

& SEP 22, 1991 13h 22m 32.38s
61.351 N 150.736 W
DEPTH = 50.0km
SOUTHERN ALASKA (2)
<AEIC>. ML 2.5 (AEIC).

SUA	0.11	358	iPd	22 40.57	1.8
			eS	22 47.69	
PWA	0.51	53	eP	22 43.41	-0.4
PMS	0.58	100	eP	22 43.94	-0.8
			eS	22 54.22	
CGLM	0.61	266	iPd	22 44.72	-0.5
			eS	22 54.89	
SPU	0.66	256	iPd	22 45 18	-0.6
			eS	22 55.59	
NCG	0.69	275	iPd	22 45.65	-0.5
			eS	22 56.78	
SKT	0.74	329	iPd	22 45.90	-0 9
			eS	22 57.29	
CKL	0.79	259	iPd	22 46.82	-0 7
BGL	0.80	264	iPd	22 47.04	-0.7
PLRM	0.81	72	eP	22 46.62	-1.0
			eS	22 58.18	
SLKM	0.88	163	eP	22 47.67	-1.1
			eS	23 00.97	
GHO	0.96	63	eP	22 49.04	-0 9
			eS	23 02.77	
CUT	1.08	12	eP	22 50.60	-0.8
KNK	1.10	86	eP	22 50.82	-0.9
			eS	23 05.73	
RDT	1.13	227	ePd	22 51.43	-0.7
SML	1.24	67	eP	22 52.65	-1.0
			eS	23 08.85	
REF	1.29	229	eP	22 53.92	-0.6
RDN	1 30	231	eP	22 53.53	-1.1
			eS	23 11.40	
RSO	1.33	229	eP	22 54.34	-0.8
RDW	1.34	230	eP	22 54.58	-0.6
NNL	1.34	192	eP	22 55.33	0.3
RED	1.37	228	eP	22 54.84	-0.7
			eS	23 13.00	
SEW	1.40	153	eP	22 56.51	0.6
INE	1.73	222	eP	23 00.44	-0.2
INW	1.75	224	eP	23 00.90	0.0
KNIM	1.78	123	eP	22 58.43	-2.8
GLI	1.83	103	eP	22 59.27	-2.7
CNPM	1.85	188	ePc	23 00.89	-1.3
LTI	1.93	132	eP	23 00.67	-2.7
TRF	2.12	5	eP	23 05.65	-0.5
FID	2.16	104	eP	23 03.45	-3.1
KTH	2.21	358	eP	23 07.04	-0.4

32 obs. associated

? SEP 22, 1991 13h 25m 13.29± 1.00s
48.002 N ±13.1km 6.427 E ± 7.0km
DEPTH = 5.0km (geophysicist)
FRANCE (538)
ML 2.1 (LDG).

HAU	0.05	274	Pg	25 13.70	-1.1
			Sg	25 14.50	
BSF	0.30	125	Pg	25 18.90	-0.5
			Sg	25 23.50	
CDF	0.70	54	Pg	25 27.60	0.3
			Sg	25 37.00	
LOR	1.89	248	Pg	25 47.50	1.0
			Sg	26 10.40	
SMF	2.22	233	Pg	25 53.60	2.3X
			Sg	26 21.60	

S.D. = 1.6 on 4 of 5 obs.

% SEP 22, 1991 13h 43m 08.13± 0.59s
41.127 N ± 7.9km 28.473 E ± 5.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

CTT	0.04	302	iPg	43 10.00	-0.2
ISK	0.45	98	ePg	43 17.00	-0.2
DMK	0.88	322	iPg	43 25.20	0.2
			iSg	43 37.70	
YLV	0.88	129	ePg	43 25.00	-0.1
			eSg	43 37.00	
HRT	0.95	108	iPg	43 26.50	0.2
			eSg	43 40.50	
IZI	1.10	136	iPn	43 29.00	0.2
KGT	1.12	233	iPn	43 29.00	0.0

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

• SEP 22, 1991 16h 03m 30.95± 1.80s
1.733 N ±10.8km 128.723 E ±17.0km
DEPTH = 65.1 ± 15.7 km
4.8mb (6 obs.)
HALMAHERA, INDONESIA (267)

MNI	3.89	266	eP	04 30.00	0.4
CGP	7.79	329	eP	05 23.50	-0.5
WR2	22.25	166	iPc	08 23.30	-0.4
	0.6s		23 70nm	4.8mb	
			i	08 28.10	
QIS	24.59	155	iPd	08 47.20	0.8
	0.9s		56.00nm	5.0mb	
ASPA	25.74	169	iPd	08 56.80	-0.5
	1.1s		6.50nm	4.1mb	
CHG	33.76	302	eP	10 09.00	0.3
STK	35.59	161	iPd	10 24.10	-0.1
	0.5s		6.70nm	4.8mb	
LZH	41.22	329	eP	11 12.50	1.2
	1.8s		28.00nm	4.8mb	
GUN	48.50	307	P	12 10.20	0.3
	0.5s		10.00nm	5.1mb	
PKI	48.74	306	P	12 11.00	-0.7
KKN	48.94	306	P	12 12.60	-0.5
GKN	49.54	306	P	12 17.20	-0.5

S.D. = 0.7 on 12 of 12 obs.

& SEP 22, 1991 16h 08m 02.97s
63.181 N 151.690 W
DEPTH = 12.4km
CENTRAL ALASKA (1)
<AEIC>. ML 2.8 (AEIC).

KTH	0.51	42	eP	08 12.81	-0.5
TRF	0.69	66	eP	08 16.13	-0.4
HUR	0.96	101	eP	08 20 66	-0.3
			eS	08 34.08	
CUT	1.02	139	iP	08 22.42	0.5
			eS	08 35.44	
SKT	1.21	176	iP	08 25.36	0.1
			eS	08 41.39	
RND	1.30	79	eP	08 26.74	-0.1
			eS	08 45.31	
MCK	1.36	65	eP	08 28.07	0.4
			eS	08 46.31	
BWN	1.40	44	eP	08 27.49	-0.8
			eS	08 49.32	
PWA	1.75	150	eP	08 33.29	0.0
			eS	08 57.85	
SUA	1.78	165	eP	08 34.41	0.6
			eS	08 58.25	
NCG	1.80	187	eP	08 34.21	0.2
			eS	08 58.44	
NEA	1.82	38	eP	08 32.13	-2.1
CGLM	1.89	185	eP	08 35.34	0.0
GHO	1.91	137	eP	08 36.79	1.1
BGL	1.95	190	eP	08 37.09	0.8
TTA	1.98	265	eP	08 38.67	2.0
			eS	09 04.69	
PLRM	1.99	142	eP	08 36.79	0.1
SPU	2.01	185	eP	08 37.69	0.6
			eS	09 03.69	
CKL	2.02	189	eP	08 38.29	1.1
WRH	2.06	49	eP	08 35.52	-2.1
SML	2.08	130	eP	08 37.84	-0.2
PMS	2.18	152	eP	08 40.07	0.5
CCB	2.26	48	eP	08 38.27	-2.4
KNK	2.33	138	eP	08 42.55	0.9
			eS	09 11.78	
MDM	2.34	39	eP	08 39.59	-2.3
FBA	2.43	43	eP	08 44.65	1.6
HDA	2.44	58	eP	08 45.20	2.1
GLM	2.62	44	eP	08 43.59	-2.2
RDN	2.72	191	eP	08 45.38	-2.0
REF	2.74	191	eP	08 48.46	0.8
RDW	2.76	192	eP	08 49.50	1.6
TOA	2.77	111	eP	08 48.36	0.4
SLKM	2.77	165	eP	08 48.50	0.5
SVW	2.78	223	eP	08 52.50	4.4
PAX	2.84	91	eP	08 48.71	-0.2
IMA	3.02	344	eP	08 50.17	-1.4
KLU	3.18	120	eP	08 54.30	0.6
VLZ	3.25	127	eP	08 55.04	0.4
SEW	3.27	160	eP	08 57.34	2.4
KNIM	3.41	145	eP	08 55.82	-1.1
FID	3.46	132	eP	08 57.61	-0.1
LTI	3.65	148	eP	08 59.48	-0.8
CNPM	3.67	176	eP	09 01.22	0.5
GLB	4.07	112	eP	09 06.50	0.2

44 obs. associated

• SEP 22, 1991 16h 09m 36.98± 0.68s
6.935 N ± 7.9km 73.114 W ± 9.8km
DEPTH = 157.3 ± 7.6 km
4.3mb (2 obs.)
NORTHERN COLOMBIA (99)

BMG	0.14	16	eP	10 00.00	0.4
FUO	1.58	203	eP	10 08.00	-0.6
BOG	2.48	202	iPc	10 20.00	0.9
			eS	10 51.00	
HOBC	3.95	230	ePd	10 37.36	-0.2
			eS	11 16.50	
BUGC	4.35	226	eP	10 43.61	0.8
CLMC	4.58	229	eP	10 46.23	0.3
HOOC	4.91	226	ePc	10 50.15	-0.3
ANCC	5.05	228	iPc	10 51.91	-0.1
PURC	5.61	215	eP	11 00.10	0.1
UPA	6.68	288	(P)	11 12.00	-1.8
CUMC	7.60	219	ePc	11 26.66	0.0
ZOBO	23.58	168	P	14 36.00	0.8
			i	15 07.00	
CNCB	24.13	168	P	14 40.00	-0.5
SCH	48.02	5	eP	18 03.00	1.2
YKA	63.16	340	eP	19 49.90	-0.1
	0.6s		3.20nm	4.4mb	
LIC	67.59	86	P	20 17.80	-1.3
KIC	67.86	86	P	20 19.50	-1.3
MBC	73.69	350	eP	20 56.50	1.8
	0.5s		2.00nm	4.1mb	
ASPA	149.18	234	ePKP	29 08.60	4.0X
	0.8s		2.80nm		
WR2	150.37	241	iPKPc	29 11.60	5.2X
	0.4s		3.40nm		

22d 16h

i 29 53.10
S.D. = 1.0 on 18 of 20 obs.

? SEP 22, 1991 18h 01m 44.76± 4.67s
49.461 S ±73.1km 159.687 E ± 8.1km
DEPTH = 10.0km (geophysicist)
4.1mb (1 obs.)
NORTH OF MACQUARIE ISLAND (165)

BCZ 6.49 61 Pc 03 23.70 1.1
eS 04 32.70
MSZ 7.38 53 P 03 36.70 1.6
eS 04 53.80
TUZ 7.57 66 P 03 38.10 0.4
eS 04 57.20
CMCZ 7.81 60 P 03 41.30 0.1
eS 05 03.00
LSCZ 7.89 60 P 03 43.20 1.0
BWZ 8.53 59 P 03 50.20 -1.0
ODZ 8.66 63 P 03 51.30 -1.7
EWZ 9.73 57 eP 04 06.90 -0.7
WVZ 9.96 54 eP 04 11.50 0.7
TAU 10.78 303 eP 04 21.00 -1.1
eS 06 11.00
LTZ 10.99 57 P 04 23.50 -1.4
DSZ 11.46 52 eP 04 31.00 -0.4
ASPA 32.74 312 iPd 08 21.10 1.4
1.6s 4.30nm 4.1mb
S.D. = 1.2 on 13 of 13 obs.

& SEP 22, 1991 19h 02m 51.35s
60.420 N 152.756 W
DEPTH = 121.9km
SOUTHERN ALASKA (2)
<AEIC>.

RS1 0.04 359 eP 03 07.25 0.4
RSO 0.04 1 eP 03 07.30 0.5
RDW 0.07 337 eP 03 07.43 0.6
REF 0.07 21 iP 03 07.67 0.8
eS 03 21.14
RDN 0.09 358 iP 03 07.38 0.6
INE 0.39 203 eP 03 08.34 -1.0
INW 0.40 208 eP 03 08.14 -1.2
CKL 0.81 15 eP 03 11.42 -0.8
eS 03 28.16
OPT 0.81 197 eP 03 11.14 -0.9
NNL 0.82 117 iP 03 12.26 0.1
SPU 0.84 24 iP 03 11.56 -0.8
eS 03 28.13
BGL 0.87 12 eP 03 12.16 -0.5
HOM 0.95 143 iP 03 12.79 -0.5
eS 03 30.04
CGLM 0.96 22 eP 03 12.76 -0.8
NCG 1.03 16 eP 03 13.58 -0.7
CNPM 1.18 139 eP 03 14.53 -1.2
eS 03 33.15
SLKM 1.26 85 eP 03 15.17 -1.4
eS 03 34.98
SUA 1.44 42 eP 03 17.85 -0.8
eS 03 38.82
SVW 1.57 297 eP 03 17.97 -2.1
SKT 1.67 20 iP 03 20.20 -1.2
SEW 1.68 99 eP 03 19.83 -1.5
PMS 1.77 61 eP 03 22.04 -0.5
eS 03 44.94
CUT 2.32 30 eP 03 28.27 -1.2
LTI 2.48 97 eP 03 29.07 -2.4
KNIM 2.49 89 eP 03 30.59 -1.1
MTU 2.59 97 eP 03 31.32 -1.6
TRF 3.26 20 eP 03 40.14 -1.8
27 obs. associated

? SEP 22, 1991 19h 31m 47.88± 2.88s
3.994 N ±22.1km 76.129 W ±37.4km
DEPTH = 33.0km (normal)
COLOMBIA (103)
MD 2.8 (UVC)

BUGC 0.16 232 ePd 31 54.02 -0.3
eS 31 59.10
HOBC 0.36 359 iPd 31 56.62 0.1
eS 32 03.70
CLMC 0.45 256 ePc 31 57.63 -0.2
eS 32 05.40
ANCC 0.88 237 eP 32 04.30 0.4
S.D. = 0.6 on 4 of 4 obs.

? SEP 22, 1991 20h 35m 59.79± 2.59s
5.810 N ±11.3km 126.863 E ±38.7km
DEPTH = 54.5 ± 34.5 km
3.9mb (2 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

BIP 2.48 346 ePc 36 38.00 -0.4
CGP 3.40 321 eP 36 52.00 0.4
eS 37 41.00
MNI 4.78 205 e(P) 37 11.20 0.1
MAP 5.31 328 eP 37 28.00 9.4X
PLP 5.64 341 ePd 37 28.00 4.9X
WR2 26.64 164 eP 41 33.90 -1.5
0.5s 10.40nm 4.7mb X
ASPA 30.09 167 eP 42 07.30 0.8
1.1s 3.10nm 3.9mb
BJI 35.41 346 eP 42 56.50 4.0X
MUN 38.93 194 eP 43 21.40 -0.7
STK 40.03 160 eP 43 32.50 1.3
0.8s 1.40nm 3.9mb
S.D. = 1.3 on 7 of 10 obs.

% SEP 22, 1991 20h 37m 28.23± 1.94s
45.092 N ±14.6km 2.914 E ±14.0km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.1 (LDG).

CAF 0.63 255 Pg 37 39.90 -0.9
Sg 37 49.00
RJF 1.01 283 Pg 37 47.20 -0.2
Sg 38 01.20
LPO 1.29 252 Pg 37 53.00 0.8
Sg 38 10.20
TCF 1.29 338 Pg 37 52.00 -0.2
Sg 38 08.80
BGF 1.47 358 Pg 37 53.60 -1.1
Sg 38 13.80
LSF 1.51 321 Pg 37 56.40 1.0
Sg 38 15.80
SMF 1.68 22 Pg 37 58.00 0.2
Sg 38 19.20
AVF 1.73 10 Pg 37 58.90 0.5
Sg 38 21.00
S.D. = 0.9 on 8 of 8 obs.

% SEP 22, 1991 22h 51m 33.52± 3.36s
48.140 N ±12.5km 2.914 W ±26.2km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 3.3 (LDG).

LPF 1.26 94 Pn 51 57.90 1.0
Pg 51 58.50
Sg 52 13.80
GRR 1.40 79 Pn 51 59.50 0.5
Pg 52 00.70
Sg 52 17.40
FLN 1.73 68 Pn 52 03.90 0.0
Pg 52 06.10
Sg 52 27.30
LDF 1.92 75 Pn 52 07.20 0.7
Pg 52 09.50
Sg 52 32.80
MFF 2.43 128 Pn 52 15.60 1.7
Pg 52 20.60
Sg 52 50.80
LSF 3.57 120 Pg 52 30.60 0.5
TCF 3.95 116 Pg 52 35.30 -0.2
LFF 4.07 140 Pn 52 37.80 0.6
Pg 52 51.80
Sg 53 44.00
RJF 4.16 131 Pn 52 38.60 0.1
Pg 52 52.40
Sn 53 23.60
Sg 53 46.00
MAF 4.20 115 Pn 52 38.60 -0.4
Pg 52 53.40
Sg 53 45.00
BGF 4.22 110 Pn 52 39.50 0.1
Pg 52 54.00
Sg 53 47.00
AVF 4.46 105 Pn 52 41.50 -1.2
Sg 53 54.00
LPO 4.47 139 Pn 52 43.20 0.4
SSF 4.48 102 Pn 52 41.80 -1.1
Sn 53 28.80
Sg 53 53.00
LOR 4.66 98 Pn 52 44.20 -1.3
Sn 53 34.00
Sg 53 58.40
CAF 4.70 131 Pn 52 45.80 -0.4
Sg 54 03.20
SMF 4.83 106 Pn 52 47.60 -0.3
EPF 5.60 155 Pn 52 58.20 -0.7
S.D. = 0.8 on 18 of 18 obs.

% SEP 22, 1991 23h 19m 18.65± 1.67s
15.245 N ± 5.1km 60.641 W ±21.1km
DEPTH = 31.5 ± 9.8 km
LEEWARD ISLANDS (92)
ML 2.6 (FDF).

CRM 0.56 209 iPc 19 29.93 -0.1
S 19 37.40
FDF 0.71 224 iPd 19 32.23 -0.1
0.1s 4.53nm
S 19 41.20
MVM 0.73 200 iPc 19 32.57 -0.1
S 19 42.50
BIM 0.83 210 iPc 19 34.06 -0.1
S 19 44.60
BBL 0.85 289 eP 19 34.20 -0.2
MGG 0.93 316 eP 19 35.38 -0.1
DEG 1.14 339 eP 19 38.23 -0.2
PAG 1.27 308 eP 19 36.50 -3.9X
S 19 55.10
SEG 1.42 324 eP 19 42.80 0.3
BPA 2.14 327 eP 19 52.50 -0.4
S.D. = 0.2 on 9 of 10 obs.

• SEP 22, 1991 23h 51m 39.21± 0.59s
53.426 N ±12.3km 35.126 W ± 7.8km
DEPTH = 10.0km (geophysicist)
4.7mb (14 obs.) 4.1Msz (4 obs.)
NORTH ATLANTIC OCEAN (402)

LPF 22.10 90 eP 56 36.20 0.3
1.2s 29.75nm 4.6mb
RJF 24.98 94 eP 57 05.30 1.3
1.2s 17.85nm 4.6mb
Z 22s 0.70um 4.1Msz
TOL 25.03 110 iPc 57 05.50 0.9
0.9s 29.41nm 5.0mb
BGF 25.12 90 eP 57 05.90 0.5
1.2s 38.70nm 5.0mb
MAF 25.13 91 eP 57 05.60 0.2
1.2s 29.75nm 4.9mb
SSF 25.27 89 eP 57 06.60 -0.2
1.2s 26.80nm 4.8mb
AVF 25.31 89 eP 57 07.00 -0.2
1.0s 36.00nm 5.0mb
LOR 25.38 88 eP 57 07.60 -0.3
1.1s 28.10nm 4.9mb
Z 22s 0.63um 4.1Msz
CAF 25.51 94 eP 57 09.40 0.3
1.2s 14.90nm 4.6mb
LBF 25.59 89 eP 57 09.60 -0.3
1.0s 14.00nm 4.6mb
SMF 25.68 89 eP 57 10.00 -0.6
1.0s 12.00nm 4.5mb
HAU 26.52 85 eP 57 18.10 -0.4
0.8s 10.75nm 4.6mb
Z 22s 0.52um 4.0Msz
CLL 29.03 74 iPc 57 40.50 -0.5
1.4s 13.00nm 4.5mb
BRG 29.75 75 eP 57 52.40 4.9X
KHC 30.29 78 eP 57 52.50 0.1
e 07 22.00
e 57 57.10
KRA 33.55 73 eP 58 25.10 4.2X
SRO 33.68 77 eP 58 14.70 -7.4X
i 58 26.20
MBC 37.60 337 eP 58 56.00 1.0
1.5s 19.00nm 4.6mb
SKO 38.77 84 eP 59 05.00 -0.2
Z 19s 0.92um 4.6Msz
LR 15 22.00
OBN 40.23 58 eP 59 16.00 -1.1
e 59 45.00
SIV 72.65 206 P 03 09.00 0.3
ZOBO 74.99 213 P 03 22.00 -1.0
KKN 84.08 50 P 04 00.00 -11.5X

S.D. = 0.7 on 19 of 23 obs.

? SEP 23, 1991 00h 23m 26.67± 3.22s
22.771 S ±23.1km 70.773 W ±32.6km
DEPTH = 33.0km (normol)
NEAR COAST OF NORTHERN CHILE (122)

ARE	6.31	354	eP	25 01.00	0.8
			iS	26 06.00	
CNCB	6.49	24	P	25 03.30	0.4
LPB	6.70	23	P	25 08.00	2.3X
	1.0s	80.00nm		5.5mb X	
ZOBO	6.93	22	P	25 08.00	-1.1
	1.0s	45.00nm		5.3mb X	
SIV	11.37	55	iPd	26 04.60	-5.3X
ITB1	15.12	100	e(P)	27 08.50	8.9X
PPD	18.01	91	(P)	27 37.00	0.8
KIC	70.71	74	P	34 41.00	-0.9

S.D. = 1.3 on 5 of 8 obs.

% SEP 23, 1991 00h 36m 14.03± 1.00s
46.299 N ±12.1km 2.767 E ± 7.9km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 1.8 (LDG).

MAF	0.16	241	Pg	36 18.20	0.5
			Sg	36 21.20	
BGF	0.26	12	Pg	36 20.00	0.4
			Sg	36 24.80	
TCF	0.39	269	Pg	36 22.00	0.0
			Sg	36 27.00	
AVF	0.64	39	Pg	36 26.60	-0.2
			Sg	36 35.00	
SMF	0.82	65	Pg	36 29.80	-0.1
			Sg	36 40.40	
LSF	0.86	267	Pg	36 30.00	-0.6
			Sg	36 41.20	

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

? SEP 23, 1991 00h 57m 13.11± 9.88s
19.741 S ±68.8km 71.760 W ±52.6km
DEPTH = 33.0km (normol)
OFF COAST OF NORTHERN CHILE (121)

ARE	3.27	5	iP	58 03.60	0.0
			iS	58 31.50	
CNCB	4.62	52	P	58 24.00	0.9
LPB	4.72	48	P	58 25.00	0.7
ZOBO	4.89	46	P	58 25.30	-1.5
SIV	10.84	72	P	59 49.00	-0.1

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

% SEP 23, 1991 01h 36m 49.65± 3.42s
39.455 N ±26.6km 26.641 E ±12.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

EZN	0.44	327	iPg	36 58.60	-0.1
KGT	1.12	27	iPn	37 10.00	-0.6
EDC	1.30	46	ePn	37 14.00	0.4
MFT	1.42	20	ePn	37 16.10	0.6
IZI	2.35	67	ePn	37 29.00	0.0
YLV	2.37	61	ePn	37 29.00	-0.3

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

% SEP 23, 1991 01h 58m 07.82± 1.96s
39.478 N ±18.1km 27.784 E ± 7.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

EDC	0.87	4	ePg	58 25.00	0.5
			eSg	58 38.00	
KGT	1.04	339	ePn	58 27.00	-0.4
EZN	1.18	288	ePn	58 29.90	0.1
IZI	1.56	56	ePn	58 35.80	0.1
YLV	1.63	48	ePn	58 36.50	-0.3

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

? SEP 23, 1991 02h 06m 50.18± 4.65s
4.168 N ±26.2km 76.960 W ±34.8km
DEPTH = 33.0km (normol)
COLOMBIA (103)
MD 2.4 (UVC).

CLMC	0.49	126	iPc	07 01.84	1.1
ANCC	0.65	172	eP	07 03.51	0.5
BUGC	0.75	111	eP	07 03.64	-0.8
			eS	07 13.00	
HOOC	0.77	155	eP	07 03.92	-0.9
HOBC	0.84	77	eP	07 05.92	0.2
			eS	07 17.00	

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

SEP 23, 1991 02h 20m 22.38± 0.32s
47.115 N ± 4.6km 116 523 W ± 2.6km
DEPTH = 1.0km (geophysicist)
WESTERN IDAHO (33)
MD 2.4 (SEA).

WAL	0.51	48	iPc	20 32.80	0.2
			S	20 39.50	
NEW	1.22	341	eP	20 45.70	-0.2
DPW	1.37	304	P	20 48.79	0.3
			S	21 07.53	
OD2	1.52	281	P	20 51.78	1.0
			S	21 11.60	
ET3	1.74	253	Pc	20 53.91	0.0
CRF	1.98	263	P	20 57.12	-0.3
RC1	2.00	266	P	21 01.07	3.4X
WIW	2.02	251	P	20 58.07	0.1
MJ2	2.03	255	P	20 58.19	0.1
LOCW	2.03	260	P	20 58.12	0.0
SAW	2.04	288	P	20 57.94	-0.4
GBL	2.08	257	P	20 58.77	-0.1
EPH	2.11	278	P	21 03.55	4.3X
			S	21 30.19	
WAH2	2.11	261	P	21 00.44	1.1
RSW	2.23	252	P	21 01.00	-0.1
MDW	2.28	258	P	21 01.43	-0.3
BVW	2.32	264	P	21 01.97	-0.4
PRW	2.36	249	P	21 03.06	0.2
DHW2	2.37	293	P	21 07.81	4.8X
			S	21 37.89	
WTV	2.40	285	P	21 10.24	6.7X
BRVW	2.46	256	P	21 10.39	5.9X
ETW	2.63	282	P	21 06.16	-0.8
MXC	2.64	260	P	21 06.66	-0.3
EBG	2.78	267	P	21 08.67	-0.2
LRM	3.10	113	ePn	21 14.30	0.7
HRY	3.24	95	P	21 15.20	-0.3
BGMT	3.64	120	P	21 20.70	-0.6

S.D. = 0.5 on 22 of 27 obs.

* SEP 23, 1991 02h 37m 37.28± 0.97s
7.018 N ± 7.6km 77.919 W ±11.5km
DEPTH = 33 5 ± 21.4 km
PANAMA-COLOMBIA BORDER REGION (82)

UPA	2.52	321	(P)	38 16.80	0.0
HOBC	3.19	146	eP	38 26.56	0.2
CLMC	3.40	157	eP	38 28.71	-0.7
ANCC	3.63	163	eP	38 31.87	-0.8
HOOC	3.75	160	eP	38 33.82	-0.7
PURC	4.92	162	eP	38 53.33	2.0
SDV	7.45	75	eP	39 26.40	-0.3
TOV	8.50	71	eP	39 41.40	0.3
SIV	28.30	144	P	43 30.00	-0.1

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

& SEP 23, 1991 03h 23m 11.80s
36.843 N 121.643 W
DEPTH = 3.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.3 (BRK).

SAO	0.18	116	iPd	23 15.02	-0.4
GCC	0.34	303	iPc	23 19.03	0.4
PRS	0.56	157	iPd	23 22.62	-0.3
PCC	0.88	318	iPc	23 28.50	-0.8
			i	23 43.46	
PRI	1.05	131	iPc	23 32.25	-0.2
BKS	1.13	336	eP	23 33.70	0.0
			i	23 50.10	
ZSP	1.20	336	iPd	23 35.47	0.6
			eS	23 52.33	
PHAM	1.42	135	eP	23 35.80	-2.8
CMB	1.56	40	eP	23 42.89	2.4
FRI	1.56	84	iPc	23 39.02	-1.4
			i	23 58.85	
BCH	2.08	142	eP	23 46.00	-2.2

11 obs. associated

? SEP 23, 1991 03h 34m 16 42± 1.15s
37.382 N ±58.5km 47.868 E ±39.5km
DEPTH = 33.0km (normol)
NORTHWESTERN IRAN (345)

TAB	1.40	300	e(P)	34 40.00	0.0
IR7	2.77	126	ePd	34 58.50	-1.1
IR1	3.00	130	ePd	35 03.00	0.1
IR5	3.08	134	eP	35 03.70	-0.3
IR4	3.25	130	ePd	35 07.50	1.1
TEH	3.27	119	eP	35 07.00	0.3

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

? SEP 23, 1991 04h 06m 39.75± 2.82s
13.802 N ±29.6km 92.841 W ±13.7km
DEPTH = 33.0km (normol)
4.5mb (1 obs.)
OFF COAST OF CHIAPAS, MEXICO (68)

TPX	1.23	27	iP	07 00.50	-0.2
			(S)	07 15.00	
SCX	2.92	4	iP	07 25.00	0.0
			iS	07 56.00	
IISM	6.75	320	eP	08 20.00	0.9
IIT	7.38	315	(P)	08 29.00	0.8
PPM	7.63	314	(P)	08 30.00	-1.9
III	7.83	306	(P)	08 30.00	-4.4X
ALO	24.38	332	eP	11 56.00	-0.3
LRM	35.96	336	eP	13 40.60	1.0
YKA	51.03	347	eP	15 40.00	-0.5
	0.7s	3.90nm		4.5mb	
INK	60.40	344	eP	16 48.00	0.1
GBA	151.12	20	PKPd	26 35.30	9.4X
	0.7s	2.50nm			

S.D. = 1.1 on 9 of 11 obs.

% SEP 23, 1991 04h 11m 25.56± 0.71s
40.436 N ± 6.5km 16.836 E ± 7.5km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

BRT	0.52	32	P	11 34.10	-2.0
			eSg	11 42.30	
BAI	0.68	2	P	11 40.00	0.9
CSI	0.78	213	P	11 39.40	-1.4
MMN	0.85	230	P	11 43.20	1.3
LCI	0.86	96	P	11 43.70	1.6
			eSg	11 57.00	
TDS	0.87	206	P	11 41.90	-0.3
ROI	0.89	193	P	11 42.60	0.0
MGR	1.02	253	P	11 44.80	-0.1
SGO	1.17	276	P	11 48.00	0.6
			eSn	12 03.00	
CZI	1.33	204	P	11 49.50	-0.6

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

& SEP 23, 1991 04h 39m 03.24s
60.670 N 141.570 W
DEPTH = 8.9km
SOUTHEASTERN ALASKA (19)
<AEIC>. ML 2.8 (AEIC).

BCPM	1.20	126	iP	39 24.00	-1.7
			eS	39 40.37	
PNL	1.48	132	eP	39 28.38	-1.7
HON	1.82	131	eP	39 32.96	-2.0
			eS	39 56.68	
KLU	2.27	293	eP	39 38.00	-3.6

4 obs. associated

& SEP 23, 1991 05h 26m 46.21s
63.308 N 149.678 W
DEPTH = 99.2km
CENTRAL ALASKA (1)
<AEIC>.

TRF	0.31	298	iP	27 01.02	-0.2
			eS	27 13.06	
HUR	0.33	177	iP	27 00.81	-0.3
			eS	27 12.25	
RND	0.38	75	eP	27 01.48	0.0
			eS	27 13.18	
MCK	0.54	38	iP	27 02.43	0.0
			iS	27 14.42	
KTH	0.61	294	iP	27 02.69	-0.4
BWN	0.87	6	iP	27 05.32	-0.2
			iS	27 19.90	
CUT	0.95	197	eP	27 05.57	-0.7

23d 05h

		eS	27 21.01			
NEA	1.30 11	eP	27 09.56	-0.8		
WRH	1.36 30	eP	27 10.44	-0.7		
CCB	1 58 31	eP	27 12.87	-0.9		
GHO	1.58 167	eP	27 13.63	-0.3		
		eS	27 35.57			
SKT	1.58 214	iP	27 12.60	-1.3		
		eS	27 33.04			
SML	1.63 157	eP	27 13.90	-0.6		
		eS	27 36.37			
HDA	1.63 46	iP	27 13.75	-0.8		
		eS	27 35.97			
PWA	1.67 183	iP	27 15.06	0.2		
		eS	27 37.22			
PLRM	1.74 171	eP	27 15.16	-0.7		
		eS	27 38.62			
THY	1.77 85	eP	27 17.39	1.1		
MDM	1.78 20	eP	27 15.61	-0.7		
FBA	1.80 27	eP	27 15.94	-0.7		
SUA	1.92 195	eP	27 18.63	0.3		
		S	27 41.70			
PAX	1.94 98	eP	27 18.94	0.4		
		eS	27 43.92			
GLM	1.96 30	eP	27 17.95	-0.9		
KNK	1.99 163	iP	27 18.54	-0.6		
		eS	27 43.92			
TOA	2.02 125	eP	27 20.52	1.0		
SDG	2.05 111	eP	27 19.63	-0.3		
PMS	2.07 178	eP	27 19.76	-0.5		
CGLM	2.28 209	eP	27 22.64	-0.5		
TZL	2.34 121	eP	27 25.66	1.9		
SPU	2.41 209	iP	27 24.31	-0.4		
KLU	2.53 134	eP	27 24.83	-1.5		
VLZ	2.69 143	eP	27 26.34	-2.1		
VZW	2.69 146	eP	27 25.84	-2.7		
FID	2.98 148	eP	27 30.97	-1.4		
LTI	3.39 164	eP	27 35.72	-2.3		
	34 obs. associated					

SEP 23, 1991 06h 54m 26.94±10.26s
4.504 N ±64.5km 76.827 W ±54.6km
DEPTH = 87.9 ± 53.5 km
COLOMBIA (103)
MD 3.5 (UVC).

CLMC	0.67 157	iPd	54 43.84	0.4		
		eS	54 55.10			
HOBC	0.70 102	iPc	54 43.62	-0.1		
		eS	54 54.70			
BUGC	0.83 137	eP	54 45.02	0.0		
		eS	54 57.20			
ANCC	0 98 182	iPd	54 46.71	0 1		
		eS	55 00.10			
HOOC	1.05 169	iPd	54 46.98	-0.6		
		eS	55 00.70			
PURC	2.22 168	ePc	55 03.27	0.2		
		eS	55 29.20			
S.D. = 0.6 on 6 of 6 obs.						

SEP 23, 1991 06h 58m 30.01± 0.18s
45.542 N ± 5.2km 150.727 E ± 3.1km
DEPTH = 55.1km (6 depth phases)
5.1mb (55 obs.)
KURIL ISLANDS (221)

MAT	13.03 231	iPd	01 30.80	-3 5X		
	0.7s 53.42nm			5.5mb X		
		eS	03 52.00			
MDJ	14 96 274	eP	01 59.00	-0 5		
	0.8s 140.00nm			5 3mb		
Z	25s 1 50um			4.1Msz		
		pP	02 03.50			
CN2	18 05 274	P	02 36.20	-2 0		
	0.8s 60.00nm			4 8mb		
Z	20s 1 90um					
		epP	02 44.50			
SHNJ	18 84 240	eP	02 47.10	-0 9		
SNY	19 94 269	Pd	02 59 00	-0.9		
	1.0s 80.00nm			5 0mb		
Z	22s 0 90um			4.3MszX		
KUMJ	20 12 237	eP	03 01.60	-0.2		
YAK	20.49 331	P	03 04.00	-1.4		
		pP	03 19.00	70kmX		
		iPP	03 35.00			
		iPPP	03 43.00			
		iS	06 47.00			
		iPcP	07 01.00			
		iSS	07 14.00			
		iSSS	07 33.00			
		eScS	14 24.00			
KAGJ	21.07 234	eP	03 12.50	0.9		
DL2	22.47 263	P	03 25.50	0.1		
	1.5s 600.00nm			5.8mb		
BJI	25.81 270	eP	03 57.00	-0.5		
	1.0s 74.00nm			5.2mb		
Z	20s 0.54um			4.1Msz		
TIA	26.90 262	Pd	04 07.50	0.0		
SSE	27.11 248	Pd	04 10.00	0.5		
	1.1s 43.00nm			5.0mb		
Z	20s 0.50um			4.1Msz		
		sP	04 23.00			
HHC	28.73 275	Pc	04 24.00	-0.2		
	1.0s 80.00nm			5.3mb		
Z	20s 0.90um			4.4Msz		
E	20s 1.30um					
TIY	29.45 268	Pd	04 30.80	0.2		
	1.0s 40.00nm			5.0mb		
Z	30s 0.60um			4.0MszX		
BTO	29.91 275	P	04 33.70	-1.0		
WHN	32.02 255	iPd	04 52.60	-0.6		
	0.7s 60.00nm			5.5mb		
XAN	33.76 265	iPd	05 07.80	-0.6		
	0.9s 40.00nm			5.3mb		
		pP	05 22.50	59km		
TTA	34.42 40	ePc	05 14.10	0.3		
LZH	36.27 272	iPd	05 30.50	0.6		
	1.5s 190.00nm			5.8mb		
Z	25s 0.43um			4.1MszX		
N	10s 0.24um					
GTA	37.52 279	P	05 40.20	-0.1		
	1.0s 40.00nm			5.3mb		
Z	16s 0.40um			4.3MszX		
		ScS	15 47.00			
PMR	37.62 43	eP	05 41.20	0.5		
	1.0s 32.80nm			5.2mb		
FBA	38.13 37	ePc	05 46.00	1.0		
	1.0s 64.20nm			5.5mb		
TOA	38.98 42	eP	05 53.50	1.3		
CD2	39.12 265	eP	05 53.00	-0.7		
	0.8s 200.00nm			6.0mb		
		S	11 47.00			
GYA	39.83 257	iPd	05 59.40	-0.3		
	1.0s 50.00nm			5 3mb		
KMI	43 38 259	Pd	06 29.00	0.1		
	2.0s 100.00nm			5 2mb		
		pP	06 44.00	58km		
INK	43.56 32	iPc	06 29.90	0.4		
	1.0s 43.00nm			5.2mb		
		pP	06 46.00	64km		
WMQ	43.82 291	P	06 32.50	0.5		
MBC	46 29 19	eP	06 51.00	-0.2		
	0.5s 6.00nm			4.8mb		
CHG	50.22 256	ePd	07 22.90	0.5		
	0.8s 36.38nm			5.5mb		
YKA	52.88 35	eP	07 41.00	-0.9		
	0.8s 10.10nm			4.9mb		
GUN	53 44 274	Pd	07 46.70	-0.3		
KKN	53.94 275	Pd	07 52.38	1.9		
	0.8s 229.00nm			6.3mb X		
PKI	53.98 274	Pd	07 50.56	-0.3		
	1.0s 157.00nm			6.0mb		
DMN	54.17 274	Pd	07 52.28	0.1		
	0.9s 234.00nm			6.2mb X		
GKN	54.26 275	Pd	07 52.38	-0.4		
	0.9s 324.00nm			6.4mb X		
PNT	57.27 51	ePc	08 13.00	-1.0		
	0.7s 15.00nm			5.2mb		
SNG	57.62 244	eP	08 17.60	0.9		
NDI	59 01 281	iPd	08 25.00	-1.3		
	0.7s 184.93nm			6.3mb X		
NEW	59.23 51	P	08 27.00	-0.7		
SOD	59 77 338	eP	08 43.00	11.9X		
ORV	61.81 61	P	08 44.20	-1.2		
BSI	62.31 248	iP	08 48.00	-0.9		
FFC	62.72 39	iPc	08 50 70	-0.5		
	0.6s 30.00nm			5 6mb		
LRM	63.25 51	ePc	08 55.00	-0 1		
CM8	63.43 62	P	08 56.20	0.0		
OUE	65.05 288	eP	09 06.40	-0 5		
HY8	65.35 270	eP	09 08.00	-0.8		
CTAO	65.44 185	eP	09 24.00	14 9X		
NUR	65.58 334	iP	09 08 20	-1 4		
SYP	65.89 65	eP	09 12 00	-0 2		
BW06	66.79 52	P	09 17.40	-0.6		
	0.8s 18.69nm			5.1mb		
WR2	66.85 197	iPc	09 17.60	-0.6		
	0.6s 4.70nm			4.7mb		
		e	09 31.50	49km		
SBB	67.15 63	eP	09 20.00	-0.1		
PAS	67.28 64	eP	09 20.00	-0.9		
MWC	67.30 64	eP	09 21.00	-0.2		
GSC	67.39 62	eP	09 21.00	-0.7		
RVR	67.88 64	eP	09 23.00	-1.6		
POO	67.90 274	iPd	09 26.80	1.8		
PEC	68.08 64	P	09 24.80	-1.1		
MSU	68.10 57	P	09 26.40	0.1		
PLM	68.62 64	eP	09 29.00	-0.5		
GBA	68.73 268	Pd	09 29.20	-0.9		
	0.8s 16.60nm			5.0mb		
DZM	68.79 164	iPc	09 31.10	0.8		
NB2	68.82 340	P	09 29.20	-0.9		
	0.6s 1.80nm			4.2mb		
RSSD	68.87 48	P	09 29.60	-1.3		
	0.7s 21.63nm			5.2mb		
HFS	68.99 339	eP	09 29.20	-1.9		
	0.5s 2.70nm			4.4mb		
BAR	69.18 64	eP	09 33.00	0.3		
PV09	69.88 55	P	09 36.60	-0.7		
ASPA	70.56 196	iPc	09 42.20	1.2		
	0.7s 6.70nm			4.7mb		
		i	09 56.60	51km		
KOD	71.05 265	eP	09 44.50	-0.1		
GOL	71.20 52	P	09 45.30	0.1		
	0.8s 5.51nm			4.5mb		
GLD	71.24 52	P	09 45.70	0.3		
	1.2s 36.36nm			5.2mb		
BRS	72.61 178	eP	09 54.00	0.8		
ANMO	73.88 56	P	10 01.20	0.2		
ALO	73.89 56	iPc	10 01.20	0.2		
	0.9s 12.60nm			4.8mb		
SCH	75.08 21	eP	10 07.00	-0.3		
ARMA	75.60 179	iPc	10 29.00	18.5X		
KRA	75.64 330	eP	10 10.70	0.2		
ACO	76.77 51	iPd	10 17.50	0.4		
CLL	76.86 334	eP	10 17.00	-0.3		
MLR	77.08 324	P	10 19.00	0.2		
PRU	77.53 333	eP	10 21.20	0.2		
		e	10 52.50	124kmX		
MEO	78.49 52	iPd	10 26.80	0.2		
KHC	78.58 333	eP	10 27.00	0.1		
		e	10 41.50	51km		
SIO	79.01 50	eP	10 28.10	-1.3		
TUL	79.16 49	eP	10 29.40	-0.8		
	1.6s 52.40nm			5.2mb		
BWA	79.62 182	eP	10 50.20	17.7X		
FVM	80.33 45	P	10 35.80	-0.7		
	0.7s 23.81nm			5.2mb		
CAN	80.50 181	eP	10 54.60	17.4X		
PTJ	80.59 330	eP	10 46.50	8.7X		
CDF	81.12 336	eP	10 41.80	1.2		
	0.8s 8.05nm			4.7mb		
CLE	81.59 37	iP	10 42.60	-0.4		
FLN	82.77 341	eP	10 49.30	0.3		
	0.8s 6.70nm			4.7mb		
Z	20s 0.08um			4.1Msz		
OHR	82.81 324	eP	10 48.00	-1.5		
BNH	82.85 29	P	10 49.00	-0.5		
LOR	83.10 338	eP	10 52.10	1.3		
	0.8s 6.05nm			4.7mb		
Z	20s 0.08um			4.1Msz		
GRR	83.21 341	eP	10 51.80	0.5		
	1.0s 24.00nm			5.2mb		
LBF	83.33 338	eP	10 53.00	1.0		
	1.2s 13.40nm			4.8mb		
SSF	83.38 338	eP	10 53.40	1.2		
	1.0s 9.00nm			4.7mb		
LPF	83.58 341	eP	10 53.90	0.7		
	0.8s 10.75nm			4.9mb		
AVF	83.68 338	eP	10 54.40	0.7		
	0.6s 3.15nm			4.5mb		
SMF	83.68 338	eP	10 54.20	0.4		
	0 8s 8.05nm			4.8mb		
LPL	83.91 335	eP	10 57.10	1.9		
	0.8s 8.75nm			4.8mb		
LPG	83.92 335	eP	10 57.20	1.9		
	0.8s 10.75nm			4.9mb		
MAF	84.41 338	eP	10 58.70	1.3		
	0.8s 13.45nm			5.1mb		
TCF	84.44 339	eP	10 58.60	1.0		
	1.2s 11.90nm			4.8mb		
LSF	84.65 339	eP	10 59.50	0.9		

1.0s 18 00nm 5.1mb
MFF 84.72 340 eP 10 59 80 0.8
0.6s 5.40nm 4.8mb
TBR 84.80 32 P 10 59.20 -0.2
BLA 85.62 39 P 11 03.90 0.2
0.8s 23 49nm 5.4mb
CAF 85.74 338 eP 11 05.60 1.5
0.6s 6.30nm 5.0mb
LFF 86.07 339 eP 11 06.90 1.2
0.8s 16.10nm 5.3mb
LPO 86.19 339 eP 11 07.20 0.9
0.6s 5.40nm 4.9mb
ZOBO 136.36 61 PKP 17 33.00 -15.1X
LPB 136.58 61 PKP 17 35 00 -13.3X
CNCB 136.87 61 PKP 17 37.00 -12.0X
SIV 140.29 52 PKP 17 46.00 -8.6X
LCCH 145.59 85 ePKP 18 03.00 -0.3
ROCH 145.71 83 ePKP 18 03.50 -0.4
JACH 145.84 83 ePKP 18 04.50 0.6
LNV 145.96 85 iPKPc 18 04.00 0.1
PEL 146.03 83 iPKPd 18 04.50 0.3
TACH 146.13 84 iPKP 18 04.50 0.2
SAN 146.22 84 ePKP 18 05.00 0.6
BAO 146.29 34 ePKPc 18 06.20 1.1
PCH 146.41 84 ePKP 18 05.00 0.2
CHCH 146.48 84 ePKP 18 05.50 0.6
NVL 147.85 204 PKPc 18 09.00 3.2X
e 18 21.00
PPD 150.43 45 ePKP 18 16.70 5.4X
ITB1 150.93 53 PKPc 18 17.50 5.6X
VAO 153.30 39 (PKP) 18 20.00 4.5X
S.D. = 0.8 on 117 of 132 obs.

? SEP 23, 1991 07h 37m 11.33± 3.98s
13.923 N ±49.8km 90.950 W ±17.7km
DEPTH = 33.0km (normol)
4.3mb (2 obs.)
NEAR COAST OF GUATEMALA (71)

TPX 1.60 308 iP 37 36.50 -1.2
(S) 37 53.00
SCX 3.23 330 iP 38 01.50 0.6
iS 38 39.00
IISM 7.96 310 eP 39 08.00 0.4
IIT 8.69 307 (P) 39 18.00 0.0
PPM 8.96 306 (P) 39 23.00 0.9
III 9.30 300 (P) 39 10.00 -16.5X
MEO 21.89 343 e(P) 42 01.00 -2.3
TUL 22.32 350 eP 42 09.10 1.5
1.2s 29.10nm 4.6mb
YKA 51.34 346 eP 46 13.80 -0.6
0.8s 1.20nm 3.9mb
MBC 64.12 353 eP 47 45.00 0.8
S.D. = 1.4 on 9 of 10 obs.

? SEP 23, 1991 08h 09m 33.66± 4.29s
4.208 N ±24.4km 76.967 W ±31.4km
DEPTH = 33.0km (normol)
COLOMBIA (103)
MD 2.7 (UVC).

CLMC 0.52 129 iPd 09 44.92 0.2
ANCC 0.70 172 ePc 09 47.28 0.2
BUGC 0.77 114 eP 09 48.21 0.0
HOOC 0.81 156 iPc 09 48.44 -0.4
eS 09 58.10
HOBC 0.84 80 eP 09 49.18 0.0
eS 09 59.30
S.D. = 0 4 on 5 of 5 obs

? SEP 23, 1991 08h 11m 18.76± 4.75s
13.137 N ±14.0km 60.421 W ±46.3km
DEPTH = 33.0km (normol)
WINDWARD ISLANDS (95)
MD 3.1 (TRN).

SVB 0.82 280 eP 11 33.83 -0 1
eS 11 44.93
SLB 0.91 319 eP 11 35.43 0.2
eS 11 46.42
SLW 1.01 330 eP 11 36.55 -0.1
eS 11 47.79
GRW 1.55 231 eP 11 44.48 0.0
eS 12 04.54
S.D. = 0.2 on 4 of 4 obs.

& SEP 23, 1991 08h 24m 14.33s
59.910 N 151 969 W
DEPTH = 57.0km
KENAI PENINSULA, ALASKA (14)
<AEIC>. ML 3.1 (AEIC).

HOM 0.30 147 iPd 24 24.06 -0.2
eS 24 32.49
NNL 0.36 68 iPc 24 25.49 0.7
CNPM 0.54 136 iPd 24 25.89 -0.7
eS 24 35.29
INE 0.57 286 eP 24 26.19 -0.9
eS 24 35.83
INW 0.61 286 ePd 24 26.59 -0.9
eS 24 36.84
RS1 0.68 325 iPc 24 28.07 -0.4
RSO 0.68 325 iPc 24 28.03 -0.4
RS2 0.68 325 ePc 24 28.11 -0.4
REF 0.69 328 iPc 24 28.05 -0.5
OPT 0.69 249 ePd 24 27.51 -0.9
eS 24 38.33
RDT 0.70 342 eP 24 27.90 -0.7
eS 24 38.94
RDW 0.71 324 iPc 24 28.38 -0.5
eS 24 38.70
RDN 0.72 327 iPc 24 28.35 -0.6
eS 24 39.21
DFR 0.77 333 eP 24 28.77 -0.8
NCT 0.81 324 iPc 24 29.53 -0.5
AUE 0.90 233 iPd 24 30.24 -0.8
AUL 0.91 235 ePc 24 30.61 -0.6
AUP 0.92 234 iPd 24 30.84 -0.6
AGU 0.93 234 eP 24 30.64 -0.9
AUH 0.93 234 eP 24 30.72 -0.8
AUW 0.94 235 ePc 24 30.77 -0.8
AUI 0.94 233 eP 24 30.60 -1.0
eS 24 43.79
SLKM 1.06 55 eP 24 32.46 -0.8
SPU 1.28 358 ePc 24 35.91 -0.3
SEW 1.28 80 eP 24 35.86 -0.4
CDD 1.30 222 eP 24 35.46 -1.1
CKL 1.30 352 iPc 24 36.39 -0.3
eS 24 53.96
SYI 1.32 190 eP 24 35.93 -0.9
eS 24 53.45
BGL 1.37 351 eP 24 37.64 0.0
CGLM 1.40 359 iPc 24 37.90 -0.1
MCNL 1.41 240 iPc 24 36.27 -1.8
eS 24 54.07
NCG 1.50 357 ePc 24 39.37 -0.1
SUA 1.67 21 iPd 24 41.65 -0.2
eS 25 04.93
PMS 1.79 41 ePd 24 43.49 0.1
PWA 2.03 30 eP 24 46.37 -0.2
LTI 2.07 85 eP 24 46.47 -0.8
SKT 2.09 6 ePc 24 47.54 0.0
SKT 2.09 6 eP 25 10.81 23.3
eS 25 13.19
KNIM 2.16 76 ePc 24 46.36 -2.2
SVW 2.17 305 P 24 47.39 -1.3
KDC 2.19 187 eP 24 46.84 -2.0
PLRM 2.19 38 ePc 24 47.92 -1.0
KNK 2.29 47 iPc 24 49.37 -1.1
eS 25 17.20
GHO 2.39 37 eP 24 52.06 0.2
SML 2.61 41 eP 24 54.23 -0.6
GLI 2.61 66 eP 24 52.97 -1.9
CUT 2.64 17 eP 24 55.49 0.3
FID 2.86 70 ePc 24 55.31 -3.1
VLZ 3.04 64 eP 24 58.85 -2.2
HUR 3.28 19 eP 25 04.88 0.5
KLU 3.37 59 iPc 25 03.65 -2.1
TOA 3.58 50 eP 25 07.36 -1.3
TRF 3.64 12 eP 25 09.79 0.1
TZL 3.84 53 eP 25 11.04 -1.2
GLB 4.30 66 ePc 25 15.77 -3.0
WAX 4.59 79 eP 25 20.52 -2.3
56 obs. ossocioted

? SEP 23, 1991 08h 28m 21.36±17.22s
3.430 N ±22.5km 74.123 W ±140.km
DEPTH = 33.0km (normol)
COLOMBIA (103)
MD 4.0 (UVC).

HOBC 2.21 295 eP 28 56.70 0.2
eS 29 23.20
CLMC 2 48 281 eP 28 59.88 -0.6
eS 29 28.90
PURC 2.49 244 eP 29 00.94 0.0
HOOC 2.51 271 ePc 29 00.47 -0.5
eS 29 29.90
ANCC 2.74 272 eP 29 04.98 1.0
S.D. = 0.9 on 5 of 5 obs.

---

* SEP 23, 1991 10h 41m 38.55± 0.45s
17.611 S ±10.2km 173.578 W ±16.3km
DEPTH = 10.0km (geophysicist)
5.0mb (5 obs.) 4.5Msz (1 obs.)
TONGA ISLANDS (173)

AFI 4.07 25 ePd 42 42.10 -0.2
eS 43 22.00
DZM 19.31 253 iPc 46 12.70 5.9X
KUZ 21.28 204 eP 46 26.50 -0.8
URZ 22.13 200 P 46 36.70 0.8
WLZ 22.28 203 eP 46 37.50 0.0
LTZ 27.83 203 eP 47 31.10 1.0
EWZ 28.99 204 P 47 43.40 3.0X
CTAO 38.03 260 P 48 59.00 0.0
WR2 49.18 259 eP 50 27.20 -1.9X
0.4s 4.90nm 4.9mb
ASPA 49.30 254 iPd 50 29.10 -0.9
0.6s 34.30nm 5.5mb
iS 57 28.00
SPA 72.50 180 iPc 53 06.10 -1.2
1.0s 16.50nm 5.1mb
PNT 81.96 32 eP 54 05.00 5.2X
ALQ 82.35 50 eP 54 02.00 -0.4
1.3s 6.25nm 4.6mb
LRM 83.85 38 eP 54 09.70 -0.3
FBA 84.59 11 eP 54 13.20 0.3
0.7s 10.40nm 5.2mb
CLL 145.97 353 iPKP 01 20.00 0.8
1.3s 33.00nm
BRG 146.27 351 iPKP 01 20.60 0.9
1.2s 19.00nm
MOX 146.78 354 ePKP 01 23.00 2.4X
KHC 148.03 351 ePKP 01 26.00 3.3X
e 01 40.60
GRR 148.73 9 ePKP 01 27.40 3.7X
0.8s 10.75nm
CDF 149.27 359 ePKP 01 29.10 4.4X
1.0s 8.00nm
HRI 149.41 306 ePKP 01 30.50 5.1X
JVI 150.23 304 ePKP 01 32.50 5.9X
LOR 150.35 4 ePKP 01 31.90 5.6X
0.8s 5.35nm
Z 20s 0.08um 4.5Msz
CSS 150.46 311 ePKP 01 32.50 5.7X
SSF 150.53 4 ePKP 01 32.30 5.8X
0.8s 6.70nm
LBF 150.64 3 ePKP 01 32.40 5.7X
0.8s 4.05nm
AVF 150.79 4 ePKP 01 32.70 5.8X
1.0s 7.00nm
SMF 150.97 4 ePKP 01 33.00 5.8X
1.0s 8.00nm
LSF 151.16 7 ePKP 01 33.40 5.9X
0.8s 6.70nm
MBH 151.35 300 ePKP 01 35.70 7.3X
S.D. = 0.8 on 13 of 31 obs.

& SEP 23, 1991 12h 16m 43.45s
60.137 N 152.703 W
DEPTH = 108.0km
SOUTHERN ALASKA (2)
<AEIC>.

INE 0 20 247 iPc 16 58.22 0.8
iS 17 09.79
INW 0.23 252 eP 16 57.85 0.4
iS 17 10.09
RED 0 28 353 iPc 16 58.47 0.8
iS 17 10.25
RS1 0.33 355 iPc 16 58.86 -0.7
eS 17 10.80
RSO 0.33 356 iPc 16 58.83 -0.8
eS 17 11.19
RS2 0.33 355 iPc 16 58.86 -0.7
eS 17 11.22
RDW 0.35 351 eP 16 58.98 -0.7
eS 17 11.45
REF 0.35 0 iPc 16 58.99 -0.7
eS 17 10.86

23d 12h

RDN	0.38	356	iPc	16	59.06	-0.7
			eS	17	11.33	
NCT	0.44	345	iPc	16	59.28	-0.8
			eS	17	11.81	
DFR	0.46	1	iPc	16	59.34	-0.8
			eS	17	11.94	
RDT	0.46	18	iPc	16	59.37	-0.8
			eS	17	11.99	
OPT	0.55	209	iPd	16	59.98	-0.8
			eS	17	12.94	
NNL	0.71	97	iPc	17	02.00	0.0
HOM	0.72	132	ePc	17	01.56	-0.4
			eS	17	15.59	
AUL	0.84	206	eP	17	02.46	-0.7
AUE	0.85	204	ePd	17	02.24	-1.0
AUP	0.86	205	ePd	17	02.61	-0.8
AUH	0.86	206	eP	17	02.66	-0.8
AGU	0.86	206	eP	17	02.57	-0.9
AUW	0.86	207	iPd	17	02.59	-0.8
AUI	0.88	205	ePd	17	02.56	-1.0
			eS	17	17.59	
CNPM	0.96	129	iPc	17	03.90	-0.5
			iS	17	18.96	
CKL	1.08	9	iPc	17	05.23	-0.5
			eS	17	22.29	
SPU	1.10	17	eP	17	06.08	0.2
			eS	17	22.30	
BGL	1.14	8	ePc	17	06.09	-0.3
MCNL	1.26	222	iPd	17	06.56	-1.2
SLKM	1.29	72	eP	17	06.76	-1.3
			eS	17	24.75	
NCG	1.30	12	eP	17	08.23	0.0
CDD	1.30	202	eP	17	06.83	-1.4
SYI	1.54	174	eP	17	09.89	-1.1
			S	17	29.87	
SUA	1.64	35	ePc	17	12.23	-0.2
			eS	17	33.88	
PMS	1.90	53	iPc	17	14.96	-0.7
			eS	17	38.28	
SKT	1.94	17	iPc	17	15.38	-0.7
PWA	2.05	41	ePc	17	17.71	0.2
			eS	17	43.15	
PLRM	2.28	49	ePc	17	18.64	-1.8
			eS	17	45.63	
LTI	2.43	90	iPc	17	20.51	-2.0
			eS	17	49.55	
KNK	2.45	57	eP	17	20.94	-1.8
			eS	17	49.56	
GHO	2.47	47	eP	17	21.34	-1.7
			eS	17	50.90	
KNIM	2.49	83	eP	17	20.96	-2.3
CUT	2.56	26	ePc	17	23.35	-0.8
			eS	17	54.09	
SML	2.71	50	eP	17	24.23	-2.1
GLI	2.87	73	iPc	17	26.81	-1.6
			eS	17	57.66	
FID	3.15	76	iPc	17	30.15	-1.9
			eS	18	03.42	
HUR	3.21	26	eP	17	32.77	-0.2
VLZ	3.29	70	eP	17	32.87	-1.2
			eS	18	07.59	
TRF	3.52	18	eP	17	36.54	-0.8
KTH	3.53	13	eP	17	37.39	0.0
KLU	3.59	65	eP	17	35.80	-2.4
			iS	18	15.73	
TOA	3.73	55	eP	17	38.81	-1.3
RND	3.76	27	ePd	17	39.33	-1.1
MCK	4.02	25	eP	17	42.90	-1.2
PAX	4.48	47	eP	17	48.81	-1.5
GLB	4.55	69	eP	17	48.77	-2.5
WRH	4.85	24	eP	17	53.60	-1.8
CCB	5.07	25	eP	17	56.08	-2.2
MDM	5.26	21	eP	17	58.93	-2.2
FBA	5.29	23	eP	17	59.34	-2.1
GLM	5.45	24	eP	18	01.60	-2.1

59 obs. associated

? SEP 23, 1991 12h 38m 30.14± 4.81s
3.830 N ±22.1km 76.220 W ±25.8km
DEPTH = 93.6 ± 49.0 km
COLOMBIA (103)
MD 3.2 (UVC).

BUGC	0.07	330	eP	38	44.66	-0.2
CLMC	0.35	278	eP	38	45.28	0.7
			eS	38	58.60	
HOBC	0.53	9	eP	38	45.74	-0.1
			eS	38	59.40	
HOOC	0.55	229	eP	38	46.02	-0.1
			eS	38	59.90	
ANCC	0.72	244	ePc	38	47.08	-0.3
			eS	39	01.70	
PURC	1.50	185	eP	38	57.18	0.1
			eS	39	19.00	

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

SEP 23, 1991 13h 52m 56.46± 0.68s
44.143 N ± 3.0km 7.011 E ± 4.0km
DEPTH = 9.7 ± 7.8 km
NORTHERN ITALY (545)
ML 2.1 (GEN).

TOUF	0.22	127	Pg	53	01.03	-0.2
			Sg	53	05.27	
STV	0.25	66	P	53	01.83	0.1
MVIF	0.27	157	Pg	53	01.89	-0.3
			Sg	53	06.79	
ENR	0.31	74	P	53	03.06	0.2
			S	53	07.57	
AURF	0.34	138	Pg	53	03.87	0.3
PZZ	0.37	10	P	53	04.19	0.1
			S	53	09.52	
CALN	0.40	193	Pg	53	04.34	-0.4
			Sg	53	10.32	
SAOF	0.42	112	Pg	53	05.17	0.1
			Sg	53	11.58	
ROB	0.64	76	P	53	09.31	0.0
			S	53	18.21	
IMI	0.68	110	P	53	09.97	0.0
			S	53	19.67	
BHB	0.72	14	P	53	10.24	-0.5
			S	53	19.57	
RRL	0.79	348	P	53	11.88	-0.2
			S	53	22.85	
CDR	1.01	243	eP	53	16.10	0.4
			e	53	16.50	
			e	53	29.90	

S.D. = 0.3 on 13 of 13 obs.

---

* SEP 23, 1991 14h 07m 02.86± 0.70s
54.796 N ±14.3km 161.721 E ±15.7km
DEPTH = 33.0km (normal)
4.5mb (4 obs.)
NEAR EAST COAST OF KAMCHATKA (218)

MAT	24.36	231	eP	12	19.00	0.2
YKA	41.26	44	eP	14	46.20	0.3
	0.7s		1.60nm			3.9mb
BGMT	52.86	62	ePc	16	17.50	-0.1
KAF	58.29	337	iP	16	56.20	0.1
	0.4s		4.70nm			4.9mb
NUR	60.09	337	eP	17	09.00	0.5
NB2	62.17	344	P	17	22.00	-0.7
	0.8s		3.80nm			4.6mb
ASPA	81.71	206	eP	19	18.80	-0.3
	0.9s		4.00nm			4.4mb

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

SEP 23, 1991 14h 34m 24.88± 1.03s
27.041 N ± 4.5km 140.357 E ± 6.3km
DEPTH = 477.8 ± 12.6 km
4.5mb (15 obs.)
BONIN ISLANDS REGION (212)

MAT	9.65	350	eP	36	39.00	-0.7
	0.7s		9.59nm			4.3mb
			eS	38	20.00	
MDJ	19.56	337	eP	38	22.00	1.1
	1.0s		30.00nm			4.8mb
SNY	20.17	321	Pd	38	26.60	-0.2
	1.0s		20.00nm			4.7mb
CN2	20.62	328	eP	38	31.40	0.5
TIA	21.75	301	eP	38	41.40	-0.2
WHN	23.04	285	eP	38	54.00	0.6
HHC	27.43	308	eP	39	32.20	-0.4
XAN	27.88	292	P	39	36.00	-0.6
CD2	32.16	286	eP	40	13.20	-0.3
LZH	32.24	295	eP	40	14.70	0.5
	1.5s		26.00nm			4.5mb
GTA	35.80	301	P	40	44.00	-0.1
	0.8s		10.00nm			4.4mb
CHG	38.87	267	eP	41	10.00	0.7
CHTO	38.87	267	eP	41	09.80	0.5
	1.1s		5.89nm			4.0mb

MTN	40.65	194	iPd	41	23.70	0.1
	0.6s		31.00nm			5.0mb
WMO	45.29	306	P	42	01.00	0.8
			pP	43	30.50	468kmX
WR2	47.07	188	iPd	42	13.60	-0.3
	0.3s		22.20nm			5.1mb
			iPcP	46	43.90	
CTAO	47.20	172	eP	42	15.50	0.6
QIS	47.32	181	iPc	42	15.40	-0.4
GUN	48.00	284	P	42	21.86	0.4
PKI	48.48	284	P	42	24.56	-0.5
KKN	48.54	284	P	42	25.40	0.0
DMN	48.73	284	P	42	27.02	0.1
GKN	49.05	285	P	42	29.00	-0.2
ASPA	50.79	188	iPc	42	41.00	-0.8
	0.3s		16.00nm			4.9mb
WARB	54.54	195	eP	43	09.00	0.1
BRS	55.42	167	iPc	43	15.40	0.4
	0.8s		3.50nm			3.7mb
GBA	59.97	271	Pc	43	46.00	-0.3
	0.8s		3.20nm			3.8mb
INK	63.76	24	eP	44	10.00	-0.2
MBC	66.36	15	eP	44	26.50	0.0
YKA	72.96	28	eP	45	05.50	-0.4
	0.6s		1.90nm			3.8mb
KAF	76.81	334	iP	45	27.00	-0.3
	0.4s		21.90nm			5.0mb
NUR	78.37	333	iP	45	35.50	-0.2
			e	45	48.00	
LRM	82.02	42	eP	45	56.90	1.6
HFS	82.82	336	eP	45	58.00	-0.7
	0.7s		15.40nm			4.7mb
NB2	83.05	338	P	45	59.10	-0.8
	0.7s		8.80nm			4.5mb

S.D. = 0.6 on 35 of 35 obs.

& SEP 23, 1991 14h 55m 10.10s
35.980 N 118.360 W
DEPTH = 5.0km
CENTRAL CALIFORNIA (39)
<PAS-P>. ML 3.4 (PAS).

ABL	1.33	212	eP	55	34.70	-0.6
GSC	1.44	118	iPc	55	35.90	-1.0
FRI	1.48	313	iPc	55	36.38	-1.1
			i	55	55.22	
BCH	1.61	241	eP	55	38.70	-0.7
PHAM	1.66	266	eP	55	40.00	0.0
SSK	1.85	163	eP	55	42.50	-0.4
PRI	1.87	276	iPc	55	43.23	0.0
			i	56	07.42	
PEC	2.30	154	eP	55	50.00	0.6
PRS	2.46	279	iPd	55	51.11	-0.4
SAO	2.61	288	eP	55	53.73	0.1
CMB	2.61	322	eP	55	54.97	1.2
			eS	56	28.68	
ARN	2.89	299	eP	55	58.30	0.5
GCC	3.11	291	eP	56	01.32	0.6

13 obs. associoted

SEP 23, 1991 14h 59m 37.86± 1.05s
43.379 N ± 8.1km 5.466 E ± 5.5km
DEPTH = 5.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
ML 3.0 (STR).

GELF	0.03	280	Pg	59	39.14	0.0
BERF	0.18	112	Pg	59	40.72	-0.8
PUYF	0.23	48	Pg	59	42.22	-0.3
TREF	0.25	346	Pg	59	42.21	-0.8
CDR	0.37	36	iPgd	59	44.50	-0.8
			i(Sg)	59	49.70	
PRAF	0.48	333	Pg	59	47.25	-0.2
TAVF	0.49	61	Pg	59	47.92	0.2
VILF	0.51	21	Pg	59	47.47	-0.6
DOI	1.71	48	P	00	09.00	0.5
			eSg	00	34.20	
BNI	1.89	27	P	00	13.50	2.4
			eSn	00	40.60	
CKI	2.29	62	P	00	17.20	0.3
			eSn	00	50.50	

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

---

* SEP 23, 1991 15h 16m 20.35± 0.91s
9.612 N ±16.6km 84.715 W ±15.7km
DEPTH = 10.0km (geophysicist)
5.0mb (7 obs) 4.0Msz (1 obs.)

COSTA RICA (78)
Felt (IV) at Jaco and (II) at San Jose. Felt along the central Pacific coast and in the Central Valley.

UPA	5.15	97	iPd	17 39.00	-0 4
	1.0s	80.00nm		5.3mb	
SDV	13.92	92	eP	19 41.30	1.1
MEO	28.09	335	e(P)	22 16.00	1.7
ZOBO	30.51	147	eP	22 39.00	2.2
Z	22s	0.37um		4.0Msz	
		S		28 00.00	
		LR		34 30.00	
SIV	34 57	137	P	23 10.00	-1.6
SOB1	47.46	112	eP	24 55.80	-1.8
YKA	57.05	344	eP	26 07 00	-1.7
	0.7s	1.50nm		4.1mb	
INK	66.70	342	eP	27 13.00	-0.3
MBC	69.19	352	eP	27 28.00	-0.8
EKA	77.36	35	Pd	28 16.20	-0.7
	0.8s	10.60nm		5.0mb	
LIC	78.85	86	P	28 26.10	0.2
KIC	79.11	85	P	28 27.40	0.0
NB2	84.53	29	P	28 55.30	0.5
	0.8s	6.60nm		4.9mb	
HFS	85.90	30	eP	29 01.20	-0.4
	0.7s	11.10nm		5.1mb	
MOX	86.64	39	eP	29 06.30	0.9
	1.4s	12.00nm		4.9mb	
CLL	87.36	39	iPd	29 09.40	0.5
	1.6s	23.00nm		5.2mb	
BRG	88.04	39	i(P)	29 12.60	0.5
WR2	140.93	250	ePKP	35 48.10	-5.3X
	0.7s	1.80nm			
GBA	150.92	38	PKPd	36 15.90	6.0X
	1.4s	13.40nm			
	S.D. = 1.2	on	17 of	19 obs.	

---

* SEP 23, 1991 15h 40m 49.83± 1.30s
3.419 N ±22.6km 73.824 W ±11.5km
DEPTH = 33.0km (normal)
COLOMBIA (103)
MD 4.0 (UVC)

HOBC	2.49	292	eP	41 29 50	0.5
PURC	2.76	247	eP	41 33.58	0.4
CLMC	2.77	280	eP	41 32 93	-0.1
HOOC	2.81	271	ePc	41 32 88	-0.7
			eS	42 02.40	
ANCC	3.04	272	eP	41 36.75	0.0
			eS	42 08.80	
BAO	31.81	127	e(P)	47 14.00	0.0
	S.D. = 0.6	on	6 of	6 obs.	

SEP 23, 1991 15h 48m 48 40± 1.30s
2.354 N ± 4.6km 128.333 E ± 8.3km
DEPTH = 135.7 ± 12.1 km
5.1mb (21 obs.)
HALMAHERA, INDONESIA (267)

MNI	3.61	256	ePd	49 43.50	-0.3
			eS	50 24.50	
TSM	10.62	281	ePc	51 18.00	0.0
TRT	18.58	237	ePc	53 01.50	3.8X
WR2	22.94	165	iPd	53 42.40	0 8
	0.4s	78.90nm		5.5mb X	
QIZ	24.54	314	Pd	53 57.60	0.6
MBL	24.81	199	eP	53 59.90	0 4
QIS	25.31	155	iPd	54 04.70	0 6
			i	54 33.80	
ASPA	26.43	168	iPc	54 14.10	-0 3
	0.5s	10.60nm		4.7mb	
			i	54 46.40	
			i	57 36.10	
NANU	27.74	206	eP	54 26.00	-0.2
WARB	28.42	183	eP	54 32.00	-0 3
WHN	31.01	336	eP	54 56.00	0.9
GYA	31.74	321	P	55 02.40	0.7
	1.0s	10 00nm		4.6mb	
		PcP		57 50.80	
CHG	33.10	302	ePc	55 14.00	0.4
	0.8s	19.22nm		4.9mb	
KMI	33 48	315	Pc	55 18.50	1.5
	1.2s	70.00nm		5.3mb	
MRWA	33.54	200	eP	55 16.10	-1.2
BAL	34.60	198	eP	55 25.00	-1.3
MAT	35.22	14	iPc	55 29.40	-2.1
	0.7s	13.0inm		4.8mb	
STK	36.30	161	eP	55 41.00	0.4
	0.4s	13.10nm		5.1mb	
XAN	36.36	332	iPc	55 40.80	-0.3
CD2	36.69	323	eP	55 44.30	0.3
	0.9s	30.00nm		5.1mb	
TIY	38.10	339	Pd	55 55.70	0.0
BJI	39.10	345	eP	56 03.50	-0.4
ARMA	39.45	147	eP	56 08.00	1.0
SNY	39.53	354	Pc	56 07.00	-0.4
	1.0s	20.00nm		4.8mb	
LZH	40.50	329	Pc	56 17.00	1.4
	1.2s	83.00nm		5.3mb	
HHC	41.21	341	eP	56 21.60	0.2
	1.0s	10.00nm		4.5mb	
BFD	41.49	163	eP	56 24.00	0.5
LSA	44.54	311	iPc	56 48.40	-0.6
	1.0s	50.00nm		5.2mb	
GTA	45.09	329	iPc	56 53.40	0.6
	0.8s	10.00nm		4.6mb	
		PcP		58 32.00	
GUN	47.82	306	P	57 15.16	0.4
	0.6s	124.00nm		5.8mb	
PKI	48.07	306	Pc	57 16.48	-0.1
	0.7s	42.00nm		5.3mb	
KKN	48.26	306	P	57 18.02	0.1
	0.9s	119.00nm		5.7mb	
DMN	48.33	306	P	57 18.76	0.3
	0.9s	108.00nm		5.6mb	
GKN	48.86	306	P	57 22.42	-0.1
	0.9s	59.00nm		5.4mb	
GBA	51.52	285	Pc	57 41.90	-0.7
	0.5s	8.50nm		4.8mb	
WMO	54.76	325	P	58 06.10	-0.1
	1.0s	40.00nm		5.3mb	
NDI	55.21	304	iPc	58 08.50	-1.1
	0.5s	24.65nm		5 4mb	
POO	55.69	291	eP	58 13.50	0.2
YAK	59.53	1	iPc	58 38.30	-1.0
QUE	64.23	302	eP	59 10.90	-0.6
YKA	100.07	25	ePdiff	02 28.50	9.1X
	0.7s	0.40nm		4.1mb	
PEL	144.56	152	ePKP	08 11.00	0.0
	S.D. = 0.8	on	40 of	42 obs.	

SEP 23, 1991 18h 30m 26.13± 0.37s
39.815 N ± 4.8km 25.603 E ± 2.5km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
MD 3.2 (ATH).

EZN	0.56	89	iPg	30 36.30	-1.1
PRK	0.77	137	ePb	30 41.70	0.6
			eSn	30 51.00	
ALN	1.13	17	ePd	30 47.46	0.1
			eS	31 02.94	
RDO	1.33	358	ePn	30 50.70	0.1
			eSn	31 10.00	
OUR	1.35	293	ePd	30 50.70	-0.2
PAIG	1.48	275	iPd	30 52.38	-0.5
			iS	31 12.02	
MFT	1.61	52	iPn	30 54.50	-0.2
			eSg	31 19.50	
EDC	1.81	72	ePn	30 58.50	0.9
SOH	1.99	301	iPc	31 00.10	-0.2
			eS	31 27.34	
SRS	2.01	311	iPc	31 00.21	-0.3
			eS	31 27.62	
THE	2.18	293	ePc	31 03.38	0.5
LIT	2.41	278	ePd	31 06.90	0.7
			eS	31 37.94	
KNT	2.46	304	iPd	31 06.93	0.0
			eS	31 37.66	
CTT	2.53	57	ePn	31 08.00	0.0
DMK	2.59	39	ePn	31 08.00	-0.7
AGG	2.66	254	ePc	31 09.90	0.1
GRG	2.70	296	ePd	31 09.54	-0.9
ISK	2.92	64	ePn	31 14.00	0.6
YLV	2.98	74	ePn	31 14.00	-0.4
IZI	3.01	79	ePn	31 15.00	0.1
HRT	3.27	71	ePn	31 18 00	-0.4
MLR	5.68	2	eP	31 54.00	1.3
	S.D. = 0.6	on	22 of	22 obs.	

---

* SEP 23, 1991 19h 20m 26 34± 2.22s
64.732 N ±20.6km 21 432 E ±10.8km
DEPTH = 10.0km (geophysicist)
SWEDEN (536)
ML 3.5 (UPP). Felt at Vasterbatten.

UME	1.06	210	iPgc	20 47.20	0.9
			i	20 52.60	
			iSg	20 58.60	
KAF	3.42	138	eP	21 20.90	0.1
MYV	3.62	243	iPn	21 25.00	1.5
			iPg	21 33.00	
			iSn	22 06.00	
			iSg	22 19.00	
NUR	4.49	159	eP	21 36.20	0.3
RGS	5.15	256	eP	21 46.20	0.9
			eS	22 42.00	
UPP	5.20	202	iPn	21 44.60	-1.4
			iPg	21 57.20	
			iSn	22 41.50	
			iSg	23 01.00	
			i	23 08.00	
HFS	5.84	221	eP	21 54.40	-0.6
	0.2s	1.00nm		4.2mb X	
UDD	5.91	222	iPg	22 13.00	17.1X
			iSn	22 57.40	
			iSg	23 26.00	
MOL	6.55	257	eP	22 04.14	-0.8
			eS	23 15.40	
HYA	7.81	250	eP	22 21.70	-0.9
			eS	23 43.14	
	S.D. = 1.1	on	9 of	10 obs.	

? SEP 23, 1991 19h 23m 49.38± 4.46s
4.717 N ±64.7km 76.153 W ±53.8km
DEPTH = 100.0km (geophysicist)
COLOMBIA (103)
MD 3.0 (UVC).

HOBC	0.36	177	iPc	24 04.40	-0.2
			eS	24 17.70	
BUGC	0.82	187	eP	24 08.60	0.2
			eS	24 25.00	
CLMC	0.93	206	eP	24 10.19	0.7
HOOC	1.33	201	eP	24 13.82	-0.4
ANCC	1.39	211	eP	24 14.37	-0.3
	S.D. = 0.7	on	5 of	5 obs.	

% SEP 23, 1991 19h 46m 50.94± 0.92s
39.347 N ± 8.2km 27.969 E ± 7.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

EDC	1.00	355	iPg	47 09.50	-0.4
			eSg	47 23.50	
EZN	1.36	291	iPn	47 15.90	0.1
IZI	1.52	49	ePn	47 19.00	0.7
MFT	1.53	340	ePn	47 19.00	0.6
KHL	1.59	130	ePn	47 19.00	-0.2
YLV	1.63	41	ePn	47 19.50	-0.3
CTT	1.83	11	ePn	47 22.00	-0.7
HRT	1.97	41	ePn	47 25.00	0.3
	S.D. = 0.6	on	8 of	8 obs.	

---

* SEP 23, 1991 20h 43m 09.35± 0.96s
44.646 N ±10.4km 17.328 E ± 9.6km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 3.3 (ZAG).

ZAG	1.51	321	iPnc	43 35.80	-0.6
			iSn	43 56.30	
PTJ	1.58	323	ePn	43 35.90	-1.7
			iSn	43 56.90	
HVAR	1.60	204	iPn	43 37.40	-0.3
			iSn	44 00.60	
VBY	1.70	301	ePn	43 38.70	-0.5
			i	43 59.60	
			iSn	44 03.90	
			iSg	44 07.40	
RIY	2.20	290	ePn	43 45.80	-0.6
BEO	2.24	84	ePn	43 47.20	0.3
			e(Sn)	44 16.00	
CEY	2.32	299	ePn	43 50.50	2.2
			eSn	44 22.50	
LJU	2.42	306	ePn	43 53.30	3.8X
			eSn	44 26.00	
TRI	2.74	294	eP	43 57.90	3.8X

23d 20h

			e	44 27.00		
BZS	3.19	71	ePc	44 04.50	4.1X	
KBA	3.70	313	iPnc	44 16.60	8.7X	
			iSn	45 05.30		
			i	45 14.40		
FVI	3.74	303	P	44 17.50	9.2X	
			eSn	44 56.00		
CTI	4.24	291	P	44 22.50	7.0X	
			eSn	45 04.00		
WTTA	4.75	305	iPnc	44 23.80	0.9	
			i	44 35.80		
			i	45 23.20		
			i	45 58.40		
KHC	5.17	332	Pn	44 29.00	0.4	
			Pg	44 34.90		
			Sg	45 23.00		
PRU	5.67	341	ePn	45 22.00	46.4X	
			e	45 30.00		
			e	45 46.20		
			Sg	46 10.00		
S.D. = 1.3 on 9 of 16 obs.						

% SEP 23, 1991 20h 53m 55.84± 0.55s
45.982 N ± 4.9km 2.741 E ± 5.5km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.5 (LDG).

MAF	0.27	333	Pg	54 01.60	0.1	
			Sg	54 06.40		
TCF	0.48	310	Pg	54 05.40	-0.2	
			Sg	54 12.60		
BGF	0.58	7	Pg	54 07.20	-0.4	
			Sg	54 15.40		
LSF	0.88	288	Pg	54 12.40	-0.4	
			Sg	54 24.80		
AVF	0.91	27	Pg	54 13.00	-0.3	
			Sg	54 25.20		
SMF	1.01	49	Pg	54 14.60	-0.4	
			Sg	54 28.20		
RJF	1.09	232	Pg	54 16.00	-0.4	
			Sg	54 29.80		
CAF	1.16	205	Pg	54 16.10	-1.4	
			Sg	54 30.60		
SSF	1.20	26	Pg	54 18.40	0.2	
			Sg	54 34.50		
LBF	1.32	40	Pg	54 20.20	0.0	
			Sg	54 37.40		
LOR	1.50	31	Pg	54 23.80	1.0	
			Sg	54 43.20		
LPO	1.70	221	Pg	54 26.60	0.9	
			Sg	54 48.80		
LFF	1.75	234	Pg	54 27.80	1.4	
			Sg	54 51.00		
S.D. = 0.8 on 13 of 13 obs.						

SEP 23, 1991 21h 19m 56.74± 0.72s
21.185 S ± 8.4km 120.799 E ± 5.9km
DEPTH = 10.0km (geophysicist)
WESTERN AUSTRALIA (590)

MBL	0.90	271	iPd	20 15.00	1.0	
NANU	5.08	253	eP	21 14.10	-0.7	
WARB	7.31	134	eP	21 49.40	3.2X	
			eS	23 12.00		
MRWA	9.10	208	eP	22 10 00	-1.1	
			eS	23 49.00		
KNA	9.29	56	eP	22 13 20	-0.6	
			eS	23 45.50		
COOL	9.66	178	eP	22 20.00	1.1	
			eS	24 11.00		
BAL	10.08	201	eP	22 25 00	0.5	
			eS	24 14.00		
MUN	11.50	200	eP	22 44 60	0.5	
			eS	24 51.00		
FORR	11.65	147	eP	22 46.00	0.1	
	0 3s	13	00nm		5.8mb X	
			eS	24 51.00		
NWAO	12.12	194	eP	22 51.00	-1.3	
			eS	25 07.00		
ASPA	12.37	104	iPd	22 56.00	0.2	
	0 3s	5.20nm			5.3mb X	
			iS	25 11.90		
WR2	12.77	87	iPd	22 57.30	-3.9X	
			eS	25 08.80		
			e	25 19.80		
MTN	12.89	52	eP	22 56.00	-6.8X	
			eS	25 18.00		
RKG	13.75	193	eP	23 21.00	7.0X	
			eS	25 50.00		
OIS	17.59	91	e(P)	24 04.00	0.4	
			eS	27 10.00		
S.D. = 0.9 on 11 of 15 obs.						

? SEP 23, 1991 22h 27m 37.42±20.65s
48.440 N ±27.3km 1.989 W ±141.km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.2 (LDG).

LPF	0.75	122	Pg	27 52 20	0.0	
			Sg	28 02.10		
GRR	0.76	93	Pg	27 51.80	-0.4	
			Sg	28 01.10		
FLN	1.05	72	Pg	27 57.00	-0.2	
			Sg	28 09.80		
LDF	1.25	82	Pg	28 01.20	0.5	
			Sg	28 16.70		
S.D. = 0.7 on 4 of 4 obs.						

& SEP 23, 1991 23h 08m 14.27s
60.251 N 153.757 W
DEPTH = 134.8km
SOUTHERN ALASKA (2)
<AEIC>.

INW	0.36	120	iP	08 32.73	0.7	
			eS	08 47.26		
INE	0.40	118	iP	08 32.72	-1.1	
			eS	08 47.61		
RED	0.52	71	eP	08 33.43	-0.9	
RDW	0.53	63	iP	08 33.85	-0.7	
RS1	0.54	67	eP	08 33.77	-0.8	
RS2	0.54	66	eP	08 33.68	-0.9	
RSO	0.54	67	iP	08 33.69	-0.9	
RDN	0.56	61	iP	08 33.91	-0.7	
REF	0.58	65	iP	08 33.86	-1.0	
			eS	08 48.78		
DFR	0.63	57	eP	08 34.04	-1.0	
OPT	0.66	156	iP	08 34.14	-1.0	
			eS	08 49.08		
AUL	0.89	169	eP	08 36.03	-0.9	
AUW	0.90	171	eP	08 36.03	-0.9	
AUH	0.90	170	eP	08 36.17	-0.9	
AUP	0.91	169	eP	08 36.19	-1.0	
AGU	0.91	169	eP	08 36.20	-1.0	
AUE	0.92	168	eP	08 35.96	-1.1	
AUI	0.93	170	eP	08 36.14	-1.1	
			eS	08 52.40		
MCNL	1.11	196	eP	08 38.45	-0.5	
CKL	1.18	36	iP	08 39.21	-0.5	
			eS	08 58.69		
BGL	1.22	33	eP	08 39.89	-0.2	
HOM	1.22	118	eP	08 37.54	-2.5	
NNL	1.25	99	eP	08 38.92	-1.4	
SPU	1.25	41	eP	08 39.57	-0.9	
SVW	1.26	314	eP	08 42.15	1.7	
CGLM	1.36	38	eP	08 40.91	-0.8	
NCG	1.40	33	eP	08 41.39	-0.7	
CNPM	1.46	119	iP	08 39.52	-3.2	
			eS	08 58.64		
SLKM	1.78	80	eP	08 42.66	-3.6	
SYI	1.79	156	eP	08 43.67	-2.7	
			eS	09 06.14		
SUA	1.91	49	iP	08 46.01	-2.0	
SEW	2.16	92	eP	08 46.87	-3.9	
			eS	09 10.18		
PMS	2.29	62	eP	08 49.23	-3.3	
PWA	2.36	52	eP	08 51.58	-1.7	
CUT	2.74	36	eP	08 56.31	-1.9	
GHO	2.80	55	eP	08 55.16	-4.0	
KNK	2.85	64	eP	08 55.09	-4.6	
LTI	2.96	92	iP	08 56.36	-4.7	
KNIM	3.00	86	eP	08 56.30	-5.3	
SML	3.07	57	eP	08 58.24	-4.3	
GLI	3.35	76	eP	09 01.39	-4.9	
HUR	3.37	34	eP	09 04.37	-2.2	
KTH	3.58	21	eP	09 08.02	-1.3	
TRF	3.61	26	eP	09 08.44	-1.4	
FID	3.63	79	eP	09 04.75	-5.3	
VZW	3.64	74	eP	09 04.37	-5.7	
VLZ	3.76	73	eP	09 06.55	-5.0	
RND	3.93	34	eP	09 10.53	-3 5	
CVA	3.98	82	eP	09 09.88	-4.8	
KLU	4.03	69	eP	09 10.13	-5.2	
TOA	4.12	60	eP	09 12.09	-4.4	
51 obs. associated						

% SEP 24, 1991 00h 04m 10.71± 0.52s
37.703 N ± 4.3km 14.972 E ± 4.9km
DEPTH = 11.1 ± 4.2 km
SICILY (398)
MD 2 9 (ROM)

GIO	0.17	141	P	04 16.76	2.0	
MNO	0.32	316	Pd	04 18.50	1.1	
			eSg	04 24.10		
ATN	0.60	40	Pd	04 23.40	0.7	
			eSg	04 35.20		
MEU	0.60	183	Pc	04 22.00	-0.8	
			eSg	04 31.70		
PZI	0.67	184	P	04 23.10	-0.9	
GIB	0.80	291	P	04 27.60	1.4	
			eSg	04 39.00		
GMB	0.84	56	P	04 26.89	-0.1	
SOI	0.93	66	Pd	04 29.00	0.6	
			eSg	04 45.40		
CVT	1.73	270	P	04 41.20	0.4	
USI	1.73	306	P	04 39.90	-1.0	
CZI	1.77	31	P	04 40.60	-0.7	
TDS	2.23	28	P	04 47.30	-0.7	
ROI	2.25	33	P	04 48.50	0.1	
			eSg	05 17.50		
CSI	2.31	26	P	04 49.50	0.2	
MMN	2.32	20	P	04 49.60	0.2	
			eSg	05 17.60		
MGR	2.47	10	P	04 50.80	-0.7	
SGO	2.86	5	P	04 58.10	1.0	
S.D. = 1.0 on 17 of 17 obs.						

% SEP 24, 1991 02h 10m 55.42± 3.73s
18.381 N ±21.9km 66.199 W ±20.3km
DEPTH = 10.0km (geophysicist)
PUERTO RICO REGION (90)

SJG	0.27	170	iP	11 01.20	0.0	
LPR	0.32	103	P	11 56.80	54.7X	
CLLP	0.47	230	P	11 05.00	0.1	
APR	0.51	278	P	11 06.20	0.5	
LRS	0.62	262	P	11 07.00	-0.9	
MEP	0.78	253	P	11 10.90	0.3	
S.D. = 0.8 on 5 of 6 obs.						

• SEP 24, 1991 03h 14m 22.82± 1.99s
24.441 S ±17.7km 67.736 W ±13.6km
DEPTH = 112.4 ± 21.7 km
4.2mb (1 obs.)
CHILE-ARGENTINA BORDER REGION (127)

ANT	2.56	286	iPd	15 03.50	-0.2	
			iS	15 31.20		
CCH	7.18	12	P	16 07.30	0.3	
CNCB	7.60	358	P	16 13.00	0.0	
LPB	7.88	357	P	16 18.60	2.0	
ZOBO	8.14	357	P	16 19.00	-1.3	
SIV	10.48	38	iPc	16 50.20	-1.1	
VAO	19.07	90	eP	18 39.70	0.5	
			i	18 41.20		
ALO	69.54	327	eP	25 21.30	-0.3	
	0.9s		3.36nm		4.2mb	
S.D. = 1.3 on 8 of 8 obs.						

? SEP 24, 1991 04h 33m 07.17± 4.48s
3.946 N ±21.6km 76.963 W ±40.3km
DEPTH = 33.0km (normol)
COLOMBIA (103)
MD 2.6 (UVC).

CLMC	0 40	99	ePc	33 16.71	0.2	
ANCC	0.44	167	ePd	33 17.07	0.2	
			eS	33 24.20		
HOOC	0.58	145	ePd	33 18.86	-0.3	
			eS	33 27.30		
HOBC	0.92	64	iPc	33 23.77	-0.1	
			eS	33 35.90		
S.D. = 0.4 on 4 of 4 obs.						

• SEP 24, 1991 04h 36m 53.38± 1.07s
27.973 S ± 8.0km 148.390 E ±16.3km
DEPTH = 10.0km (geophysicist)
QUEENSLAND, AUSTRALIA (594)

ML 3.9 (QLP), 3.8 (CNB). Felt at St. George.

RMQ	1.51	12	iPc	37	27.80	7.3X
ARMA	3.74	132	iPc	37	44.90	-7.6X
			iPg	37	54.00	
			eS	38	36.00	
BRS	3.93	83	iP	37	52.00	-3.1X
OLP	3.95	290	iPd	38	00.80	5.5X
			iPg	38	20.80	
			iSn	38	44.00	
			iSg	39	31.00	
CMS	4.15	212	eP	38	02.50	4.3X
			i	38	18.00	
			eS	39	09.00	
RIV	6.30	159	e(P)	38	41.00	12.4X
			eS	40	07.80	
BWA	6.43	180	eP	38	29.60	-0.9
			ePg	38	54.30	
STK	7.07	235	iPd	38	43.20	3.8X
	0.3s		7.80nm			5.3mb X
			eS	40	03.70	
CAN	7.34	176	iPd	38	44.50	1.2
			ePg	39	07.60	
			eSn	39	55.60	
CNB	7.37	174	ePn	38	43.30	-0.3
			ePg	39	10.00	
			eSn	40	00.00	
			eSg	40	45.00	
CTAO	8.09	346	iPc	38	53.50	-0.2
			i	39	16.50	
			e	39	29.00	
			e(S)	40	14.00	
			iS	40	26.00	
			eLR	41	02.50	
BFD	10.41	207	eP	39	25.60	-0.2
			e	39	35.00	
			eS	41	18.00	
OIS	10.89	311	eP	39	32.00	-0.4
			eS	41	34.00	
ASPA	13.73	285	eP	40	10.80	0.2
			eS	42	42.60	
WR2	15.10	299	iPd	40	27.80	-0.6
	0 3s	20	10nm			5.0mb X
			iS	43	12.60	
KNA	21.86	300	eP	41	49.30	1.2
	S.D. = 0.9		on 9 of 16 obs.			

---

* SEP 24, 1991 04h 38m 41.56± 1.30s
8.032 S ± 8.1km 116.554 E ±11.2km
DEPTH = 182.4 ± 13.6 km
4.5mb (6 obs.)
SUMBAWA REGION, INDONESIA (285)

TRT	3.90	275	iPd	39	43.40	1.4
			iS	40	24.60	
MBL	13 43	167	eP	41	44.00	-2.2
	0.2s	10.00nm				4.9mb
			eS	44	00.00	
NANU	14.48	184	eP	42	00.00	0.7
			eS	44	26.00	
MTN	15.11	110	eP	42	06.00	-1.2
			eS	44	49.00	
WARB	20.44	153	eP	43	07.00	0.6
			eS	46	51.00	
PSI	20.56	301	ePd	43	07.80	0.2
			e	45	30.00	
WR2	20.92	126	iPc	43	27.80	16.6Y
	0.4s	36.60nm				
MRWA	21.08	181	iPd	43	12.60	-0.1
	0.6s	13.00nm				4.6mb
			eS	47	04.00	
BAL	22.46	180	eP	43	26.00	-0.1
			eS	47	34.00	
COOL	23.14	170	eP	43	32.50	-0.2
			eS	47	48.00	
KLB	23.47	177	eP	43	36.00	0.1
			eS	47	58.00	
MUN	23.83	181	eP	43	39.00	-0.3
			eS	48	07.00	
NWAO	24.78	179	eP	43	47.50	-0.6
			eS	48	30.00	
CTAO	31 14	116	eP	44	49.00	3.7X
STK	33.25	139	eP	45	05.60	2.1
	0 4s	3.60nm				4.4mb
BRS	39 30	124	iPc	45	58.80	4.4X
	1 0s	3.50nm				4.0mb

GUN	46.44	321	P	46	52.20	-0.2
PKI	46.49	321	P	46	51.60	-1.1
DMN	46.71	320	P	46	53.20	-1.2
KKN	46.72	321	P	46	53.60	-0.9
GKN	47.28	320	P	46	57.60	-1.1
MAT	48.78	23	eP	47	12.00	2.1
	0.6s	7.33nm				4.4mb
MAW	69.33	199	iPd	49	31.50	0.8
SPA	82.02	180	eP	50	42.00	-0.3
	1.0s	10.00nm				4.5mb
VAO	145.20	207	(PKP)	58	01.00	1.2
SOB1	151.75	233	ePKP	58	17.60	7.4X
			e	58	26.80	
	S.D. = 1.2		on 22 of 26 obs.			

SEP 24, 1991 04h 56m 29.39± 0.19s
9.430 N ± 2.5km 78.470 W ± 3.6km
DEPTH = 79.3km (6 depth phases)
4.7mb (32 obs.)
PANAMA (81)
Felt (III) at Panama City, Arraijon and Vera Cruz.

UPA	1.14	247	iPc	56	48.90	-1.5
HOBC	5.55	155	iPd	57	48.30	-3.1X
CLMC	5.83	161	ePd	57	54.55	-0.7
			eS	58	16.60	
BUGC	5.92	158	eP	57	55.24	-1.3
			eS	58	17.80	
ANCC	6.09	165	iPd	57	58.01	-0.8
			eS	58	22.70	
HOOC	6.20	163	iPd	57	59.20	-1.3
			eS	58	24.80	
PURC	7.37	163	iPd	58	17.88	1.0
SDV	7.76	93	iPnc	58	21.40	-0.5
			iSn	59	42.20	
PCJ	8.36	9	ePc	58	30.07	0.0
			pP	58	49.59	
			eS	59	54.26	
CUMC	8.43	176	ePd	58	31.30	-0.3
SPJ	8.56	6	ePc	58	32.44	-0.4
			eS	00	02.66	
TOV	8.56	87	ePn	58	31.80	-1.1
			iSn	00	02.50	
YHJ	8.63	13	ePnc	58	34.83	1.1
			Pg	58	36.18	
			eS	59	57.91	
HOJ	8.68	11	ePnc	58	35.67	1.2
			Pg	58	38.88	
			eS	00	04.78	
STH	8.75	10	ePn	58	36.04	0.7
			Pg	58	37.45	
			eS	00	05.49	
GWJ	8.76	11	ePc	58	36.07	0.5
			eS	00	07.94	
B8J	8.98	7	ePnc	58	38.83	0.3
			Pg	58	39.90	
			eS	00	07.70	
YANA	9.48	181	P+	58	47.00	1.1
OUR	9.54	180	Pd	58	47.30	0.7
GGP	9.54	181	P+	58	46.20	-0.6
QTO	9.57	180	Pd	58	47.70	0.6
ANGL	9.80	175	P	58	37.50	-12.6X
CEOS	10.01	91	eP	58	51.40	-1.3
			iS	00	36.00	
CAR	11.42	84	eP	59	10.50	-1.1
			iS	01	07.80	
OLLA	11.51	86	eP	59	10.80	-2.1
GUAN	12.65	87	eP	59	26.20	-1.7
			eS	01	42.90	
TCE	16.51	84	eP	00	17.13	-0.4
TPP	16.79	86	eP	00	21.51	0.5
TRN	16.85	84	eP	00	21.64	-0.1
TBH	17.17	85	eP	00	29.28	3.5X
SVB	17.31	76	eP	00	25.01	-2 4
			e	00	27.67	
NNA	21.34	176	iPd	01	17.00	5 1X
	1 2s	48.44nm				4.7mb
PT10	21.42	176	e(P)	01	14.00	1.4
ZOBO	27.51	158	P	02	11.00	-0.2
BLA	27.71	357	P	02	13.00	0 8
LPB	27.76	158	P	02	13.80	0.5
CNCB	28.06	158	P	02	16.40	0.3
OLY	28.54	337	P	02	18.70	-0.9
UYO	28.66	332	iPd	02	20.50	-0 3
CCH	29.29	155	P	02	26.20	-0 8
ELC	29.39	342	P	02	26.60	-0 7

FVM	30.40	341	ePd	02	35.50	-0.7
	0.7s	61.22nm				5.4mb
			ipP	02	53.50	77km
			sP	03	01.50	
SIV	30.57	146	P	02	37.60	-0.3
TUL	30.72	332	iPc	02	37.80	-1.2
	0.8s	26.60nm				5.0mb
MEO	31.24	327	iPd	02	42.00	-1.6
ALQ	36.04	319	iPd	03	25.10	-0.2
	0.8s	17.35nm				5.0mb
			epP	03	51.80	117kmX
ANMO	36.04	319	P	03	25.00	-0.2
	0.9s	22.06nm				5.1mb
GLD	38.47	326	ePd	03	45.90	0.3
	0.8s	40.00nm				5.4mb
			sP	04	12.50	
GOL	38.52	326	iPd	03	46.00	-0.1
			pP	04	05.30	80km
			sP	04	13.00	
			PcP	05	56.80	
PV09	39.93	321	P	03	57.50	-0.3
RSSD	41.07	332	eP	04	06.50	-0.4
	0.7s	19.03nm				5.0mb
			pP	04	25.60	79km
SOB1	41.74	115	eP	04	12.90	0.3
			e	04	29.90	
MSU	41.85	319	eP	04	13.20	-0.3
			(pP)	04	32.50	79km
			sP	04	40.50	
PLM	42.58	310	ePd	04	19.90	0.4
			sP	04	46.20	
			PcP	06	10.50	
BW06	42.92	326	ePd	04	21.50	-0.7
	0.7s	10.72nm				4.8mb
			sP	04	48.20	
			PcP	06	10.50	
PEL	42.98	170	iPc	04	24.00	1.5
PEC	43.03	310	eP	04	22.90	-0.1
			(pP)	04	42.00	78km
			sP	04	49.20	
TACH	43.44	171	eP	04	27.50	1.4
LNV	43.66	171	eP	04	28.50	0.6
CHCH	43.76	171	iPc	04	29.50	0.7
LRM	46.49	327	eP	04	50.40	-0.3
			e	05	09.80	
ORV	48.64	315	ePd	05	06.40	-0.8
			e	05	33.00	
SES	48.91	333	ePd	05	08.60	-0.6
			pP	05	29.00	83km
NEW	50.51	327	ePd	05	20.10	-1.4
	0.8s	11.25nm				4.9mb
			sP	05	47.00	
PNT	52.46	327	eP	05	36.00	-0.2
YKA	59.06	341	eP	06	21.70	-1.6
	0.6s	6.10nm				4.9mb
INK	68.82	341	eP	07	27.00	0.1
			pP	07	54.00	107kmX
MBC	70.33	350	eP	07	34.50	-1.5
	0.8s	8.00nm				4.7mb
FBA	72.79	335	ePd	07	49.70	-1.2
	1.0s	15.00nm				4.9mb
			pP	08	07.00	63kmX
EKA	73.95	35	P	07	59.00	1.3
	0.8s	9.00nm				4.7mb
LPF	74.65	43	eP	08	02.60	0.7
	0.6s	11.70nm				5.0mb
GRR	74.79	42	eP	08	03.60	0.9
	0.6s	12.65nm				5.0mb
FLN	75.05	42	eP	08	05.30	1.0
	0.6s	9.00nm				4.9mb
Z	20s	0.08um				4.0Msz
MFF	75.19	44	eP	08	06.20	1.1
	0.5s	5.10nm				4.7mb
LDF	75.28	42	eP	08	06.60	1.0
	0.6s	14.45nm				5.1mb
EPF	75.46	48	eP	08	08.20	1.4
	0.8s	5.35nm				4.5mb
LFF	75.77	46	eP	08	09.50	1.1
	0.6s	3.60nm				4.5mb
LPO	76.09	46	eP	08	11.10	0.9
	0.6s	5.40nm				4.6mb
CAF	76.71	46	eP	08	14.80	1.0
	0.8s	6.70nm				4.6mb
TCF	76.82	45	eP	08	15.10	0.8
	0.6s	4.50nm				4.6mb
MAF	77.06	45	eP	08	16.60	1.0
	0.8s	6.70nm				4.6mb

24d 05h

BGF	77.26	44	eP	08	17.20	0.5
	0.8s	8	05nm		4.7mb	
AVF	77.60	44	eP	08	19.30	0.8
	0.8s	6	.05nm		4.6mb	
SSF	77.70	44	eP	08	19.70	0.6
	0.6s	3	.60nm		4.5mb	
SMF	77.94	44	eP	08	21.00	0.6
	0.8s	2	.70nm		4.2mb	
LOR	77.94	44	eP	08	20.80	0.3
	0.8s	6	.70nm		4.6mb	
Z	20s	0	.08um		4.0Msz	
LBF	78.03	44	eP	08	21.00	0.0
	0.6s	2	.25nm		4.3mb	
NB2	81.67	29	P	08	41.60	1.5
	0.7s	2	.10nm		4.2mb	
HFS	82.98	30	eP	08	47.50	0.7
	0.5s	1	.80nm		4.3mb	
SOD	87.10	22	eP	09	09.00	1.7
NUR	88.25	29	eP	09	31.00	18.2X
		e		09	49.00	
ARMA	128.96	238	iPdiff	12	16.30	-0.3
		i		13	22.20	

S.D. = 1.0 on 87 of 92 obs.

SEP 24, 1991 05h 06m 02.82± 0.17s
6.551 S ± 2.5km 130.230 E ± 4.0km
DEPTH = 83.5km (2 depth phases)
5.3mb (32 obs.)
BANDA SEA (280)

AAI	3.49	324	ePc	07	00.50	4.6X
			eS	07	47.00	
MTN	6.32	172	eP	07	35.00	-0.3
KUPT	7.47	241	eP	08	00.50	9.4X
KNA	9.25	189	iPc	08	14.00	-1.6
	0.3s	107	.00nm		6.3mb	X
		eS		09	50.00	
MNI	9.59	326	e(P)	08	23.20	3.0X
MNDI	13.35	89	eP	09	10.00	-0.5
WR2	13.91	164	iPd	09	12.80	-4.7X
	0.5s	225	.70nm		5.8mb	X
		eS		11	36.90	
DAV	14.32	341	eP	09	27.00	4.1X
OIS	16.63	148	iPc	09	48.40	-3.8X
		iS		12	39.50	
PMG	17.00	101	eP	09	57.50	0.7
ASPA	17.38	169	iPd	09	59.40	-2.1
		e		11	23.60	
		eS		12	50.60	
		iScS		21	40.90	
MBL	17.67	214	eP	10	04.00	-1.0
	0.3s	10	.00nm		4.6mb	
		eS		13	10.00	
KKM	18.77	312	ePc	10	19.50	1.2
	0.7s	47	.40nm		4.9mb	
WARB	19.82	190	eP	10	29.00	-0.5
	0.3s	14	.00nm		4.8mb	
		eS		14	00.00	
CTAO	20.57	132	iPc	10	37.90	0.8
	1.0s	150	.00nm		5.3mb	
		i		10	41.00	
		eS		14	18.00	
NANU	21.32	220	eP	10	46.50	1.9
OLP	23.98	148	eP	11	11.40	0.7
		e		15	20.00	
FORR	24.26	184	eP	11	13.30	0.0
	0.3s	46	.00nm		5.5mb	
		eS		15	44.00	
GUA	24.72	36	eP	11	18.30	0.5
	0.7s	120	.55nm		5.4mb	
GUMO	24.73	36	eP	11	18.60	0.7
	0.7s	127	.06nm		5.5mb	
PJG	24.73	36	eP	11	18.70	0.8
BAG	24.73	337	eP	11	18.90	0.7
COOL	25.66	198	eP	11	26.80	0.2
	0.4s	3	.00nm		4.1mb	X
MRWA	26.25	209	eP	11	32.20	0.3
		eS		16	29.00	
RMO	26.55	140	eP	11	44.00	9.3X
		i		12	08.50	
		e		16	39.00	
BAL	27.09	206	eP	11	40.00	0.4
		eS		16	48.00	
STK	27.35	159	iPc	11	42.20	0.3
	0.6s	28	.40nm		5.0mb	
		eS		16	49.70	
KLE	27.51	204	eP	11	43.60	0.2
		eS		17	00.00	
MUN	28.49	206	eP	11	52.40	0.2
		eS		17	20.00	
CMS	28.78	152	eP	11	54.80	-0.1
		e		17	25.00	
NWAO	28.89	203	eP	11	56.00	0.1
		eS		17	33.00	
ADE	29.34	166	eP	12	00.10	0.2
BRS	29.80	137	iPc	12	03.40	-0.7
	0.5s	16	.20nm		5.0mb	
		i(pP)		12	28.50	114kmX
RKG	30.44	202	eP	12	11.00	1.4
QIZ	32.40	322	iPc	12	27.10	0.2
BWA	32.43	151	iPc	12	28.70	1.6
BFD	32.49	162	eP	12	26.00	-1.5
		e		18	50.00	
PSI	32.58	285	ePd	12	28.20	-0.3
		e		14	50.00	
OZH	33.29	341	Pd	12	34.20	-0.3
CAN	33.43	151	iPc	12	36.40	0.6
CNB	33.60	151	iPc	12	38.00	0.7
KHT	37.86	304	eP	13	13.80	0.3
DZM	38.19	118	iPc	13	16.60	0.2
SSE	38.42	347	Pd	13	18.70	0.8
	1.1s	35	.00nm		5.2mb	
BDT	38.88	308	eP	13	22.20	0.3
	0.6s	55	.40nm		5.6mb	
CHG	39.83	310	iPd	13	30.90	1.0
	0.8s	33	.58nm		5.3mb	
		e		16	16.80	
NJ2	39.89	345	Pc	13	31.00	0.9
	1.0s	70	.00nm		5.5mb	
WHN	39.90	338	iPd	13	31.60	1.4
	1.0s	80	.00nm		5.6mb	
GYA	39.99	326	iPd	13	32.00	0.8
	1.0s	30	.00nm		5.1mb	
		PcP		15	35.80	
TSRJ	42.21	7	P	13	49.30	0.2
IIDJ	42.43	9	P	13	50.40	-0.6
CHJJ	43.17	10	P	13	55.50	-1.4
MTMJ	43.49	9	P	13	58.90	-0.7
MAT	43.51	9	eP	13	59.00	-0.7
	1.0s	51	.00nm		5.3mb	
KAKJ	43.54	12	P	13	59.00	-0.9
NIIJ	44.33	10	P	14	05.00	-1.3
CD2	45.05	327	eP	14	11.80	-0.4
	1.2s	40	.00nm		5.1mb	
XAN	45.13	335	iPd	14	12.20	-0.6
	0.8s	30	.00nm		5.2mb	
		pP		14	32.50	84km
TIY	47.06	341	iPd	14	28.00	0.0
BJI	48.14	346	eP	14	36.00	-0.3
	1.0s	32	.00nm		5.2mb	
SNY	48.53	353	iPc	14	39.20	0.0
	1.0s	20	.00nm		5.0mb	
LZH	49.12	332	Pd	14	44.50	0.4
	1.6s	76	.00nm		5.4mb	
		pP		15	05.00	83km
		sP		15	12.50	
HHC	50.19	342	eP	14	52.40	0.2
	1.0s	20	.00nm		5.1mb	
CN2	50.30	356	eP	14	51.60	-1.2
	1.0s	20	.00nm		5.1mb	
BTO	50.47	340	eP	14	51.20	-3.1X
EWZ	51.21	143	P	15	00.70	0.9
THZ	51.56	140	eP	15	02.60	0.0
KHZ	52.30	140	P	15	07.30	-0.7
GTA	53.69	331	iPd	15	18.40	0.0
	0.8s	20	.00nm		5.2mb	
		pP		15	34.60	62kmX
GUN	54.83	311	P	15	26.68	-0.6
	0.7s	121	.00nm		6.0mb	
PKI	55.01	310	P	15	27.62	-0.9
	0.7s	35	.00nm		5.5mb	
KOD	55.13	287	eP	15	32.70	3.2X
KKN	55.22	310	P	15	29.26	-0.7
	0.8s	74	.00nm		5.8mb	
DMN	55.26	310	P	15	29.66	-0.6
	0.8s	61	.00nm		5.7mb	
GKN	55.82	310	P	15	33.54	-0.6
	0.8s	85	.00nm		5.9mb	
GBA	56.11	291	Pc	15	34.90	-1.3
	1.2s	10	.60nm		4.8mb	
WMO	63.14	327	P	16	24.50	0.4
	1.2s	40	.00nm		5.3mb	
YAK	68.36	360	iPd	16	56.70	-0.3
GAR	71.51	315	eP	17	16.90	0.0
MAIO	78.58	309	iPd	17	58.00	0.8
SPA	83.49	180	iPc	18	21.90	-0.6
	0.8s	16	.67nm		5.1mb	
NNA	147.38	124	iPKP	25	39.50	2.5X
	0.5s	4	.23nm			
VAO	150.50	185	ePKP	25	48.30	6.7X
CNCB	150.62	142	PKP	25	50.00	7.4X
LPB	150.76	142	PKP	25	50.00	7.4X
ZOBO	150.95	141	PKP	25	50.00	6.9X
CCH	151.24	146	PKP	25	50.90	7.7X
PPD	151.56	177	ePKP	25	49.80	6.6X

S.D. = 0.8 on 72 of 88 obs.

% SEP 24, 1991 05h 57m 44.07± 0.79s
45.356 N ± 6.1km 7.384 E ± 7.7km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.2 (GEN).

LSD	0.19	302	P	57	48.68	0.2
			S	57	51.45	
RSP	0.22	204	P	57	49.50	0.5
			S	57	53.07	
ORX	0.50	56	P	57	54.22	-0.1
			S	58	00.99	
BHB	0.52	189	P	57	54.95	0.3
			S	58	02.09	
RRL	0.61	224	P	57	55.76	-0.8
			S	58	03.57	
PZZ	0.87	193	P	58	00.70	-0.3
			S	58	12.26	

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

& SEP 24, 1991 06h 24m 29.27s
59.264 N 153.350 W
DEPTH = 92.3km
4.0mb (2 obs.)
SOUTHERN ALASKA (2)
<AEIC>.

AUI	0.08	331	iPc	24	41.86	1.0
			iS	24	51.17	
AUE	0.10	353	iPc	24	41.99	1.1
AGU	0.10	337	iPc	24	42.07	1.0
AUP	0.11	340	iPc	24	42.08	1.0
AUH	0.11	335	iPc	24	42.13	1.1
AUW	0.12	330	iPc	24	42.04	1.1
AUL	0.13	340	iPc	24	42.15	1.2
CDD	0.37	204	iPc	24	42.61	-1.0
OPT	0.39	9	iPc	24	43.17	-0.6
MCNL	0.51	262	iPc	24	43.62	-1.0
INE	0.81	10	iPd	24	46.51	-1.0
			iS	25	00.12	
INW	0.81	8	ePd	24	46.55	-1.0
SYI	0.82	142	iPc	24	46.25	-1.2
HOM	0.96	65	iPc	24	48.25	-0.7
CNPM	1.11	75	iPc	24	49.59	-1.2
			eS	25	06.19	
RED	1.19	14	ePd	24	50.62	-1.2
			eS	25	07.64	
RS1	1.24	14	iPd	24	51.40	-1.0
RSO	1.24	14	iPd	24	51.40	-1.1
			iS	25	08.63	
RS2	1.24	14	iPd	24	51.42	-1.1
RDW	1.25	12	iPd	24	51.45	-1.2
REF	1.27	15	iPd	24	51.66	-1.2
RDN	1.29	13	iPd	24	51.88	-1.1
NNL	1.30	52	iPc	24	52.59	-0.4
NCT	1.32	9	iPd	24	52.12	-1.2
			iS	25	09.97	
DFR	1.37	14	iPd	24	52.86	-1.2
RDT	1.40	19	iPd	24	52.89	-1.4
			iS	25	11.59	
KDC	1.59	163	iPd	24	54.90	-1.7
CKL	2.00	14	iPd	25	00.92	-1.3
SLkM	2.01	50	ePd	25	00.52	-1.7
			eS	25	23.80	
SPU	2.03	18	ePd	25	01.07	-1.5
BGL	2.06	13	iPd	25	01.83	-1.2
SEW	2.15	65	ePc	25	01.90	-2.1
			eS	25	28.01	
SVW	2 17	329	iPd	25	03.20	-1.2
NCG	2.23	15	iPd	25	03.96	-1.3
SUA	2.56	29	ePd	25	08.66	-1.1
PMS	2.74	42	iPd	25	10.80	-1.4
SKT	2 87	17	iPd	25	11.90	-2.0
			eS	25	47.47	

LTI	2.90	72	iPc	25	12.03	-2.2
			iS	25	44.83	
PWA	2.95	34	iPc	25	13.60	-1.3
KNIM	3.04	67	iPc	25	13.00	-3.2
			eS	25	47.92	
PLPM	3.14	40	ePd	25	14.72	-2.8
PMR	3.14	40	ePd	25	15 10	-2.4
KNK	3 25	46	eP	25	16 60	-2.5
			eS	25	53 03	
GHO	3.33	39	ePd	25	17.54	-2.8
CUT	3.49	24	eP	25	20.67	-1.7
GLI	3.53	60	ePd	25	19 23	-3.7
SML	3.56	42	eP	25	20.68	-2.7
MID	3.59	84	ePd	25	21.70	-2.1
FID	3 76	64	iPc	25	22.09	-4.0
VZW	3 84	59	ePd	25	24.33	-3.0
TTA	3.90	342	iPd	25	26 10	-2.0
VLZ	3.97	59	ePd	25	25.90	-3.1
CVA	4.04	68	eP	25	26.19	-3.7
HUR	4.14	24	eP	25	29.35	-2.0
KLU	4.31	56	ePd	25	30.54	-3.3
TRF	4.45	18	eP	25	33.14	-2.7
KTH	4.46	14	ePd	25	33.27	-2.6
RAGM	4.52	72	eP	25	33.37	-3.3
TOA	4.53	48	ePd	25	34.70	-2.2
KAIM	4.59	78	eP	25	35.22	-2.4
RND	4.69	26	ePd	25	36.02	-3.0
HMT	4.72	73	eP	25	36.02	-3.3
TZL	4.79	51	eP	25	37.79	-2.6
MCK	4.96	23	eP	25	40.03	-2.7
SDG	5.02	46	eP	25	41.11	-2.5
GLB	5.22	61	ePc	25	42.59	-3.8
PAX	5.33	42	eP	25	44.58	-3.4
CROM	5.34	69	ePc	25	44.68	-3.5
SNH	5.40	76	iPc	25	46.06	-2.8
WAX	5.42	73	eP	25	45.49	-3.8
TGL	5.49	70	eP	25	46.55	-3.6
SDN	5.52	228	eP	25	48.19	-2.3
THY	5.54	38	eP	25	48.64	-2.2
NEA	5.70	19	ePd	25	49.13	-3.9
BALM	5.78	67	P	25	50.30	-3.9
WRH	5.79	23	ePd	25	50.35	-3.8
WRG	5.79	77	eP	25	51.55	-2.7
YAH	5.96	74	iPc	25	53.94	-2.9
HDA	5.98	28	eP	25	53.17	-3.7
CCB	6.00	23	ePd	25	52.85	-4.3
MDM	6.20	21	ePd	25	55.51	-4.4
FBA	6.23	22	eP	25	56.70	-3 6
CTGM	6.25	69	ePc	25	58.27	-2 4
GLM	6.39	23	ePd	25	58.43	-4.1
PCA	6.68	77	eP	26	03.60	-3.0
IMA	6.83	359	ePd	26	06.00	-2.7
YKU	6.96	82	eP	26	09.40	-0.9
BCPM	6.99	78	iPc	26	08.04	-2.8
PNL	7.12	81	iPc	26	08.94	-3.7
HON	7.40	82	iPc	26	12.29	-4.1
ANM	7.77	318	eP	26	19.70	-1.7
FYU	8.20	23	eP	26	23.31	-4.0
SIT	9.78	95	eP	26	44.90	-3.8
INK	12.54	36	P	27	20.00	-5.3
	0.4s		0.70nm			3.7mb
ADK	15.06	251	eP	27	56.20	-1.9
MBC	20.77	22	eP	29	04.00	-0.1
	0.5s		6.00nm			4.2mb
	96 obs. ossocioted					

---

* SEP 24, 1991 06h 57m 08.39± 1.04s
26.294 S ± 8.0km 28.077 E ±13 4km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
mbLg 3.4 (BUL)

SLR	0.59	18	iPc	57	20.60	0.5
			S	57	26.70	
KSR	1.14	292	eP	57	30.50	0.1
			S	57	44.00	
BFT	1.87	72	iPc	57	46.50	5.0X
			S	58	10 50	
SEH	2.06	191	iPc	57	49.00	4.7X
			S	58	12.50	
BLF	3.27	210	eP	58	01.50	0.1
			S	58	49.00	
JOZ	3.75	109	eP	58	19.00	10.8X
	0.5s		22.54nm			
			S	58	56.50	
FRS	4.22	215	iPc	58	14.70	0.0
			S	59	00.10	
BUL	6.14	5	iPn	58	41.50	-0.6
			eSn	59	46.00	
			iSg	00	16.30	
MTD	10.01	20	iPn	59	32.70	-3.4X
			iSn	01	19.60	
			iSg	02	15.00	
	S.D. = 0.6		on	5	of 9	obs.

SEP 24, 1991 07h 21m 06.47± 0.45s
35.711 N ± 4.6km 84.095 W ± 3.6km
DEPTH = 5.0km (geophysicist)
TENNESSEE (506)
mbLg 3.0 (GS). MD 3.3 (TEIC).
Felt (IV) ot Friendsville, Louisville, Moryville ond Tollossee. Felt (III) ot Alcoo ond Greenback.

GBTN	0.10	244	iPc	21	09.98	1.2
ORT	0.26	319	P	21	12.40	0.6
TKL	0.27	101	iP	21	12.89	1.0
ETT	0.48	217	P	21	15.80	-0.4
CRTN	0.53	23	P	21	17.00	-0.1
WSSR	0.60	136	P	21	18.70	0.1
BHT	0.70	281	P	21	19.20	-1.4
WMTN	0.85	237	P	21	22.30	-1.1
BBG	0.87	164	P	21	22.90	-0.8
ANTN	1.03	297	P	21	25.40	-1.0
BRTN	1.18	57	P	21	28.50	-0.6
TCT	2.82	277	P	21	54.50	1.4
NAV	3.10	58	eP	21	56.68	-0.4
BLA	3.32	62	eP	22	00.11	0.0
			eS	22	50.99	
PWLA	3.33	258	eP	22	01.50	1.3
ELC	4.42	292	eP	22	19.83	4.1X
CVL	5.05	62	ePn	22	31.16	6.4X
			eSg	23	40.13	
	S.D. = 1.0		on	15	of 17	obs.

% SEP 24, 1991 08h 11m 44.40± 2.02s
3.753 N ±13.5km 76.195 W ±18.1km
DEPTH = 54.5 ± 32.6 km
COLOMBIA (103)
MD 3.2 (UVC).

BUGC	0.15	336	ePd	11	52.79	-0.4
CLMC	0.39	289	iPc	11	54.23	-0.8
HOQC	0.52	237	iPc	11	55.30	-1.3
			eS	12	04.00	
HOBC	0.60	6	iPd	11	56.50	-0.9
			eS	12	06.10	
ANCC	0.71	251	iPd	11	58.12	-0.5
PURC	1.43	187	ePc	12	09.04	0.2
			eS	12	28.00	
	S.D. = 0.8		on	6	of 6	obs.

? SEP 24, 1991 08h 13m 02.33±17.15s
45.320 N ±76.8km 125.716 W ±114.km
DEPTH = 10.0km (geophysicist)
OFF COAST OF OREGON (30)

LVP	2.44	71	P	13	43.12	0.2
			S	14	14.82	
CPW	2.44	46	P	13	42.55	-0.3
CZM	2.50	62	P	13	42.82	-1.0
FL2	2.51	68	P	13	43.70	-0.3
			S	14	15.24	
MTMW	2.56	73	P	13	44.34	-0.2
			S	14	16.97	
SHW	2.59	69	P	13	45.15	0.1
TDL	2.66	66	P	13	45.49	-0.6
CDFW	2.69	71	P	13	46.98	0.5
KOSW	2.71	64	P	13	47.24	0.4
			S	14	21.05	
LMW	2.74	59	P	13	47.50	0.2
ASR	3.00	72	P	13	50.95	0.0
GMW	3.01	41	P	13	50.81	-0.1
RVC	3.07	57	P	13	52.10	0.3
WPW	3.22	63	P	13	54.13	0.2
			S	14	34.33	
GSM	3.31	54	P	13	55.65	0.3
JCW	3.88	41	P	14	03.45	0.2
RPW	4.25	41	P	14	08.52	-0.1
			S	14	59.91	
ETW	4.37	57	P	14	10.49	0.1
PNT	5.76	44	eP	14	30.00	0.1
	0.3s		7.00nm			4.8mb
	S.D. = 0.4		on	19	of 19	obs.

? SEP 24, 1991 08h 31m 22.29± 1.04s
40.461 N ±13.5km 28.824 E ± 6.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YLV	0.43	76	iPg	31	31.20	0.1
IZI	0.51	104	iPg	31	32.60	-0.1
			eSg	31	40.40	
CTT	0.75	337	iPg	31	36.90	0.0
			iSg	31	47.40	
KGT	1.16	270	ePn	31	44.00	0.0
	S.D. = 0.1		on	4	of 4	obs.

? SEP 24, 1991 10h 11m 15.83± 4.23s
8.459 S ±36.0km 122.181 E ±14.7km
DEPTH = 178.5 ± 19.5 km
4.8mb (7 obs.)
FLORES REGION, INDONESIA (286)

KUPT	2.19	140	eP	12	03.30	8.0X
KNA	9.69	139	eP	13	31.90	-0.4
	0.3s		27.00nm			5.2mb X
			eS	15	15.00	
MTN	9.82	117	iPc	13	34.00	0.1
			iS	15	19.00	
MBL	12.83	190	eP	14	13.00	0.0
			eS	16	32.00	
NANU	15.41	204	eP	14	46.00	0.7
	0.4s		15.00nm			4.7mb
			eS	17	32.00	
WR2	16.42	135	eP	14	57.20	-0.4
	0.6s		99.80nm			5.4mb X
			eS	17	56.30	
WARB	18.13	167	eP	15	17.50	0.3
	0.4s		27.00nm			5.0mb
ASPA	18.83	145	iPd	15	25.00	0.4
	1.0s		80.40nm			5.1mb
			eS	18	47.40	
MRWA	21.45	195	iPc	15	51.30	0.4
	0.4s		17.00nm			4.9mb
			eS	19	53.00	
COOL	22.33	182	eP	15	59.60	0.1
BAL	22.62	192	iPc	16	02.60	0.4
	0.3s		12.00nm			4.9mb
FORR	22.95	167	eP	16	06.00	0.6
KLB	23.38	190	eP	16	09.60	0.0
MUN	24.05	193	eP	16	15.50	-0.5
			eS	20	56.00	
NWAO	24.77	190	eP	16	22.30	-0.4
CTAO	25.99	119	iPc	16	34.00	-0.1
RKG	26.42	190	eP	16	36.00	-1.7
STK	29.47	145	iPd	17	05.40	0.2
	0.5s		3.80nm			4.4mb
BRS	34.51	127	iP	17	49.40	0.4
	0.8s		6.00nm			4.3mb
	S.D. = 0.6		on	18	of 19	obs.

% SEP 24, 1991 10h 15m 53.69± 1.87s
44.318 N ±16.7km 8.030 E ± 8.5km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.9 (GEN).

ROB	0.12	258	P	15	56.77	0.1
			S	15	58.24	
FIN	0.17	130	P	15	57.53	0.0
			S	15	59.68	
IMI	0.42	194	P	16	02.32	0.0
			S	16	08.19	
ENR	0.45	258	P	16	02.65	-0.2
			S	16	08.94	
STV	0.51	262	P	16	04.20	0.1
	S.D. = 0.2		on	5	of 5	obs.

? SEP 24, 1991 10h 45m 05.13± 3.38s
4.635 N ±56.8km 76.109 W ±54.0km
DEPTH = 100.0km (geophysicist)
COLOMBIA (103)
MD 2.8 (UVC).

HOBC	0.28	185	iPc	45	19.68	-0.3
			eS	45	31.60	
BUGC	0.75	191	ePd	45	23.01	-0.4
			eS	45	37.40	
CLMC	0.87	211	ePc	45	25.09	0.4

24d 10h

HOQC 1.27 204 ePc 45 28.45 -0.8
ANCC 1 34 214 ePd 45 29.28 -0.6
S.D. = 0.7 on 5 of 5 obs.

SEP 24, 1991 11h 11m 22.50± 0.61s
43.664 N ±10.4km 148.286 E ± 8.6km
DEPTH = 33.0km (normal)
4.9mb (17 obs)
EAST OF KURIL ISLANDS (222)

KUSJ 2.67 259 eP 12 02.60 -1.4
eS 12 33.30
HOOJ 3.88 252 P 12 24.20 2.9X
eS 13 08.90
ASAJ 4.11 278 eP 12 25.80 1.3
MRRJ 5.43 259 eP 12 44.10 0.9
eS 13 42.50
OFUJ 6.76 230 eP 13 00.30 -1.7
eS 14 14.00
YAMJ 8.31 231 eP 13 23.00 -0.6
eS 15 04.10
MAT 10.49 231 eP 13 54.00 0.4
MDJ 13.46 281 eP 14 34.50 1.0
CN2 16.50 278 eP 15 15.50 2.6
Z 15s 0.60um
epP 15 22.00
BJI 24.11 272 eP 16 36.00 0.0
TIA 24.92 263 eP 16 44.10 0.2
NJ2 25.83 253 Pd 16 52.00 -0.4
HHC 27.19 277 eP 17 03.10 -1.8
TIY 27.68 270 eP 17 12.00 2.6
BTO 28.38 277 eP 17 20.40 4.7X
LZH 34.60 273 eP 18 11.00 0.5
1.4s 28.00nm 5.0mb
pP 18 18.50 26kmX
GTA 36.12 280 P 18 22.60 -0.8
1.0s 10.00nm 4.7mb
CD2 37 22 265 eP 18 32.70 0 1
IMA 38.29 34 ePc 18 42.10 0.8
FBA 40.68 36 ePc 19 02.40 1.5
WMQ 42.89 292 eP 19 19.00 -0.4
INK 46.06 30 eP 19 45.00 0.6
CHG 48.05 255 eP 20 02.00 1.3
CHTO 48 05 255 eP 20 02.00 1.3
1.0s 7.00nm 4.6mb
GUN 51.84 274 P 20 29.26 -0.8
KKN 52.35 274 P 20 32.14 -1 5
PKI 52.38 274 P 20 32.62 -1.4
DMN 52.58 274 P 20 34.90 -0 6
GKN 52.69 275 P 20 35.30 -0.9
WRA 64.58 195 P 22 01 20 2 6
0.7s 0 60nm 3.8mb X
FFC 65.28 37 eP 22 13.00 10.1X
0.9s 14.00nm
NB2 69.98 339 P 22 30 30 -1.9
0.5s 0.90nm 4.1mb
HFS 70.09 338 eP 22 30.30 -2.5X
0.4s 1.60nm 4.4mb
KRA 76.36 329 eP 23 10.20 0.5
KSP 77.04 331 eP 23 13.00 -0.5
CLL 77.77 333 iPc 23 16.60 -0.9
0.9s 15.00nm 5.0mb
PRU 78.37 332 P 23 20.60 -0.2
GRF 79.74 333 e(P) 23 29.00 0.7
CDF 82.11 335 eP 23 40.00 -0.9
0.8s 5.35nm 4.6mb
LOR 84.16 337 eP 23 50.80 -0.6
1.0s 10.00nm 4.9mb
LBF 84.38 336 eP 23 52.70 0.2
0.8s 5.35nm 4.8mb
SSF 84.45 337 eP 23 52 50 -0 3
1.0s 7.00nm 4.8mb
SMF 84.73 336 eP 23 53 90 -0.3
0.8s 6.05nm 4.8mb
AVF 84.74 337 eP 23 54 00 -0 2
1.0s 7.00nm 4.8mb
LPF 84.78 340 eP 23 54.50 0.1
0.9s 9.85nm 5.0mb
LPL 84.86 334 eP 23 55.30 0.1
0.9s 6.55nm 4 8mb
MAF 85.48 337 eP 23 58.40 0.4
0.8s 9.40nm 5.1mb
LSF 85.75 338 eP 23 59.50 0.2
0.8s 9.40nm 5.1mb
MFF 85.87 339 eP 24 00.40 0.5
1.0s 16.00nm 5.2mb
SOB1 144.76 16 (PKP) 30 56.00 -1.9

S.D. = 1.2 on 46 of 50 obs.

? SEP 24, 1991 11h 18m 41.46± 2.84s
33.049 S ±20.6km 179.462 E ±26.2km
DEPTH = 196.4 ± 24.3 km
4.5mb (3 obs.)
SOUTH OF KERMADEC ISLANDS (179)

HBZ 4.64 191 eP 19 49.10 -2.6
KUZ 4.80 219 eP 19 58.00 4.2X
URZ 5.54 200 eP 20 01.90 -1.5
eS 21 07.20
NOZ 5.68 191 P 20 05.30 0.2
MOZ 6.63 213 P 20 22.10 4.5X
MGZ 6.74 207 eP 20 20.60 1.6
NGZ 6.87 206 P 20 21.70 0.9
CNZ 6.91 206 eP 20 22.20 0.9
RUZ 6.92 208 eP 20 23.10 1.7
BSZ 7.66 207 P 20 30.70 -0.5
MNG 8.20 202 P 20 35.50 -2.8X
eS 22 05.00
KIW 8.61 204 eP 20 37.60 -5.9X
CAW 8.78 202 eP 20 39.20 -6.5X
MRW 9.01 204 eP 20 43.70 -4.9X
eS 22 22.70
TCW 9.14 205 eP 20 45.10 -5.3X
KHZ 10.46 205 eP 21 02.20 -5.3X
LTZ 11.25 208 eP 21 12.80 -5.0X
MQZ 11.90 205 eP 21 20.80 -5.3X
DZM 15.88 310 iPd 22 16.60 0.7
ASPA 40.90 271 iPd 26 05.70 -0.3
0.7s 6.70nm 4.3mb
WR2 42.11 276 iPc 26 14.40 -1.5
0.5s 12.50nm 4.7mb
WRA 42.14 276 P 26 15 30 -0.8
0.4s 6.30nm 4.5mb
KAF 146.24 338 iPKP 37 54.30 -3.6X
0.5s 7.00nm
NUR 147.97 337 ePKP 37 59.60 -1.0
NB2 150.97 348 PKP 38 06.70 1.4
0.6s 6.30nm
HFS 151.32 345 ePKP 38 06.70 0.9
0.4s 4.50nm
S.D. = 1.5 on 15 of 26 obs.

• SEP 24, 1991 11h 30m 39.56± 0.73s
17.994 S ±15.8km 167.421 E ± 9.6km
DEPTH = 33.0km (normal)
4.1mb (3 obs.)
VANUATU ISLANDS (186)

BKM 0.85 68 iPd 30 55.00 -0.1
iS 31 07.00
PVC 0.89 74 iPd 30 55.80 0.2
iS 31 07.50
DZM 4.16 193 iPc 31 42.10 -0.3
iS 32 29.10
CTAO 20.12 261 iPd 35 14.50 0.9
STK 27.11 234 eP 36 22.70 1.2
0.6s 1.50nm 3.8mb
WRA 31.32 261 P 36 58.40 -0.8
0.4s 1.40nm 4.1mb
ASPA 31.78 254 iPd 37 02.30 -1.1
1.1s 4.50nm 4.3mb
S.D. = 1.0 on 7 of 7 obs.

SEP 24, 1991 11h 53m 46.05± 0.71s
34.442 N ± 6.5km 32.179 E ± 8.0km
DEPTH = 10.0km (geophysicist)
CYPRUS REGION (372)
MD 3.9 (HLW). ML 3.8 (CSS).

PPCY 0.46 17 eP 53 55.00 -0.5
eS 54 03.00
CSS 1.08 61 eP 54 05.50 -0.9
eS 54 22.00
LFK 1.39 53 iPn 54 13.50 2.0X
FAM 1.60 69 eP 54 16.00 1.6
eS 54 40.30
BHL 2.93 100 Pn 55 03.00 29.4X
Sn 56 43.00
ELL 2.95 322 iP 54 35.00 1.0
YER 4.15 311 eP 54 51 10 0.2
KHL 4.43 332 eP 54 53 90 -0.9
KOT 4.51 184 ePn 54 55.00 -0.9
eSn 55 45.00
HLW 4.62 189 ePn 54 58.00 0.4
ePb 55 08.00
eSn 55 51.50
eSb 56 05.00
eSg 56 15.50
S D. = 1.1 on 8 of 10 obs.

% SEP 24, 1991 12h 32m 06.18± 1.90s
11.064 N ± 7.5km 62.060 W ±20.3km
DEPTH = 33.0km (normal)
WINDWARD ISLANDS (95)
MD 3.3 (TRN).

TCE 0.47 140 eP 32 16.23 -0.2
eS 32 27.25
TRN 0.77 123 eP 32 19.72 -0.8
eS 32 34.93
TPP 0.95 141 eP 32 23.94 0.7
eS 32 37.68
TBH 1.13 120 eP 32 25.69 -0.1
eS 32 43.58
GRW 1.16 20 eP 32 26.20 0.0
eS 32 43.69
TPR 1.27 84 eP 32 27.40 -0.3
eS 32 48.04
BOT 1.32 85 eP 32 29.15 0.7
eS 32 49.32
SVB 2.33 20 eP 32 42.92 -0.1
S.D. = 0.6 on 8 of 8 obs.

? SEP 24, 1991 12h 42m 48.87± 7.33s
30.584 N ±92.0km 82.878 E ±28.6km
DEPTH = 33.0km (normal)
XIJANG (306)

GKN 3.00 149 P 43 36.50 1.2
KKN 3.49 142 P 43 42.56 0.2
DMN 3.55 146 P 43 42.52 -0.7
PKI 3.73 143 P 43 44.62 -1.2
GUN 3.74 135 P 43 46.48 0.5
NDI 5.28 250 eP 44 07.50 0.0
S.D. = 1.1 on 6 of 6 obs.

% SEP 24, 1991 14h 07m 36.07± 0.74s
44.372 N ± 6.6km 7.374 E ± 7.9km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.7 (GEN).

STV 0.13 196 P 07 39.68 0.3
S 07 42.86
ENR 0.15 167 P 07 39.17 -0.4
S 07 42.14
PZZ 0.24 304 P 07 41.12 -0.1
S 07 45.12
ROB 0.36 102 P 07 43.68 0.1
S 07 49.63
BHB 0.48 350 P 07 45.73 0.0
S.D. = 0.4 on 5 of 5 obs.

? SEP 24, 1991 14h 08m 52.63± 3.24s
35.931 S ±16.0km 179.887 W ±35.2km
DEPTH = 219.8 ± 12.3 km
4.3mb (3 obs.)
EAST OF NORTH ISLAND, N.Z. (688)

HBZ 2.21 221 eP 09 33.50 -1.6
S 10 14.80
NOZ 3.15 211 P 09 46.90 1.4
URZ 3.34 225 P 09 46.90 -0.8
S 10 35.90
KUZ 3.64 256 P 09 45.60 -5.6X
PAHZ 3.80 219 P 09 55.50 2.2X
MOH 3.97 216 eP 09 57.90 2.6X
WLZ 4.10 241 eP 09 55.70 -1.1
WHH 4.12 223 eP 09 57.60 0.4
MGZ 4.76 229 eP 10 06.20 1.1
TEHZ 4.82 212 eP 10 08.10 2.3X
NGZ 4.83 227 P 10 06.80 0.7
CNZ 4.88 227 eP 10 07.70 1.0
MOZ 4.96 237 eP 10 08.00 0.5
RUZ 4.96 229 P 10 08.30 0.7
PGZ 5.57 212 P 10 16.80 1.5
BSZ 5.63 225 eP 10 16.80 0.7
MNG 5.93 217 eP 10 20.50 0.6
eS 11 38.10
MTW 6 35 213 P 10 25.60 0.3
KIW 6.40 218 P 10 25.40 -0.5

CAW	6.51	216	eP	10 26.80	-0.5
WDW	6.67	215	P	10 28.70	-0.7
MOW	6.67	213	P	10 30.00	0.6
MRW	6.78	217	eP	10 29.90	-0.9
			eS	11 56.00	
WEL	6.79	216	eP	10 30.20	-0.7
TCW	6.98	219	eP	10 30.50	-2.9X
THZ	8.09	222	eP	10 46.90	-1.1
KHZ	8.24	216	P	10 49.60	-0.3
			eS	12 28.60	
DSZ	8.70	226	eP	10 53.00	-2.9X
LTZ	9.15	219	eP	11 00.20	-1.3
MOZ	9.65	214	eP	11 06.80	-1.2
			eS	13 02.00	
ODZ	11.60	215	P	11 33.90	1.0
ASPA	41.57	274	iPc	16 21.40	1.0
	0.4s		3.90nm	4.2mb	
WR2	43.04	279	iPd	16 32.20	-0.1
	0.4s		14.90nm	4.8mb	
WRA	43.06	279	P	16 31.90	-0.6
	0.4s		4.00nm	4.2mb	
S.D. = 1.0 on 28 of 34 obs.					

SEP 24, 1991 14h 24m 37.29± 0.60s
39.189 N ± 6.3km 20.571 E ± 4.7km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)

IGT	0.39	332	iPd	24 43.17	-2.1
			eS	24 52.12	
KEK	0.79	311	eP	24 54.70	2.0
			eS	25 06.00	
VLS	1.01	179	eP	24 56.50	0.1
			eS	25 11.80	
AGG	1.38	96	ePd	25 02.08	-0.5
			iS	25 24.14	
KZN	1.45	39	iPd	25 04.00	0.4
FNA	1.71	21	iPc	25 08.89	1.6
			eS	25 34.20	
LIT	1.74	58	ePc	25 08.50	0.8
			eS	25 33.04	
OHR	1.93	5	iPn	25 11.00	0.5
			Lg	25 46.40	
GRG	2.26	38	ePc	25 16.46	1.2
			iS	25 48 10	
PAIG	2.51	72	ePd	25 18.14	-0.7
			eS	25 53.80	
KNT	2.66	41	iPd	25 20.92	0.0
SOH	2.69	52	ePd	25 21.56	0.1
			iS	25 57.01	
SKO	2.86	13	ePn	25 22.00	-1.7
OUR	2.87	65	ePc	25 23.80	-0.1
			eS	25 59.32	
SRS	3.01	49	ePd	25 24.88	-1.0
			eS	26 05.78	
BRT	3.09	304	P	26 03.70	36.7X
CZI	3.45	272	P	25 31.90	-0.2
			eSn	26 12.50	
MGR	3.99	285	P	25 39.30	-0.4
			eSn	26 24.20	
SGO	4.27	290	P	25 44.00	0.2
S.D. = 1.1 on 18 of 19 obs.					

SEP 24, 1991 16h 21m 16.59± 0.34s
44.274 N ± 2.6km 7.276 E ± 3.0km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.4 (LDG), 2.3 (GEN).

STV	0.05	130	P	21 18.31	-0 5
			S	21 19.23	
ENR	0.11	114	P	21 19.54	0.0
			S	21 21.59	
TOUF	0 26	184	Pg	21 21.98	-0.2
PZZ	0.26	332	P	21 21.59	-0.6
			S	21 25.48	
AUTN	0.30	159	Pg	21 23.06	0 1
SAOF	0.35	145	Pg	21 23 82	0.0
			Sg	21 28.96	
AURF	0.39	175	Pg	21 24.54	0.0
MVIF	0.39	193	Pg	21 24.64	0.1
			Sg	21 29.93	
SBF	0.43	164	Pg	21 24.90	-0.4
			Sg	21 32.00	
RO8	0.43	87	P	21 25.97	0.6
			S	21 33.05	
BHB	0.57	359	P	21 27.33	-0.8
			S	21 34.71	
IMI	0.57	129	P	21 28.12	-0.1
			S	21 36.84	
CALN	0.59	208	Pg	21 28.44	-0.2
FIN	0.67	95	P	21 30.07	0.1
			S	21 39.81	
FRF	0.85	213	Pg	21 33.60	0.7
			Sg	21 43.40	
PCP	0.95	73	P	21 35.92	1.2
			S	21 48.22	
LRG	1.05	219	Pg	21 36.40	0.0
			Sg	21 50.00	
LMR	1.09	211	Pg	21 37.40	0.3
			Sg	21 51.20	
CDR	1.24	242	eP	21 40.50	0.8
			e	21 57.10	
LPG	1.28	343	Pg	21 40.80	0.3
			Sg	21 57.20	
PGF	2.13	143	Pn	21 51.60	-1.2
S.D. = 0.6 on 21 of 21 obs.					

? SEP 24, 1991 17h 01m 51.78±12.03s
10.739 S ±91.1km 165.054 E ±121.km
DEPTH = 33.0km (normol)
4.4mb (5 obs.)
SANTA CRUZ ISLANDS (184)

HNR	5.19	284	P	03 10.00	0.7
			eS	04 01.00	
CTAO	20.35	241	iPc	06 28.00	-0.3
	1.5s		129.03nm	5.1mb	
RMO	21.96	222	eP	06 56.00	11.4X
			i	08 16.50	
STK	30.21	222	eP	08 03.40	1.8
	0.9s		2.60nm	4.0mb	
WR2	30.93	249	iPc	08 07.10	-1.0
	1.0s		9.60nm	4.6mb	
			eS	12 58.90	
WRA	30.95	249	P	08 07.80	-0.5
	0.6s		3.00nm	4.3mb	
ASPA	32.33	242	eP	08 19.70	-0.7
	1.0s		4.70nm	4.3mb	
INK	89.83	19	eP	15 37.00	48.9X
SOB1	147.46	127	ePKP	21 47.40	15.0X
S.D. = 1.4 on 6 of 9 obs.					

? SEP 24, 1991 18h 32m 58.73± 4.72s
51.552 N ±31.1km 16.227 E ±27.6km
DEPTH = 10.0km (geophysicist)
POLAND (548)
ML 3.6 (VKA), 3.5 (GRF), 3.4 (KBA).

KSP	0.71	177	iP	33 12.60	-0.1
			iS	33 22.40	
			e	33 30.00	
BRG	1.59	246	iPn	33 27.00	0.1
			iPg	33 28.50	
			iSg	33 47.70	
PRU	1.90	215	Pn	33 31.50	0.1
	0.4s		42.50nm		
			Pg	33 33.20	
			e	33 37.80	
			Sn	33 50.40	
			Sg	33 57.30	
			e	34 04.60	
CLL	2.03	264	iPn	33 32.80	-0.6
			iPg	33 36.10	
			iSg	34 01.90	
KHC	2.96	216	Pn	33 46.00	-0.6
			Pg	33 52.50	
			eSg	34 30.00	
HOF	3.02	247	ePn	33 43.80	-3.6X
MOX	3.05	254	ePg	33 55.40	7.6X
			iSg	34 34.00	
VKA	3.29	179	iPnc	33 51.80	0.4
			iPg	34 01 00	
			iSg	34 43.90	
ZST	3.41	170	eP	34 29.40	36.4X
SPC	3.49	131	eP	34 25.20	30.8X
			e	34 55 40	
GRF	3.69	242	e(Pn)	33 58 10	1.1
			ePg	34 08.40	
			e(Sn)	34 38.40	
			eSg	34 54.40	
KBA	4.86	204	iPnd	34 13.50	-0.2
			iPg	34 31.00	
			iSn	35 07.20	
			iSg	35 34.90	
WTTA	5.23	217	eP	34 48.00	29.0X
			e(Sn)	35 41.00	
FVI	5 45	206	P	34 21.80	-0.2
			eSn	35 51.50	
S.D. = 0.6 on 9 of 14 obs.					

SEP 24, 1991 20h 05m 01.43± 0.20s
53.996 N ± 4.1km 164.297 W ± 2.7km
DEPTH = 33.0km (normol)
5.0mb (72 obs.) 4.2Msz (4 obs.)
UNIMAK ISLAND REGION (10)
ML 5.2 (PMR). Felt (IV) ot King Cove ond (III) at Cold Boy ond False Poss.

SDN	2.59	57	ePc	05 42.60	0.8
MCNL	7.56	43	eP	06 52.53	0.4
			eS	08 16.01	
KDC	7.63	56	eP	06 52.10	-0.9
CDD	7.69	46	eP	06 54.07	0.1
ADK	7.78	259	ePc	07 00.00	4.9X
AUI	8.02	44	eP	06 57.22	-1.3
SYI	8.07	50	eP	06 58.03	-1.1
OPT	8.30	42	eP	07 03.17	0.8
SVW	8.51	30	ePc	07 06.80	1.4
INW	8.60	40	eP	07 07.07	0.5
INE	8.62	41	eP	07 07.47	0.5
RED	8.97	40	eP	07 11.88	0.2
RDW	8.99	39	eP	07 12.85	0.7
RS1	9.00	39	eP	07 13.00	0.8
NCT	9.00	38	eP	07 11.82	-0.3
CNPM	9.06	47	eP	07 11.02	-1.8
TTA	9 94	22	eP	07 25.70	0.6
SLKM	10.02	44	eP	07 24.94	-1.2
SEW	10.13	47	eP	07 24.32	-3.2X
SUA	10.40	39	eP	07 30.21	-1.2
SKT	10.47	35	eP	07 32.92	0.7
ANM	10.62	357	eP	07 35.76	1.6
PMS	10.71	41	eP	07 33.20	-2.4X
LTI	10.80	49	eP	07 33.17	-3.5X
KNIM	10.99	48	eP	07 35.92	-3.4X
PMR	11.09	41	eP	07 37.90	-2.7X
CUT	11.19	36	eP	07 41.26	-0.7
KNK	11.25	42	eP	07 39.34	-3.4X
GHO	11.27	40	eP	07 40.01	-3.2X
GLI	11.53	46	eP	07 43.07	-3.5X
FID	11.73	48	eP	07 44.85	-4.5X
VZW	11.84	46	eP	07 47.38	-3.5X
CVA	11.96	49	eP	07 48.23	-4.2X
VLZ	11.97	46	eP	07 49.37	-3.2X
SGAM	12.19	50	eP	07 51.73	-3.8X
KLU	12.32	45	eP	07 53.80	-3.6X
RND	12.35	34	eP	07 56.90	-0.8
TOA	12.53	42	eP	07 57.20	-2.9X
IMA	13.19	19	eP	08 10.30	1.4
	0.9s		19.79nm	5.1mb	
GLB	13.20	47	eP	08 05.97	-3.0X
WAX	13.25	52	eP	08 06.29	-3.4X
PAX	13.28	40	eP	08 07.77	-2.3X
TGL	13.37	51	eP	08 08.69	-2.5X
CCB	13.54	31	eP	08 10.52	-2.8X
MDM	13.64	30	eP	08 12.41	-2.2X
HDA	13.64	33	eP	08 11.78	-2.9X
FBA	13.72	31	eP	08 13.00	-2.7X
YAH	13.75	53	eP	08 13.70	-2.6X
GLM	13.91	31	eP	08 15.88	-2.3X
CTGM	14.13	51	eP	08 15.65	-5.6X
FYU	15.65	29	eP	08 40.80	0.0
SIT	16.63	68	eP	08 55.00	1.8
	0.8s		28.97nm	4.5mb	
INK	20.31	33	eP	09 33.00	-3.8X
	0.4s		44.00nm	5.2mb	
YKA	26.85	52	eP	10 39.40	-1.0
	0.6s		11.20nm	4.7mb	
LON	27.70	88	eP	10 48.50	0.2
			epP	10 59.00	39kmX
MBC	27.91	21	eP	10 49.50	-0.3
	0.5s		7.00nm	4.6mb	
NEW	29.70	82	eP	11 05.40	-0.9
	0.9s		7.46nm	4.5mb	
SES	32.20	74	eP	11 27.00	-1.2
CMB	33.79	100	eP	11 43.00	0.8
	0.9s		7.37nm	4.6mb	
YAK	34.41	310	iPc	11 45.70	-1.5
KVN	34.45	97	eP	11 48.40	0.4

24d 20h

			epP	11	58.50	35kmX	LDF	76.91	11	iPc	16	51.10	-0.5	MME	82.09	4	P	17	21.20	1.4
BONR	35.06	98	eP	11	54 00	0.6		0.8s	13.45nm			5.0mb		BDI	82.22	4	P	17	20.90	0.7
			epP	12	04.00	34kmX	GRR	77.03	11	iPc	16	52.10	-0.1	IMI	82.24	6	P	17	19.82	-0.5
FFC	35.26	63	eP	11	57.00	2.4		0.6s	9.00nm			5.0mb		SBF	82.26	6	eP	17	21.00	0.5
	0.7s	6.00nm			4.6mb		GWF	77.18	5	P	16	52.90	-0.2		1.0s	24.00nm			5.2mb	
BW06	37.15	85	eP	12	10.00	-0.9	KHC	77.23	1	P	16	53.60	0.2	KHT	82.30	284	eP	17	20.50	-0.5
SBB	37.60	102	eP	12	15.00	0.5			e		17	05.00		SFI	82.40	3	Pc	17	22.70	1.6
GSC	37.76	100	eP	12	16.00	0.1	LPF	77.36	11	iPc	16	54.10	0.1	PGD	82.45	3	P	17	23.20	1.7
MSU	38.29	92	eP	12	20 00	-0.5		1.0s	26.00nm			5.2mb		MAIO	82.45	326	iPc	17	22.30	0.7
			epP	12	31.00	39kmX	CDF	77.72	6	P	16	56.03	-0.1		0.9s	12.79nm			5.0mb	
PLM	39.11	102	eP	12	28.00	0.6	VITF	77.83	7	P	16	56.81	0.2	EPF	82.46	11	eP	17	21.30	-0.2
RSSD	39.57	79	eP	12	29.50	-1.6	HAU	78.07	6	iP	16	57.80	-0.2		0.Bs	4.70nm			4.6mb	
	0.8s	6.01nm			4.4mb			0.6s	9.00nm			5.0mb		FRF	82.51	7	eP	17	22.50	0.8
GLA	40 51	101	eP	12	49.00	10.3X	Z	20s	0.13um			4.2Msz			0.8s	10.75nm			5.0mb	
MAT	42.78	270	eP	12	57.00	-0.3	ZST	78.18	359	eP	16	58.90	0.4	ENSF	82.68	11	P	17	23.66	0.9
	0.9s	14.29nm			4.7mb		BSF	78.27	6	iPc	16	58.80	-0.4	LMR	82.73	7	eP	17	23.60	0 8
ANMO	44.08	91	eP	13	09.00	0.9		0.6s	9.00nm			5.0mb			1.0s	16.00nm			5.1mb	
	1.0s	18.75nm			4.8mb		MOF	78.27	6	P	16	58.93	-0.2	GRBF	82.78	10	P	17	23.45	0.3
ALO	44.08	91	eP	13	07.00	-1.1	FEL	78.30	5	P	16	59.02	-0.3	MTHF	82.78	10	P	17	23.99	0.8
	1.2s	8.98nm			4.5mb		GUN	78.55	302	P	17	01.72	0.4	ARV	82.85	2	P	17	24.70	1.2
		e		13	18.00			0.6s	99.00nm			6.0mb		PTO	82.96	18	iPd	17	25.00	1.0
		e		14	52.00		LOR	78.61	8	iPc	17	01.00	0.0	VTS	83.57	354	iPc	17	26.00	-1.4
CN2	45.49	287	Pc	13	18.20	-0.8		0.8s	18.80nm			5.2mb		PGF	83.66	5	iPc	17	28.30	0.6
	1.0s	10.00nm			4.7mb		Z	22s	0.10um			4.1Msz			1.0s	40.00nm			5.5mb	
		PcP		14	56.00		BBS	78.68	6	P	17	01.30	-0.1	SKO	84.28	356	iP	17	31.00	0.3
DAG	47.68	10	eP	13	35.00	-0.9	LOMF	78.75	6	P	17	01.66	-0.1		1.5s	56.00nm			5.5mb	
SCH	52.16	47	ePc	14	09.00	-1.5	SSF	78.79	8	iPc	17	02.10	0.2	KKB	84.30	354	eP	17	31.00	0.1
	1.0s	54.00nm			5.5mb			0.6s	23.45nm			5.4mb		KDZ	84.36	353	eP	17	32.00	0.8
HHC	55.14	293	eP	14	32.40	-0.3	MFF	78.88	11	iPc	17	02.60	0.2	RZN	84.38	353	iP	17	32.00	0.5
	1.0s	10.00nm			4.8mb			0.8s	18.80nm			5.1mb		DUI	84.71	1	P	17	34.40	1.4
BTO	56.15	294	P	14	39.90	-0.1	CHG	78.88	287	ePc	17	05.00	2.2	TOL	84.96	15	iPc	17	34.50	0.3
KEV	56.28	355	eP	14	38.00	-2.4		1.0s	15.25nm			5.0mb			1.2s	62.50nm			5.7mb	
SSE	56.63	278	Pc	14	43.50	0.1	CHTO	78.88	287	iP	17	02.20	-0.6	QUE	85.19	317	eP	17	36.00	0.2
	1.0s	21.00nm			5.1mb			1.1s	13.25nm			4.9mb		MTN	86.05	242	eP	17	40.30	0.5
TIY	56.87	290	eP	14	46.00	0.8	LBF	78.90	8	iPc	17	02.50	-0.1		0.5s	40.00nm			5.9mb	
NJ2	57.30	281	Pd	14	47.50	-0.6		0.6s	16.25nm			5.2mb		MGR	86.24	0	Pc	17	40.70	0.2
CVL	58.10	68	P	14	51.20	-2.4	KKN	78.94	302	P	17	03.58	0.2	CSI	86.60	360	P	17	43.20	0.8
SOD	58 68	355	iP	14	56.00	-1.3	AVF	79.04	9	iPc	17	03.20	-0.1	ROI	86.80	359	P	17	43.70	0.3
WHN	61 01	283	Pc	15	13.40	-0.3		0.6s	18.05nm			5.2mb		CZI	87.16	360	P	17	44.40	-0.6
	0.8s	30.00nm			5.5mb		WTTA	79.06	3	iPc	17	04.00	0.4	WR2	90.42	236	iPc	18	00.40	-0.2
XAN	61.50	289	P	15	16.10	-1.0		0.6s	14.50nm			5.1mb			1.3s	3.70nm			4.5mb	
		PcP		15	58.00				i		17	07.20		WRA	90.43	236	P	18	00.60	0.0
GTA	62.39	300	iPc	15	22.00	-1.2	PKI	79.06	302	P	17	03.84	-0.3		0.7s	1.50nm			4.4mb	
	0.8s	10 00nm			5.0mb		GKN	79.09	303	P	17	04.36	0.3	HYB	90.98	302	eP	18	03.70	0.2
		PcP		16	02.00		DMN	79.18	302	P	17	05.22	0.5		1.0s	50.00nm			5.8mb	
LZH	62.76	294	Pc	15	25.20	-0.5	BGF	79.23	9	iPc	17	04.20	-0.1	PSI	91.83	277	ePd	18	08.40	1.1
	1.8s	50.00nm			5.3mb			0.8s	16.10nm			5.1mb				e		19	50.00	
KAF	63.93	354	iP	15	31.30	-1.5	SMF	79.23	8	iPc	17	04.10	-0.2	ASPA	93.80	234	eP	18	16.10	0.0
	0.5s	22.60nm			5.5mb			0.8s	24.20nm			5 2mb			0.8s	5.30nm			5.0mb	
WMQ	64.87	311	P	15	39.00	-0.3	KBA	79.28	2	iPc	17	05.50	0.7	GBA	94.78	301	Pc	18	20.70	-0.2
		PcP		16	12.30			0.6s	9.10nm			4.9mb			0.7s	11.80nm			5.4mb	
NB2	65.26	2	P	15	39.60	-1.8			i		17	09.80		SPA	143.81	180	iPKPd	24	29.10	-4.3X
	0.7s	13.90nm			5.2mb		LSF	79.40	10	iPc	17	05.30	0.0		1.1s	19.05nm				
NUR	65.62	355	eP	15	42.40	-1.3		0.8s	21.50nm			5.2mb				i		25	05.10	
HFS	66.21	1	eP	15	45.90	-1.6	TCF	79.44	9	iPc	17	05.40	-0.1	BUL	144.79	339	iPKPd	24	35.40	-1.1
	0.5s	47.40nm			5.8mb			0.8s	8.05nm			4.8mb			1.0s	95.00nm				
UPP	66.49	359	iP	15	47.70	-1.5	MAF	79.54	9	iPc	17	06.10	0.1	WIN	148.60	358	ePKP	24	46.00	3.3X
CD2	66.72	291	eP	15	51.00	-0.2		0.8s	10.75nm			4.9mb			0.6s	33.33nm				
	1.0s	100.00nm			5.9mb		FVI	79.76	2	P	17	07.10	0.0	BFT	149.78	334	iPKPc	24	50.00	5.5X
GYA	68.50	286	iPc	16	03.00	0.5	BDT	80.10	2B6	eP	17	09.30	-0.1		0.5s	19.01nm				
	1.0s	80 00nm			5.8mb		RJF	80.34	10	eP	17	10.30	0.0	SLR	150.26	337	iPKPd	24	48.00	2.9X
OBN	69.91	347	eP	16	10.00	-0.6		0.6s	5.40nm			4.7mb			0.7s	30.82nm				
EKA	69.93	11	Pd	16	10.50	-0.2	Z	20s	0.13um			4.3Msz		KSR	150.69	339	ePKP	24	51.00	5.2X
	0.7s	13.20nm			5.1mb		ORX	B0.53	5	P	17	11.82	0.4		0.5s	4.05nm				
KMI	71.75	288	Pc	16	22.50	0.0	LPL	80.57	6	eP	17	12.70	0.9	SEK	152.90	336	iPKPc	24	56.70	7.8X
OIZ	72.43	278	P	16	26.50	0.2		0.8s	6.05nm			4.6mb			0.5s	31.69nm				
WTS	74 12	6	eP	16	36.00	0 4	LPG	80.59	6	eP	17	12.60	0.6	MAW	154.07	220	ePKP	24	57.00	7.9X
	0.8s	14.00nm			5.0mb			0.8s	5.35nm			4.6mb			S.D. = 0.8	on 175 of 211 obs.				
CLL	75.04	2	eP	16	40.00	-0.9	LFF	80.62	11	iPc	17	12.10	0.4	---						
	0.9s	11 00nm			4.9mb			0.4s	13.20nm			5.3mb		%	SEP 24, 1991	20h 32m 50.86± 0.63s				
ENN	75.29	6	eP	16	42.50	0 1	BZS	80.64	356	eP	17	11.50	-0.3		38.889 N ± 4.7km	16.056 E ±11.8km				
	0.7s	17.00nm			5.2mb		LSD	80.66	6	P	17	13.26	1.0		DEPTH = 10.0km	(geophysicist)				
BRG	75.49	1	iP	16	43.20	-0 3	CAF	80.77	10	eP	17	13.00	0.4		SOUTHERN ITALY				(390)	
	1.0s	10.00nm			4.8mb			0.9s	11.45nm			4.9mb								
KSP	75.53	360	ePc	16	43.20	-0.6	LPO	80.92	10	iPc	17	13.50	0.1	CZI	0.33	10	P	32	57.80	0.0
MOX	75.68	3	iPc	16	44.40	-0.2		0.4s	4.60nm			4.8mb		ACI	0.47	14	P	33	01.00	0.5
	1.8s	44.00nm			5.2mb		RSP	80.97	6	P	17	14.39	0.6	ROI	0.79	30	P	33	05.10	-1.1
DOU	75.86	7	Pc	16	45.30	-0.3	BNI	B1.03	6	Pc	17	15.80	1.7	TDS	0.80	16	P	33	06.60	0.2
GAR	76.15	319	eP	16	47.50	-0.1	RRL	81.17	6	P	17	16.64	1.7				eSg	33	19.80	
KRA	76.26	357	eP	16	47.60	-0.3	BHB	81.28	6	P	17	15.92	0.7	SOI	0.82	180	P	33	06.80	0.2
PRU	76.39	1	eP	16	48.50	-0.1	PZZ	81.60	6	P	17	17.26	0 1				eSg	33	18.60	
GRF	76.62	3	iPc	16	50.40	0.5	PCP	81.65	5	P	17	16 95	-0.3	ATN	0.B6	213	Pc	33	07.40	-0.1
	0 7s	15.00nm			5.1mb		CKI	81.75	5	Pc	17	17.90	0.2				eSg	33	19.40	
		e		17	00.40		ROB	81.86	6	P	17	17.87	-0.5	CSI	0.90	11	P	33	09.00	0.8
FLN	76.71	11	eP	16	50.00	-0.4	STV	81.88	6	P	17	17.67	-0.8				eSg	33	25.20	
	0.8s	9.40nm			4.9mb		ENR	81.90	6	P	17	17.67	-0.9	MMN	1 00	357	P	33	09.80	0.0
	Z 20s	0.13um			4.2Msz		FIN	B1.96	5	P	17	18.28	-0 6	MGR	1.31	343	P	33	14.10	-0.9

		eSn	33 33.20		
SGO	1.76	341 P	33 21.90	0.3	
S.D. = 0.7	on	10 of	10 obs.		

? SEP 24, 1991 20h 59m 19.90± 5.48s
39.749 N ±43.9km 27.892 E ±18.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

EDC	0.60	358 ePg	59 31.50	-0.5	
KGT	0.84	327 iPn	59 35.90	-0.1	
		eSg	59 47.90		
IZI	1.35	64 ePn	59 44.80	0.0	
YLV	1.40	54 ePn	59 45.00	-0.5	
CTT	1.46	16 ePn	59 47.30	1.1	
S.D = 0.9	on	5 of	5 obs.		

SEP 24, 1991 21h 38m 03.64± 0.41s
2.890 S ± 5.0km 133.871 E ± 8.7km
DEPTH = 33.0km (normal)
4.7mb (9 obs.) 4.4Msz (1 obs.)
IRIAN JAYA REGION, INDONESIA (196)

AAI	5.72	262 eP	39 29.00	0.4	
		eS	40 30.00		
MNI	10.00	295 e(P)	40 28.50	0.3	
MTN	10.26	195 eP	40 18.20	-13.5X	
		iS	42 21.00		
KNA	13.73	201 eP	41 12.80	-5.6X	
WR2	16.96	178 iPc	41 56.00	-4.2X	
		eS	41 58.70		
OIS	18.43	163 e(P)	42 18.00	-0.4	
		e	44 55.00		
KKM	19.74	297 ePc	42 38.50	4.6X	
ASPA	20.66	180 iPd	42 43.20	-0.1	
0.6s	388.90nm		6.0mb X		
		eS	46 00.10		
CTAO	20.94	146 iP	42 47.50	1.3	
1 0s	25.00nm		4.6mb		
		eS	46 48.00		
MBL	22.73	216 eP	43 04.50	0.4	
BAG	23.24	326 eP	43 10.00	0.7	
WARB	24.18	196 iPd	43 19.70	1.5	
NANU	26.44	221 eP	43 40.00	0.5	
STK	29.74	167 eP	44 07.60	-1.7	
0.5s	1.40nm		4.0mb		
		i	44 51.40		
COOL	30.33	202 eP	44 14.20	-0.4	
BAL	31.99	209 eP	44 28.80	-0.3	
QIZ	32.14	314 eP	44 30.00	-0.6	
ADE	32.23	173 iPc	44 31.00	-0.2	
WHN	38.11	332 eP	45 22.50	1.1	
NST	38.13	300 eP	45 24.50	2.8X	
KHT	39.11	298 eP	45 30.60	0.7	
CHG	40.57	304 eP	45 42.00	0.0	
1.0s	11.00nm		4.6mb		
CHTO	40.57	304 eP	45 42.00	0.0	
1.0s	8.75nm		4.5mb		
XAN	43.61	329 P	46 05.70	-1.0	
SNY	45.48	349 eP	46 22.60	1.1	
BJI	45.70	341 eP	46 23.00	-0.3	
1.0s	13.00nm		4.8mb		
CN2	47.09	352 P	46 36.80	2.5	
MDJ	47.45	356 eP	46 36.50	-0.6	
LZH	47.85	327 eP	46 41.00	0.4	
1.0s	16.00nm		5.0mb		
Z 18s	0.34um		4.4Msz		
		pP	46 47.00	20kmX	
		sP	46 57.00		
HHC	48.06	337 eP	46 47.20	5.1X	
GTA	52 46	327 Pc	47 15.20	-0.5	
1 0s	10.00nm		4.7mb		
		sP	47 28.80		
GUN	55.37	307 P	47 38.00	0.4	
PKI	55.61	306 P	47 38.00	-1.3	
KKN	55.80	307 P	47 39.40	-1.1	
DMN	55.87	306 P	47 40.20	-0 8	
GKN	56.41	306 P	47 44.40	-0.4	
HYB	58.15	292 eP	47 56.20	-0.9	
GBA	58.32	288 Pc	47 57.60	-0.6	
1.1s	7.40nm		4.7mb		
WMO	62.22	324 P	48 24.50	-0.1	
		PcP	49 05.00		
AK	64.80	358 eP	48 39.40	-1.7	
OUE	71.70	303 e(P)	49 24.70	-0.3	
MAIO	79.18	308 eP	50 09.00	1.7	
SPA	87.13	180 iPd	50 41.50	-6.0X	

0.7s	7.81nm		5.1mb		
CNCB	150.87	133 PKP	57 58.00	7.8X	
LPB	150.96	132 ePKP	57 57.00	6.8X	
ZOBO	151.10	132 PKP	57 56.00	5.4X	
S.D. = 1.0	on	36 of	46 obs.		

% SEP 24, 1991 21h 56m 06.81± 0.96s
1.081 S ± 5.4km 78.319 W ±11.7km
DEPTH = 10.0km (geophysicist)
ECUADOR (107)
MD 4.0 (QUI).

TUNG	0.36	201 iP	56 14.30	0.0	
VC1	0.45	349 Pd	56 16.30	0.2	
QUIL	0.69	298 P	56 20.60	-0.1	
		eS	56 30.60		
OUR	0.93	347 iP+	56 24.30	-0.5	
		S	56 37.80		
GGP	0.94	343 P+	56 25.50	0.3	
YANA	0.99	345 Pd	56 25.80	-0.2	
		eS	56 39.70		
CAYA	1.20	16 P+	56 29.20	-0.3	
		S	56 46.00		
COTA	1.41	359 P+	56 33.50	0.6	
		eS	56 52.60		
S.D. = 0.4	on	8 of	8 obs.		

* SEP 24, 1991 22h 02m 28.62± 2.02s
46.852 N ±12.1km 1.045 W ±22.4km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.5 (LDG).

MFF	0.67	112 Pg	02 42.60	0.7	
		Sg	02 53.30		
LPF	1.18	0 Pg	02 50.60	0.0	
		Sg	03 07.00		
GRR	1.54	5 Pg	02 56.60	0.4	
		Sg	03 17.60		
LDF	1.85	19 Pn	03 00.30	-0.3	
		Pg	03 03.00		
		Sg	03 28.30		
LSF	1.88	108 Pg	03 04.80	3.8X	
		Sg	03 30.00		
FLN	1.95	11 Pn	03 02.00	-0.1	
		Pg	03 05.50		
		Sg	03 30.70		
LFF	2.28	146 Pg	03 12.60	5.7X	
		Sg	03 41.60		
TCF	2.32	103 Pn	03 06.60	-0.8	
		Pg	03 13.20		
		Sg	03 44.00		
RJF	2.36	130 Pn	03 07.80	-0.2	
		Pg	03 12.80		
		Sg	03 45.20		
MAF	2.57	103 Pn	03 11.20	0.2	
		Pg	03 18.00		
		Sg	03 51.00		
LPO	2.67	143 Pg	03 18.20	5.7X	
		Sg	03 53.60		
BGF	2.69	95 Pg	03 20.00	7.2X	
		Sg	03 56.40		
CAF	2.90	130 Pn	03 15.80	0.1	
		Pg	03 23.00		
		Sg	04 00.60		
S.D. = 0.5	on	9 of	13 obs.		

* SEP 24, 1991 22h 19m 00.51± 0.82s
37.971 N ±12.8km 72.104 E ±11.5km
DEPTH = 33.0km (normal)
4.2mb (2 obs.)
TAJIKISTAN (715)

QUE	8.86	210 eP	21 09.40	0.0	
		eS	22 44.00		
GKN	14.46	130 P	22 26.46	1.6	
KKN	15.00	129 P	22 30.84	-1.2	
DMN	15.03	130 P	22 32.42	0.0	
PKI	15.24	129 P	22 34.74	-0.5	
HFS	42.47	321 eP	26 53.70	0.0	
0.4s	2.40nm		4.3mb		
N82	43.75	322 P	27 04.20	0.0	
0.7s	2.60nm		4.1mb		
S.D. = 1.0	on	7 of	7 obs		

SEP 24, 1991 22h 47m 58.60± 0 54s
43.517 N ± 3.3km 17 435 E ± 4.2km
DEPTH = 12 7 ± 3.9 km
NORTHWESTERN BALKAN REGION (383)
MD 3 9 (TRI). ML 3.6 (VIE), 3.5 (ZAG), 3.5 (ROM).

ZAG	2.52	336 ePn	48 41.00	1.1	
		iSg	49 23.00		
VBY	2.53	323 ePn	48 42.00	2.0	
		iSn	49 13.10		
		iSg	49 19.90		
BEO	2.53	58 ePn	48 42.70	2.6	
PTJ	2.61	337 ePn	48 41.50	0.3	
		iSn	49 14.10		
BRT	2.64	184 P	48 41.00	-0.7	
		eSn	49 14.60		
DUI	2.88	231 P	48 45.40	0.3	
CEY	3.09	317 ePn	48 49.50	1.5	
		e(Sn)	49 28.00		
AQU	3.18	250 P	48 52.20	2.9X	
UZD	3.18	14 ePn	48 47.90	-1.4	
LCI	3.20	173 P	48 49.10	-0.5	
SDI	3.23	237 P	48 50.00	0.0	
LJU	3.26	322 ePn	48 52.50	2.0	
		eSn	49 35.50		
ARV	3.27	271 P	48 50.60	0.0	
SKO	3.33	116 ePn	48 55.10	3.7X	
		e	49 43.50		
SGO	3.35	209 P	48 51.60	-0.1	
TRI	3.42	311 ePn	48 52.40	-0.2	
		iSn	49 34.10		
		iSg	49 51.30		
OHR	3.46	133 ePn	48 55.70	2.3	
ASS	3.51	264 P	48 54.20	0.1	
RSM	3.64	278 P	48 58.00	2.3	
BZS	3.65	53 ePc	48 53.50	-2.5X	
MGR	3.66	203 P	48 55.70	-0.4	
MMN	3.78	197 P	48 59.20	1.4	
		eSn	49 46.80		
CSI	3.83	193 P	48 57.70	-0.9	
RMP	3.88	246 P	49 01.30	2.0	
RDP	3.90	245 P	49 01.00	1.4	
TDS	3.94	192 P	49 00.20	0.1	
CRE	3.99	273 P	49 02.10	1.3	
ROI	4.00	190 P	49 00.20	-0.7	
SFI	4.07	278 P	49 02.50	0.7	
PGD	4.16	277 P	49 04.00	0.7	
VVI	4.34	306 P	49 05.70	-0.1	
SRO	4.34	8 eP	49 04.70	-1.0	
		e	50 10.50		
CZI	4.41	193 P	49 05.30	-1.3	
GRG	4.49	123 ePc	49 11.93	4.1X	
FVI	4.51	315 P	49 05.20	-2.9X	
IGT	4.54	150 ePc	49 09.32	0.8	
		iS	49 29.93		
KBA	4.58	322 iPnc	49 12.40	3.0X	
		i	49 25.90		
		iSn	50 06.20		
		iSg	50 35.10		
ZST	4.69	357 e(P)	49 09.20	-1.5	
		i	49 33.50		
		e	09 30.00		
PSZ	4.73	20 iPnd	49 09.20	-2.1	
VKA	4.81	351 ePn	49 13.00	0.5	
		iPg	49 36.00		
		iSn	50 05.80		
CTI	4.83	304 P	49 12.20	-0.7	
MME	4.92	280 P	49 15.10	0.9	
BDI	4.98	279 P	49 14.10	-0.8	
LIT	5.09	130 ePc	49 17.32	0.9	
BHG	5.28	324 iPnc	49 21.40	2.3X	
SOI	5.54	191 P	49 22.00	-0.7	
WTTA	5.54	315 iPnc	49 22.80	-0.2	
		iPg	49 45.50		
		iSn	50 20.60		
		i	50 27.50		
		iSg	50 52.60		
AGG	5 81	139 ePc	49 26.48	-0.1	
PAIG	5.89	125 ePc	49 28.36	0.7	
KHC	6.22	336 Pn	49 31.80	-0.5	
		e	49 40.00		
		eSg	50 40.00		
PGF	6 26	264 Pn	49 31.60	-1.4	
CKI	6.67	281 P	49 37.00	-1.7	
PRU	6.77	344 ePn	49 50.50	10.4X	
		eSg	51 07.00		
SBF	26	276 Pn	49 44.20	-2.8X	
		Sn	51 00.80		

24d 22h

FRF	7.84	274	Pn	49	52 60	-2.5X
			Sn	51	16.00	
BNI	7.87	285	P	49	53.90	-1 8
LPG	7.89	288	Pn	49	53.00	-3.1X
			Sn	51	16.80	
LPL	7.91	288	Pn	49	53.40	-2.8X
LMR	7.96	272	Pn	49	53.40	-3.3X
LRG	8.06	273	Pn	49	55.80	-2.2X
CDF	8.60	308	Pn	50	03.00	-2.8X
BSF	8.61	304	Pn	50	03.00	-2 9X
			Sn	51	34.50	
HAU	8.95	304	Pn	50	08.00	-2.6X
LBF	10.10	295	Pn	50	22.40	-4.0X
SMF	10.11	293	Pn	50	22.60	-3.9X
LOR	10.26	296	Pn	50	25.00	-3.5X
AVF	10.47	293	Pn	50	28.40	-3.0X
BGF	10.76	291	Pn	50	31.40	-4.0X

S.D. = 1.2 on 46 of 68 obs.

SEP 24, 1991 22h 57m 23.50± 0.81s
18.629 N ± 8.5km 100.885 W ± 6.2km
DEPTH = 76.6 ± 4.9 km
4.8mb (24 obs.)
GUERRERO, MEXICO (59)

MRX	1.11	345	iPc	57	44.30	0.4
			iS	57	57.00	
III	1.37	100	iPc	57	46.70	-0.8
			iS	58	04.00	
UNM	1.75	66	iP	57	53.00	0.2
			(S)	58	16.00	
PPM	2.18	78	iPc	57	59.50	0.6
			(S)	58	30.00	
IIT	2.47	81	iP	58	02.50	-0.1
			(S)	58	30.00	
CGX	2.66	294	iP	58	04.00	-1.2
			(S)	58	51.00	
IISM	3.34	83	iP	58	15.50	1.0
AGX	3.50	338	(P)	58	17.00	0.4
LVVM	4.33	75	iP	58	28.50	0.1
			(S)	58	58.00	
MEO	16.22	7	iPc	01	08.30	0.3
ANMO	16.99	344	eP	01	19.50	1.7
	1.2s	17.58nm			4.2mb	
SIO	17.53	12	eP	01	23.70	-0.5
			e	01	38.80	
TUL	17.79	14	eP	01	26.30	-1.2
	0.8s	75.00nm			5.0mb	
			e	01	41.80	
ACO	18.07	5	e(P)	01	31.50	0.6
PLM	20.48	319	eP	02	01.00	3.3X
PV09	21.06	342	eP	02	03.50	-0.1
FVM	21.34	23	eP	02	04.00	-2.0
	0.8s	21.97nm			4.6mb	
GOL	21.35	350	eP	02	05.70	-0.8
	1.2s	14.75nm			4.2mb	
GSC	21.79	323	eP	02	12.00	1.3
SBB	21.97	320	eP	02	14.00	1.6
MSU	22.12	336	iP	02	14.50	0.4
SYP	23.22	317	eP	02	22.00	-2.7X
BW06	25.17	345	iP	02	42 80	-0.7
	1.0s	16.25nm			4.4mb	
RSSD	25.55	355	eP	02	45.00	-2.0
	1.5s	18.43nm			4.3mb	
ZOBO	47.35	135	P	05	51.00	-1.5
INK	53.73	346	eP	06	39.00	-0.5
MBC	58.43	355	eP	07	11.00	-2.1
GRR	82.72	41	eP	09	41 00	0 8
	0.8s	12.10nm			4.9mb	
LPF	82.73	42	eP	09	40.20	0.0
	0.9s	13.10nm			4.9mb	
FLN	82.83	41	eP	09	41.60	0 9
	1.0s	24.00nm			5.1mb	
Z	20s	0.08um			4.1Msz	
LDF	83.11	41	eP	09	42.40	0.2
	0.8s	5.35nm			4.5mb	
NB2	84.05	27	P	09	47.00	0.3
	1.1s	6.80nm			4.6mb	
LFF	84.96	44	eP	09	52.20	0.7
	0.8s	10.75nm			4.9mb	
LSF	85.00	43	eP	09	51.80	0.1
	0.8s	8.05nm			4.8mb	
RJF	85.34	44	eP	09	53.60	0.1
	0.8s	16.10nm			5.1mb	
LPO	85.35	44	eP	09	53.80	0.3
	0.8s	10.75nm			4.9mb	
EPF	85.38	46	eP	09	54.20	0.4
	0.8s	5.35nm			4.6mb	
TCF	85.42	43	eP	09	53.80	-0.1
	0.8s	12.10nm			5.0mb	
MAF	85.68	43	eP	09	55.30	0.2
	1.0s	18.00nm			5.1mb	
BGF	85.73	42	eP	09	55.50	0.1
	1.0s	12.00nm			4.9mb	
SSF	85.95	42	iPc	09	56.60	0.1
	0.6s	8.10nm			4.9mb	
AVF	85.96	42	iPc	09	56.40	-0.1
	0.6s	5.40nm			4.8mb	
LOR	86.09	41	iPc	09	57.50	0.3
	0.6s	17.15nm			5.3mb	
Z	20s	0.08um			4.1Msz	
LBF	86.28	42	iPc	09	58.20	0.1
	0.6s	8.10nm			5.0mb	
SMF	86.33	42	iPc	09	57.90	-0.4
	0.6s	5.40nm			4.8mb	
WRA	128.06	259	PKP	16	22.70	-0.4X
	0.6s	1.50nm				
QUE	130.07	14	ePKP	16	28.10	1.2
GBA	147.93	3	PKPc	17	01.80	2.7X
	0.9s	7.10nm				

S.D. = 0.9 on 44 of 48 obs.

SEP 25, 1991 00h 04m 53.73± 0.89s
43.433 N ± 5.1km 5.428 E ± 6.1km
DEPTH = 9.5 ± 4.7 km
NEAR SOUTH COAST OF FRANCE (379)
ML 2.5 (STR).

GELF	0.05	181	Pg	04	55.55	-0.3
TREF	0.19	350	Pg	04	57.50	-0.5
PUYF	0.22	63	Pg	04	57.50	-1.0
BERF	0.23	122	Pg	04	58.56	0.0
CDR	0.35	45	e(Pg)c	05	00.00	-0.8
			i	05	02.20	
			i	05	05.10	
PRAF	0.42	333	Pg	05	02.91	0.7
VILF	0.47	26	Pg	05	02.69	-0.6
TAVF	0.49	68	Pg	05	03.37	-0.4
CALN	1.11	73	Pg	05	15.13	0.4
MVIF	1.33	69	Pn	05	18.62	0.1
			Sg	05	38.12	
TOUF	1.44	66	Pn	05	20.81	0.7
			Sg	05	41.18	
AURF	1.45	71	Pn	05	20.23	0.1
			Sg	05	41.01	
AUTN	1.55	68	Pn	05	22.35	0.6
SAOF	1.64	70	Pn	05	22.96	0.2
DOI	1.69	50	P	05	25.10	1.5
			eSn	05	49.80	
BNI	1.85	29	P	05	24.50	-1.5
CKI	2.29	63	P	05	33.30	1.1
PGF	2.77	107	Pn	05	37.86	-1.2

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

• SEP 25, 1991 00h 33m 05.28± 1.33s
8.813 S ±18.3km 118.471 E ± 9.7km
DEPTH = 152.9 ± 18.9 km
4.7mb (5 obs.)
SUMBAWA REGION, INDONESIA (285)

MKS	3.71	16	iPc	34	58.00	55.6X
KUPT	5.24	105	eP	34	25.00	2.3
			eS	35	20.00	
TRT	5.88	280	iPc	34	31.00	-0.3
KNA	12.19	125	eP	35	52.50	-2.5X
			eS	38	10.00	
MBL	12.35	174	eP	35	55.50	-1.5
	0.3s	7.00nm			4.7mb	
			eS	38	05.00	
MTN	13.06	109	eP	36	04.00	-2.3
			iS	38	22.40	
NANU	13.96	191	eP	36	18.00	0.3
			eS	38	42.00	
WARB	18.94	157	eP	37	18.00	0.9
	0.4s	14.00nm			4.7mb	
			eS	40	41.00	
WR2	18.94	127	iPc	37	15.60	-1.6
	0.3s	12.30nm			4.7mb	
			eS	40	41 20	
MRWA	20.43	186	eP	37	32.50	0.2
			eS	41	11.00	
ASPA	20.89	137	iPc	37	37.20	0.2
	0.4s	12.90nm			4 7mb	
			iS	41	24.00	
BAL	21.75	184	eP	37	56.00	10.7X
			eS	41	44.50	
COOL	22 10	174	iPd	37	49.00	0.2
			eS	41	56.00	
KLB	22.68	182	eP	37	55.40	1.0
			eS	42	06.00	
OIS	23.51	122	eP	38	03.00	0.4
			e	42	28.00	
FORR	23.70	159	eP	38	04.00	-0.2
STK	31.43	140	iPd	39	14.50	0.4
	0.4s	1.80nm			4.2mb	

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

? SEP 25, 1991 00h 37m 00.66±11.20s
0.996 S ±39.2km 80.704 W ±84.8km
DEPTH = 10.0km (geophysicist)
NEAR COAST OF ECUADOR (105)
MD 4.1 (QUI).

QUIL	1.79	82	eP	37	30.50	-1.8
GGP	2.26	69	P	37	38.40	-0.8
TUNG	2.30	101	iP	37	39.70	0.2
OUR	2.32	69	Pn	37	38.70	-1.3
			Pg	37	40.30	
			eS	38	05.50	
VC1	2.32	81	P+	37	40.80	0.7
COTA	2.71	61	Pd	37	46.30	0.7
CAYA	2.92	69	eP	37	49.70	1.2
ANGL	3.22	79	eP	37	40.00	-12.6X
CUMC	3.43	56	ePc	37	56.30	0.5
ANCC	5.90	41	eP	38	31.70	1.4
			eS	39	35.00	
HOOC	6.02	43	eP	38	34.80	2.6X
CLMC	6.37	40	eP	38	35.10	-2.0

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

SEP 25, 1991 01h 05m 17.01± 0.61s
41.076 N ± 7.4km 22.081 E ± 4.6km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)

GRG	0.27	116	iPc	05	22.50	-0.2
			iS	05	25.58	
FNA	0.61	242	ePc	05	28.93	-0.4
			eS	05	36.60	
KNT	0.62	82	iPc	05	28.89	-0.7
			eS	05	37.62	
THE	0.80	123	ePc	05	31.56	-1.0
			eS	05	44.37	
OHR	0.97	273	iPg	05	35.00	-0.5
			iSg	05	46.50	
SOH	1.00	104	ePd	05	36.44	0.5
			iS	05	48.73	
SKO	1.02	332	ePn	05	36.90	0.7
			eSg	05	49.50	
LIT	1.02	162	iPc	05	37.65	1.3
			eS	05	52.21	
SRS	1.14	87	ePc	05	38.80	0.4
			eS	05	53.82	

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

? SEP 25, 1991 02h 16m 53.16± 4.52s
2.588 S ±45.7km 129.623 E ±28.3km
DEPTH = 33.0km (normol)
4.2mb (2 obs.)
SERAM, INDONESIA (272)

MTN	10.30	172	eP	19	23.30	1.5
			iS	20	46.30	
KNA	13.11	184	eP	19	58.50	-1.2
			eS	21	48.00	
WR2	17.87	165	eP	21	00.60	-0.4
	0.3s	4.00nm			4.0mb	
			iS	23	44.00	
OIS	20.34	152	eP	21	30.00	0.4
			eS	24	45.00	
MBL	20.78	207	iPd	21	34.40	0.4
ASPA	21.36	169	iPd	21	38.70	-1.3
	0.5s	8.80nm			4.4mb	
			eS	24	57.80	
WARB	23.63	187	eP	22	03.00	0.6

S.D = 1.2 on 7 of 7 obs.

% SEP 25, 1991 02h 34m 42.95± 0.55s
38.896 N ± 4 3km 15.962 E ± 9.8km
DEPTH = 5 0km (geophysicist)
SICILY (398)

CZI	0.35	23	P	34	50.20	0.2
ACI	0.49	22	P	34	53.50	0.7
TDS	0.82	21	P	34	59.00	-0.2
			eSg	35	09.30	
ROI	0.82	35	P	34	58.80	-0.6
SOI	0.83	175	P	34	59.30	-0.1
			eSg	35	10.90	
ATN	0.83	208	P	34	59.70	0.2
			eSg	35	11.60	
CSI	0.92	16	P	35	01.10	0.2
MMN	0.99	1	P	35	02.00	-0.2
			eSg	35	15.50	
MGR	1.28	346	P	35	06.60	-0.5
			eSn	35	25.20	
SGO	1.73	343	P	35	14.20	0.3

S.D. = 0.5 on 10 of 10 obs

SEP 25, 1991 02h 41m 10.77± 0.24s
44.511 N ± 1.6km 7.111 E ± 2.6km
DEPTH = 7.1 ± 3.5 km
NORTHERN ITALY (545)
ML 2.4 (GEN). 2.3 (LDG).

PZZ	0.01	227	P	41	12.47	0.2
			S	41	14.52	
DOI	0.10	95	P	41	13.60	0.4
			eSg	41	15.40	
STV	0.31	150	P	41	17.29	0.2
			S	41	20.98	
BHB	0.35	18	P	41	18.02	0.2
			S	41	22.94	
ENR	0.36	142	P	41	17.82	-0.3
			S	41	22.64	
RRL	0.47	330	P	41	20.67	0.4
			S	41	27.44	
TOUF	0.51	169	Pg	41	20.99	0.0
AUTN	0.56	156	Pg	41	22.14	0.0
			Sg	41	29.53	
ROB	0.59	111	P	41	22.93	0.4
			S	41	30.51	
SAOF	0.61	149	Pg	41	22.83	-0.3
			Sg	41	31.04	
MVIF	0.62	177	Pg	41	22.72	-0.4
BNI	0.62	330	P	41	23.20	-0.1
			eSg	41	31.20	
AURF	0.64	166	Pg	41	23.41	-0.3
			Sg	41	32.25	
RSP	0.65	9	P	41	23.44	-0.4
			S	41	32.77	
SBF	0.69	160	Pg	41	24.80	0.2
			Sg	41	33.60	
CALN	0.78	192	Pg	41	26.25	0.0
IMI	0.82	137	P	41	27.03	0.0
			S	41	37.79	
FIN	0.84	111	P	41	27.13	-0.2
			S	41	37.59	
LSD	0.95	2	P	41	29.08	-0.2
			S	41	41.08	
FRF	1.01	200	Pg	41	30.20	0.1
			Sg	41	43.20	
LPG	1.02	346	Pg	41	30.60	0.1
			Sg	41	44.00	
LPL	1.04	345	Pg	41	31.00	0.2
			Sg	41	45.00	
LRG	1.19	207	Pn	41	33.30	0.1
			Pg	41	34.20	
			Sg	41	50.30	
LMR	1.25	200	Pn	41	34.60	0.3
			Pg	41	35.20	
			Sg	41	51.00	

S.D = 0.3 on 24 of 24 obs

• SEP 25, 1991 02h 42m 25.14± 1.49s
39.372 N ±14.8km 20.528 E ± 7.7km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)

IGT	0.22	317	iPc	42	29.06	-0.9
			iS	42	33.58	
KEF	0.66	301	eP	42	39.00	0.7
			eS	42	52.30	
VLS	1.19	178	eP	42	54.00	6.6X
			eS	43	11.00	
KZN	1.34	45	eP	42	51.00	1.2
AGG	1.44	103	ePd	42	51.54	0.2
FNA	1.55	24	ePc	42	52.26	-0.6
LIT	1.68	64	ePc	42	53.62	-1.1
			eS	43	18.94	
OHR	1.75	7	ePn	42	56.20	0.4
SKO	2.69	15	ePn	43	11.50	2.3X

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

& SEP 25, 1991 03h 50m 56.70s
34.100 N 117.490 W
DEPTH = 16.0km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 3.1 (PAS). Felt at Fontana.

SSK	0.20	303	iPc	51	01.40	-0.4
PEC	0.34	127	iPc	51	03.60	-0.4
MWC	0.49	285	iPc	51	05.90	-0.7
			eS	51	12.80	
PAS	0.57	275	iPc	51	07.10	-0.7
SBB	0.65	335	iPd	51	08.60	-0.6
			iS	51	17.00	
PLM	0.91	145	eP	51	13.30	-0.5
CPE	1.26	165	eP	51	18.50	-1.0
GSC	1.33	25	eP	51	20.50	-0.1
ABL	1.61	298	eP	51	24.50	-0.3
BCH	2.40	298	eP	51	36.00	0.0
GLA	2.46	114	eP	51	41.50	4.7

11 obs. associated

? SEP 25, 1991 04h 15m 38.46± 5.26s
3.945 N ±25.9km 76.327 W ±27.6km
DEPTH = 97.5 ± 47.9 km
COLOMBIA (103)
MD 3.2 (UVC).

BUGC	0.09	126	eP	15	53.63	-0.1
			eS	16	07.10	
CLMC	0.24	255	iPd	15	53.94	-0.2
			eS	16	07.60	
HOBC	0.45	25	iPd	15	54.09	0.1
			eS	16	07.90	
HOOC	0.56	213	iPd	15	55.37	0.4
			eS	16	10.10	
ANCC	0.69	232	iPd	15	55.76	-0.1
			eS	16	10.80	
PURC	1.61	181	eP	16	06.83	-0.1
			eS	16	30.10	

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

& SEP 25, 1991 05h 30m 42.17s
60.043 N 152.941 W
DEPTH = 116.9km
4.0mb (2 obs.)
SOUTHERN ALASKA (2)
<AEIC>.

INE	0.06	286	iPc	30	57.64	0.6
			eS	31	10.37	
INW	0.10	285	iPc	30	57.57	0.6
RED	0.39	13	iPc	30	58.66	-0.8
			eS	31	11.75	
OPT	0.42	201	iPc	30	58.83	-0.8
			eS	31	11.02	
RDW	0.45	8	iPc	30	59.11	-0.8
REF	0.46	15	iPc	30	59.32	-0.7
RDN	0.48	11	iPc	30	59.36	-0.7
NCT	0.52	1	iPc	30	59 58	-0.7
			eS	31	13.07	
DFR	0.57	13	iPc	30	59.68	-0.9
RDT	0.60	26	iPc	30	59.91	-0.9
			eS	31	13.87	
AUL	0.71	201	iPd	31	00.77	-0.8
AUE	0.72	198	iPd	31	00.68	-0.9
AUP	0.72	200	iPd	31	01.00	-0.8
AUH	0.73	201	iPd	31	00.99	-0.8
AUW	0.73	202	iPd	31	00.94	-0.7
AGU	0.73	200	iPd	31	00.94	-0.9
AUI	0.75	199	iPd	31	00.94	-1.0
			eS	31	15.51	
HOM	0.76	120	ePd	31	01.45	-0.5
			S	31	15.95	
NNL	0.83	89	iPc	31	02 60	0.0
CNPM	1.01	120	iPd	31	03.46	-0.9
			iS	31	20.03	
MCNL	1.12	220	iPd	31	04 29	-1.1
			eS	31	21.44	
CDD	1.17	198	iPd	31	04.67	-1.4
CKL	1.20	14	iPc	31	05 84	-0.6
SPU	1.22	21	iPc	31	05.90	-0.8
			eS	31	24.20	
BGL	1.25	12	iPc	31	06.68	-0.4
NCG	1.42	15	ePc	31	08.40	-0.5
			eS	31	28.90	
SLKM	1.43	70	iPc	31	07.58	-1.5
SYI	1.47	169	ePd	31	07.91	-1.4
			eS	31	28.09	
SVW	1.70	310	iPd	31	11.40	-0.9
SEW	1.75	86	ePc	31	11.10	-1.7
			eS	31	33.97	
SUA	1.79	36	iPd	31	12.83	-0.6
			eS	31	36.69	
PMS	2.06	53	ePc	31	15.70	-1.0
SKT	2.06	19	iPd	31	15.70	-1.1
			eS	31	41.40	
PWA	2.20	42	ePd	31	17.30	-1.2
KDC	2.31	174	iPd	31	17.70	-2.2
PLRM	2.43	49	eP	31	19.61	-1.8
PMR	2.43	49	ePc	31	20.60	-0.8
LTI	2.55	88	iPc	31	21.29	-1.8
			eS	31	51.86	
KNK	2.60	56	eP	31	21.41	-2.3
			eS	31	51.32	
KNIM	2.62	81	ePc	31	21.23	-2.7
			eS	31	52.19	
GHO	2.62	47	ePd	31	21.90	-2.2
			eS	31	53.45	
CUT	2.70	27	eP	31	23.81	-1.2
SML	2.86	50	eP	31	24.96	-2.3
GLI	3.02	71	eP	31	26.85	-2.4
			eS	32	00.54	
TTA	3.25	334	iPd	31	31.30	-1.2
FID	3.28	75	ePc	31	29.24	-3.6
VZW	3.32	69	eP	31	30.72	-2.6
HUR	3.34	27	eP	31	32.48	-1.2
MID	3.40	98	eP	31	33.20	-1.2
VLZ	3.44	69	eP	31	32.02	-2.9
CVA	3.62	79	eP	31	35.29	-2.0
TRF	3.65	19	ePd	31	35.86	-2.0
KTH	3.65	14	eP	31	35.59	-2.3
KLU	3.74	64	ePc	31	36.34	-2.7
SGAM	3.88	80	ePc	31	38.52	-2.4
TOA	3.88	55	ePc	31	39.90	-1.1
RND	3.90	28	eP	31	39.13	-2.1
RAGM	4.14	82	iPc	31	42.30	-2.2
MCK	4.16	25	eP	31	43.27	-1.5
KAIM	4.28	88	ePc	31	44.82	-1.6
HMT	4.34	82	ePc	31	44.97	-2.3
SDG	4.35	52	eP	31	45.32	-2.0
BWN	4.45	20	eP	31	46.84	-1.9
PAX	4.63	47	ePd	31	49.01	-2.2
GLB	4.70	69	ePc	31	49.18	-2.9
NEA	4.89	20	ePd	31	52.39	-2.3
CROM	4.91	77	eP	31	53.41	-1.8
WRH	4.99	25	ePd	31	53.59	-2.4
TGL	5.07	78	ePc	31	55.22	-1.9
HDA	5.20	30	ePd	31	56.33	-2.5
CCB	5.20	25	ePd	31	56.12	-2.8
MDM	5.39	22	ePc	31	58.42	-3.1
FBA	5.43	24	ePd	31	59.90	-2.1
WRG	5.47	85	eP	32	00.84	-1.7
GLM	5.59	25	ePd	32	01.51	-2.7
YAH	5.59	82	eP	32	02.69	-1.8
CTGM	5.81	76	iPc	32	06.01	-1.4
IMA	6.06	357	ePc	32	09.40	-1.4
PCA	6.35	84	eP	32	12.98	-1.8
BCPM	6.68	85	eP	32	18.01	-1.1
PNL	6.83	87	ePc	32	18.79	-2.5
HON	7.13	89	eP	32	22.53	-2.8
FYU	7.40	25	eP	32	26.35	-2.6
SIT	9.68	100	eP	32	56.70	-2.9
INK	11.79	37	eP	33	25.00	-2.5
YKA	18.41	66	eP	34	47.60	-2.9
	0.3s		2.70nm			4.0mb
MBC	19.97	23	eP	35	05.00	-1.8
	0.5s		4.00nm			4.0mb

87 obs. associated

? SEP 25, 1991 06h 11m 03.49± 2.42s
34.331 S ±24.1km 70.826 W ±13.6km
DEPTH = 75.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)

CHCH	0.42	20	iPd	11	16.10	-0.2
			iS	11	29.40	
LNV	0.61	308	iPc	11	18.00	0.0
			iS	11	31.50	

25d 06h

TACH	0.68	352	iPc	11 19.10	0.3
			iS	11 34.00	
PCH	0.75	20	iPc	11 20.00	0.3
			iS	11 35.00	
SAN	0.89	9	eP	11 21.00	-0.2
			iS	11 37.50	
LCCH	1.05	324	iPd	11 23.10	-0.1
			iS	11 40.50	
PEL	1.19	6	iPc	11 25.00	0.0
			iS	11 44.50	
ROCH	1.36	353	eP	11 27.50	0.0
			iS	11 48.00	
JACH	1.66	7	iP	11 31.00	-0.2
			iS	11 54.10	

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

% SEP 25, 1991 06h 12m 40.65± 1.01s
38.022 N ± 8.3km 15.988 E ± 8.2km
DEPTH = 10.0km (geophysicist)
SICILY (398)

SOI	0.07	47	Pd	12 43.10	0.1
ATN	0.44	289	P	12 49.50	-0.1
			eSg	12 55.90	
MNO	1.03	265	P	13 00.90	0.7
			eSn	13 16.00	
CZI	1.20	5	P	13 02.30	-0.7
MEU	1.25	223	P	13 03.10	-0.8
			eSg	13 19.90	
ACI	1.34	7	P	13 04.60	-0.7
GIB	1.55	269	P	13 08.70	0.3
ROI	1.61	16	P	13 11.10	1.8
CSI	1.77	8	P	13 14.00	2.5X
MMN	1.87	0	P	13 12.50	-0.3
MGR	2.14	351	P	13 16.30	-0.6
SGO	2.59	348	P	13 23.30	0.1
			eSn	13 55.50	

S.D. = 0.9 on 11 of 12 obs.

% SEP 25, 1991 08h 03m 48.51± 1.90s
41.380 N ±12.9km 29.329 E ±12.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ISK	0.37	213	ePg	03 56.00	-0.2
HRT	0.61	155	ePg	04 00.70	-0.2
			eSg	04 09.70	
CTT	0.72	251	iPg	04 02.70	0.1
YLV	0.81	178	ePg	04 04.70	0.4
DMK	1.26	291	iPn	04 11.90	0.0

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

% SEP 25, 1991 08h 04m 40.78± 1.95s
41.352 N ±13.0km 29.376 E ±12.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ISK	0.37	220	ePg	04 48.70	0.3
HRT	0.57	157	ePg	04 52.70	0.2
CTT	0.74	254	iPg	04 55.20	-0.1
YLV	0.78	180	ePn	04 55.70	-0.4
DMK	1.30	292	iPn	05 04.90	0.0

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

? SEP 25, 1991 08h 14m 25.38± 5.72s
33.928 S ±28.1km 70.695 W ±20.3km
DEPTH = 79.5 ± 43.2 km
CHILE-ARGENTINA BORDER REGION (127)

CHCH	0.04	99	iPc	14 37.10	0.1
			iS	14 45.50	
TACH	0.34	323	iPc	14 38.10	0.1
			iS	14 48.00	
PCH	0.34	26	iPd	14 38.10	0.0
			iS	14 48.00	
SAN	0.47	3	eP	14 39.00	-0.1
			iS	14 49.60	
LNV	0.60	267	iPc	14 40.00	-0.1
			iS	14 51.00	
PEL	0.78	1	iPd	14 42.10	-0.1
			iS	14 55.00	
LCCH	0.86	302	iPc	14 43.00	0.1
JACH	1.25	4	iPd	14 47.90	0.0
			iS	15 04.50	

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

% SEP 25, 1991 08h 29m 57.35± 0.96s
15.917 N ± 5.2km 60.778 W ± 9 1km
DEPTH = 22.4 ± 7.4 km
LEEWARD ISLANDS (92)
ML 2.7 (FDF).

DEG	0.48	326	eP	30 07.05	0 0
MGG	0.52	270	eP	30 08.25	0.5
SFG	0.52	310	eP	30 08.00	0.2
			S	30 13.40	
BBL	0.78	240	eP	30 11.69	-0.5
			S	30 21.10	
DOG	0.82	278	eP	30 12.66	-0.1
SEG	0.85	305	eP	30 13.07	-0.2
			S	30 23.00	
PAG	0.87	277	eP	30 14.00	0.2
			S	30 24.50	
CRM	1.16	187	iPd	30 18.23	-0.1
			S	30 32.70	
FDF	1.23	197	eP	30 18.99	-0.3
	0.1s		1.37nm		
			S	30 33.60	
MVM	1.36	185	iPc	30 21.34	0.3
BIM	1.42	192	eP	30 22.21	0.3
			S	30 40.10	
BPA	1.53	317	eP	30 23.34	-0.2

S.D. = 0.3 on 12 of 12 obs.

& SEP 25, 1991 09h 07m 28.90s
36.877 N 121.623 W
DEPTH = 7.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 3.2 (BRK). Felt (III) at Aptos and Aromas.

SAO	0.18	128	iPd	07 32.62	-0.1
GCC	0.34	297	iPc	07 35.63	-0.1
			i	07 38.58	
MHC	0.46	358	iPd	07 38.90	0.6
			iS	07 44.15	
ARN	0.48	9	iPc	07 38.74	0.2
PRS	0.58	159	iPd	07 40.12	-0.4
			i	07 47.57	
LLA	0.60	115	iPc	07 40.97	-0.1
			i	07 47.85	
PCC	0.87	316	iPc	07 45.00	-0.9
PRI	1.07	133	iPd	07 49.02	-0.3
			eS	08 06.79	
BKS	1.11	334	eP	07 48.80	-1.2
			eS	08 05.30	
ZSP	1.18	335	iPc	07 49.87	-1.3
			i	08 09.04	
PHAM	1.43	136	eP	07 53.66	-1.7
PKEM	1.47	123	ePn	07 54.76	-1.0
CMB	1.52	40	eP	07 56.80	0.2
FRI	1.54	85	iPc	07 55.20	-1.6
			i	08 15.95	
NWRM	1.87	328	eP	08 00.20	-1.3
BCH	2.10	143	eP	08 02.62	-2.4
ORV	2.68	2	ePn	08 11.68	-1.5
ABL	2.81	135	eP	08 13.03	-2.3
BONR	2.85	67	ePn	08 15.82	-0.2

19 obs. associated

? SEP 25, 1991 09h 11m 25.68± 5.14s
18.027 N ±15.6km 65.629 W ±33.7km
DEPTH = 10.0km (geophysicist)
PUERTO RICO REGION (90)

LPR	0.36	321	P	11 33.00	-0.1
SJG	0.50	280	iP	11 36.00	0.1
			S	11 46.30	
CLLP	0.90	273	P	11 42.80	-0.2
APR	1.13	292	P	11 46.90	0.1
MEP	1.29	275	P	11 49.50	-0 1
			S	12 14.50	
MGP	1.39	269	P	11 50.90	-0.2
MCP	1.46	286	P	11 52.50	0.4

S.D. = 0.3 on 7 of 7 obs.

? SEP 25, 1991 10h 07m 55.31± 0 91s
36.305 S ±19.8km 98.757 W ±15.1km
DEPTH = 10.0km (geophysicist)
4.9mb (8 obs.)
SOUTHERN PACIFIC OCEAN (692)
Mo=1.3*10**18 Nm (PPT).

ARE	31.24	58	eP	14 19.00	1.3
CNCB	33.47	63	P	14 34.00	-3.5X
			i	14 38.00	
LPB	33.57	62	P	14 37.00	-1.2
			LR	22 16.00	
ZOBO	33.73	62	P	14 38.30	-1 4
	1 1s		26.68nm		5.1mb
			S	19 36.00	
			LR	22 28.00	
SIV	39.08	69	P	15 23.00	-1 4
PPD	43.39	84	eP	16 00.60	0.9
			e	16 06.50	
VAO	46.41	88	eP	16 25.30	1.2
SOB1	58.80	78	eP	17 56.00	-0.4
NVL	62.48	160	P	18 22.00	1.3
			eS	26 48.00	
			ePS	27 16.00	
			eSSS	33 55.00	
			e	35 22.00	
MEO	70.72	0	iPc	19 18.00	4.7X
ALQ	71.24	353	eP	19 19.00	2.3
	1.8s		21.59nm		5.0mb
ANMO	71.25	353	P	19 20.70	4.0X
	1.0s		7.00nm		4.7mb
SIO	71.72	2	eP	19 24.70	5.4X
TUL	71.90	3	eP	19 25.90	5.6X
	1.2s		10.70nm		4.8mb
SBB	72.83	344	eP	19 24.00	-2.0
GSC	73.20	345	eP	19 28.00	-0.1
CLC	73.86	344	eP	19 36.00	4.0X
FVM	74.32	7	P	19 39.80	5.4X
	1.0s		20.00nm		5.1mb
MSU	75.47	349	P	19 42.00	0.6
CMB	76.63	343	P	19 48.00	0.3
BW06	79.32	352	P	20 02.00	-0.7
	1.0s		12.50nm		4.9mb
RSSD	80.19	356	P	20 08.80	1.5
	1.0s		10.85nm		4.8mb
LRM	82.68	350	eP	20 25.30	5.0X
NEW	85.77	348	P	20 35.80	0.2
	1.0s		20.00nm		5.3mb
SES	87.01	352	eP	20 47.00	5.4X
YAK	140.57	326	ePKP	27 27.30	1.5X
OBN	144.36	44	ePKPd	27 33.00	0.4
	1.0s		******nm		
Z	24s		1.10um		5.5MszX
			i	27 38.00	
			i	27 54.00	
			e	28 37.00	
			e	29 18.00	
			LR	20 28.00	
SNG	146.03	216	ePKP	27 33.80	-2.9
BJI	152.39	288	ePKP	27 54.00	8.3X

S.D. = 1.5 on 18 of 29 obs.

---

* SEP 25, 1991 10h 41m 16.15± 0.91s
34.417 N ±12.7km 23.794 E ± 8.3km
DEPTH = 10.0km (geophysicist)
CRETE (370)

YER	4.55	52	iPn	42 26.70	0.1
ELL	5.50	63	iPn	42 40.50	0.3
OHR	7.09	341	eP	42 55.70	-6.8X
ROI	7.74	314	P	43 11.30	-0.2
CZI	7.79	310	P	43 12.40	0.2
KOT	8.15	121	ePn	43 18.00	0.8
JVI	10.00	101	eP	43 42.20	-0.7
PRNI	10.30	110	eP	43 46.70	-0.4

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

& SEP 25, 1991 10h 43m 23.28s
60.022 N 153.563 W
DEPTH = 138.0km
SOUTHERN ALASKA (2)
<AEIC>. Felt (II) at Anchorage.

INW	0.22	78	ePc	43 41.53	0.6
INE	0.25	81	iPc	43 41.70	0.6
OPT	0.41	155	iPc	43 42.33	-0.8
			eS	43 56.68	
RED	0.56	44	iPc	43 42.98	-1.0
			eS	43 58.57	
RS1	0.60	42	iPc	43 43.47	-0.8
RDW	0.60	39	iPc	43 43.45	-0.9
RS2	0.60	42	iPc	43 43.47	-0.9
RSO	0.60	42	iPc	43 43.44	-0.9
			eS	43 59.43	
NCT	0.63	30	ePc	43 43.67	-0.7

RDN 0.63 39 iPc 43 43.72 -0.8
eS 43 59.66
REF 0.64 42 iPc 43 43.65 -0.9
AUL 0.65 174 iPc 43 43 61 -0.8
AUW 0.66 176 iPc 43 43 62 -0.8
AUH 0.66 175 eP 43 43.75 -0.8
AUP 0.67 174 eP 43 43 74 -0 9
AGU 0 67 174 ePc 43 43.76 -0.9
AUE 0.67 172 iPc 43 43.59 -0.9
AUI 0.69 174 ePc 43 43.67 -1 0
eS 43 59.81
DFR 0.72 37 ePc 43 44.10 -0.9
RDT 0.80 46 iPc 43 44.61 -1.0
eS 44 01.81
MCNL 0.93 205 iPc 43 45.30 -1.3
eS 44 02.33
HOM 1.04 110 ePc 43 46.55 -1.0
eS 44 05 07
CDD 1.10 182 iPc 43 46.84 -1.3
eS 44 05 12
NNL 1.14 88 iPc 43 48.31 -0.2
CNPM 1.28 112 iPc 43 48.54 -1.4
eS 44 07.79
CKL 1.32 27 iPd 43 50.05 -0.5
BGL 1.37 24 iPd 43 50.76 -0.3
SPU 1.38 32 iPd 43 50.35 -0.7
eS 44 11.73
SVW 1.49 318 iPd 43 51.70 -0.5
CGLM 1.50 30 ePd 43 51.74 -0.7
SYI 1.54 157 iPd 43 51.00 -1.7
NCG 1.55 26 ePd 43 52.63 -0.3
SLKM 1.74 72 eP 43 53.40 -1.6
eS 44 16.18
SUA 2.00 43 iPd 43 57.25 -1.0
eS 44 24.12
SEW 2.06 86 eP 43 56.85 -2.0
eS 44 23.30
SKT 2.20 26 iPd 43 59.65 -0 9
PMS 2.32 56 ePc 44 00.40 -1.7
KDC 2.35 166 iPd 43 59.70 -2.7
PWA 2.43 46 eP 44 01.40 -2.1
PLRM 2.68 52 ePc 44 03.91 -2.7
PMR 2.68 52 ePc 44 04.40 -2.2
LTI 2.87 87 eP 44 06.82 -2.2
GHO 2.87 50 ePd 44 06.44 -2.7
KNK 2.87 59 ePc 44 06.43 -2.7
CUT 2.87 32 ePd 44 07.76 -1.3
KNIM 2.93 81 ePc 44 06.82 -3.0
SML 3.12 53 eP 44 09.52 -2.9
TTA 3.15 339 iPd 44 11.60 -1.1
GLI 3.32 72 eP 44 11.63 -3.3
HUR 3.51 31 eP 44 15.66 -1.8
FID 3.59 75 eP 44 14.63 -3.9
VZW 3.62 70 eP 44 16.70 -2.2
VLZ 3.74 70 eP 44 17.44 -3.0
KTH 3.76 18 eP 44 19.52 -1.3
TRF 3.78 23 eP 44 19.60 -1.6
CVA 3.93 79 eP 44 20.39 -2.5
KLU 4.03 65 eP 44 21.36 -3.1
RND 4.07 31 eP 44 22.96 -2.0
TOA 4.15 57 ePc 44 24.40 -1.7
SGAM 4.19 80 eP 44 23.87 -2.6
MCK 4.32 28 eP 44 26.89 -1.4
RAGM 4.45 81 eP 44 27.50 -2.5
KAIM 4.60 87 eP 44 30.23 -1.7
SDG 4.61 54 eP 44 29.99 -2.2
HMT 4.66 82 eP 44 30.63 -2.2
PAX 4.88 49 eP 44 33.29 -2.5
GLB 4.99 69 eP 44 34.55 -2.8
NEA 5.03 23 eP 44 34.39 -3.3
WRH 5.14 27 eP 44 36.72 -2 6
CCB 5.36 28 eP 44 39.56 -2.6
HDA 5.38 32 eP 44 39.83 -2.6
TGL 5.37 77 eP 44 40.36 -2.2
DJE 5.47 39 eP 44 41.53 -2 2
MDM 5.54 24 eP 44 42.11 -2 5
FBA 5.58 26 ePd 44 42.90 -2.2
GLM 5.74 27 eP 44 44.83 -2.6
YAH 5.91 82 ePc 44 48.02 -1.8
IMA 6.07 360 ePd 44 50.70 -1.3
CTGM 6.12 76 eP 44 50.95 -1.7
PCA 6.66 84 eP 44 57.89 -2.1
BCPM 6.99 85 eP 45 03.44 -0.9
PNL 7.15 87 eP 45 05.13 -1.4
HON 7.45 88 eP 45 08.45 -2.0
FYU 7 56 26 eP 45 09.23 -2.7
INK 11.99 38 eP 46 09.00 -1.6

85 obs. associated

SEP 25, 1991 11h 16m 30.22± 0.20s
20.747 S ± 5.6km 174.834 W ± 6.6km
DEPTH = 33.0km (normal)
5.2mb (18 obs.)
TONGA ISLANDS (173)

AFI 7.40 24 eP 18 12.00 -6.8X
eS 19 29.00
RAR 14.08 95 P 19 44.00 -5.5X
S 22 12.00
DZM 17.48 262 iPd 20 39.60 6.3X
URZ 18.79 200 eP 20 49.50 0.3
PGZ 21.21 199 eP 21 15.00 -0.3
LTZ 24.50 203 eP 21 46.50 -1.2
WVZ 25.34 205 eP 21 57.10 1.5
EWZ 25.66 205 eP 21 58.60 0.0
MSZ 27.81 207 eP 22 22.00 3.7X
RMO 33.77 253 eP 23 22.00 10.8X
CTAO 36.41 264 iP 23 33.50 -0.4
STK 40.36 245 eP 24 11.60 4.9X
0.8s 2.90nm 4.1mb X
i 24 19.50
JAY 46.94 287 iP 25 00.00 -0.1
ASPA 47.35 257 iPc 25 03.10 -0.1
0.9s 13.20nm 4.9mb
iPcP 26 34.00
iS 31 47.60
eScS 34 55.60
WR2 47.48 262 iPd 25 02.30 -1.9
0.9s 7.50nm 4.7mb
SPA 69.38 180 iPc 27 36.90 0.2
1.0s 10.00nm 4.8mb
MAT 72.20 322 eP 27 53.00 -0.9
0.8s 7.46nm 4.7mb
ADK 72.33 359 ePc 27 53.30 -1.0
1.0s 44.30nm 5.4mb
SYP 75.75 44 eP 28 15.00 0.3
MWC 76.83 45 eP 28 20.00 -0.9
PLM 77.13 47 eP 28 22.00 -0.6
PEC 77.24 46 P 28 22.20 -0.8
SBB 77.26 45 eP 28 23.00 -0.1
CMB 77.66 41 P 28 24.80 -0.4
0.7s 11.26nm 5.0mb
CLC 78.08 44 eP 28 28.00 0.4
GSC 78.30 45 eP 28 29.00 0.1
GLA 78.36 48 eP 28 30.00 0.8
KDC 80.39 12 ePc 28 39.80 0.3
MDJ 82.45 324 Pd 28 51.50 0.9
1.4s 40.00nm 5.3mb
MSU 83.17 45 P 28 55.90 1.1
PMS 84.20 12 ePc 28 59.10 -0.1
CN2 84.33 321 eP 29 00.60 0.4
PWA 84.51 12 ePc 29 00.20 -0.5
PMR 84.60 12 ePc 29 01.30 0.2
0.7s 13.90nm 5.3mb
TTA 84.71 9 ePc 29 02.60 0.8
1.3s 35.20nm 5.4mb
PNT 85.23 33 eP 29 05.00 0.4
0.9s 23.00nm 5.4mb
ALQ 85.26 50 eP 29 05.90 0.6
1.1s 14.87nm 5.1mb
ANMO 85.27 50 P 29 06.00 0.7
1.2s 21.48nm 5.2mb
BALM 85.60 15 P 29 06.10 -0.3
TOA 85.67 13 ePc 29 07.60 1.0
NEW 85.87 34 P 29 07.00 -0.8
0.8s 10.42nm 5.1mb
BW06 87.14 42 P 29 13.50 -0.9
FBA 87.88 11 ePc 29 17.10 -0.1
1.1s 25.30nm 5.4mb
IMA 88.02 8 ePc 29 18.40 0.4
1.4s 18.20nm 5.2mb
BJI 88.17 314 eP 29 20 00 0.9
SES 90.35 35 ePc 29 29.30 0.1
pP 29 42.00 42kmX
XAN 90.65 306 eP 29 32.00 1.0
RSSD 91.29 43 P 29 32.90 -1.0
1.2s 14 58nm 5.2mb
HHC 91.66 313 eP 29 35.00 -0.6
SIO 93.06 53 eP 29 41.70 -0.3
CHG 93.12 289 eP 29 44.00 1.4
TUL 93.51 53 eP 29 44.00 0.0
0.8s 16 40nm 5.5mb
INK 93.76 14 eP 29 44 00 -0.4
YKA 95.52 24 eP 29 52.20 -0.4

0.7s 4.50nm 5.0mb
SOB1 125.82 119 (PKP) 35 30.00 -1.2
NB2 139.52 355 PKP 35 57.00 1.3
0.7s 1.70nm
APO 139.76 353 ePKP 35 42.30 -13.8X
0.4s 1.20nm
EKA 144.90 8 PKP 36 04.00 -1.2
1.2s 27.90nm
WIT 147.97 358 ePKP 36 15.00 4.7X
KRA 148.49 342 ePKP 36 15.00 3.8X
e 36 18.60
WTS 148.79 358 ePKP 36 16.00 4.4X
1.0s 27.00nm
CLL 148.88 350 iPKPc 36 15.90 4.1X
0.9s 26.00nm
SPC 149.17 341 ePKP 36 17.20 4.6X
PRU 149.89 348 PKP 36 18.90 5.5X
MLR 149.98 330 ePKPc 36 19.00 5.1X
ENN 150.04 359 ePKP 36 19.00 5.4X
0.8s 13.00nm
MEM 150.19 359 PKPd 36 19.00 5.2X
PSZ 150.40 340 ePKP 36 20.00 5.7X
ADI 150.62 301 iPKPc 36 21.10 6.0X
DOU 150.71 1 PKPd 36 20.80 6.2X
0.7s 24.40nm
COZ 150.84 332 iPKPc 36 22.00 6.8X
JVI 150.84 299 iPKPc 36 22.10 6.6X
KHC 150.89 349 ePKP 36 21.00 6.0X
e 36 28.50
ZST 150.97 343 e(PKP)36 21.70 6.6X
FLN 151.68 8 iPKPc 36 22.30 6.2X
0.8s 21.50nm
MBH 151.73 295 ePKP 36 24.00 7.1X
LDF 151.89 7 iPKPc 36 22.70 6.3X
0.8s 16.10nm
GRR 152.00 9 iPKPc 36 23.20 6.6X
0.6s 19.85nm
LPF 152.32 9 iPKPc 36 23.90 6.8X
0.7s 34.15nm
CDF 152.35 357 ePKP 36 24.30 7.1X
0.7s 13.25nm
HAU 152.79 358 iPKPc 36 25.20 7.4X
0.5s 8.75nm
BSF 152.95 358 iPKPc 36 25.50 7.4X
0.6s 7.20nm
WTTA 153.03 350 iPKPc 36 25.70 7.4X
0.6s 16.70nm
LOR 153.52 2 iPKPc 36 26.90 8.1X
0.8s 12.10nm
SSF 153.72 3 iPKPc 36 27.50 8.4X
0.8s 8.05nm
LBF 153.81 2 ePKP 36 27.50 8.2X
0.8s 8.05nm
MFF 153.85 8 ePKP 36 27.30 8.0X
0.6s 3.60nm
BGF 154.18 4 iPKPc 36 28.30 8.6X
0.8s 14.10nm
LSF 154.39 6 ePKP 36 28.40 8.4X
0.7s 5.50nm
TCF 154.41 5 iPKPc 36 28.60 8.5X
0.7s 3.30nm
MAF 154.50 4 ePKP 36 29.30 9.2X
0.5s 2.20nm
LPL 155.26 357 ePKP 36 33.50 12.0X
LPG 155.28 357 ePKP 36 33.50 11.9X
0.6s 2.70nm
LIC 162.50 144 PKP 36 30.80 0.5
KIC 162.77 145 PKP 36 31.00 0.4
TIC 162.85 143 PKP 36 31.00 0.3
S.D. = 0.8 on 54 of 96 obs.

? SEP 25, 1991 11h 21m 54.17± 7.38s
45.146 N ±25.6km 2.971 E ±55.0km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.0 (LDG).

CAF 0.68 251 Pg 22 07.00 -0.7
Sg 22 15.20
RJF 1.04 279 Pg 22 14.00 0.2
Sg 22 27.00
TCF 1.26 335 Pg 22 17.50 -0.1
Sg 22 35.00
LPO 1.35 251 Pg 22 19.60 0.6
Sg 22 36.40
S.D. = 0.9 on 4 of 4 obs.

25d 11h

SEP 25, 1991 11h 30m 07.11± 0.76s
45.260 N ± 7.3km 21.185 E ± 7.8km
DEPTH = 33.0km (normal)
ROMANIA (358)
MG 3.3 (BUC).

BZS	0.47	40	iPc	30	17.00	-0.3
TIM	0.48	3	ePc	30	18.00	0.6
SSR	0.56	135	iPd	30	19.00	0.4
BEO	0.68	230	iPg	30	20.00	-0.2
			eSg	30	31.20	
DEV	1.36	62	iPd	30	34.00	4 1X
TNR	2.21	79	eP	30	41.00	-1.2
COZ	2.23	87	ePd	30	48.00	5.4X
PSZ	2.81	342	ePn	30	50.50	-0.2
MLR	3.36	84	ePc	30	59.50	0.8
VRI	3.94	79	eP	31	00.00	-6.7X

S.D. = 0.8 on 7 of 10 obs.

---

* SEP 25, 1991 13h 11m 19.60± 1.35s
35.809 N ±19.4km 27.203 E ±11.8km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)
MD 3.7 (ATH).

NPS	1.41	248	ePb	11	45.10	-0.2
			eSb	12	05.00	
YER	1.58	33	iPn	11	46.70	-1 1
CIN	1.92	21	eP	11	54.00	1.3
ELL	2.38	66	iPn	12	00.00	0.6
KHL	3.12	36	ePn	12	09.00	-0.8
VLI	3.56	286	ePn	12	16.20	0.1

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

SEP 25, 1991 13h 21m 33.95± 1.02s
38.018 N ± 9.1km 16.021 E ± 8.4km
DEPTH = 15 3 ± 4.8 km
3.7mb (1 obs.)
SOUTHERN ITALY (390)

SOI	0.06	27	Pd	21	36.50	-0.5
			eSg	21	39.00	
ATN	0.46	288	Pc	21	42.90	-0.4
			eSg	21	49.40	
MNO	1.05	266	P	21	54.10	0.7
			eSg	22	08.50	
CZI	1.20	4	P	21	55.60	-0.2
MEU	1.26	224	P	21	56.30	-0.6
			eSg	22	13.20	
ACI	1.34	6	P	21	57.80	-0.2
GIB	1.58	270	Pd	22	03.00	1.6
ROI	1.61	15	P	22	02.50	0.6
TDS	1.66	9	P	22	03.60	1.1
CSI	1.77	7	P	22	05.10	0.9
MMN	1.87	359	P	22	04.50	-1.1
MGR	2.15	350	P	22	09.10	-0.5
USI	2.34	288	P	22	11.20	-1.1
SGO	2.60	348	P	22	16.20	0.2
LCI	2.76	32	P	22	18.90	0.6
BRT	3.00	17	P	22	21.30	-0.4
OHR	4.81	49	e(Pn)	22	43.20	-4.4X
HFS	22.19	357	eP	26	30.00	-0.8
	0.4s		1.30nm		3.7mb	

S.D. = 0.9 on 17 of 18 obs.

& SEP 25, 1991 13h 53m 32.36s
58 986 N 152.944 W
DEPTH = 71.3km
KODIAK ISLAND REGION (13)
<AEIC>.

CDD	0.37	261	eP	53	43 64	-0 7
			eS	53	52 76	
AUI	0.43	325	eP	53	43.77	-1.1
			eS	53	52 77	
AUE	0.43	330	eP	53	44.46	-0.4
AUP	0.45	327	eP	53	44.51	-0 6
AGU	0.45	326	eP	53	44.78	-0.4
AUL	0.47	328	eP	53	45 03	-0.2
AUW	0.47	325	eP	53	44.58	-0.6
SYI	0.47	142	iP	53	44.50	-0.7
			eS	53	53.65	
OPT	0.68	348	iP	53	46.69	-0.7
			iS	53	57.73	
MCNL	0.75	286	eP	53	47.28	-0.8
			eS	53	58.45	
HOM	0.95	44	eP	53	50.07	-0.4
CNPM	1.03	58	eP	53	50.98	-0.6
			eS	54	05.19	
INE	1.08	357	eP	53	51.01	-1.4
INW	1.09	355	eP	53	51.19	-1.3
			eS	54	05 17	
KDC	1.26	169	eP	53	54 23	-0.3
NNL	1.35	38	eP	53	55.57	-0.2
RED	1.44	3	eP	53	55.79	-1.3
			eS	54	14.44	
RS1	1.48	4	eP	53	56.64	-1.1
			eS	54	15.27	
RSO	1.48	4	eP	53	56.67	-1.1
RS2	1.48	4	eP	53	56.72	-1.1
			eS	54	15.41	
RDW	1.50	3	eP	53	57.00	-1.0
REF	1.51	5	eP	53	56.98	-1.2
RDN	1.54	3	eP	53	57.30	-1.1
NCT	1.58	0	eP	53	58.06	-0.9
RDT	1.62	9	eP	53	58.33	-1.1
DFR	1.62	5	eP	53	58.58	-0.9
SLKM	2.06	41	eP	54	03.97	-1.5
SEW	2.10	56	eP	54	04.67	-1.3
CKL	2.24	8	eP	54	07.05	-1.0
SPU	2.25	11	iP	54	07.07	-1.0
BGL	2.30	7	eP	54	08.05	-0.8
CGLM	2.38	11	eP	54	09.06	-0.9
NCG	2.46	9	eP	54	10.17	-0.9
SUA	2.72	23	eP	54	13.80	-0.9
LTI	2.80	66	eP	54	13.52	-2.2
PMS	2.83	35	iP	54	14.65	-1.5
KNIM	2.97	60	eP	54	15.69	-2.5
PWA	3.08	28	eP	54	18.56	-1.0
SKT	3.09	13	eP	54	18.30	-1.4
PLRM	3.23	34	eP	54	19.67	-2.0
KNK	3.31	41	eP	54	20.43	-2.4
GHO	3.43	34	eP	54	22.89	-1.8
GLI	3.50	55	eP	54	22.08	-3.5
CUT	3.67	20	eP	54	26.18	-1.7
FID	3.71	59	eP	54	24 92	-3.5
VZW	3.82	54	eP	54	27.12	-2.9
VLZ	3.95	54	eP	54	28.81	-3.0
CVA	3.96	64	eP	54	28.88	-3.0

48 obs. ossociated

SEP 25, 1991 14h 14m 17.34± 0.20s
33.692 S ± 4.3km 179.628 E ± 4.8km
DEPTH = 199.2km (7 depth phases)
5.0mb (11 obs.)
SOUTH OF KERMADEC ISLANDS (179)

HBZ	4.05	195	P	15	19.40	-0.7
KUZ	4.42	225	P	15	27.90	3.0X
			eS	16	22.20	
WCZ	4.89	241	P	15	33.50	2.6
URZ	4.99	203	eP	15	31.90	-0.3
			e	15	34.10	
			eS	16	30.70	
NOZ	5.08	194	P	15	32.50	-0.8
WLZ	5.28	217	P	15	39.60	3.6X
PAHZ	5.56	201	eP	15	40.00	0.4
WHH	5.77	205	P	15	42.40	0.1
MGZ	6.24	211	eP	15	48.50	0.0
NGZ	6.36	210	eP	15	48.90	-1.2
CNZ	6.40	210	eP	15	50.70	0.1
RUZ	6.43	211	eP	15	52.40	1.5
TEHZ	6.68	199	eP	15	52.10	-2.0
BSZ	7.17	210	eP	15	59.50	-1.0
PGZ	7.41	200	eP	16	00.40	-3.4X
			eS	17	22.70	
MNG	7.66	204	eP	16	02.50	-4.7X
			eS	17	27.40	
KIW	8.08	206	eP	16	08.80	-3.9X
MTW	8.14	203	eP	16	09.20	-4.3X
CAW	8.24	205	P	16	10.20	-4.5X
BLW	8.34	202	eP	16	12.60	-3.3X
WDW	8.41	205	eP	16	12.00	-4.8X
MOW	8.46	203	eP	16	13.10	-4.3X
MRW	8.48	206	P	16	13.10	-4.6X
			eS	17	46.80	
WEL	8.51	206	P	16	14.50	-3.5X
			S	17	47.00	
TCW	8.63	208	eP	16	14.70	-4.9X
			e	16	16.50	
THZ	9.65	211	eP	16	30.30	-2.7X
			eS	18	15 30	
KHZ	9.94	207	eP	16	32.50	-4 2X
	0.3s		89.00nm		5.6mb	
DSZ	10.15	215	eP	16	35.90	-3.5X
LTZ	10.76	210	P	16	42.60	-4.7X
MQZ	11.38	207	P	16	49.30	-5.9X
WVZ	11.67	214	eP	16	55.70	-3.3X
EWZ	11.96	212	eP	16	59.60	-3.0X
ODZ	13.29	209	eP	17	15.60	-3.8X
LRCZ	13.85	212	eP	17	22.90	-3.7X
LSCZ	13.88	212	eP	17	22.80	-4.0X
TUZ	14.44	209	eP	17	32.30	-1.4
DZM	16.41	312	iPd	17	56.10	-1.9
ARMA	23.92	270	eP	19	17.50	2.9X
			i	19	32.30	63kmX
BRS	23.93	278	iPc	19	16.00	1.5
	1.0s		19.50nm		4.7mb	
			i	19	22.50	23kmX
CNB	24.95	258	iPc	19	28.00	4.0X
			i	20	07.60	203km
CAN	25.25	258	eP	19	28.40	1.7
			e	20	11.60	223kmX
BWA	25.82	260	eP	19	31.60	-0.3
			e	20	15.20	224kmX
RMO	27.59	277	iPd	19	59.30	11.4X
	1.0s		127.00nm			
			i	20	45.00	231kmX
CMS	28.49	265	eP	19	57.00	1.0
			e	20	38.60	206km
BFD	30.29	253	eP	20	13.00	1.2
			i	20	52.30	191km
OLP	31.31	274	iPd	20	21.20	0.4
STK	31.91	263	eP	20	27.40	1.4
	0.9s		2.60nm		3.9mb X	
			e	21	08.50	199km
CTAO	32.55	286	iP	20	31.80	0.2
	1.0s		150.00nm		5.6mb	
			i	21	14.00	204km
OIS	37.72	280	iPd	21	14.80	-0.5
	1.0s		52.00nm		5.1mb	
LAT	40.44	304	eP	21	37.20	-0.6
ASPA	41.06	272	iPd	21	42.50	-0.4
	1.2s		40.20nm		4.8mb	
Z	17s		0.20um		4.0MszX	
			ipP	22	24.20	194km
			eS	27	40.80	
			e	36	01.40	
WR2	42.33	277	iPc	21	52.40	-0.8
	0.8s		36.60nm		5.0mb	
			e	22	35.00	198km
			eS	28	00.20	
FORR	43.30	259	eP	22	00.00	-0.9
WARB	46.11	265	eP	22	22.70	-0.7
JAY	47.77	302	ePd	22	34.50	-1.9
	1.0s		69.30nm		5.0mb	
SPA	56.49	180	iPd	23	42.50	1.9
	1.0s		43.50nm		5.1mb	
MAT	79.85	327	eP	26	01.00	-3.8X
SYP	88.36	46	eP	26	48.00	0.3
PRS	88.79	44	iPd	26	49.84	0.3
GCC	88.92	43	eP	26	49.74	-0.3
PCC	89.04	42	ePd	26	50.49	-0.1
SAO	89.05	43	eP	26	51.15	0.4
PRI	89.07	44	iPd	26	51.63	0.6
BAR	89.15	49	eP	26	52.00	0.7
PAS	89.20	47	eP	26	51.00	-0.5
LLA	89.24	44	ePd	26	52.00	0.4
MWC	89.32	47	eP	26	52.00	-0.3
BKS	89.39	42	eP	26	52.10	-0.1
ZSP	89.42	42	eP	26	52.69	0.3
PLM	89.48	49	iP+	26	53.00	0.0
PEC	89.65	48	iP	26	54.00	0.4
	1.0s		18.67nm		5.0mb	
SBB	89.77	47	iP+	26	54.00	-0.2
FRI	90.21	44	iPd	26	56.06	0.0
FHC	90.52	39	eP	26	57.96	0.5
CMB	90.54	43	iPd	26	57.66	0.0
GLA	90.56	50	eP	26	59.00	1.2
CLC	90.67	46	eP	26	58.00	-0.3
GSC	90.81	47	eP	26	59.00	0.0
ORV	90.97	41	iPd	26	59.25	-0.3
WDC	91.13	40	iPd	27	00.17	0.0
MIN	91.47	41	eP	27	00.84	-1.1
MSU	95.71	47	iP	27	22.20	0.6
ANMO	97.19	53	eP	27	28.50	0.2
	1.0s		3.75nm		4.7mb	
BW06	99.90	45	eP	27	40.00	-0.5
	1.0s		3.00nm		4.7mb	
FBA	101.52	14	ePdiff	27	46.00	-0.9
INK	107.49	17	ePKP	32	20.00	-0.6

```
MBC    116.06  13 ePKP   32 35.50   -1.3
        0.9s      9.00nm
SOB1   122.54 130 ePKP   32 50.90   -0.1
BNH    125.55  56 iPKP   32 52.20   -3.8X
KEV    140.83 345 ePKP   33 25.00    1.1
OBN    146.58 321 iPKPc  33 34 50    0.4
        1.0s  *******nm
                  i      34 28.00
                  i      34 44 00
KAF    146.89 337 ePKP   33 33.30   -1.1
        0.6s     7.30nm
NUR    148.61 336 ePKP   33 39.80    2.6X
        0.6s    16.30nm
NB2    151.62 348 PKP    33 46.70    4.9X
        1 1s    21.00nm
HFS    151.98 345 ePKP   33 46.50    4.2X
        0.9s    10.50nm
LIC    152.33 170 PKP    33 44.88    0.7
KIC    152.50 171 PKP    33 45.24    0.8
TIC    152.74 170 PKP    33 45.58    0.8
     S.D. = 0.9  on  67 of  98 obs.
-------------------------------------
   SEP  25, 1991  14h 45m 05.11± 0.83s
   41.949 N ± 5.7km   23.078 E ± 9.2km
   DEPTH =  10.0km  (geophysicist)
 GREECE-BULGARIA BORDER REGION   (363)

KKB      0.08 177 iPg    45 08.00    0.4
VTS      0.65   9 iPgc   45 18.00   -0.2
                 iSg     45 27.00
KNT      0.80 190 iPc    45 19.86   -0.8
SRS      0.92 155 ePc    45 22.38   -0.3
                 eS      45 35.38
GRG      1.11 207 ePd    45 26.78    0.8
                 eS      45 39.73
SOH      1.14 169 ePd    45 26.46   -0.1
                 eS      45 42.78
RZN      1.25 101 iP     45 29.00    0.5
                 iS      45 47.00
OUR      1.75 157 ePc    45 35 30   -0.4
     S.D. = 0.6  on   8 of   8 obs.
-------------------------------------
   SEP  25, 1991  14h 53m 45.04± 1.02s
   37.994 N ± 8.2km   16.033 E ± 7.4km
   DEPTH =  11.2 ±  2.8 km
   3.9mb (  4 obs.)
 IONIAN SEA                      (399)

SOI      0.08  12 Pd     53 48.10    0.5
                 eSg     53 51.00
ATN      0.48 290 Pc     53 54.50   -0.3
MNO      1.06 267 Pd     54 05.40    0.4
                 iSg     54 19.50
CZI      1.22   4 P      54 07.30   -0.4
MEU      1.25 225 Pc     54 08.00   -0.3
                 eSg     54 25.50
ACI      1.36   6 P      54 11.50    1.6
GIB      1.59 270 Pd     54 14.00    0.8
ROI      1.63  15 P      54 14.20    0.4
CSI      1.79   6 P      54 16.90    0.8
MMN      1.89 359 P      54 17.20   -0.3
MGR      2.17 350 Pc     54 20.70   -0.9
                 eSn     54 49.30
USI      2.36 288 P      54 22.80   -1.4
SGO      2.62 348 P      54 28.20    0.2
LCI      2.77  32 P      54 30.50    0.4
BRT      3.02  17 Pd     54 33.00   -0 6
BAI      3.19  11 P      54 35.00   -1 0
DUI      3.86 342 P      54 45.60    0.0
SDI      4.08 336 P      54 48 90    0.2
OHP      4.82  48 ePn    54 53 30   -6.0X
ARV      5.98 338 P      55 13.90   -1.6
PGF      7.04 312 eP     55 29 60   -1.0
        0.8s    21.50nm          5.3mb X
VBY      7.53 356 e(P)   55 38.00    0.7
PTJ      7.90 360 eP     55 40.90   -1.7
LPG     10.21 320 eP     56 18.00    3.3X
        0.9s    11.45nm          5.3mb X
BSF     11.93 328 eP     56 38.70    0.7
        0.3s     8.05nm          5.5mb X
CDF     12.21 331 eP     56 42.60    0.9
HAU     12.25 328 eP     56 43.00    0.8
SMF     12.48 318 eP     56 55.00    9.7X
        0.8s     7.40nm          5.0mb X
LBF     12.63 319 eP     56 53 80    6.5X
        0.9s     5.75nm          4.8mb X
LOR     12.88 320 eP     56 55.90    5.3X
        0.7s     3.30nm          4.6mb X
SSF     12.93 318 eP     56 56.60    5.4X
MAF     12.93 314 eP     57 02.90   11.6X
        1.0s    10.00nm
LDF     15.80 317 eP     57 30.50    1.7
GRR     16.08 316 eP     57 37.70    5.3X
EKA     21.65 329 P      58 34.00   -3.2X
        0.9s     4.10nm          3.8mb
HFS     22.21 357 eP     58 38.90   -3.8X
        0.6s     2.70nm          3.9mb
NB2     23.27 354 P      58 49.60   -3.6X
        0.8s     2.70nm          3.8mb
KAF     24.97  11 eP     59 08.80   -0.7
        0.9s     5.50nm          4.2mb
     S.D. = 1.0  on  27 of  38 obs.
-------------------------------------
*  SEP  25, 1991  15h 01m 12.09± 1.76s
   45.594 N ±11.1km   26.262 E ± 8.6km
   DEPTH = 168.6 ± 18.4 km
 ROMANIA                         (358)

MLR      0.25 246 iPc    01 34.50    0.0
VRI      0.43  49 iPc    01 34.50   -0.3
BRD      0.56  98 iPc    01 35.50   -0.6
CMP      0.92 250 iPd    01 40.00    1.6
MTUR     0.92 247 iPc    01 38.00   -0.4
PPE      1.13  56 iPc    01 41.20    1.2
CLI      1.19  36 iPc    01 40.00   -0.6
BUC1     1.26 188 iPc    01 59.00   17.9X
COZ      1.38 259 iPc    01 42.80    0.4
TNR      1.40 273 ePc    01 41.00   -1.4
DRA      1.69 238 iPd    01 45.00   -0.3
DEV      2.37 278 ePd    01 15.00  -38.0X
PVL      2.47 196 iP     01 55.00    0.8
                 eS      02 20.00
BZS      3.26 272 ePc    02 04.50    0.5
VTS      3.72 217 iP     02 10.00    0.0
                 eS      02 42.00
DMK      3.92 163 ePn    02 36.00   23.5X
KDZ      3.99 189 iP     02 13.00   -0.3
RZN      4.06 197 iP     02 14.00   -0.5
     S.D. = 0.9  on  15 of  18 obs.
-------------------------------------
?  SEP  25, 1991  15h 53m 02.48± 3.22s
   40.639 N ± 8.9km   29.773 E ±25.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)

HRT      0.20 336 iPg    53 06.70   -0.2
YLV      0.31 257 iPg    53 08.70   -0.3
                 eSg     53 12.70
IZI      0.38 217 iPg    53 10.40    0.1
                 eSg     53 15.40
CTT      1.14 297 iPn    53 24.20    0.4
     S.D. = 0.6  on   4 of   4 obs.
-------------------------------------
   SEP  25, 1991  16h 04m 59.94± 0.50s
   14.925 N ± 7.2km  119.695 E ±10.2km
   DEPTH =  33.0km  (normal)
   4.7mb (  8 obs.)
 LUZON, PHILIPPINE ISLANDS       (249)

CHG     20.23 284 eP     09 36.80    1.6
XAN     21.38 335 eP     09 47.40    0.5
                 sP      10 01.00
CD2     21.60 320 eP     09 49.00   -0.2
TIY     23.59 345 eP     10 09.80    1.1
BJI     25.21 354 eP     10 25.50    1.3
LZH     25.40 329 eP     10 27.50    1.3
        2.0s    35.00nm          4.6mb
                 pP      10 33.50   21kmX
                 sP      10 37.00
HHC     26.78 346 eP     10 36.80   -2.1
SNY     27.02   6 eP     10 41.00    0.2
        1.0s     8.00nm          4.3mb
GTA     29.99 328 eP     11 07.00   -0.9
        0.8s    10.00nm          4.7mb
GUN     33.91 298 P      11 42.60    0.0
PKI     34.22 297 P      11 44.20   -1.1
KKN     34.39 298 P      11 45.80   -0.8
DMN     34.49 297 P      11 46.60   -0.9
GKN     34.99 298 P      11 50.80   -0.9
MBL     35.86 180 eP     11 59.00    0.2
ASPA    40.79 160 iPd    12 39.30   -0.7
        0.4s     5.70nm          4.7mb
G8A     40.93 274 Pd     12 42.30    1.0
        0.6s     2.90nm          4.2mb
WARB    41.42 171 eP     12 45.50    0.4
YAK     47.57   6 iPc    13 33.60   -0.5
MAIO    57.39 304 eP     14 48.00    0.1
KAF     78.52 331 eP     16 59.10   -0.1
        0.4s     3.70nm          4.7mb
INK     82.31  21 eP     17 20.00    0.7
HFS     84.94 331 ePKP   17 32.40   -0.4
        0.5s     2.90nm          4.7mb
NB2     85.73 332 P      17 36.40   -0.4
        0.9s     5.50nm          4.8mb
GRF     90.25 322 e(P)   17 59.00    0.3
     S.D. = 0.9  on  25 of  25 obs.
-------------------------------------
%  SEP  25, 1991  17h 35m 07.76± 2.61s
   15.961 N ±11.9km   61.002 W ±24.1km
   DEPTH =  33.0km  (normal)
 LEEWARD ISLANDS                 ( 92)
     ML 2.3 (FDF).

MGC      0.31 262 ePd    35 16.68    1.1
                 S       35 23.40
DEC      0.35 351 eP     35 16.90    0.6
                 S       35 24.40
DOG      0.60 277 ePd    35 19.90   0.1
BBL      0.63 227 ePd    35 19.56   -0.7
                 S       35 28.90
SEG      0.65 312 iPc    35 20.70    0.2
PAG      0.66 276 eP     35 20.60    0.0
                 S       35 30.50
BPA      1.36 323 eP     35 29.30   -1.3
                 S       35 45.50
     S.D. = 1.0  on   7 of   7 obs.
-------------------------------------
   SEP  25, 1991  17h 43m 16.51± 0.29s
   23.364 S ± 3.3km  178.902 W ± 4.1km
   DEPTH = 409.5 ±  2.9 km
   5.3mb ( 51 obs.)
 SOUTH OF FIJI ISLANDS           (171)
     CENTROID, MOMENT TENSOR     (HRV)
     Data Used: GDSN
     L.P.B.: 20S, 39C
     Centraid Location:
     Origin Time        17.43:21.5 0.6
     Lat 23.34S 0.06 Lon 178.76W 0.05
     Dep 433.2 2.6 Holf-durotion  1.9
     Moment Tensor;   Scole 10**17 Nm
       Mrr=-1.57 0.06  Mtt= 0.54 0.10
       Mff= 1.03 0.10  Mrt=-0.12 0.11
       Mrf= 0.05 0.12  Mtf= 0.48 0.09
      Principal Axes:
       T  Val=  1.32  Plg= 0  Azm=122
       N        0.26       4       212
       P       -1.58      86        26
     Best Double Couple:Mo=1.5*10**17
      NP1:Strike=208 Dip=45 Slip= -96
      NP2:         35     46       -85

SVA      5.78 334 iPc    44 48.20    0.5
                 eS      46 02.30
DZM     13.59 273 iPc    46 17.50    1.7
                 iS      48 42.80
KUZ     14.12 198 eP     46 23.70    2.4
HBZ     14.39 189 eP     46 23.00   -1.1
URZ     15.24 192 eP     46 31.40   -1.6
                 eS      49 10.80
NOZ     15.43 189 eP     46 33.90   -1.1
PAHZ    15.83 192 eP     46 39.00   -0.2
NGZ     16.44 195 eP     46 46.20    0.5
RUZ     16.46 196 eP     46 46.70    1.0
WAHZ    16.77 193 eP     46 47.70   -1.2
PGZ     17.68 192 eP     46 57.40   -0.5
MNG     17.84 194 eP     46 58.90   -0.7
        0.2s    32.00nm          5.3mb
                 eS      50 00.20
KIW     18.21 195 eP     47 03.30    0.1
CAW     18.40 195 eP     47 05.30    0.2
WDW     18.57 195 eP     47 06.70    0.0
MRW     18.61 195 eP     47 06.50   -0.5
                 eS      50 13.80
WEL     18.64 195 eP     47 09.00    1.6
                 S       50 17.00
THZ     19.59 199 eP     47 17.60    0.9
DSZ     19.91 201 P      47 19.70   -0.1
KHZ     20.02 197 eP     47 21.30    0.6
                 eS      50 37.90
LTZ     20.71 199 eP     47 27.00   -0.5
WVZ     21.45 201 eP     47 34.40   -0.1
```

25d 17h

MOZ	21.45	197	eP	47	34.40	-0.1	OZH	77.31	304	Pc	54	29.00	0.3				e	57	15.10				
EWZ	21.80	200	eP	47	37.50	-0.3	MAW	78.60	200	eP	54	47.00	12.0X	HHC	90.75	315	eP	55	36.40	1.1			
BRS	25.88	255	iP	48	17.00	1.9		1.1s		64.00nm					1.2s		40.00nm			5.2mb			
ARMA	27.16	249	eP	48	28.00	1.4	AIA	78.67	157	eP	54	38.30	2.9X	IMA	91.20	10	ePc	55	36.30	-0.6			
RMO	29.45	257	eP	48	58.00	11.4X	SSE	78.90	311	Pd	54	38.90	1.7		0.9s		11.50nm			4.8mb			
			e	53	24.80			1.0s		12.00nm			4.6mb	FBA	91.21	13	ePc	55	35.60	-1.2			
CNB	29.99	239	iPc	48	53.10	1.8	kGM	79.59	277	ePd	54	42.10	0.9		0.9s		22.80nm			5.1mb			
	1.0s		180.00nm			5.4mb	SYP	80.26	46	eP	54	46.00	1.6	LRM	91.44	40	eP	55	38.00	-0.6			
CAN	30.28	240	eP	48	55.40	1.6	PRS	80.46	44	iPd	54	46.66	1.4	BW06	91.61	44	iP	55	39.30	-0.1			
BWA	30.54	241	eP	48	55.50	-0.5	GCC	80.50	43	iPd	54	46.58	1.2		0.9s		41.31nm			5.4mb			
CMS	32.23	248	iPd	49	12.00	1.5	PCC	80.55	42	eP	54	46.31	0.6	CD2	91.63	303	eP	55	42.00	2.5			
	0.8s		115.00nm			5.3mb	PRI	80.79	44	ePd	54	48.59	1.4	BTO	91.65	314	eP	55	40.00	0.6			
			e	53	58.00		LLA	80.90	44	eP	54	49.13	1.5	GOL	92.86	48	iP	55	46.90	1.6			
CTAO	32.49	269	iPc	49	13.20	0.4	ZSP	80.91	42	eP	54	49.14	1.6		1.2s		18.03nm			5.0mb			
	1.0s		340.00nm			5.7mb	NJ2	81.07	310	Pc	54	48.00	-0.5	LZH	93.84	308	eP	55	51.00	1.3			
			i	49	18.00			1.0s		80.00nm			5.4mb		1.5s		200.00nm			6.0mb			
			i	49	34.50		QIZ	81.28	295	P	54	51.10	1.2	YAK	94.43	338	iPc	55	49.90	-1.7			
			i	50	42.50		BAR	81.42	49	eP	54	51.00	0.6	SES	94.66	36	eP	55	53.00	0.0			
			iS	53	58.00		FOX	81.52	39	eP	54	52.06	1.5	RSSD	95.78	44	iP	55	57.20	-1.2			
			e	56	15.00		PLM	81.67	48	eP	54	52.00	0.2		1.1s		27.95nm			5.3mb			
QLP	33.50	257	eP	49	21.80	0.5	RVR	81.69	48	eP	54	52.00	0.3	INK	97.24	15	eP	56	04.00	-0.1			
	0.7s		167.00nm			5.5mb	FHC	81.70	39	eP	54	52.87	1.2	GTA	98.13	309	eP	56	09.60	0.5			
TAU	34.03	227	eP	49	24.00	-1.6	PEC	81.78	48	eP	54	52.70	0.5		1.0s		10.00nm			5.1mb			
PMG	35.29	287	eP	49	36.50	0.1		1.0s		18.67nm			4.8mb	FVM	102.85	54	ePdiff	56	31.20	1.1			
	0.9s		168.07nm			5.4mb	SBB	81.79	47	eP	54	53.00	0.7		1.0s		17.00nm			5.7mb			
BFD	35.78	238	iPd	49	41.40	1.1	FRI	81.92	44	eP	54	53.22	0.5	PKI	105.21	294	Pdiff	56	45.40	4.2X			
	0.9s		88.00nm			5.1mb	CMB	82.12	43	iPd	54	54.24	0.4	PKI	105.21	294	PKP	00	52.18	-1.2			
STK	35.86	247	P	49	41.90	0.9	ORV	82.38	41	eP	54	55.45	0.4		0.8s		12.00nm						
	0.9s		26.30nm			4.6mb	MDJ	82.39	326	Pc	54	55.00	0.0	KKN	105.39	294	Pdiff	56	46.40	4.5X			
			eS	54	48.40			1.0s		60.00nm			5.3mb	KKN	105.39	294	PKP	00	52.48	-1.1			
OIS	38.49	266	iPd	50	03.70	0.8	WDC	82.40	40	iPd	54	55.24	0.1		0.9s		21.00nm						
			i	52	06.50		CLC	82.59	46	eP	54	56.00	-0.3	DMN	105.48	294	PKP	00	53.10	-0.7			
			e	55	20.00					e	56	30.00		MBC	105.75	12	ePKP	00	52.00	-0.5			
ADE	38.52	243	iPd	50	04.20	1.2	IPM	82.72	278	ePd	54	57.50	0.2	GKN	106.00	294	Pdiff	56	48.80	4.3X			
	1.0s		200.00nm			5.4mb		0.9s		227.90nm			5.9mb	GKN	106.00	294	PKP	00	52.84	-1.8			
ASPA	43.12	260	iPc	50	39.60	-0.7	MIN	82.81	40	ePd	54	58.04	0.6		0.8s		9.00nm						
	1.1s		111.30nm			5.1mb	GSC	82.82	47	eP	54	58.00	0.5	GBA	107.65	277	PKP	00	58.00	0.2			
Z	18s		0.50um			4.5Msz	GLA	82.91	50	eP	55	00.00	2.1		0.2s		1.00nm						
			iPcS	56	14.40		kDC	83.77	14	eP	55	01.30	-0.3	CER	120.99	198	iPKPd	01	22.60	-0.2			
			iS	56	34.40		SNY	83.87	321	Pc	55	02.40	0.0		0.9s		30.77nm						
			eScS	59	57.90			1.0s		40.00nm			5.1mb	QUE	121.52	292	ePKP	01	24.00	-0.1			
WR2	43.43	265	iPc	50	41.40	-1.4	CN2	84.06	323	Pd	55	03.80	0.4		0.8s		175.37nm						
	0.6s		84.40nm			5.3mb		1.2s		80.00nm			5.3mb	FRS	122.28	205	iPKPc	01	25.60	0.3			
			iS	56	38.10					pP	56	36.00	403kmX		0.7s		34.25nm						
JAY	44.24	292	ePc	50	48.00	-1.2	SNG	84.15	280	eP	55	05.70	1.3	SEK	122.60	208	iPKPd	01	25.70	-0.5			
	0.7s		36.30nm			4.8mb		1.2s		184.38nm			5.7mb		0.7s		10.27nm						
FORR	47.40	249	eP	51	12.00	-1.5	TIA	84.60	313	Pd	55	07.20	1.0	BFT	123.75	212	iPKPc	01	30.00	1.4			
	0.4s		86.00nm			5.5mb		1.2s		70.00nm			5.3mb		1.0s		25.00nm						
MTN	48.42	273	eP	51	20.00	-1.5	NVL	85.82	184	iPc	55	12.00	0.3	PRY	123.88	209	ePKP	01	29.50	0.8			
kNA	49.67	269	eP	51	29.70	-1.3				ePcP	55	18.00		KSR	125.05	209	ePKP	01	31.50	0.4			
	0.5s		58.00nm			5.2mb				e	55	22.00			0.6s		5.36nm						
COOL	53.35	248	eP	51	57.40	-0.4				e	55	44.00		NPA	126.59	228	iPKP	01	33.70	-0.4			
	0.8s		52.00nm			4.9mb				eS	05	11.00		SOB1	127.71	123	ePKP	01	35.00	-1.3			
KLB	56.12	247	iPd	52	16.60	-0.8	RSO	86.20	13	eP	55	13.00	-0.7				e	01	36.00				
RKG	56.35	243	eP	52	18.40	-0.6	SVW	86.26	11	eP	55	13.30	-0.5				e	01	41.00				
MBL	56.37	259	eP	52	18.00	-1.3	SLKM	86.77	14	eP	55	14.80	-1.5				e	04	15.00				
	0.3s		20.00nm			5.0mb	PGC	87.11	33	eP	55	19.00	1.0	BUL	129.11	214	ePKPd	01	39.30	0.4			
NWAO	56.37	245	eP	52	19.00	-0.2	BJI	87.34	316	eP	55	20.00	0.7		0.8s		18.66nm						
			eS	59	44.00			1.6s		62.00nm			5.2mb				iPP	04	27.00				
BAL	57.16	248	eP	52	23.70	-1.0	GYA	87.35	300	P	55	21.00	1.1	MTD	130.20	220	iPKPd	01	39.00	-2.0			
MUN	57.37	246	eP	52	25.30	-0.8		1.0s		10.00nm			4.6mb				iPP	04	24.90				
	1.0s		260.00nm			5.6mb	LOE	87.44	290	iPd	55	22.00	1.7	KEV	131.10	348	ePKP	01	41.00	0.0			
MRWA	58.01	249	eP	52	29.80	-0.8	MSU	87.69	46	iP	55	22.10	0.7	KRI	131.29	217	iPKPd	01	45.30	2.2			
	0.6s		60.00nm			5.2mb	TTA	87.90	10	eP	55	21.00	-0.6				iPP	04	36.00				
NANU	59.88	257	iPd	52	42.80	-0.5		1.1s		23.30nm			4.9mb	WIN	131.77	200	iPKPd	01	44.00	0.0			
	0.5s		82.00nm			5.4mb	PMR	87.98	14	eP	55	21.00	-0.9		1.0s		20.00nm						
MNI	59.97	286	eP	52	43.00	-1.0		1.1s		64.30nm			5.4mb	SOD	133.20	347	iPKP	01	43.50	-1.6			
MKS	61.93	277	iPc	52	57.00	0.1	NST	88.10	288	eP	55	27.20	3.8X	KAF	137.64	343	ePKP	01	48.20	-5.4X			
SPA	66.78	180	iPc	53	27.70	0.4	TIY	88.57	312	Pc	55	25.80	0.5		0.6s		14.30nm						
	1.0s		96.50nm			5.5mb		1.0s		50.00nm			5.3mb	OBN	138.82	330	iPKPc	01	55.00	-1.0			
KKM	69.72	286	ePc	53	45.00	-0.8	kHT	89.09	286	eP	55	30.00	2.0		0.8s		********	nm					
KAKJ	70.75	326	P	53	51.30	0.0	TOA	89.11	15	eP	55	27.60	0.3				i	01	57.00				
CHJJ	71.24	325	P	53	53.20	-1.1	XAN	89.21	308	eP	55	28.50	0.2	NUR	139.42	342	ePKP	01	47.00	-9.9X			
IIDJ	71.40	324	P	53	54.20	-1.0	PNT	89.48	34	eP	55	30.00	0.8		0.7s		20.00nm						
MAT	72.03	325	iPd	53	56.70	-2.2		0.9s		49.00nm			5.3mb				i	01	56.00				
	0.8s		44.03nm			5.1mb	PV09	89.72	47	eP	55	31.50	0.6	NB2	141.70	352	PKP	01	54.60	-6.4X			
NIIJ	72.15	326	P	53	59.40	-0.1	BDT	89.74	289	eP	55	32.20	1.3		0.8s		18.00nm						
OFUJ	72.25	329	P	53	59.00	-1.0		1.0s		41.40nm			5.2mb	UPP	141.72	347	iPKP	01	54.80	-6.2X			
MTMJ	72.28	325	P	53	59.30	-1.1	ALQ	89.83	52	eP	55	31.30	-0.1	HFS	142.21	350	ePKP	01	55.90	-6.0X			
YAMJ	72.34	327	P	54	00.00	-0.6		1.0s		59.75nm			5.4mb		0.6s		40.00nm						
TSRJ	72.50	323	P	54	01.10	-0.5				epP	57	09.00	424kmX	MUD	146.41	352	iPKPd	02	06.50	-2.5X			
AOMJ	74.03	329	P	54	10.80	0.6	kMI	89.91	297	Pd	55	34.00	2.1		0.6s		22.00nm						
KUSJ	74.13	333	eP	54	09.90	-0.9		2.0s		150.00nm			5.5mb	COP	146.65	348	iPKPc	02	11.60	2.2			
ADK	74.95	1	ePc	54	13.40	-1.7	NEW	90.17	36	eP	55	32.10	-0.3		0.8s		68.66nm						
	0.9s		67.50nm			5.4mb		1.0s		8.00nm			4.5mb	BSD	146.67	346	iPKPc	02	11.10	1.7			
MRRJ	75.17	330	eP	54	16.60	0.0	CHG	90.43	290	ePc	55	36.00	1.8		0.9s		102.00nm						
ASAJ	75.83	332	eP	54	20.90	0.7		1.0s		55.00nm			5.4mb	KAS	147.34	311	ePKP	02	14.50	3.4X			

```
EKA   147.92    5 PKP    02 11.00   -0.5
       0.8s    39.50nm
BHL   148.04  297 PKP    02 15.00    2.5
AYN   148.26  287 ePKPd  02 12.00   -0.8
JVI   148.59  293 ePkP   02 17 30    3.9X
BBTK  148.63  309 ePKP   02 18.00    4.7X
HOL   149 08  288 ePKPd  02 18.50    4.4X
BADA  149.15  287 ePKPd  02 19.00    4.8X
MBH   149.19  289 ePKP   02 16.00    1.6
MBH   149.19  289 ePKP   02 18.70    4.3X
DCN   149.40   10 ePKP   02 13.50   -0.3
       0.8s    40.00nm
KRA   149.55  336 ePKPd  02 19.00    4.8X
       0.9s    70 00nm
                  e      02 25.80
SPC   150.13  334 e(PKP)02 15.20   -0.1
                  i      02 21.50
                  e      03 50.20
                  i      04 03.10
KSP   150.14  341 ePKP   02 15.00    0.0
       0.8s   145 00nm
                  i      02 19.90
                  i      02 28.40
                  e      04 01.70
ETA   150.19    9 iPKPc  02 20.50    5.5X
       0.8s    55.00nm
WIT   150.29  353 ePKP   02 16.00    0.9
CLL   150.62  345 iPKP   02 15.60   -0.1
       1.2s    16.00nm
                  i      02 20.90
                  pPKP   04 02.00
ECP   150.67    9 iPKPc  02 21.40    5.7X
       1.0s   209.00nm
BRG   150.78  343 iPKP   02 16.00    0.0
                  i      02 21.80
                  i      04 04.10
COZ   151.07  325 iPKPc  02 22.50    5.7X
WTS   151.08  353 ePKP   02 17.00    0.6
       0.8s    12 00nm
PRU   151.41  342 PKP    02 17.00    0.0
       0.8s    22.60nm
                  e      02 23.50
                  e      02 33.90
                  e      04 05.00
MOX   151.56  346 iPKPc  02 17.40    0.2
                  epPKP  04 06.00
SRO   152.00  335 ePKP   02 16.40   -1.5
                  i      02 23.70
                  e      02 34.10
                  e      03 52.00
                  i      04 07.20
BNS   152.05  352 iPKPd  02 22.40    4.6X
       0.5s    17.00nm
ZST   152.14  337 ePKP   02 18.40    0.3
                  e      02 25.20
                  e      02 36.60
                  e      04 07.80
BZS   152.25  328 ePKP   02 17.00   -1.3
VKA   152.36  338 e(PKP)02 19.00    0.6
                  i      02 25.70
ENN   152.39  353 ePKP   02 19.00    0.7
       0.7s     4.00nm
KHC   152 46  342 PKPc   02 19.00    0.4
       1.0s    16 00nm
                  e      02 26.00
                  e      02 38.20
                  e      04 09.50
MEM   152.54  353 PKP    02 25.20    6.7X
GRF   152 54  346 ePKPd  02 18.60    0.0
                  e      02 26.50
                  e      02 38.30
WET   152 64  343 ePKP   02 19 20    0.4
SNF   152.79  356 PKP    02 26.80    7.9X
DOU   153.18  355 PKPc   02 27.70    8.3X
KBA   154.37  340 iPKPd  02 20 00   -1.4
       1 2s    10 10nm
                  i      02 29.00
                  i      02 33.50
                  i      02 36.30
                  i      02 46.80
                  i      02 55 40
PTJ   154.49  335 i(PKP)02 21 60    0.1
FLN   154.62    2 ePKP   02 20 40   -1.0
       1.0s    20.00nm
WTTA  154.70  343 ePKP   02 20.50   -1.3
       0 7s    29.20nm
                  i      02 21.60
                  i      02 30.50
                  i      02 34.20
                  i      02 47.90
                  e      02 58.10
                  epPKP  04 12 00
LDF   154.80    2 ePkP   02 20.70   -1.0
SKO   154.86  322 ePKP   02 21.50   -0.5
                  e      02 49.50
LJU   154.89  338 ePKP   02 21.50   -0.4
GRR   154.98    3 ePkP   02 20.90   -1.0
VBY   155.09  336 e(PKP)02 22.00   -0.2
VOY   155.12  338 ePKP   02 21.80   -0.5
BSF   155.16  351 ePKP   02 21.10   -1.3
CEY   155.19  337 ePKP   02 22.50    0.2
LPF   155.33    3 ePKP   02 21.60   -0.8
       1.1s    14.65nm
OHR   155.79  322 ePKP   02 23.00   -0.4
LOR   156.05  355 ePKP   02 22.70   -0.8
       0.9s    13.60nm
SSF   156.28  356 ePKP   02 23.00   -0.7
       0.9s    10.65nm
LBF   156.32  355 ePKP   02 23.00   -0.9
       1.1s    12.20nm
MFF   156.79    2 ePKP   02 23.60   -0.8
       1.1s    19.55nm
BGF   156.82  357 ePKP   02 23.70   -0.7
       1.3s    28.90nm
TCF   157.11  358 ePKP   02 24.10   -0.7
       1.1s    15.85nm
LSF   157.16  359 ePKP   02 23.90   -1.0
LPG   157.45  350 ePKP   02 25.00   -0.6
       1.2s     8.95nm
RJF   158.11  359 ePKP   02 25.50   -0.5
       1.1s    14.65nm
CAF   158.48  358 ePKP   02 26.20   -0.3
EPF   160.38    2 ePKP   02 28.40   -0.2
       1.0s    10.00nm
LIC   161.97  160 PKPd   02 31.16    0.3
       1.0s    52.00nm
KIC   162.18  161 PKPd   02 31.56    0.4
       1.0s    49.00nm
TIC   162.37  160 PKPd   02 31.58    0.3
       1.0s    39.50nm
      S.D. = 1.0  an 215 af 242 abs.
-------------------------------------
&  SEP  25, 1991  17h 51m 08.12s
    62.058 N          150.354 W
    DEPTH =  56.4km
  CENTRAL ALASKA                  (  1)
       <AEIC>. ML 2.5 (AEIC).
CUT     0.35   6 iP     51 17.67   -0.7
                 S      51 25.52
PWA     0.47 151 iP     51 19.28   -0.2
                 eS     51 28.63
SKT     0.56 263 iP     51 20.00   -0.6
                 eS     51 29.57
                 eS     51 29.60
SUA     0.62 197 iP     51 21.22   -0.3
                 eS     51 31.62
GHO     0.73 112 iP     51 22.30   -0.5
                 eS     51 34.15
PLRM    0.75 128 iP     51 22.14   -0.7
                 eS     51 34.48
PMS     0.90 155 eP     51 24.42   -0.5
HUR     0.98  20 eP     51 25.18   -0.8
SML     0.99 104 eP     51 25.35   -0.7
NCG     1.08 233 eP     51 26.49   -0.9
CGLM    1.09 227 eP     51 26.94   -0.6
KNK     1.11 125 eP     51 27.30   -0.4
                 eS     51 43.83
SPU     1.20 223 eP     51 28.24   -0.7
                 eS     51 44.65
BGL     1.26 232 eP     51 29.44   -0.4
CKL     1.28 228 eP     51 30.00   -0.2
TRF     1.40   1 eP     51 30.85   -1.0
RND     1.52  26 eP     51 32.50   -0.9
KTH     1.52 350 eP     51 32.71   -0 8
RDT     1.79 215 eP     51 37.04   -0.1
MCK     1.80  21 eP     51 36.58   -0.7
RDN     1.94 218 eP     51 39.00   -0.3
GLI     1.96 126 eP     51 38.47   -1.1
TOA     1.97  87 eP     51 39.44   -0.3
KNIM    2.13 142 eP     51 40.02   -1.9
VLZ     2.14 114 eP     51 40.40   -1 5
KLU     2.18 103 eP     51 41.32   -1.4
FID     2.28 123 eP     51 41.99   -2.0
LTI     2.36 148 eP     51 43.11   -2.0
HDA     2.81  32 eP     51 49.58   -2.0
CCB     2.84  23 eP     51 50.38   -1.6
MDM     3.06  17 eP     51 53.03   -2.2
       31 obs. assaciated
-------------------------------------
?  SEP  25, 1991  18h 01m 19.25± 1.61s
    3.646 N ±10.6km   76.452 W ±14.7km
    DEPTH =  10.0km  (geophysicist)
  COLOMBIA                        (103)
       MD 2.2 (UVC).
HOOC    0.25 226 ePc    01 24.67   -0.1
                 eS     01 28.70
CLMC    0.26 335 ePc    01 24.76    0.0
                 eS     01 28.80
ANCC    0.43 253 ePc    01 28.17    0.1
HOBC    0.77  24 eP     01 34.43    0.0
                 eS     01 45.80
      S.D. = 0.1  an   4 af   4 abs.
-------------------------------------
?  SEP  25, 1991  18h 29m 49.67±16.19s
    7.593 S ±141.km  130.144 E ±28.4km
    DEPTH = 199.2 ± 46.5 km
    4.8mb (  1 obs.)
  TANIMBAR ISLANDS REG., INDONESIA(281)
MTN     5.31 170 eP     31 09.00    0.3
       0.3s    57.00nm          5.2mb X
                 eS     32 18.00
KNA     8.22 189 eP     31 46.50   -0.3
WR2    12.95 162 eP     32 47.30   -0.3
       0.2s    34.40nm          5.4mb X
                 iS     35 15.00
QIS    15.81 146 eP     33 23.00   -0.1
                 i      33 45.00
                 eS     36 14.00
ASPA   16.38 168 eP     33 30.50    0.4
       0.4s    15.50nm          4.8mb
                 iS     36 39.20
WARB   18.79 190 eP     33 56.50    0.1
      S.D. = 0.5  an   6 af   6 abs.
-------------------------------------
    SEP  25, 1991  18h 51m 52.73± 0.71s
    44.236 N ± 4.4km    8.235 E ± 5.7km
    DEPTH =  10.0km  (geophysicist)
  NORTHERN ITALY                  (545)
       ML 2.5 (GEN), 2.4 (LDG).
CKI     0.19  10 P      51 57.00    0.0
                 eSg    51 59.50
ROB     0.27 283 P      51 58.25   -0.2
                 S      52 01.74
PCP     0.38  36 P      52 00.20   -0.3
                 S      52 05.97
IMI     0.41 217 P      52 00.61   -0.5
                 S      52 06.66
ENR     0.59 269 P      52 04.64    0.0
                 S      52 11.51
STV     0.65 271 P      52 05.97    0.1
                 S      52 13.56
SBF     0.69 237 Pg     52 05.60   -0.8
                 Sg     52 15.20
PZZ     0.86 289 P      52 09.02   -0.3
                 S      52 19.92
BHB     0.92 311 P      52 10.17   -0.2
                 S      52 22.07
RSP     1.15 323 P      52 14.28    0.0
                 S      52 28.32
RRL     1.24 304 P      52 15.51   -0.5
FRF     1.33 240 Pg     52 17.50    0.2
                 Sg     52 34.60
LMR     1.54 235 Pg     52 20.70    0.4
                 Sg     52 41.20
LRG     1.57 241 Pg     52 21.60    1.0
                 Sg     52 42.60
LPG     1.64 321 Pg     52 23.00    1.0
                 Sg     52 44.20
      S.D. = 0.5  an  15 of  15 abs.
-------------------------------------
%  SEP  25, 1991  18h 52m 56.88± 1.21s
    44.220 N ± 9.3km    8.263 E ± 8.5km
    DEPTH =  10.0km  (geophysicist)
  NORTHERN ITALY                  (545)
       ML 2.0 (GEN).
ROB     0.29 285 P      53 02.75   -0.3
```

25d 18h

		S	53 06.13			
PCP	0.38 32	P	53 04.70	0.0		
		S	53 10.54			
IMI	0.41 221	P	53 05.21	-0.1		
		S	53 11.57			
ENR	0 61 271	P	53 09.21	0.0		
		S	53 16.49			
STV	0.68 272	P	53 10.75	0.4		
		S	53 18.44			
PZZ	0.88 289	P	53 13.82	-0.1		
S.D. = 0.3 on 6 of 6 obs.						

SEP 25, 1991 18h 55m 09.02± 1.15s
44.189 N ± 8.0km 8.262 E ± 8.7km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.1 (GEN), 2.1 (LDG).

ROB	0.30 291	P	55 15.19	-0.1		
		S	55 18.77			
IMI	0.39 224	P	55 17.34	0.4		
		S	55 24.31			
PCP	0.41 30	P	55 17.34	0.0		
		S	55 24.31			
ENR	0.61 274	P	55 20.42	-0.9		
		S	55 28.82			
STV	0.68 275	P	55 23.49	1.0		
		S	55 30.87			
SBF	0.68 242	Pg	55 22.30	-0.2		
		Sg	55 31.90			
PZZ	0.89 291	P	55 26.46	0.3		
		S	55 37.44			
FRF	1.33 242	Pg	55 33.20	-0.3		
		Sg	55 51.30			
S.D. = 0.7 on 8 of 8 obs.						

SEP 25, 1991 18h 59m 58.13± 0.99s
44.241 N ± 7.7km 8.259 E ± 8.1km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.1 (GEN), 2.1 (LDG).

ROB	0.28 281	P	00 03.74	-0.4		
		S	00 07.22			
PCP	0.36 34	P	00 05.58	-0.1		
		S	00 11.84			
IMI	0.42 219	P	00 06.20	-0.6		
		S	00 12.66			
ENR	0.60 269	P	00 10.40	0.0		
		S	00 17.27			
STV	0.67 271	P	00 11.94	0.4		
		S	00 19.22			
SBF	0.70 238	Pg	00 11.30	-0.8		
		Sg	00 20.90			
PZZ	0.87 288	P	00 14.71	-0.3		
		S	00 25.58			
FRF	1.35 240	Pg	00 23.60	0.6		
		Sg	00 40.00			
LRG	1.58 241	Pg	00 27.30	1.1		
		Sg	00 48.20			
S.D. = 0.7 on 9 of 9 obs						

? SEP 25, 1991 19h 26m 49.25± 0.88s
26.693 N ±75.8km 88.431 E ±28.9km
DEPTH = 33.0km (normal)
INDIA-BANGLADESH BORDER REGION (315)

GUN	2.57 299	P	27 29.92	0.1		
PKI	2.83 289	P	27 33.64	0.2		
KKN	3.01 292	P	27 35.84	-0.1		
DMN	3.10 288	P	27 37 18	-0.1		
SHL	3.30 109	eP	27 40.00	0.0		
		eS	28 14.00			
GKN	3.62 292	P	27 44.40	-0.1		
S.D. = 0.1 on 6 of 6 obs						

& SEP 25, 1991 19h 57m 06.60s
60.204 N 152.297 W
DEPTH = 82.4km
SOUTHERN ALASKA (2)
<AEIC>.

RED	0.32 313	iPc	57 18.83	-0.7		
		iS	57 28.70			
RS1	0.34 318	iPc	57 19.27	-0.6		
		eS	57 29.50			
RSO	0.34 319	iPc	57 19.26	-0.6		
RS2	0.35 319	iPc	57 19.24	-0.6		
		eS	57 30.53			
REF	0.35 325	iPc	57 19.27	-0.6		
		eS	57 29.58			
RDT	0.38 352	iPc	57 19.18	-0.7		
		eS	57 29.65			
RDW	0.38 318	eP	57 19.36	-0.7		
RDN	0.39 324	iPc	57 19.39	-0.7		
		eS	57 29.64			
INE	0.41 250	eP	57 19.53	-0.7		
DFR	0.43 334	eP	57 19.62	-0.7		
INW	0.44 252	eP	57 19.71	-0.7		
NCT	0.48 319	eP	57 19.99	-0.7		
NNL	0.53 108	ePc	57 21.55	0.6		
HOM	0.64 149	eP	57 22.11	0.1		
		eS	57 34.83			
OPT	0.73 221	eP	57 22.35	-0.6		
		eS	57 34.75			
CNPM	0.87 141	ePd	57 23.84	-0.7		
		eS	57 37.84			
SPU	0.99 7	iPc	57 25.20	-0.8		
		iS	57 40.05			
CKL	1.00 359	iPc	57 25.33	-0.8		
		eS	57 40.21			
BGL	1.06 358	iPc	57 26.20	-0.8		
		iS	57 41.52			
SLKM	1.08 73	eP	57 26.38	-0.6		
CGLM	1.12 7	ePc	57 26.92	-0.7		
NCG	1.21 3	ePc	57 28.08	-0.6		
SEW	1.43 93	ePc	57 30.08	-1.3		
CDD	1.45 209	ePc	57 30.56	-1.2		
MCNL	1.45 226	ePc	57 30.20	-1.6		
SUA	1.48 30	ePc	57 31.64	-0.6		
		eS	57 52.39			
SYI	1.60 182	eP	57 32.88	-0.8		
PMS	1.70 51	ePd	57 34.54	-0.6		
		eS	57 55.54			
SKT	1.82 11	ePc	57 35.41	-1.3		
PWA	1.87 38	eP	57 36.66	-0.7		
SVW	1.87 300	eP	57 34.61	-2.8		
PLRM	2.08 47	eP	57 38.73	-1.5		
LTI	2.23 92	eP	57 40.07	-2.2		
KNK	2.24 56	ePc	57 40.62	-1.8		
GHO	2.28 45	eP	57 41.36	-1.6		
KNIM	2.28 84	eP	57 40.01	-2.9		
CUT	2.42 23	eP	57 43.73	-1.0		
GLI	2.66 73	eP	57 46.25	-1.9		
FID	2.93 77	eP	57 48.20	-3.7		
KLU	3.38 65	ePc	57 55.48	-2.7		
TOA	3.53 55	eP	57 58.36	-1.9		
41 obs. assacioted						

% SEP 25, 1991 20h 40m 21.46± 0.66s
40.925 N ± 5.6km 22.852 E ± 5.5km
DEPTH = 10.0km (geophysicist)
GREECE (364)

KNT	0.24 8	iPd	40 26.74	0.2		
		eS	40 28.58			
THE	0.30 164	iPd	40 27.85	0.0		
GRG	0.34 275	iPd	40 28.53	0.0		
		eS	40 33.10			
SOH	0.39 105	ePc	40 29.78	0.2		
		eS	40 35.34			
SRS	0.59 71	ePd	40 33.10	-0.4		
		eS	40 41.26			
LIT	0.87 199	ePd	40 38.10	-0.1		
S.D. = 0.3 on 6 of 6 obs.						

* SEP 25, 1991 20h 46m 23.90± 0.44s
56 748 S ± 6 4km 147.393 E ±16.0km
DEPTH = 15 8km (4 depth phases)
5.2mb (14 obs.) 5.1Msz (3 obs.)
WEST OF MACQUARIE ISLAND (701)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 32C
Centroid Location:
Origin Time 20.46 32.3 0 6
Lat 56.46S 0.08 Lon 147.46E 0.12
Dep 15.0 FIX Half-duration 2.6
Moment Tensor: Scale 10**17 Nm
Mrr=-0.18 0.06 Mtt= 0.72 0 06
Mff=-0.54 0.06 Mrt= 0.91 0.14
Mrf=-0.16 0.19 Mtf=-1.07 0.07
Principal Axes:
T Val= 1 73 Plg=25 Azm= 27

	N	-0.46	56	253		
	P	-1.27	21	127		
Best Double Couple:Mo=1.5*10**17						
NP1:Strike=168 Dip=56 Slip= 3						
NP2:	76	88	146			
BFD	19.85 349	eP	50 55.00	-1.7		
CAN	21.46 4	eP	51 14.30	0.9		
CNB	21.48 4	eP	51 14.00	0.3		
		i	51 18.80	17km		
BWA	22.34 2	eP	51 23.40	1.2		
ADE	22.57 341	ePc	51 25.20	0.7		
	0.7s	75.34nm		5.3mb		
STK	25.19 348	eP	51 50.60	0.8		
	1.0s	17.10nm		4.7mb		
		eS	56 27.40			
CMS	25.28 357	eP	51 51.00	0.3		
BRS	29.59 10	iPc	52 29.80	-0.3		
	1.2s	4.50nm		4.1mb X		
		eS	57 36.00			
RMQ	30.25 2	eP	52 46.00	10.0X		
SPA	33.43 180	eP	53 02.00	-1.7		
	1.5s	23.86nm		4.9mb		
Z	20s	2.88um		5.0Msz		
ASPA	34.48 338	iPc	53 11.40	-1.6		
	1.0s	24.50nm		5.1mb		
Z	23s	1.70um		4.7MszX		
		ipP	55 48.10			
		eS	58 35.60			
OIS	36.60 348	eP	53 30.00	-0.9		
CTAO	36.62 358	iP	53 35.00	3.9X		
	1.0s	20.00nm		4.9mb		
		i	55 00.00	447kmX		
		eS	59 12.00			
		i	01 45.00			
DZM	37.36 30	iPc	53 37.90	0.5		
MAW	37.72 219	eP	53 51.00	11.2X		
WP2	38.00 340	iPc	53 40.90	-1.8		
	0.5s	27.70nm		5.3mb		
MBL	40.94 319	eP	54 07.00	-0.1		
NVL	48.92 198	ePd	55 10.00	-0.3		
		e	55 15.00	17km		
		e	55 21.00			
		e	55 32.00			
		ePcP	56 36.00			
		e	57 31.00			
		e	57 42.00			
		ePPP	58 03.00			
		eS	02 22.00			
		e	05 30.00			
		eSS	06 09.00			
		e	06 51.00			
		e	09 11.00			
IPM	71.77 311	ePd	57 48.00	0.7		
CER	80.08 222	iPc	58 34.00	-0.1		
	0.8s	18.75nm		5.1mb		
FRS	80.93 228	eP	58 38.20	-0.4		
	0.8s	14.93nm		5.1mb		
		e	58 43.20	16km		
BLF	81.13 229	eP	58 44.50	4.6X		
SEK	81.21 231	iPc	58 44.50	4.2X		
	0.7s	20.55nm		5.3mb		
KHT	81.99 313	eP	58 45.50	1.4X		
BFT	82.45 234	iPd	58 48.50	1.6		
	1.0s	40.00nm		5.5mb		
PRY	82.50 231	e(P)	58 51.00	4.0X		
KSR	83.67 231	eP	58 54.50	1.4		
	1.0s	40.00nm		5.6mb		
BDT	84.05 314	eP	58 53.00	-1.6		
CHG	85.49 315	eP	59 05.00	3.1X		
	1.3s	32.69nm		5.4mb		
BUL	87.91 235	iPc	59 13.50	-0.6		
MTD	89.45 240	iPc	59 21.00	-0.4		
		ipP	59 25.20	13km		
GYA	89.75 324	P	59 27.00	4.6X		
KMI	89.83 320	Pd	59 27.50	4.5X		
	1.5s	50.00nm		5.5mb		
WIN	90.62 225	eP	59 15.20	-11.7X		
	1.2s	31.25nm				
GBA	90.66 294	Pd	59 27.50	0.8		
	1.0s	6.50nm		4.9mb		
MAT	93.25 353	eP	59 39.00	0.8		
		eS	10 54.00			
XAN	96 13 329	eP	59 52.00	0.5		
INK	137 39 33	ePKP	05 46.00	-0.7		
OHR	142.64 269	ePKP	05 58.70	1.6		
OBN	142.69 298	ePKP	05 54.00	-2.6X		

```
      Z  20s      0 40um          5.2Msz
                   e      06 50.00
                   LR     02 40.00
TDS    144.08 263 PKP    06 00.60   1.0
MBC    144.86  25 ePKP   05 58.00  -1.8
        1.5s    114.00nm
BZS    145.14 275 ePKP   06 00.00  -1.1
SGO    145.27 263 PKP    06 01.30  -0.2
BEO    145.28 273 ePKP   06 02.00   0.6
CBN    145.30 103 ePKP   06 02.00   0.4
DUI    146.50 264 PKP    06 07.80   4.1X
SDI    146.88 263 PKP    06 07.80   3.6X
AOU    147.54 264 PKP    06 12.20   6.9X
BUD    147.69 276 ePKP   06 10.00   4.8X
SPC    148.01 279 ePKP   06 07.00   1.0
SRO    148.28 276 ePKP   06 11.20   5.0X
ZAG    148.36 271 ePKP   06 10.00   3.6X
PTJ    148.43 271 ePKP   06 10.20   3.6X
VBY    148.57 270 e(PKP)06 10.80   4.1X
KRA    148.65 280 ePKP   06 12.00   5.3X
                   e      06 15.00
TIO    148.72 225 iPKP   06 16.50   8.9X
ZST    149.16 275 ePKP   06 12.60   5 0X
CEY    149.17 269 e(PKP)06 16.50   8.8X
LJU    149.30 270 e(PKP)06 14.00   6.1X
SFI    149.43 264 PKP    06 15.30   7.2X
TRI    149.52 269 ePKP   06 08.50   0.3
VOY    149.64 269 e(PKP)06 15.50   7.0X
PGF    150.08 260 ePKP   06 16.20   6.9X
        1.0s    22.00nm
IFR    150.11 231 ePKP   06 20.00  10.3X
                   i      06 22.00
KAF    150.49 305 iPKP   06 15.40   6.3X
KBA    150.58 271 iPKPd  06 15.50   5.5X
        1.2s    20.30nm
                   ic     06 16.90
                   i      06 23.60
FVI    150.60 269 PKP    06 17.40   7.7X
NUR    150.77 302 ePKP   06 16.00   6.4X
        1.0s    42.00nm
                   i      06 20.80
AVE    150.87 227 ePKP   06 19.00   8.4X
KSP    151.05 279 ePKP   06 17.80   7.5X
SOD    151.47 316 iPKP   06 18.60   8.2X
PRU    151.55 277 ePKP   06 18.10   7.0X
KEV    151.57 321 iPKP   06 17.60   7.1X
KHC    151.62 274 PKP    06 19.60   8.3X
                   e      06 25.50
WTTA   151.63 270 iPKPd  06 14.50   2.9X
        1.2s    32.20nm
                   i      06 20.20
BRG    152 34 278 ePKP   06 21.20   9.0X
CLL    153.07 278 ePKP   06 21.00   7.8X
        1.3s    21.00nm
GRF    153.22 274 e(PKP)06 22.00   8.5X
      Z  19s      0.30um          5.1Msz
MOX    153.50 276 ePKP   06 24.30  10.4X
TOL    154 87 240 ePKP   06 30.50  14.4X
                   ePKKP  06 49.00
      S.D  = 1.1  on  36 of  81 obs.
-------------------------------------
    SEP  25, 1991  21h 21m 47.74± 0.67s
    38.008 N ± 5.9km   15.991 E ± 6.1km
    DEPTH =  22.3 ±  3.8 km
    3.5mb (  2 obs.)
 SICILY                              (398)
      ML 3.3 (ROM).

SOI      0.08   38 Pd     21 49.90   -2.0
                   eSg    21 53.20
GMB      0.19  328 P      21 52.34   -0.8
MSI      0.39  300 P      21 55.80   -0.3
ATN      0.44  290 Pc     21 56.30   -0.6
                   eSg    22 05.20
GIO      0.83  238 P      22 04.96    1.6
MNO      1.03  266 P      22 07.30    0.5
                   eSg    22 21.90
CZI      1.21    5 P      22 09.20   -0.2
MEU      1.24  223 P      22 09.70   -0.1
                   eSg    22 27.80
PZI      1.30  222 P      22 09.68   -0.9
ACI      1.35    7 P      22 12.30    1.0
GIB      1.55  270 P      22 15.60    1.3
ROI      1.63   16 P      22 16.90    1.6
TDS      1 67    9 P      22 16.50    0.6
CSI      1.78    7 P      22 18.90    1.3
MMN      1 88  360 P      22 19.20    0.3
MGR      2.15  351 P      22 22.70   -0.2
                   eSn    22 51.00
USI      2.32  288 P      22 24.70   -0.5
SGO      2.60  348 P      22 29.90    0.6
LCI      2.78   33 P      22 32.40    0.6
BRT      3.02   18 P      22 34.80   -0.3
BAI      3.18   12 P      22 37.00   -0.5
DUI      3.83  343 P      22 46.70   -0.1
SDI      4.06  336 P      22 49.70   -0.3
AOU      4.77  336 P      22 59.60   -0.5
OHR      4.84   49 ePn    23 01.50    0.4
EKA     21.62  329 P      26 38.00   -0.1
        2.0s    33.10nm          4.4mb X
HFS     22.19  357 eP     26 40.90   -2.9X
        0.5s     1.00nm          3.5mb
NB2     23.25  354 P      26 52.10   -2.1
        0.4s     0.60nm          3.5mb
      S D. = 1.0  on  27 of  28 obs.
-------------------------------------
&  SEP  25, 1991  21h 54m 32 00s
    36.747 N          121.495 W
    DEPTH =   6.0km
 CENTRAL CALIFORNIA                  ( 39)
      <BRK>. ML 2.9 (BRK). Felt (III)
      at Aromos. Also felt at
      Hollister.

SAO      0.04   66 iPc    54 33.22   -0.3
PRS      0.43  166 iPd    54 40.33   -0.3
                   i      54 46.65
LLA      0.46  106 iPd    54 40.96   -0.3
                   i      54 46.49
GCC      0.49  305 iPc    54 41.58   -0.3
                   i      54 51.94
ARN      0.60  357 iPc    54 43.61   -0.5
MHC      0.61  349 ePd    54 44.10    0.0
                   eS     54 53.00
PRI      0.90  132 eP     54 49.52   -0.2
                   i      55 04.07
PCC      1.03  317 iPd    54 50.62   -1.2
                   i      55 05.47
PHAM     1.27  135 iPd    54 54.40   -1.5
PKEM     1.31  121 eP     54 58.51    1.9
ZSP      1.34  333 eP     54 55.12   -2.0
FRI      1.45   80 iPd    54 56.61   -2.2
                   eS     55 16.06
CMB      1.56   34 iPd    54 58.56   -1.8
BCH      1.93  143 eP     55 03.15   -2.7
ABL      2.65  135 eP     55 12.69   -3.5
ORV      2.80  360 ePn    55 17.53   -0.7
BONR     2.82   64 ePn    55 18.44   -0.2
      17 obs  associated
-------------------------------------
%  SEP  25, 1991  22h 24m 20.72± 0.88s
    41.111 N ±14.5km   22.079 E ± 4.5km
    DEPTH =   5.0km  (geophysicist)
 NORTHWESTERN BALKAN REGION          (383)

GRG      0.29  122 iPd    24 26.46   -0.1
                   iS     24 30.24
KNT      0.62   85 ePd    24 33.04   -0 1
                   eS     24 41.44
FNA      0.62  239 iPc    24 33.44    0.2
OHR      0.97  270 ePg    24 39.40   -0 2
                   eSg    24 53.00
SOH      1.01  106 ePc    24 40.04   -0.3
                   eS     24 52.56
SRS      1.14   89 ePd    24 43.04    0.5
      S.D. = 0.4  on   6 of   6 obs.
-------------------------------------
?  SEP  25, 1991  22h 39m 02.28± 8.46s
     4.299 N ±44.4km   77.081 W ±63.6km
    DEPTH =  33.0km  (normal)
 NEAR WEST COAST OF COLOMBIA         (102)
      MD 2.5 (UVC).

CLMC     0.66  129 eP     39 15.73    0.4
ANCC     0.81  165 iPd    39 17.57    0.3
                   eS     39 26.60
HOOC     0.94  152 eP     39 18.73   -0.6
                   eS     39 28 60
HOBC     0.94   87 eP     39 19 22   -0.1
                   eS     39 29.50
      S.D. = 0.8  on   4 of   4 obs
-------------------------------------
%  SEP  25, 1991  22h 40m 45 82± 0.79s
    44.184 N ± 9.8km    7.558 E ± 6.4km
    DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                      (545)
      ML 1.8 (GEN).

ENR      0.11  293 P      40 48.42   -0.3
                   S      40 50.26
STV      0.18  290 P      40 49.85    0.0
                   S      40 52.31
ROB     -0.25   64 P      40 51.08   -0.1
                   S      40 55.18
IMI      0.36  139 P      40 53.44    0.1
                   S      40 58.77
PZZ      0.46  315 P      40 55.49    0.3
                   S      41 01.64
      S.D. = 0.3  on   5 of   5 obs.
-------------------------------------
?  SEP  25, 1991  22h 42m 35.30± 5.18s
    41.720 N ±35.3km   23.050 E ±11.1km
    DEPTH =   5.0km  (geophysicist)
 GREECE-BULGARIA BORDER REGION       (363)

KNT      0.57  192 iPc    42 46.82    0.1
SRS      0.73  146 ePc    42 49.29   -0.6
                   eS     43 03.98
GRG      0.91  213 ePd    42 52.62   -0.5
                   eS     43 06.78
SOH      0.93  166 ePc    42 53.38   -0.1
                   eS     43 09.46
                   eS     43 09.97
THE      1.09  183 ePd    42 56.82    0.6
OUR      1.55  153 iPd    43 04.10    0.5
      S.D. = 0.6  on   6 of   6 obs.
-------------------------------------
?  SEP  25, 1991  23h 11m 33.52± 4.83s
    39.641 N ±37.2km   27.838 E ±18.5km
    DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)

EDC      0.71    2 iPg    11 47.00   -0.4
                   eSg    11 57.50
KGT      0.91  333 iPg    11 51.10    0.2
                   eSg    12 03.60
IZI      1.44   61 iPn    11 59.20   -0.5
YLV      1.50   51 ePn    12 00.00   -0.5
CTT      1.57   17 ePn    12 01.60    0.1
ISK      1.70   33 ePn    12 04.00    0.6
HRT      1.83   49 ePn    12 06.00    0.7
DMK      2.18  358 ePn    12 10.00   -0.3
      S.D. = 0.6  on   8 of   8 obs.
-------------------------------------
    SEP  25, 1991  23h 37m 18.97± 0.51s
    43.276 N ± 5.5km    7.093 W ±10.6km
    DEPTH =  11.0 ±  9.5 km
 SPAIN                               (377)
      mbLg 3.3 (MDD). ML 3.3 (LDG).
      Felt (III) at Castroverde.

ERUA     0 88  182 iP     37 36.49    0.6
                   eS     37 44.40
STS      1.14  250 iP     37 41.51    1.3
                   eS     37 54.40
EZAM     1.63  227 eP     37 46.78   -0.9
                   eS     38 03.20
EPLA     3.30  166 eP     38 10.87   -0.7
                   eS     38 44.90
GUD      3.42  139 eP     38 13.45    0.0
                   eS     38 52.50
ECRI     3.43  100 eP     38 17.39    3.9X
                   eS     38 57.20
TOL      4.09  145 e(Pg)  38 37.50   14.8X
                   eSg    39 30.00
EPF      5.44   90 Pn     38 44.70    2.7X
                   Sn     39 42.40
LFF      5.88   71 Pn     38 49.60    1.5
MFF      5.95   54 Pn     38 49.60    0.6
                   Sn     39 53.00
LPO      6.14   74 Pn     38 53.00    1.3
                   Sn     39 58.00
LPF      6.37   40 Pn     38 55.10    0.1
                   Sn     40 03.30
RJF      6.50   69 Pn     38 57.00    0.1
                   Sn     40 06.30
GRR      6.71   38 Pn     38 59.80   -0.1
                   Sn     40 10.20
CAF      6 80   73 Pn     39 01.60    0.5
                   Sn     40 13.00
LSF      6.82   61 Pn     39 01.60    0.2
```

25d 23h

			Sn	40 13.20		
FLN	7.16	38	Pn	39 05.80	-0.3	
LDF	7.20	40	Pn	39 06.40	-0.3	
TCF	7.27	62	Pn	39 07.70	0.0	
			Sn	40 24.00		
MAF	7.48	63	Pn	39 10.20	-0.4	
BGF	7.78	62	Pn	39 14.80	0.0	
			Sn	40 37.00		
AVF	8.19	61	Pn	39 20.00	-0.5	
SSF	8.39	60	Pn	39 23.60	0.3	
SMF	8.45	63	Pn	39 23.20	-1.0	
LBF	8.66	61	Pn	39 26.50	-0.6	
LOR	8.69	59	Pn	39 26.60	-1.0	

S.D. = 0.8 on 23 of 26 obs.

% SEP 25, 1991 23h 54m 22.45± 0.90s
36.984 N ±10.0km 29.455 E ± 6.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ELL	0.43	123	iPg	54 31.00	-0.3	
			eSg	54 37.50		
YER	0.95	279	iPn	54 40.60	0.0	
BCK	1.02	62	iPn	54 42.50	0.7	
CIN	1.25	300	eP	54 46.00	0.3	
KHL	1.34	2	ePn	54 46.50	-0.7	

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

% SEP 26, 1991 00h 19m 46.60± 1.86s
40.175 N ±18.0km 27.893 E ± 6.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

KGT	0.53	302	iPg	19 57.00	-0.3	
			iSg	20 06.60		
MFT	0.77	323	iPg	20 02.10	0.4	
			iSg	20 12.10		
CTT	1.05	23	iPn	20 06.10	-0 4	
IZI	1.22	82	ePn	20 09.10	-0.3	
ISK	1.26	45	ePn	20 10.00	0.1	
HRT	1.50	64	ePn	20 14.00	0.4	

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

? SEP 26, 1991 00h 37m 54.72± 0.97s
15.575 N ±13.3km 77.676 W ±40.9km
DEPTH = 10.0km (geophysicist)
CARIBBEAN SEA (94)
MD 4.3 (HOJ).

PCJ	2.21	13	Pnc	38 31.48	-0.5	
			Pg	38 38.34		
SPJ	2.41	3	eP	38 36.21	1.3	
YHJ	2.57	26	Pnc	38 37.52	0.5	
			Pg	38 45.18		
			S	39 11.59		
STH	2.62	18	ePc	38 37.82	0.0	
			S	39 14.56		
GWJ	2.64	20	eP	38 38.38	0.1	
			S	39 13.49		
BBJ	2.82	8	Pn	38 39.33	-1.4	
			Pg	38 46.84		
UPA	6.80	196	ePc	39 37.00	0.0	

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

SEP 26, 1991 01h 18m 00 22± 0.45s
47.985 N ± 5.9km 6.459 E ± 3.5km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.8 (LDG), 2.4 (STR).

HAU	0.08	286	Pg	18 04.20	1 5	
			Sg	18 06.60		
BSF	0.27	124	Pg	18 07.31	1 3	
VITF	0.39	306	Pg	18 09.06	0.8	
			Sg	18 14 38		
MOF	0.47	106	Pg	18 10.46	0.6	
LOMF	0.68	158	Pg	18 15.63	1.8X	
CDF	0.69	52	Pg	18 13.08	-0 9	
FEL	1.05	95	Pg	18 20.61	0.5	
			Sg	18 34.68		
GWF	1.26	37	Pg	18 22.22	-1.4	
			Sg	18 38 22		
SLE	1.39	98	ePc	18 26.00	0.4	
ZLA	1.40	110	ePc	18 28.00	2.2X	
LOR	1.90	249	Pn	18 33.20	0.2	
			Pg	18 38.00		
			Sg	19 02.80		
LBF	1.96	240	Pn	18 34.40	0.5	
			Pg	18 39.60		
			Sg	19 04.80		
SSF	2.20	246	Pn	18 37.60	0.2	
			Pg	18 44.00		
			Sg	19 12.00		
SMF	2.23	234	Pn	18 37.60	-0.2	
			Pg	18 44.30		
			Sg	19 13.00		
AVF	2.43	242	Pn	18 40.00	-0.5	
			Pg	18 43.00		
			Sg	19 19.60		
LPL	2.48	176	Pn	18 40.00	-1.5	
			Pg	18 47.80		
			Sg	19 20.00		
BGF	2.84	241	Pn	18 45.80	-0.7	
			Pg	18 55.20		
			Sg	19 33.20		
MAF	3.19	238	Pg	19 02.20	10.8X	
			Sg	19 43.40		
TCF	3.36	241	Pn	18 53.00	-0.8	
			Pg	19 05.20		
			Sg	19 48.20		

S.D. = 1.0 on 16 of 19 obs.

? SEP 26, 1991 02h 39m 40.59± 7.31s
33.114 S ±15.1km 70.381 W ±32.8km
DEPTH = 107.2 ± 58.3 km
CHILE-ARGENTINA BORDER REGION (127)

PEL	0.26	263	iPc	39 56.00	-0.3	
			iS	40 07.50		
SAN	0.41	215	eP	39 57.00	0.2	
			iS	40 09.30		
JACH	0.47	337	iPc	39 57.00	-0.3	
			iS	40 09.00		
PCH	0.52	192	iPd	39 58.00	0.4	
			iS	40 11.00		
TACH	0.71	221	iPd	39 59.00	0.0	
			iS	40 12.50		
CHCH	0.85	195	iPc	40 00.50	0.1	
			iS	40 16.00		
LCCH	1.06	250	eP	40 02.00	-0.5	
			iS	40 19.50		
IHA	1.06	274	e(P)	40 03.30	0.8	
LNV	1.20	225	iPd	40 03.60	-0.4	
			iS	40 21.50		

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

---

* SEP 26, 1991 03h 02m 20.50± 2.01s
16.979 N ±15.5km 61.555 W ±12.8km
DEPTH = 63.0 ± 17.8 km
LEEWARD ISLANDS (92)

BPA	0.30	283	eP	02 30.65	-0.4	
			S	02 37.60		
SEG	0.57	175	eP	02 33.83	0.2	
			S	02 42.40		
MGH	0.68	248	eP	02 34.59	-0.4	
			S	02 44.20		
DEG	0.81	144	iP	02 36.81	0.2	
			S	02 48.00		
DOG	0.94	184	eP	02 38.31	0.1	
			S	02 51.40		
PAG	0.95	187	eP	02 38.41	0.1	
			S	02 51.60		
NEV	0.98	279	eP	02 39.21	0.5	
			S	02 52.50		
MGG	1.08	168	eP	02 40.28	0.3	
			S	02 54.00		
BBL	1.45	177	eP	02 45.07	0.1	
			S	03 02 10		
FDF	2.27	170	eP	02 51.91	-4.5X	
	0.1s		0.89nm			
			S	03 19.10		
CRM	2.30	164	eP	02 56.17	-0.6	
BIM	2.49	169	iPd	02 59.73	0.2	
			S	03 28.00		
MVM	2.49	165	eP	02 59.21	-0.3	
			S	03 27 40		

S.D. = 0.4 on 12 of 13 obs

SEP 26, 1991 03h 58m 01.51± 0.28s
44.418 N ± 2.2km 7.301 E ± 2.8km
DEPTH = 12 3 ± 3.0 km
NORTHERN ITALY (545)
ML 2 6 (LDG), 2 5 (GEN).

DOI	0.09	335	P	58 04.80	0.2	
			eSg	58 07.10		
PZZ	0.17	301	P	58 05.65	0.0	
			S	58 08.02		
STV	0.18	174	P	58 05.78	0 0	
			S	58 08.31		
ENR	0.21	156	P	58 06.34	0.0	
BHB	0.42	356	P	58 09.53	-0.7	
			S	58 15.25		
ROB	0.43	107	P	58 10.60	0.3	
			S	58 16.62		
SBF	0.56	170	Pg	58 13.00	0.2	
			Sg	58 20.00		
RRL	0.62	324	P	58 13.72	-0.2	
			S	58 22.36		
IMI	0.66	140	P	58 14.16	-0.4	
			S	58 23.08		
CKI	0.70	89	P	58 15.80	0.6	
			eSg	58 24.50		
RSP	0.73	358	P	58 15.53	-0.3	
			S	58 25.85		
BNI	0.78	325	P	58 17.30	0.8	
			eSg	58 25.60		
PCP	0.90	82	P	58 18.84	0.3	
			S	58 30.85		
FRF	0.98	209	Pg	58 19.80	-0.1	
			Sg	58 32.60		
LPG	1.15	340	Pg	58 22.90	-0.1	
			Sg	58 38.00		
LPL	1.17	340	Pg	58 23.40	0.1	
LRG	1.18	216	Pg	58 23.40	0.1	
			Sg	58 39.00		
LMR	1.23	208	Pg	58 24.20	0.1	
			Sg	58 39.60		
CDR	1.33	237	eP	58 26.10	0.3	
			e	58 43.10		
PGF	2.24	146	Pn	58 38.00	-1.0	
BGF	3.79	306	Pn	59 00.80	-0.2	

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

SEP 26, 1991 04h 04m 58.91± 0.53s
43.280 N ± 3.8km 12.828 E ± 6.2km
DEPTH = 5.0km (geophysicist)
CENTRAL ITALY (381)

ARV	0.23	21	Pc	05 03.60	-0.1	
			eSg	05 07.30		
ASS	0.24	210	Pc	05 04.70	0 8	
			eSg	05 09.90		
RSM	0.70	337	P	05 13.50	0.5	
CRE	0.73	299	P	05 12.80	-0.7	
			eSg	05 25.30		
MNS	0.90	187	Pd	05 16.20	-0.5	
			eSg	05 32.70		
SFI	0.96	312	P	05 17.20	-0.3	
			eSg	05 33.90		
PGD	1.00	307	P	05 19.60	1.1	
AOU	1.02	155	P	05 18.50	-0.2	
SDI	1.73	155	P	05 30.00	0.1	
BDI	1.80	297	P	05 29.90	-1.0	
TRI	2.52	15	eP	06 12.50	31.4X	
FVI	3.31	359	P	05 52.50	0.1	

S.D. = 0.7 on 11 of 12 obs.

---

* SEP 26, 1991 05h 33m 10.88± 1.15s
6.885 S ± 9.4km 125.243 E ±14.0km
DEPTH = 556.3 ± 20.9 km
5.0mb (8 obs.)
BANDA SEA (280)

MTN	8.29	136	eP	35 12.20	-0.3	
	0.3s		85.00nm		5.4mb	
KNA	9.46	159	iPd	35 24.30	0.1	
MBL	15.13	200	eP	36 21.50	0.4	
WR2	15.72	147	iPc	36 27.20	0.3	
	0.2s		47.30nm		5.7mb	
			iS	39 07.20		
ASPA	18.65	154	iPd	36 55.70	0.5	
	0 3s		52.00nm		5.6mb	
			eS	39 55.70		
WARB	19.24	176	eP	37 01.00	0.2	
	0.4s		6.00nm		4.6mb	
OIS	19.45	136	iPc	37 02.60	-0.2	
	0 2s		12.00nm		5.2mb	
FORR	23.99	174	eP	37 42.00	-2.0	
BAL	24.92	198	eP	37 52.00	-0.3	
NWAO	26.96	195	eP	38 09.90	-0.2	

```
RKG    28.58 194 eP     38 25.00    0.8
STK    29.18 151 iPc    38 30.00    0.6
       0.6s     14.60nm          4.8mb
GUN    51.40 314 P      41 27.00   -0.2
PKI    51.54 313 P      41 28.20    0.1
       0.4s      7.00nm          4.4mb
KKN    51.76 314 P      41 30.00    0.4
GKN    52.34 313 P      41 33.40   -0 3
       0.4s     12.00nm          4.6mb
     S.D. = 0.7  on  16 of  16 obs
-----------------------------------------
   SEP 26, 1991  05h 59m 18.66± 0.24s
   16.130 N ± 3.8km   98.237 W ± 3.6km
   DEPTH =  19.4km  (  8 depth phoses)
   5.3mb ( 36 obs.)  4.7Msz (  5 obs.)
 NEAR COAST OF GUERRERO, MEXICO  ( 58)
      CENTROID, MOMENT TENSOR     (HRV)
      Doto Used: GDSN
      L.P.B.: 14S, 24C
      Centroid Locotion:
      Origin Time        05:59:23.0 1.1
      Lot 16.06N 0.11 Lon  98.04W 0.12
      Dep  15.0 FIX Half-duration  1.5
      Moment Tensor:    Scole 10**16 Nm
        Mrr= 4.20 0.47   Mtt=-6.10 0.53
        Mff= 1.91 0.60   Mrt= 5.24 1.76
        Mrf=-1.96 1.34   Mtf= 0.29 0.51
       Principol Axes:
        T  Vol=  6.97   Plg=62   Azm= 42
        N         1.44        15       283
        P        -8.41        23       186
      Best Double Couple:Mo=7.7*10**16
       NP1:Strike=249 Dip=25 Slip=  54
       NP2:       108      70       106

VHO     1.72  57 iP     59 49.00    1.0
                (S)    00 24.00
III     2.52 332 iP     00 00.00    0.4
                iS     00 30.00
IIT     2.88 359 iP     00 05.50    0.9
PUE     2.90   1 (P)    00 06.50    1.6
                (S)    00 44.00
PPM     2.94 353 iP     00 05.50   -0.3
                iS     00 40.00
IISM    2.96  16 iP     00 07.00    1.5
UNM     3.31 344 (P)    00 17.00    6 2X
                (S)    01 03.00
LVVM    3.97  25 eP     00 19.00   -0.9
                iS     01 08.50
MRX     4.53 322 eP     00 26.50   -1.4
SCX     5.41  83 (P)    00 41.50    1.2
TPX     5.89 101 (P)    00 45.00   -2 1
CGX     6.11 306 eP     00 51.00    0.6
AGX     6.89 327 (P)    00 57.00   -4.1X
MEO    18.58 359 iPd    03 35.10   -1.5
UPA    19.58 109 ePd-   03 49.80    1.1
SIO    19.61   5 eP     03 48.40   -0.6
TUL    19.82   6 ePc    03 49.00   -2.1
       1 2s    174.50nm          5.2mb
     Z 18s      1.16um          4.6MszX
                eS     07 35.00
                LR     09 52.00
ALQ    20.13 340 eP     03 53.70   -1.0
       1.2s    140.63nm          5.2mb
                e      04 00.00   24km
                e      04 05.00
OLY    20.22  16 P      03 54.10   -1.2
ACO    20.50 358 iPd    03 58.20   -0.1
PWLA   20.87  24 P      04 01.00   -1 0
LST    21 67  19 P      04 09.90   -0.3
ELC    22.53  19 P      04 18.20   -0.5
GLA    22.56 321 eP     04 20.00    0.9
FVM    22.83  16 P      04 21.80    0.1
       1.0s    100.00nm          5.3mb
                pP     04 27.80   22km
GBTN   23.14  30 P      04 25.50    0.8
TKL    23.34  31 P      04 25.60   -1.1
BAR    23.46 318 eP     04 29.00    1.1
PLM    24.02 319 eP     04 34.00    0.5
GOL    24.30 347 P      04 37.00    0.8
       1.0s     83.75nm          5.3mb
                pP     04 42.30   19km
ANCC   24.47 119 eP     04 38.36    0.5
CLMC   24.53 117 eP     04 39.54    0.9
PEC    24.56 320 P      04 39.50    0.9
HOBC   24.66 116 eP     04 37.88   -1.9
RVR    24.76 319 eP     04 41.00    0.5

SSK    25.10 319 P      04 44.30    0.4
CUMC   25.11 125 eP     04 45.78    1.3
GSC    25.30 322 eP     04 46.00    0.3
MWC    25.34 319 eP     04 49.00    2.8X
PAS    25.36 319 eP     04 40.00   -6.2X
PSO    25.40 124 eP     04 48.50    1 4
MSU    25.44 334 P      04 48.10    0.9
SBB    25.50 320 eP     04 48.00    0.5
PURC   25.54 120 ePd    04 49.31    0.7
CLC    26.12 322 eP     04 54.00    0.7
BMG    26.21 107 iPc    04 55.00    0.6
BLA    26.26  34 P      04 53.80   -0.7
BOG    26.34 113 eP     05 02.00    6.1X
                eS     09 40.00
ABL    26.48 319 P      04 57.10    0.3
DAU    26.71 338 P      04 59.60    0.6
DUG    27.13 335 P      05 03.50    0.9
BCH    27.24 318 P      05 04.10    0.5
PHAM   27.85 319 P      05 10.10    1.1
CVL    27.88  35 P      05 10.70    1.4
BONR   28.02 325 P      05 10.90    0.0
BW06   28.27 342 P      05 12.60   -0.5
       1.3s     42.35nm          5.0mb
RSSD   28.33 351 P      05 13.00   -0.6
       1.8s     89.29nm          5.2mb
NA2    28.38  36 P      05 14.10    0.3
HVU    28.46 337 P      05 14.50   -0.2
CBN    28.65  36 eP     05 17.00    0.8
PTI    29.26 338 P      05 22.80    0.9
CMB    29.27 322 P      05 21.80   -0.1
ARN    29.51 320 P      05 24.00    0.0
HPI    30.26 338 P      05 31.00    0.1
ORV    30.93 324 P      05 36.90    0.3
LRM    31.91 341 eP     05 45.40    0.0
TBR    32.43  35 P      05 48.60   -1.1
DPW    35.67 337 P      06 17.70    0.1
SES    35.71 346 eP     06 18.00    0.1
LON    36.27 332 P      06 22.80    0.1
RMW    36.81 333 P      06 27.30    0.1
GMW    37.31 332 P      06 30.80   -0.6
PNT    37.40 337 eP     06 32.00   -0.1
       0.9s     29.00nm          5.1mb
MCW    38.19 334 P      06 38.40   -0.3
FFC    38.62 357 eP     06 42.00   -0.3
       1.1s     40.00nm          5.1mb
ZOBO   43.81 136 P      07 25.00   -0.9
     Z 24s      0.50um          4.3MszX
                S      14 08.00
                LR     22 40.00
LPB    44.01 136 P      07 27.00   -0.4
     Z 18s      1.03um          4.8Msz
                LR     22 50.00
CNCB   44.29 136 P      07 31.60    1.8
SCH    45.60  25 ePc    07 39.00   -0.2
       1.2s     79.00nm          5.5mb
YKA    47.72 350 eP     07 55.50   -0.4
       1.1s     15.70nm          5.0mb
SIV    48.62 129 P      08 01.50   -1.9
BALM   54.75 335 P      08 49.70    0.5
INK    56.77 345 eP     09 03.00   -0.5
       1.1s     50.00nm          5.5mb
TOA    56.87 335 eP     09 05.20    0.8
SLKM   57.80 333 P      09 10.00   -0.9
                pP     09 15.40   18km
PMR    57.83 334 eP     09 09.60   -1.4
       0.9s     20.30nm          5.2mb
                e      09 15.80   20km
RSO    58.92 332 P      09 17.80   -1.1
FBA    58.96 338 ePc    09 18.40   -0.5
       1.0s     24.60nm          5.3mb
                e      09 23.60   17km
PPD    59.60 128 eP     09 20.90   -3.0X
SVW    60.47 332 eP     09 27.90   -1.5
                e      09 33.60   19km
MBC    61.14 354 ePd    09 32.60   -1.1
       1.2s     58.00nm          5.6mb
TTA    61.32 334 ePc    09 34.10   -1.1
       1.0s     17.80nm          5.2mb
                e      09 39.40   17km
IMA    61.67 338 ePc    09 36.60   -1 0
       1.0s      5.60nm          4.7mb
SOB1   62.09 110 eP     09 39.50   -1.5
EKA    79.75  35 Pd     11 27.00    0.2
       1.1s     12.50nm          4.8mb
LPF    82.89  42 eP     11 43.60    0.2
       1.0s     26.00nm          5.3mb
GRR    82.90  42 iPc    11 43.90    0.4

       1.0s     24.00nm          5.3mb
FLN    83.04  41 iPc    11 44.70    0.5
       1.0s     28.00nm          5.4mb
     Z 20s      0.47um          4.9Msz
LDF    83.32  41 eP     11 46.10    0.5
       1.1s     14.65nm          5.1mb
LFF    84.96  45 eP     11 54.70    0.8
       1.1s     22.00nm          5.3mb
LSF    85.09  43 iPc    11 54.80    0.2
       1.3s     36.10nm          5.4mb
NB2    85.10  27 P      11 54.80    0.4
       1.3s     15.90nm          5.1mb
EPF    85.26  47 eP     11 56.40    0.8
       1.2s     35.70nm          5.5mb
LPO    85.34  45 eP     11 56.50    0.6
       1.2s     29.75nm          5.4mb
RJF    85.37  44 iPc    11 56.50    0.5
       1.1s     34.20nm          5.5mb
     Z 20s      0.32um          4.7Msz
TCF    85.52  43 iPc    11 57.10    0.3
       1.1s     30.50nm          5.4mb
MAF    85.78  43 iPc    11 58.40    0.3
       1.1s     37.85nm          5.5mb
BGF    85.85  43 iPc    11 58.50    0.1
       1.3s     36.10nm          5.4mb
CAF    85.86  44 iPc    11 58.70    0.2
       1.2s     19.35nm          5.2mb
AVF    86.11  42 iPc    11 59.50   -0.1
       1.1s     15.85nm          5.1mb
SSF    86.12  42 iPc    11 59.90    0.2
       1.1s     26.85nm          5.4mb
LOR    86.27  42 iPc    12 00.90    0.4
       1.0s     34.00nm          5.5mb
     Z 20s      0.22um          4.6Msz
LBF    86.45  42 eP     12 01.40    0.0
       1.1s     17.10nm          5.2mb
SMF    86.47  42 iPc    12 01.30   -0.2
       1.1s     11.00nm          5.0mb
HAU    87.59  41 eP     12 16.80    9.9X
     Z 20s      0.32um          4.7Msz
BSF    87.93  41 eP     12 08.10   -0.5
CDF    88.02  40 eP     12 08.60   -0.4
KIC    91.60  83 P      12 25.70   -0.5
STK   123.78 242 ePKP    18 18.30    1.0
       0.9s      1.20nm
WR2   130.00 257 ePKP    18 28.30   -1.3
       1.0s      4.70nm
ASPA  130.62 252 ePKP    18 30.00   -0.7
       1.1s      5.40nm
POO   144.69  13 iPKPd   18 53.60   -3.0X
KHT   145.07 331 ePKP    18 56.40   -0.9
HYB   146.52   6 ePKP    18 58.00   -1.7
GBA   150.15   8 PKPc    19 09.10    3.7X
       1.0s     23.80nm
     S.D. = 0.9  on 116 of 125 obs.
-----------------------------------------
   SEP 26, 1991  06h 45m 55.82± 0.71s
   40.466 N ± 6.7km   29.243 E ± 5.1km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)

YLV     0.14  45 iPg     45 58.60   -0.6
IZI     0.22 126 iPg     46 00.10   -0.5
                eSg     46 03.10
GBZT    0.36  25 ePg     46 04.00    0.8
                iSg     46 10.30
HRT     0.48  42 ePg     46 05.10   -0.5
                eSg     46 13.10
GPA     0.83 102 ePn     46 12.80    0.8
CTT     0.92 318 iPg     46 13.60    0.2
                iSg     46 26.60
EDC     1.06 264 ePn     46 16.00    0.2
DMK     1.76 321 ePn     46 26.00   -0.5
     S.D. = 0.7  on   8 of   8 obs.
-----------------------------------------
   SEP 26, 1991  07h 29m 09.02± 0.46s
   46.192 N ± 5.5km    7.455 E ± 4.2km
   DEPTH =  16.4 ±  5.6 km
 SWITZERLAND                     (544)
      ML 2 8 (LDG).

DIX     0.12 195 iPc     29 12.70   -0.4
MMK     0.38 111 iPd     29 16.30   -0.8
EMS     0.38 252 iPd     29 16.70   -0.4
LPL     0.84 217 Pg      29 25.40    0.4
LPG     0.85 216 Pg      29 25.70    0.5
                Sg      29 38.00
```

26d 07h

TMA	0.99	95	ePd	29 27.00	-0.5	
LLS	1.26	57	ePc	29 30.80	-1.2	
VDL	1.43	77	ePd	29 34.80	0.4	
ZLA	1.44	26	ePd	29 34.70	0.3	
BSF	1.70	345	Pg	29 39.20	0.9	
			Sg	30 00.00		
FEL	1.73	13	ePn	29 36.58	-2.1	
SLE	1.73	24	ePc	29 40.00	1.4	
OSS	1.92	74	ePd	29 43.80	2.2	
HAU	1.97	338	Pg	29 44.00	2.0	
			Sg	30 08.00		
CDF	2.22	357	Pn	29 43.80	-2.0	
			Sg	30 15.60		
LBF	2.53	290	Pn	29 50.20	0.2	
			Pg	29 56.60		
			Sg	30 26.80		
SMF	2.54	282	Pn	29 49 80	-0 4	
			Pg	29 57.70		
			Sg	30 28.00		
LOR	2.70	295	Pn	29 52.40	-0.1	
			Pg	29 59.60		
			Sg	30 32.00		
SSF	2.86	289	Pn	29 54.20	-0.5	
			Sg	30 37.10		
AVF	2.90	283	Pn	29 55.00	-0.2	
			Sg	30 39.20		
MAF	3.39	272	Pn	30 01.40	-0.9	
			Pg	30 13.40		
			Sg	30 56.20		
TCF	3.64	273	Pn	30 07.20	1.3	
			Sg	31 03.20		

S.D. = 1.2 on 22 of 22 obs.

% SEP 26, 1991 07h 29m 28.60± 1.89s
18.280 N ± 8.5km 67.161 W ±14.9km
DEPTH = 10.0km (geophysicist)
MONA PASSAGE (89)

MCP	0.15	19	P	29 32.20	0.2	
MGP	0.28	166	P	29 34.30	-0.2	
LRS	0.30	87	P	29 36.10	1.2	
APR	0.44	67	P	29 36.50	-1.1	
CLLP	0.59	110	P	29 40.30	-0.2	
LPR	1.23	88	P	29 46.80	-4.7X	

S.D. = 1.2 on 5 of 6 obs.

? SEP 26, 1991 07h 33m 35.83±15.06s
39.724 N ±123.km 29.000 E ±32.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZI	0.71	31	ePn	33 49.60	-0.3	
YLV	0.89	19	ePn	33 52.60	-0.3	
			eSg	34 07.60		
EDC	1.07	306	ePn	33 56.00	0.0	
HRT	1.21	25	ePn	33 59.00	0.6	

S.D. = 0.8 on 4 of 4 obs.

? SEP 26, 1991 07h 40m 36.19± 3.81s
10.263 S ±36.9km 160.305 E ±58.0km
DEPTH = 90.1 ± 30.1 km
4.1mb (5 obs.)
SOLOMON ISLANDS (193)

HNR	0.90	337	eP	40 55.00	0 0	
			iS	41 16.00		
CTAO	16.70	233	iPc	44 26.00	-0 1	
	0 8s		20.69nm		4.4mb	
RMO	19.49	213	iPc	45 04 40	5.7X	
	1 0s		98.00nm		5.1mb	
OIS	22.40	240	iPc	45 28.80	0 6	
WR2	26 80	246	iPc	46 08 80	-1 0	
	1.1s		4.30nm		3 9mb	
STK	27.62	216	eP	46 16.90	-0.2	
	0.6s		1 00nm		3.6mb	
ASPA	28 49	239	eP	46 25.90	0.8	
	1 1s		4.60nm		4.0mb	
Z	21s		0.60um		4.2Msz	
SOB1	151.38	132	ePKP	00 13.00	-2.6X	

S.D. = 1.0 on 6 of 8 obs.

SEP 26, 1991 07h 56m 43.07± 0.75s
30.477 S ± 4.7km 72.024 W ±10.6km
DEPTH = 40 9 ± 8.9 km
4.5mb (5 obs.)
OFF COAST OF CENTRAL CHILE (134)

JACH	2.52	151	iPc	57 24.00	1.5	
			iS	57 58.00		
IHA	2.56	173	eP	57 23.00	0.0	
			iS	58 08.50		
PEL	2.89	157	iPc	57 28.50	0.7	
			iS	58 07.00		
LCCH	3.01	173	iPc	57 28.50	-1.0	
			iS	58 05.00		
ZON	3.06	111	eP	57 36.00	5.7X	
SAN	3.19	159	eP	57 32.00	0.0	
			iS	58 24.50		
TACH	3.30	164	iPc	57 33.60	0.0	
			iS	58 16.00		
PCH	3.39	158	iPc	57 35.10	0.2	
			iS	58 32.00		
LNV	3.51	172	iPd	57 35.00	-1.5	
			iS	58 29.50		
CHCH	3.64	162	iPc	57 38.50	0.1	
			iS	58 37.00		
ANT	6.90	12	eP	58 24.00	-0.2	
ARE	13.96	2	eP	00 01.00	0.3	
CNCB	14.10	16	P	00 04.00	1.3	
LPB	14.34	15	P	00 06.00	0.3	
			LR	04 54.00		
ZOBO	14.59	15	P	00 08.30	-0.8	
Z	15s		1.51um			
			LR	04 54.00		
SIV	17.56	37	P	00 42.40	-4.2X	
PPD	20.37	71	eP	01 17.80	-1.1	
VAO	23.55	78	eP	01 50.10	-0.6	
			e	01 52.00		
BAO	26.51	62	ePd	02 18.00	-0.9	
NVL	59.55	158	eP	06 45.00	0.6	
			e	06 59.00		
			e	07 23.00		
TUL	69.71	340	eP	07 49.40	-1.2	
	0.6s		3.40nm		4.5mb	
ALO	72.71	331	eP	08 08.00	-0.9	
	1.2s		8.59nm		4.6mb	
ANMO	72.71	331	P	08 09.50	0.6	
	0.8s		5.04nm		4.5mb	
KIC	73.99	73	P	08 18.00	1.4	
GOL	76.39	334	eP	08 29.80	-0.3	
	0.7s		2 43nm		4.3mb	
PV09	76.86	331	P	08 35.50	2.7X	
MSU	78.19	329	P	08 40.70	0.7	
DUG	79.85	329	P	08 51.90	3.0X	
BONR	80.64	325	P	08 47.40	-6.0X	
BW06	80.64	333	eP	08 55.30	2 1	
	1.2s		5.71nm		4.4mb	
ORV	83.48	324	P	09 06.50	-1.2	
SLR	85.49	117	eP	09 35.00	16.6X	
OUE	144.73	80	ePKP	16 20.50	2.9X	
POO	146.88	103	ePKP	16 32.50	11.3X	
GBA	147.24	114	PKPc	16 24.30	2.5X	
	0.8s		2.10nm			
HYB	150.23	109	ePKP	16 33.50	7.0X	

S.D. = 1.0 on 26 of 36 obs.

---

* SEP 26, 1991 08h 46m 40.60± 2.44s
16.276 N ±22.4km 98.050 W ± 8.5km
DEPTH = 64 5 ± 9.9 km
4.2mb (7 obs.)
NEAR COAST OF GUERRERO, MEXICO (58)

VHO	1.49	58	iP	47 06.00	0.1	
			(S)	47 39.00		
III	2.49	327	eP	47 20.50	0.7	
			iS	47 53.00		
IIT	2.74	355	eP	47 22.50	-0.9	
PUE	2.75	357	(P)	47 23.00	-0.5	
			(S)	48 30.00		
IISM	2.77	13	iP	47 23.24	-0.3	
PPM	2.83	349	iP	47 23.50	-1.3	
			iS	47 56.50		
IIA	2.92	349	iP	47 26.65	1.1	
UNM	3.22	341	eP	47 31.50	1.3	
			(S)	48 10.50		
LVVM	3.77	24	(P)	47 45.71	8.2X	
MRX	4.53	319	eP	47 49.50	1.2	
			(S)	48 35.59		
TPX	5.74	103	(P)	48 28.00	22.7X	
CGX	6.17	304	(P)	48 10.00	-1.5	
MEO	18.44	359	e(P)	51 01 00	7.7X	
TUL	19.66	5	ePc	51 06.90	-0.1	
	1.0s		11 20nm		4 1mb	
ALO	20.06	339	eP	51 10.30	-1.1	
	1.0s		11.00nm		4.1mb	
ANMO	20.06	340	P	51 10.60	-0.8	
	0.8s		9.33nm		4.2mb	
ACO	20.36	357	e(P)	51 14.00	-0.4	
FVM	22.64	16	P	51 38.20	1.1	
	0.8s		24.24nm		4.7mb	
GBTN	22.92	30	P	51 39.80	-0.1	
GOL	24.20	346	P	51 53.10	0.6	
	0.7s		5.70nm		4.2mb	
PEC	24.57	319	P	51 56.00	0.1	
MSU	25.39	333	P	52 05.80	2.0	
BW06	28.19	342	P	52 28.00	-1.3	
PNT	37.33	337	eP	53 49.00	0.6	
YKA	47.61	350	eP	55 12.10	0.4	
	0.9s		2.70nm		4.2mb	
INK	56.68	345	eP	56 19.00	-0.3	
FBA	58.89	338	P	56 34.40	-0.5	
	0.7s		5.81nm		4.8mb	
MBC	61.01	354	eP	56 59.50	10.2X	
	1.0s		6.00nm			

S.D. = 1.0 on 24 of 28 obs.

? SEP 26, 1991 09h 07m 48.46± 6.13s
47.686 N ± 9.7km 3.533 W ±51.0km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.8 (LDG).

LPF	1.71	77	Pn	08 19.40	0.9	
			Pg	08 22.00		
GRR	1.93	68	Pn	08 21.50	-0.1	
FLN	2.31	61	Pn	08 26.60	-0.5	
			Pg	08 32.80		
LDF	2.46	67	Pn	08 29.80	0.6	
			Pg	08 36.00		
MFF	2.55	114	Pn	08 32.20	1.6	
			Pg	08 38.00		
LSF	3.75	111	Pn	08 48.00	0.4	
LFF	4.04	131	Pn	08 51.40	-0.2	
TCF	4.17	107	Pn	08 53.30	-0.3	
RJF	4.22	122	Pn	08 53.80	-0.5	
MAF	4.43	107	Pn	08 57.40	0.2	
BGF	4.50	102	Pn	08 57.80	-0.4	
SSF	4.82	95	Pn	09 02.40	-0.4	
LOR	5.03	92	Pn	09 05.50	-0.2	
LBF	5.15	95	Pn	09 06.40	-1.1	

S.D. = 0.8 on 14 of 14 obs.

SEP 26, 1991 09h 14m 50.45± 0.17s
9.283 S ± 3.3km 158.620 E ± 3.7km
DEPTH = 25.6km (6 depth phases)
5.2mb (23 obs.) 5.1Msz (9 obs.)
SOLOMON ISLANDS (193)
Felt at Honiora.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 22S, 51C
Centroid Location:
Origin Time 09:14:53.0 0.4
Lat 9.63S 0.08 Lon 159.01E 0.05
Dep 15.3 3.2 Half-durotion 2.0
Moment Tensor; Scole 10**17 Nm
Mrr= 0.86 0.05 Mtt=-0.76 0.09
Mff=-0.10 0.08 Mrt= 1.67 0.41
Mrf=-0.62 0.22 Mtf= 0.95 0.05
Principol Axes:

T	Vol= 1.91	Plg=58	Azm= 1
N	0.47	13	113
P	-2.38	28	211

Best Double Couple:Mo=2.2*10**17
NP1.Strike=332 Dip=20 Slip= 131
NP2: 110 75 76

HNR	1.32	97	iP	15 11.00	-2.3	
			i(S)	15 16.00		
PMG	11.32	268	eP	17 35.00	1.3	
DZM	14.77	150	iPc	18 20.90	1.2	
CTAO	16.06	227	iPd	18 35.50	-0.9	
	2.0s	1116.07nm			5.6mb	
			ipP	18 41.00		
			eS	21 30.00		
			e(SS)	21 45.00		
BRS	18.84	196	iPc	19 10.80	-0.2	
	1.9s	14.50nm			3.9mb X	
			i(pP)	19 22.00		
			i(PP)	20 05.00		
			eS	22 48.00		

```
JAY     19.04 290 ePd    19 19.40    5.9X
        1.0s   131.60nm          5.1mb
RMO     19.50 207 iPd    19 29.70   10.9X
        0.7s    56.00nm
GIS     21 50 236 iPd    19 40 70    1 1
        0.9s    56.00nm          5.0mb
                  i      19 53.70   55kmX
OLP     21.95 217 eP     19 44.00    0.0
                  i      19 47 40   12kmX
ARMA    22.02 196 eP     19 46.00    1.1
CMS     25.09 206 eP     20 15.00    0.4
WR2     25.72 243 iPd    20 20.50   -0.2
        0.6s    46.00nm          5.3mb
WRA     25.74 243 P      20 30.80   10.0X
GUA     26.44 329 eP     20 27.00   -0.3
        1.0s   400.00nm          6.0mb
GUMO    26.51 329 eP     20 27.00   -0.9
        0.9s   163.68nm          5.7mb
PJG     26.51 329 eP     20 27.00   -0.9
BWA     26.72 199 eP     20 28.50   -1.3
                  e      20 39.70   43kmX
CNB     27.26 197 eP     20 35.00    0.3
CAN     27.37 197 eP     20 35.40   -0.3
                  e      20 47.20   46kmX
STK     27.48 213 iPc    20 36.90    0.2
        0.8s    22.60nm          4.9mb
                  eS     25 22.20
ASPA    27.62 236 iPd    20 37.10   -1.0
        0.8s    21.90nm          4.9mb
      Z 21s      4.10um          5.0Msz
                  eS     25 17.10
BFD     31.35 205 eP     21 10.00   -1.2
ADE     31.39 212 eP     21 11.20   -0.5
        0.7s   186.30nm          6.1mb
WARB    34 65 237 eP     21 40.00   -0 1
FORR    35.60 229 eP     21 48.00   -0.1
MRWA    44.54 238 eP     23 01.50   -0.6
NWAO    44 80 232 eP     23 04.00   -0.2
      Z 20s      1.60um          4.9Msz
                  eS     29 50.00
KKM     44.92 288 ePc    23 05.50    0 0
BAG     45.48 304 eP     23 09.80   -0.1
SSE     53.84 320 Pd     24 14.00    0.4
        0.8s    14.00nm          5.0mb
      Z 20s      1.40um          5.0Msz
                  pP     24 23.70   32km
QIZ     55.71 301 P      24 27.50    0.0
NJ2     55.97 319 Pd     24 29.00   -0.1
      Z 18s      0.60um          4.7Msz
MDJ     59.72 336 eP     24 54.20   -1.1
CN2     60.81 333 Pc     25 01.80   -0.9
        1.0s    60.00nm          5.7mb
      Z 22s      2.00um          5.2Msz
                  esP    25 21.00
GYA     61.69 307 P      25 09.60    0.4
LOE     62.15 295 eP     25 12.00   -0.3
BJI     62.84 324 eP     25 15.00   -1.4
        1.5s    35.00nm          5.3mb
      Z 20s      0.54um          4.7Msz
NST     63.00 293 eP     25 19.00    1.1
TIY     63.62 320 Pd     25 21.40   -0.3
XAN     63.84 315 P      25 22.20   -1.0
                  pP     25 31.30   29km
KHT     64.13 291 eP     25 25.60    0.3
KMI     64.26 304 Pc     25 26 50    0.1
        2 5s    75.00nm          5.4mb
                  pP     25 34 00   24km
ADK     64 53   17 ePc   25 26 80   -0 5
        0.8s    45.40nm          5.7mb
CHG     65 12 296 eP     25 32.00    0 2
        1.3s    28.85nm          5 2mb
CDD     66 02 310 P      25 37.20   -0 2
HHC     66.06 323 eP     25 37.40   -0 2
LZH     68.46 315 Pc     25 52 50   -0 4
        4.0s   380.00nm          5.9mb X
      Z 25s      0.85um          4.9MszX
      N 10s      0.48um
                  pP     25 59.30   22km
                  sP     26 04.00
GTA     72.86 316 Pc     26 19 80    0.4
        4 0s   590.00nm          6 0mb X
      Z 24s      0.90um          5.0MszX
                  pP     26 27.00   23km
YAK     74 56 346 iP     26 28.40   -0.2
                  i      27 06.00 153kmX
                  e      29 06.00
KDC     77.72  24 eP     26 46.60    0 2

SVW     78.79  21 ePc    26 53.10    0.7
GUN     79.36 301 P      26 57.28    0.6
RSO     79.39  22 P      26 58.00    2.1
PKI     79.67 300 P      26 58.48    0.2
KKN     79.84 300 P      26 59.26    0.2
TTA     79.93  19 ePc    26 58.80    0.2
        1.0s    12.00nm          4.9mb
DMN     79.94 300 P      26 59.92    0.3
GKN     80.45 300 P      27 02.44    0 3
PMR     81.47  22 eP     27 05.20   -1.4
        0.5s    10.60nm          5.1mb
IMA     82.84  18 ePc    27 14.20    0.4
        1.0s     8.20nm          4.8mb
TOA     82.91  23 eP     27 15.00    0.8
WMO     82.94 316 P  .   27 15.00    0.3
        2.0s    30.00nm          5.1mb
      Z 32s      1.00um          5.0MszX
                  pP     27 22.50   24km
                  sP     27 26.00
KOD     83.04 282 eP     27 17.70    1.6
HYB     83.40 289 eP     27 26.50    9.0X
MAW     83.68 203 e(P)   27 25.00    7.1X
        1.3s    37.00nm          5.4mb
BALM    83.84  25 P      27 18.70   -0.3
FBA     83.97  20 ePc    27 18.70   -0.8
        0.8s    21.20nm          5.4mb
ORV     88.14  50 P      27 39.90   -0.6
CMB     88.64  51 P      27 43.50    0.5
        1.2s    18.75nm          5.3mb
MWC     89.69  55 eP     27 49.00    0.8
SBB     89.97  55 eP     27 50.00    0.6
RVR     90.20  56 eP     27 51.00    0.7
PEC     90.36  56 P      27 51.60    0.5
CLC     90.37  54 eP     27 51.00   -0.2
PLM     90.50  56 eP     27 52.00    0.0
INK     90.60  20 ePd    27 51.70    0.3
GSC     90.91  55 eP     27 55.00    1.3
PNT     91.64  40 eP     27 57.00    0.4
MSU     95.09  52 P      28 13.80    0.8
YKA     96.67  28 eP     28 29.20    9.8X
        0.8s     1.90nm          4.6mb
MBC     97.05  14 eP     28 20.00   -0.9
BW06    97.56  48 P      28 24.80    0.6
ALQ     99.26  56 eP     28 40.30    8.3X
GOL    100.47  51 Pdiff  28 43.00    5.5X
      Z 18s      1.17um          5.4Msz
GLD    100.59  51 Pdiff  28 43.00    5.1X
      Z 19s      1.43um          5.5Msz
RSSD   101.66  47 Pdiff  28 50.50    7.9X
NB2    123.01 342 PKP    33 44.80   -1.1
        1.3s     5.90nm
ZOBO   127.23 119 PKP    33 55.00   -1.1
        1.7s    23.98nm
                  LR     15 24.00
KSP    128.26 330 ePKP   33 56.50    0.2
BRG    129.36 332 ePKP   33 58.40    0.0
        1.4s    24.00nm
                  i      34 06.20
CLL    129.50 333 ePKPd  33 59.00    0.4
        1.8s    23.00nm
ZST    129.50 327 ePKP   34 05.60    6.9X
KHC    130.71 330 ePKPd  34 02.00    0.9
      Z 22s      0.60um          5.2Msz
      N 22s      0.10um
      E 22s      0.60um
                  e      34 09.00
BAO    143.84 133 ePKP   34 23.00   -3.3X
ETOR   144.22 335 ePKP   34 25.00   -1.2
GUD    145.22 337 ePKP   34 28.00    0.0
TOL    145.83 336 iPKPc  34 29.50    0.6
EPRU   148.80 335 ePKP   34 40.00    6.2X
SOB1   153.26 133 ePKP   34 45.80    4.8X
                  e      34 54.60
        S.D. = 0.8  on  85 of  99 obs.
-----------------------------------------
?  SEP  26, 1991  10h 28m 32.31± 2.86s
    36.647 N ±30.1km   29.464 E ± 7.8km
    DEPTH =   5.0km  (geophysicist)
 TURKEY                              (366)

ELL      0.37  74 iPg    28 39.50   -0.3
                  iSg    28 45.00
YER      1.06 298 ePn    28 53.00    0.1
BCK      1.21  48 ePn    28 56.00    0.6
KHL      1.67   2 ePn    29 02 00   -0 5
        S.D  = 0 8  on   4 of   4 obs
-----------------------------------------

&  SEP  26, 1991  10h 55m 45.00s
    34.160 N          117.330 W
    DEPTH =   9.0km
 SOUTHERN CALIFORNIA                 ( 43)
       <PAS-P>. ML 2.6 (PAS). Felt at
       San Bernardino.

PEC      0.30 152 ePc    55 51.00   -0.3
SSK      0.31 280 iPc    55 51.10   -0.3
MWC      0.61 276 iPc    55 56.40   -0.8
SBB      0.67 322 iPc    55 57.10   -1.3
PAS      0.70 269 iPc    55 57.80   -1.1
PLM      0.89 154 eP     56 01.10   -1.3
CIS      1.17 230 eP     56 06.40   -0.5
ABL      1.71 294 eP     56 14.80   -0.5
       8 obs. associated
-----------------------------------------
&  SEP  26, 1991  11h 42m 58.98s
    63.459 N          150.926 W
    DEPTH =  13.2km
 CENTRAL ALASKA                      (  1)
       <AEIC>. ML 3.2 (AEIC), 3.6
       (PMR).

KTH      0.09   1 iPc    43 01.83   -0.3
TRF      0.29  91 iPd    43 05.38    0.1
HUR      0.76 129 iPd    43 13.32   -0.2
MCK      0.93  72 eP     43 16.07   -0.4
                  S      43 29.06
RND      0.93  92 iPd    43 16.47   -0.1
                  S      43 29.51
BWN      0.97  42 ePc    43 18.22    1.2
                  S      43 32.09
CUT      1.10 164 iPd    43 19.23   -0.1
NEA      1.39  35 ePc    43 22.81   -1.1
                  eS     43 42.37
SKT      1.51 191 ePd    43 25.68    0.0
                  iS     43 45.08
WRH      1.61  50 iPc    43 26.19   -1.0
                  eS     43 49.59
CCB      1.82  48 iPc    43 28.99   -1.1
                  S      43 55.13
PWA      1.88 165 ePc    43 31.64    0.6
                  S      43 55.77
MDM      1.91  37 iPc    43 30.29   -1.3
GHO      1.93 150 eP     43 31.81    0.0
FBA      1.99  42 P      43 31.30   -1.4
HDA      2.00  60 ePc    43 31.64   -1.1
SUA      2.00 177 ePd    43 32.90   -0.1
SML      2.04 143 eP     43 32.98   -0.5
PLRM     2.05 155 ePd    43 33.14   -0.3
PMR      2.05 155 P      43 33.30   -0.2
GLM      2.18  44 ePc    43 34.17   -1.3
BGL      2.31 198 eP     43 37.59    0.3
PMS      2.31 163 ePd    43 37.71    0.4
                  eS     44 06.42
THY      2.33  89 eP     43 38.37    0.8
SCM      2.33 133 eP     43 37.18   -0.4
SPU      2.35 193 eP     43 37.05   -0.8
KNK      2.35 150 eP     43 38.05    0.2
CKL      2.36 197 eP     43 38.05   -0.1
TTA      2.37 259 P      43 35.50   -2.6
DJE      2.40  74 eP     43 36.45   -2.1
PAX      2.52  99 eP     43 41.02    0.7
TOA      2.57 120 P      43 41.70    0.7
SDG      2.63 108 iPd    43 42.73    0.9
IMA      2.87 337 P      43 44.50   -0.9
TZL      2.90 117 eP     43 47.17    1.5
RDT      2.98 194 eP     43 47.59    0.8
SLKM     2.98 173 eP     43 47.37    0.6
DFR      2.99 197 eP     43 48.24    1.2
KLU      3.05 128 eP     43 48.47    0.7
GLI      3.15 144 ePd    43 49.92    0.8
VLZ      3.17 135 eP     43 49.87    0.5
SVW      3.22 225 eP     43 50.31    0.1
FID      3.43 140 eP     43 53.58    0.5
LTI      3.73 156 eP     43 56.98   -0.4
GLB      3.88 118 ePc    44 00.70    1.2
CNPM     3.95 182 eP     44 01.75    1.2
       46 obs. associated
-----------------------------------------
%  SEP  26, 1991  11h 58m 50.28± 0.59s
    39.334 N ± 4.6km   29.052 E ± 9.7km
    DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)

IZI      1.05  18 ePn    59 09.60   -0.6
```

26d 11h

KHL 1.07 160 ePn 59 10.00 -0.6
YLV 1.26 11 iPn 59 13.60 -0.1
GPA 1.36 45 iPn 59 16.10 0.8
EDC 1.36 318 ePn 59 15.50 0.2
HRT 1.56 17 ePn 59 18.00 -0.1
ISK 1.73 0 ePn 59 21.00 0.5
CTT 1.87 345 iPn 59 22.00 -0.6
YER 2.28 196 ePn 59 29.00 0.4
S.D. = 0.6 on 9 of 9 obs.

? SEP 26, 1991 12h 23m 45.77± 1.00s
10.913 N ± 9.8km 61.127 W ± 9.0km
DEPTH = 10.0km (geophysicist)
TRINIDAD (98)
MD 2.9 (TRN)

TRN 0.38 226 eP 23 53.22 -0.3
eS 23 59.40
TBH 0.43 172 eP 23 54.66 0.1
eS 24 02.91
TPR 0.44 52 eP 23 54.66 0.0
eS 24 02.86
TCE 0.65 251 eP 23 59.00 0.2
eS 24 08.00
S.D. = 0.4 on 4 of 4 obs.

SEP 26, 1991 12h 43m 21.63± 0.87s
36.271 N ± 9.1km 140.247 E ±10.1km
DEPTH = 88 3 ± 5.6 km
4.4mb (4 obs.)
NEAR EAST COAST OF HONSHU, JAPAN(228)

KAKJ 0.09 222 iP+ 43 34.30 0.1
S 43 41.70
CHJJ 1.04 258 iPd 43 41.70 -0.2
S 43 55.40
NIIJ 1.39 314 iPd 43 46.20 -0.1
S 44 03.70
YAMJ 1.91 355 iPd 43 54.20 1.2
eS 44 17.60
MTMJ 1.99 280 iPd 43 54.80 0.5
IIDJ 2.05 248 iPd 43 56.40 1.3
S 44 20.50
OFUJ 3.02 21 iP+ 44 09.30 1.1
eS 44 44.10
TSRJ 3.54 259 iP+ 44 16.00 0.6
AOMJ 4.28 1 eP 44 26.80 1.1
WKYJ 4.32 243 P 44 25.60 -0.8
TKSJ 5.57 248 eP 44 42.30 -1.3
eS 46 02.00
YONJ 5.62 261 eP 44 43.10 -1.3
HOOJ 6.54 20 eP 44 55.30 -1 7
eS 46 04.60
KUSJ 7.64 25 eP 45 08.20 -3.8X
eS 46 28.90
ASAJ 8.05 12 eP 45 15.50 -2.2
BJI 19.29 289 eP 47 42.00 0.1
GUN 46.30 276 P 51 42.22 1.6
PKI 46.82 276 P 51 44.58 -0.1
KKN 46.83 276 P 51 44.56 -0 1
DMN 47.05 276 P 51 45.28 -1.2
GKN 47.26 277 P 51 48.46 0.5
WR2 56.19 187 iPc 52 55.20 0.6
0.4s 2.40nm 4.6mb
ASPA 59.91 187 eP 53 25.60 5.0X
0.9s 2.10nm 4.3mb
GBA 60.22 265 Pc 53 22.70 -0.2
0.7s 4.90nm 4.7mb
NB2 74.52 337 P 54 52.60 0 6
0.7s 2.50nm 4.2mb
S.D. = 1.1 on 23 of 25 obs.

% SEP 26, 1991 14h 23m 35.95± 1.48s
41.060 N ±16.5km 28.479 E ±13 7km
DEPTH = 5.0km (geophysicist)
TURKEY (366)

CTT 0.09 337 iPg 23 38.00 -0.1
ISK 0.44 89 ePg 23 44.60 -0.2
YLV 0.84 126 ePg 23 52.50 -0.2
HRT 0.93 104 iPn 23 54.60 0.4
DMK 0.93 325 iPg 23 54.30 0.1
iSg 24 06.80
S.D. = 0.3 on 5 of 5 obs.

% SEP 26, 1991 14h 25m 09.82± 0.72s
41.151 N ± 9.9km 28.536 E ± 5.2km
DEPTH = 5.0km (geophysicist)
TURKEY (366)

CTT 0.08 267 iPg 25 11.50 -0.2
ISK 0.40 102 iPg 25 18.60 0.7
YLV 0.86 132 ePn 25 26.50 -0.4
DMK 0.89 319 iPg 25 27.30 0.0
eSg 25 38.80
HRT 0.92 111 iPn 25 27.50 -0.4
KGT 1.17 234 ePn 25 32.50 0.4
S.D. = 0.6 on 6 of 6 obs.

& SEP 26, 1991 14h 29m 30.50s
33.270 N 116.020 W
DEPTH = 2.0km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 3.5 (PAS). Felt at
Palm Springs.

HAY 0.54 36 eP 29 41.10 -0.2
IKP 0.62 187 iPc 29 42.30 -0.7
PLM 0.71 277 iPc 29 44.30 -0.4
BAR 0.80 223 iPc 29 45.40 -1.2
CPE 0.99 247 iPc 29 48.70 -1.3
GLA 1.02 102 iPd 29 48.80 -1.8
PEC 1.14 303 eP 29 51.20 -1.4
RVR 1.34 303 eP 29 54.30 -1.7
SSK 1.68 304 eP 30 00.00 -1.2
CIS 2.00 275 eP 30 04.50 -1.2
ABL 3.09 302 eP 30 21.00 -0.4
11 obs. associated

---

* SEP 26, 1991 14h 30m 53.30± 0.73s
9.771 N ± 9.3km 92.810 E ± 7.9km
DEPTH = 33.0km (normal)
4.6mb (7 obs.)
NICOBAR ISLANDS, INDIA (704)

KHT 7.53 48 eP 32 44.50 0.8
CHG 10.77 33 eP 33 30.00 1.5
CHTO 10.77 33 eP 33 29.80 1.4
1.0s 2.25nm 4.3mb
KOD 15.12 273 eP 34 27.50 0.9
GBA 15.53 286 Pc 34 32.00 0.4
0.5s 4.50nm 3.9mb
HYB 15.80 300 eP 34 41.00 5.9X
PKI 19.03 339 P 35 15.70 0.0
1.0s 40.00nm 4.6mb
DMN 19.17 339 P 35 17.80 0.5
GUN 19.19 341 P 35 17.20 -0.4
KKN 19.28 339 P 35 17.40 -1.1
GKN 19.70 338 P 35 22.70 -0.4
LSA 19.89 356 P 35 23.20 -2.2
POO 20.33 297 eP 35 30.50 0.9
CD2 23.37 24 eP 36 01.00 1.0
XAN 28.32 29 eP 36 43.60 -2.6
GTA 30.17 11 P 37 03.00 0.1
0.6s 10.00nm 4.8mb
pP 37 10.80 27kmX
sP 37 15.00
WR2 50.45 126 iPc 39 49.50 -0.8
0.5s 28.70nm 5.5mb
i 40 15.40
ASPA 52.13 130 iPd 40 01.90 -1.1
0.4s 6.70nm 5.0mb
STK 62.36 134 eP 41 16.50 1.3
0.4s 1.50nm 4.5mb
S.D. = 1.3 on 18 of 19 obs.

---

* SEP 26, 1991 14h 49m 15.74± 1.30s
3.752 N ±12.9km 95.454 E ±18.1km
DEPTH = 33.0km (normal)
4.6mb (6 obs.)
OFF W COAST OF NORTHERN SUMATERA(705)

IPM 5.62 81 ePd 50 40.00 0.8
0.8s 61.50nm 5 2mb
CHG 15.35 13 eP 52 51.50 -0.3
CHTO 15.35 13 eP 52 51.20 -0.6
1.1s 8.24nm 3.9mb
KOD 18.97 291 eP 54 21.40 44 0X
GBA 20.31 300 Pc 54 12.00 20.2X
1.2s 18.20nm
BJI 40.69 25 eP 56 48.50 -6.3X
0.9s 10.00nm 4 6mb
WR2 44.89 123 iPc 57 28.10 -1 3
0.7s 9.00nm 4 8mb
i 57 32.50
e 58 26.10
ASPA 46.32 128 iPd 57 40.90 0.3
0.4s 3.90nm 4.7mb
HFS 82.65 330 eP 01 38.00 1.0
0.4s 1.80nm 4.5mb
S.D. = 1.1 on 6 of 9 obs.

SEP 26, 1991 15h 18m 36.73± 0.62s
40.463 N ± 6.6km 29.048 E ± 3.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YLV 0.27 67 iPg 18 42.50 0.1
iSg 18 46.00
IZI 0.35 111 iPg 18 43.50 -0.5
GBZT 0.44 43 ePg 18 46.00 0.2
iSg 18 52.60
HRT 0.59 53 ePg 18 48.10 -0.6
eSg 18 56.10
ISK 0.60 1 ePg 18 48.10 -0.8
CTT 0.83 326 iPg 18 53.00 0.2
iSg 19 03.00
EDC 0.91 263 iPg 18 53.50 -0.7
GPA 0.98 100 iPn 18 56.20 0.8
KGT 1.33 270 ePn 19 01.50 0.2
DMK 1.67 325 ePn 19 07.00 0.9
S.D. = 0.7 on 10 of 10 obs.

? SEP 26, 1991 15h 22m 47.05± 1.99s
41.013 N ±17.3km 28.414 E ±19.1km
DEPTH = 5.0km (geophysicist)
TURKEY (366)

CTT 0.13 5 iPg 22 49.50 -0.3
YLV 0.85 121 ePn 23 03.50 -0.5
DMK 0.95 329 iPg 23 05.80 0.3
eSg 23 17.50
HRT 0.97 101 iPn 23 06.60 0.6
S.D. = 0.9 on 4 of 4 obs.

---

* SEP 26, 1991 15h 32m 39.67± 2.01s
41.810 N ±12.9km 21.011 E ±13.6km
DEPTH = 5.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 3.5 (SKO).

SKO 0.36 63 iPgc 32 46.00 -0.9
iSg 32 54.50
Lg 32 57.00
OHR 0.72 193 iPgc 32 49.00 -5.0X
iSg 33 03.50
Lg 33 04.30
FNA 1.06 165 iPc 32 58.66 -1.5
eS 33 18.78
GRG 1.35 129 ePd 33 05.02 0.0
eS 33 28.78
KNT 1.56 114 ePc 33 07.98 -0.1
eS 33 34.70
eS 33 36.62
KZN 1.61 159 eP 33 10.00 1.1
eS 33 34.10
SOH 2.02 118 ePd 33 16.18 1.3
LIT 2.04 146 ePc 33 14.66 -0.5
SRS 2.06 109 ePc 33 16.10 0.7
KEK 2.29 204 eP 33 19.20 0.5
eS 33 52.00
OUR 2.69 122 iPc 33 24.62 0.3
AGG 2.96 160 iPc 33 27.26 -1.0
iS 34 05.90
S.D = 1.0 on 11 of 12 obs.

% SEP 26, 1991 15h 56m 47.36± 1.64s
24.096 N ± 9.0km 121.787 E ±14.5km
DEPTH = 10.0km (geophysicist)
TAIWAN (244)

TWD 0.18 265 iPd 56 50.60 -0.7
eS 56 53.20
TWC 0.51 6 iPc 56 57.20 -0.6
eS 57 04.40
TWF1 0.87 211 ePc 57 04.20 0.2
TWQ 0.89 282 ePd 57 04.90 0.5
TWZ 1 01 349 ePc 57 07.20 0.6
S.D = 0.9 on 5 of 5 obs.

---

* SEP 26, 1991 16h 45m 46.55± 1.75s

32.183 S ±13.4km 71.186 W ±12.2km
DEPTH = 30.8 ± 5.3 km
NEAR COAST OF CENTRAL CHILE (135)

JACH	0.71	135	iPd	46 00.50	0.1
			iS	46 13.00	
ROCH	0.80	169	iP	46 02.00	0.2
			iS	46 16.50	
IHA	0.92	204	eP	46 04.00	0.7
			iS	46 18.40	
PEL	1.05	156	iPd	46 05.50	0.3
			iS	46 22.00	
LCCH	1.33	194	eP	46 09.00	-0.1
SAN	1.34	161	eP	46 09.50	0.2
			iS	46 29.00	
TACH	1.48	172	iPc	46 11.40	0.1
			iS	46 32.50	
PCH	1.54	159	iPd	46 12.00	-0.3
			iS	46 34.50	
LNV	1.78	186	iP	46 14.50	-1.1
			iS	46 42.00	
CHCH	1.80	166	iPc	46 16.00	0.0
			iS	46 41.50	
ZON	2.23	74	eP	46 22.00	-0.1

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

SEP 26, 1991 17h 14m 33.81± 0.51s
42.490 N ± 5.6km 143.761 E ± 7.2km
DEPTH = 78.4 ± 4.7 km
4.5mb (8 obs.)
HOKKAIDO, JAPAN REGION (224)

HOOJ	0.37	253	iP+	14 46.40	-0.1
			S	14 54.30	
KUSJ	0.93	49	iPd	14 53 00	0.9
			S	15 06.30	
ASAJ	1.82	334	iPd	15 03 10	-0.7
			eS	15 26 10	
MRRJ	1.99	269	eP	15 06.20	0.1
			eS	15 29.20	
AOMJ	3.19	234	iPd	15 23.00	0.3
			eS	15 58.80	
OFUJ	3.76	206	P	15 30.40	-0.2
			eS	16 11.60	
YAMJ	5 17	215	eP	15 50.10	-0.2
			eS	16 51.00	
NIIJ	6.39	216	P	16 07.70	0.4
KAKJ	6.86	205	P	16 11.50	-2.3
			S	17 23.80	
CHJJ	7.42	211	P	16 21.60	0.2
			S	17 41.40	
MTMJ	7.48	220	P	16 22.80	0.4
BJI	20.85	273	eP	19 08.00	-3.0X
YAK	21.27	342	eP	19 16.20	1.1
			ipP	19 33.00	77kmX
			ePP	19 42.00	
			eS	23 01.00	
			eScS	23 52.00	
TIY	24.35	269	eP	19 45.00	-0.6
WHN	26.34	253	Pc	20 05.00	1.0
	1.0s		30.00nm	4.8mb	
XAN	28.47	264	P	20 22.90	-0.5
LZH	31.33	272	Pd	20 49.00	0.1
	1.2s		43.00nm	5.1mb	
			sP	21 08 00	
GTA	33.06	280	P	21 03.80	-0.1
	0.7s		10.00nm	4.8mb	
WMO	40.25	292	P	22 04.00	-0.4
CHG	44.54	252	eP	22 41 00	1.5
CHTO	44.54	252	eP	22 40 80	1.3
	1.0s		4.50nm	4 3mb	
GUN	48.59	272	P	23 11 72	0.0
INK	48.73	29	eP	23 12.00	0.3
KKN	49 10	272	P	23 15.56	0 1
PKI	49 13	272	P	23 15 18	-0 6
DMN	49.33	272	P	23 17.10	-0.2
GKN	49.46	273	P	23 17 84	-0.3
MBC	50.79	18	eP	23 27 00	-0.4
	1.0s		6.00nm	4.6mb	
YKA	58.21	32	eP	24 20.40	-1.2
	0.7s		1.20nm	4.1mb	
GBA	63.51	264	P	24 59.00	1.0
LRM	69.04	47	eP	25 34.30	1.2
NB2	69 85	338	P	25 36.60	-1.0
	0.6s		1.30nm	4.0mb	
HFS	69.86	336	eP	25 36 00	-1.5
	0.5s		2.40nm	4.4mb	

SIV	146.09	46	PKP	34 09.40	3.8X

S.D. = 0.9 on 32 of 34 obs.

? SEP 26, 1991 17h 58m 30.19± 0.96s
37.609 N ± 7.7km 15.159 E ± 9.3km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO	0.49	311	P	58 40.40	0.2
MEU	0.54	200	P	58 41.00	-0.1
			eSg	58 51.00	
ATN	0.60	24	P	58 41.70	-0.6
			eSg	58 50.40	
SOI	0.85	57	P	58 47.00	0.5
CZI	1.78	25	P	58 52.90	-8.3X

S.D. = 0.9 on 4 of 5 obs.

SEP 26, 1991 18h 01m 13.62± 0.83s
26.271 S ± 6.5km 27.277 E ±11.8km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
mbLg 3.4 (BUL).

PRY	0.68	165	eP	01 26.00	-1.2
	1.0s		930.00nm		
			S	01 31.50	
SLR	1.05	60	iPc	01 33.00	-1.0
			S	01 45.40	
SEK	2.07	171	iPd	01 50.70	1.1
			S	02 11.70	
BFT	2.56	77	iPc	01 58.00	1.4
			S	02 28.00	
BLF	2.99	199	iPc	02 02.50	-0.2
			S	02 37.00	
FRS	3.87	206	iPd	02 15.20	0.1
			S	02 55.20	
JOZ	4.45	106	eP	02 28.50	5.2X
	0.6s		60.00nm		
			S	03 08.00	
BUL	6.22	12	iPn	02 49.00	0.5
			iSn	03 57.80	
			iSg	04 29.00	
KRI	9.64	13	iPn	03 35.50	-0.8
			iSn	05 20.00	
			iSg	06 12.50	
WIN	9.98	290	eP	03 35.00	-5.9X
	1.0s		60.00nm	6.0mb X	
			(S)	05 17.50	
MTD	10.26	24	iPn	03 41.20	-3.5X
			iSg	06 27.50	

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

? SEP 26, 1991 18h 18m 18.67± 0.77s
16.728 N ±16.6km 120.160 E ±43.8km
DEPTH = 33.0km (normal)
4.5mb (6 obs.)
LUZON, PHILIPPINE ISLANDS (249)

BJI	23.49	352	eP	23 25.50	-0.8
	1.2s		10.00nm	4.2mb	
LZH	24.13	326	eP	23 33.50	0.8
	2.0s		28.00nm	4.5mb	
			pP	23 36.30	10kmX
WRZ	39.03	158	eP	25 43.50	-0.7
	0.6s		20.60nm	5.1mb	
ASPA	42.33	161	iPc	26 11.40	0.0
	0.8s		10.00nm	4.6mb	
WARB	43.12	171	eP	26 18.00	0.3
MRWA	45.85	185	iPd	26 38.60	-1.0
	0.4s		1.00nm	4.1mb	
STK	52.52	157	iPc	27 32.40	1.4
	0.6s		6.20nm	4.7mb	

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

SEP 26, 1991 20h 14m 32.33± 0.52s
39.165 N ± 5.7km 21.724 E ± 4.4km
DEPTH = 5.0km (geophysicist)
GREECE (364)

AGG	0 49	107	iPd	14 41.82	-0 4
			eS	14 50.46	
LIT	1.11	32	ePd	14 54 17	0.6
			iS	15 16.64	
IGT	1.14	289	ePc	14 53.60	-0.5
			eS	15 11 46	
IGT	1 14	289	ePc	14 53.61	-0 5
			eS	15 11.46	

KZN	1.14	2	eP	15 01.70	7.5X
VLS	1.33	222	eP	14 57.00	-0.3
			eS	15 14.60	
KEK	1.59	291	eP	15 02.10	0.9
PAIG	1.69	63	iPc	15 01.46	-1.2
GRG	1.86	16	iPd	15 08.06	2.9X
			iS	15 35.17	
OHR	2.07	340	ePn	15 12.50	4.3X
SOH	2.07	37	ePd	15 09.06	0.8
KNT	2.19	24	iPd	15 10.06	0.2
			eS	15 43.90	
			eS	15 44.17	
SRS	2.42	36	ePd	15 12.74	-0.5
VLI	2.62	158	eP	15 17.00	0.9

S.D. = 0.8 on 11 of 14 obs.

SEP 26, 1991 20h 24m 04.04± 0.22s
37.434 N ± 3.5km 36.346 E ± 2.8km
DEPTH = 10.0km (geophysicist)
4.8mb (48 obs.)
TURKEY (366)

GAZ	0.74	110	iPn	24 18.40	-0.1
FAM	3.08	219	eP	24 56.00	2.4
CSS	3.47	226	eP	25 00.00	0.8
BHL	3.57	189	Pn	25 00.00	-0.6
			Sn	26 00.00	
KVT	3.65	356	iPn	25 02.50	0.7
BBTK	3.70	312	iPn	25 05.00	2.5
			iS	26 03.00	
PPCY	4.12	233	eP	25 10.00	1.7
HRI	4.18	187	eP	25 09.60	0.2
KAS	4.41	334	iPc	25 14.30	1.7
BCK	4.58	272	eP	25 14.00	-1.0
ATZ	4.69	191	eP	25 16.60	0.1
			eS	26 09.20	
ALT	5.17	290	iP	25 25.00	1.6
ELL	5.19	264	iP	25 26.00	2.3
ZNT	5.29	192	eP	25 25.30	0.2
			eS	26 24.30	
KHL	5.47	281	eP	25 22.50	-5.2X
MSL	5.55	99	ePn	25 26.00	-2.7X
			eP•	25 37.50	
			iPg	25 51.50	
			iSn	26 33.00	
			iS•	26 52.00	
			eLg	26 59.50	
			iSg	27 04.50	
IZI	6.09	301	eP	25 37.00	0.6
HRT	6.20	305	eP	25 39.00	1.2
YLV	6.27	302	eP	25 38.50	-0.4
GBZT	6.33	304	eP	25 40.50	0.9
YER	6.44	270	iP	25 43.40	2.1
ISK	6.72	305	eP	25 34.00	-11.1X
CTT	7.17	304	eP	25 51.00	-0.5
MBH	7.74	190	eP	25 58.70	-0.8
BHD	7.77	120	ePn	26 12.00	12.2X
			eP•	26 30.00	
			eSn	27 38.00	
			eS•	28 04.50	
			iSg	28 07.00	
TAB	7.93	82	eP	26 06.00	3.7X
			e	26 36.00	
PRK	8.12	286	eP	26 07.10	2.3
EZN	8.20	290	eP	26 07.50	1.7
AYN	8.55	182	eP	26 10.70	0.0
HLW	8.63	210	eP	26 11.00	-0.8
NPS	8.93	259	eP	26 15.00	-1.0
RDO	9.16	297	eP	26 21.00	1.8
KER	9.26	106	ePd	26 20.00	-0.6
OUR	10.07	291	ePc	26 32.68	1 0
PAIG	10.21	288	iPd	26 48.40	14.7X
SOH	10.64	293	ePd	26 40.92	1.3
KNT	11.06	294	iPc	26 47.46	2.1
AGG	11.14	282	iPd	26 50.17	3.8X
GRG	11.38	292	ePc	26 52.56	2.9X
IR7	11.60	94	eP	27 03.80	11.0X
IR5	11.70	97	eP	26 58.00	3.9X
IR1	11.73	96	eP	27 00.00	5.5X
IR4	11.94	96	eP	26 57.00	-0.4
SKO	12.34	296	eP	27 05.80	3.2X
	N 11s		0.96um		
OHR	12.59	292	eP	27 07.00	0.9
IGT	12.72	284	ePc	27 15.17	7.4X
BZS	13.72	311	eP	27 21.00	0.2
MJMA	13.82	144	eP	27 20.00	-2.3X
BMR	13.92	321	ePd	27 26.00	2.5

26d 20h

SHI	15.56	115	eP	27	41.00	-4.1X	LPL	23.51	299	eP	29	14.90	-0.2	LZH	53.01	70	eP	33	23.00	-0.4
	0.3s		28.20nm			5.3mb		0.3s		28.20nm			5.3mb		2.0s		42.00nm			5.0mb
POI	15.63	284	P	27	50.60	4.6X	LRG	23.52	294	eP	29	12.80	-2.1	CD2	55.10	75	eP	33	38.40	-0.3
CZI	15.96	283	P	27	48.40	-1.8		1.2s		74.10nm			5.1mb	HHC	56.74	61	eP	33	51.00	0.6
PSZ	15.97	316	eP	27	52.00	1.7	LIBD	23.52	306	P	29	15.05	0.2	CHG	57.25	91	eP	33	53.00	-1.2
UZD	16.03	310	e(P)	27	54.00	2.9X	RSL	23.62	300	P	29	15.85	-0.2	CHTO	57.25	91	eP	33	53.00	-1.2
BUD	16.22	314	eP	27	57.90	4.5X	MOF	23.75	305	P	29	16.59	-0.6		1.1s		2.94nm			4.2mb
MGR	16.43	286	P	28	03.40	7.2X	GWF	23.76	308	P	29	16.40	-0.8	XAN	57.64	70	P	33	56.40	-0.4
SGO	16.65	287	P	28	03.70	4.8X	CDF	23.81	307	P	29	17.16	-0.6	BUL	57.73	189	iPd	33	58.00	0.5
SRO	16.80	314	eP	28	05.00	4.2X	LOMF	23.82	304	P	29	17.83	0.0		1.1s		6.96nm			4.6mb
KRA	17.26	322	eP	28	06.80	0.2	BSF	23.96	305	P	29	18.93	-0.4	YAK	59.23	33	eP	34	04.30	-3.1X
			e	28	18.30		NUR	24.26	346	eP	29	22.20	0.3	BJI	60.28	60	eP	34	16.50	1.6
PTJ	17.39	306	eP	28	08.30	0.0	HAU	24.30	305	eP	29	21.90	-0.5	MBC	65.54	354	eP	34	51.00	1.7
DUI	17.39	291	P	28	11.40	3.1X		0.7s		35.30nm			5.1mb		1 0s		7.00nm			4.8mb
OBN	17.67	0	eP	28	16.00	4.4X	VITF	24.58	306	P	29	24.50	-0.7	INK	74.30	356	eP	35	41.00	-1.8
	1.5s		63.00nm			4.5mb	WLF	24.89	309	P	29	28.00	0.0	YKA	77.70	347	eP	36	03.00	0.9
Z	12s		0.40um			5.0MszX	KAF	25.48	349	iP	29	33.90	0.3		1.2s		6.80nm			4.6mb
			e	28	19.00			0.6s		3.50nm			4.2mb	FFC	81.48	337	eP	36	24.00	1.4
			i	28	23.00		SMF	25.68	301	eP	29	34.20	-1.5		0.8s		9.00nm			4.9mb
			iPP	28	28.50			1.0s		53.00nm			5.2mb	SES	87.94	340	eP	36	56.00	0.8
			e	28	29.00		LOR	25.78	303	eP	29	25.00	-11.5X		S.D. = 1.2		on 133 of 167 obs.			
			e	30	02.00			1.1s		63.50nm										
			eS	31	31.50		Z	21s		0.15um			3.5MszX							
			iSS	32	20.00															
ZST	17.70	314	eP	28	13.70	1.7	SSF	25.98	302	eP	29	37.10	-1.3							
SDI	17.87	291	P	28	16.40	2.1		1.3s		63.20nm			5.1mb							
AZI	18.19	292	P	28	19.90	1.8	AVF	26.04	302	eP	29	37.40	-1.5							
VKA	18.19	313	eP	28	19.00	0.9		0.7s		31.40nm			5.1mb							
AOU	18.26	293	P	28	22.90	3.8X	MUD	26.29	325	iPd	29	38.40	-2.7X							
CEY	18.34	304	e(P)	28	22.50	2.5X		1.0s		68.00nm			5.3mb							
LJU	18.37	305	e(P)	28	21.50	1.1	BGF	26.35	301	eP	29	40.20	-1.6							
MAIO	18.55	86	iPd	28	24.20	1.4		0.7s		12.70nm			4.7mb							
	0.8s		32.94nm			4.6mb	OUE	26.36	97	eP	29	43.50	1.2							
RDP	18.70	291	Pc	28	24.80	0.3	MAF	26.49	300	eP	29	41.90	-1.3							
RMP	18.71	291	Pc	28	24.70	0.1		0.7s		8.25nm			4.5mb							
ARV	18.78	296	Pc	28	25.40	-0.1	CAF	26.72	297	eP	29	43.60	-1.7							
VOY	18.78	304	e(P)	28	26.60	1.0	TCF	26.75	300	eP	29	44.20	-1.3							
ASS	18.91	295	P	28	27.80	0.7		0.7s		7.70nm			4.5mb							
KBA	19 50	307	iPd	28	33.70	-0.7	HFS	26.92	335	eP	29	46.20	-0.7							
	1.2s		52.40nm			4.7mb		0.9s		13.60nm			4.6mb							
			ic	28	34.20		Z	16s		0.07um			3.3MszX							
			i	28	40.00					LR	39	30.00								
			i	28	52.60		RJF	27.13	298	eP	29	47.90	-1.1							
			i	29	04.20			0.9s		13.10nm			4.6mb							
CRE	19.51	296	Pc	28	33.70	-0.7	Z	22s		0.15um			3.5MszX							
KSP	19 58	320	eP	28	33.50	-1.5	LSF	27.21	300	eP	29	48.20	-1.5							
	1.3s		51.00nm			4.7mb	LPO	27.32	297	eP	29	48.20	-2.6X							
			e	29	12.50			0.9s		11.45nm			4.6mb							
SFI	19.64	297	Pc	28	35.70	0.0	LFF	27.66	297	eP	29	52.40	-1.4							
FVI	19.70	305	Pc	28	36.10	-0.2		0.7s		8.80nm			4.6mb							
PRU	20.06	316	Pd	28	39.40	-0.7	MFF	28.40	300	eP	29	58.50	-2.0							
	1.2s		37.90nm			4.6mb		1.1s		19.55nm			4.8mb							
			e	28	57.20		NB2	28.42	334	P	29	59.00	-1.6							
			e	29	41.50			0.6s		1.50nm			4.0mb							
KHC	20.20	313	iPc	28	41.00	-0.6	LDF	28.64	305	eP	30	01.60	-1.0							
	1.0s		14.30nm			4.3mb	FLN	28.91	305	eP	30	02.20	-2.8X							
			e	29	03.00		Z	20s		0.10um			3.4MszX							
CTI	20.28	303	P	28	41.60	-0.9	GRR	29.10	304	eP	30	04.20	-2.5							
MME	20.50	297	P	28	45.00	0.0		1.1s		21.40nm			4.9mb							
BDI	20.55	297	P	28	43.90	-1.5	LPF	29.17	303	eP	30	05.90	-1.4							
WTTA	20.66	306	iPd	28	45.70	-0.9		1.1s		34.20nm			5.1mb							
	1.3s		83.60nm			5.0mb	SOD	30.49	353	eP	30	10.00	-8.9X							
			ic	28	46 20		EKA	32.04	317	Pd	30	31.40	-1.3							
			i	28	58.50			0.8s		9.40nm			4.8mb							
			i	29	09.20		DMU	33.80	313	iPc	30	47.30	-0.7							
			i	29	37.40		IFR	33.81	276	eP	30	50.00	1.5							
BRG	20.84	317	iP	28	47.80	-0.4	DCN	33.91	312	iPc	30	48.50	-0.5							
	1.3s		44.00nm			4.7mb		1.0s		81.00nm			5.6mb							
			e	29	12.40		NDI	35.13	92	iPc	31	02.00	2.3							
OGA	20.93	305	iPc	28	49.60	0.2	WMO	38.97	64	P	31	33.20	1.2							
	1.0s		51.00nm			4 8mb		1.2s		20.00nm			4.7mb							
FUR	21.20	308	iPc	28	51 70	-0.2	GKN	41.32	89	P	31	52.08	0.4							
PGF	21 52	292	eP	28	53.10	-2.2	DMN	41.87	89	P	31	56.50	0 2							
	1.3s		97.50nm			5.0mb		1.1s		107.00nm			5.5mb							
CLL	21.58	317	iPd	28	55.20	-0.4	KKN	41.93	89	P	31	56.82	0.1							
	1.3s		43.00nm			4.7mb		0.6s		41.00nm			5.3mb							
GRF	21.83	312	eP	28	55.60	-2.6X	HYB	42.01	107	eP	31	59.50	2.2X							
MOX	22.02	315	eP	29	03.50	3.4X	PKI	42.13	89	P	31	58.48	0.0							
	1.4s		26.00nm			4.5mb	GUN	42.35	88	P	32	01.30	0.9							
FEL	23.18	306	P	29	11.08	-0.7	GBA	43.55	112	Pd	32	11.60	1.9							
FRF	23 32	295	eP	29	10.60	-2.4		0.8s		4.80nm			4.3mb							
	1.1s		51.30nm			5.0mb	LSA	45.77	83	P	32	26.80	-1.3							
BBS	23.40	305	P	29	13.44	-0.3	TIC	48.47	241	P	32	47.64	-1.2							
LMR	23 40	294	eP	29	12.60	-1.2	KIC	48.48	241	Pd	32	48.04	-0.9							
	1.2s		59.50nm			5.0mb		0.4s		6 50nm			5.0mb							
BNI	23.48	298	P	29	15.50	0.8	LIC	48.77	241	P	32	50.24	-0.9							
LPG	23.50	299	eP	29	15.10	0.1	GTA	48 84	67	eP	32	52.00	0.4							
	1.1s		65.95nm			5.1mb		1 0s		10.00nm			4.8mb							

---

* SEP 26, 1991 20h 38m 27.74± 2.47s
32.469 N ±18.3km 140.567 E ±14.3km
DEPTH = 103.4 ± 16.5 km
4.5mb (8 obs.)
SOUTH OF HONSHU, JAPAN (211)

IIDJ	3.73	324	P	39	25.90	1.6
			eS	40	12.90	
KAKJ	3.74	355	P	39	24.60	0.2
			eS	40	07.40	
CHJJ	3.80	340	P	39	25.90	0.7
			eS	40	08.40	
WKYJ	4.51	294	P	39	35.90	0.8
			eS	40	27.90	
MTMJ	4.70	332	P	39	39.20	1.6
TSRJ	4.88	310	P	39	41.00	0.9
NIIJ	4.93	345	P	39	40.20	-0.6
			eS	40	37.80	
TKSJ	5.67	287	P	39	51.50	0.5
			S	40	54.50	
YAMJ	5.71	356	P	39	50.10	-1.4
			eS	40	52.20	
YONJ	6.50	297	eP	40	03.40	0.9
			eS	41	17.30	
OFUJ	6.66	7	eP	40	02.80	-1.7
			eS	41	13.50	
AOMJ	8.08	359	eP	40	22.70	-1.2
			eS	41	49.70	
HOOJ	10.13	12	eP	40	50.50	-1.2
			eS	42	33.80	
KUSJ	11.10	16	eP	41	02.20	-2.4X
			eS	42	56.30	
ASAJ	11.74	7	eP	41	11.10	-2.0
GUN	47.06	279	P	46	50.40	-0.9
PKI	47.57	279	P	46	53.40	-1.8
KKN	47.60	280	P	46	53.80	-1.6
GKN	48.07	280	P	46	56.80	-2.0
ASPA	56.18	187	eP	47	59.40	0.3
	0.5s		3.00nm			4.6mb
INK	58.78	26	eP	48	18.00	1.2
GBA	60.24	268	Pc	48	25.30	-2.2
	0.4s		2.20nm			4.6mb
MBC	61.10	16	ePc	48	34.00	1.4
	0.5s		8.00nm			5.0mb
YKA	68.12	29	eP	49	19.10	1.0
	0.6s		3.20nm			4.4mb
SOD	68.90	338	eP	49	24.00	1.1
PNT	71.96	43	eP	49	45.00	3.3X
KAF	72.05	333	iP	49	42.10	0.2
	0.5s		2.60nm			4.3mb
NUR	73.65	332	eP	49	51.70	0.4
LRM	77.92	43	ePc	50	19.00	3.0X
FFC	77.93	32	iPc	50	17.40	1.9
	0.7s		10.00nm			4.7mb
HFS	77.96	336	eP	50	16.70	1.2
	0.4s		1.60nm			4.2mb
NB2	78.12	337	P	50	17.20	0.7
	0.9s		3.20nm			4.1mb
ZOBO	149.42	65	PKPc	58	10.00	7.3X
LPB	149.60	65	ePKP	58	10.00	7.2X
CNCB	149.86	66	PKP	58	11.90	8.6X
SIV	154.42	55	PKP	58	20.00	10.8X
	S.D. = 1.4		on 29 of 36 obs.			

SEP 26, 1991 21h 29m 46.75± 1.36s

4.848 N ±12.3km 72.757 W ±10.9km
DEPTH = 22.4 ± 9.0 km
4.1mb (1 obs.)
COLOMBIA (103)

FUO	1.16	302	eP	30 08.00	0.1
BOG	1.32	260	iPc	30 22.00	11.8X
			iS	30 52.00	
HOBC	3.40	262	iPd	30 38.39	-1.4
			eS	31 22.70	
BUGC	3.62	255	eP	30 43.65	0.7
CLMC	3.92	256	ePc	30 46.97	-0.1
HOQC	4.10	251	ePc	30 50.57	0.7
ANCC	4.31	252	ePd	30 52.68	0.1
PURC	4.39	235	eP	31 01.96	7.8X
CUMC	6.40	233	eP	31 27.44	4.8X
ZOBO	21.48	168	eP	34 38.00	1.3
			i	35 09.00	
LPB	21.74	168	P	34 39.00	-0.2
CNCB	22.03	168	P	34 41.00	-1.3
YKA	65.23	340	eP	40 28.60	0.1
	0.5s		0.70nm	4.1mb	

S.D. = 1.0 on 10 of 13 obs.

? SEP 26, 1991 21h 36m 08.69± 1.72s
6.369 S ±33.5km 146.333 E ±14.9km
DEPTH = 113.9 ± 14.4 km
4.6mb (5 obs.)
EASTERN NEW GUINEA REG., P.N.G. (207)

YYYY	0.39	289	iPc	36 27.00	1.3
LAT	0.72	113	iPd	36 26.80	-1.0
MDG	1.24	334	iPd	36 26.60	-6.5X
MNDI	2.67	274	eP	36 51.00	-0.3
PMG	3.13	165	iPd	36 28.00	-29.2X
CTAO	13.64	180	iPc	39 25.00	6.4X
	0.5s		11.69nm	4.5mb	
MTN	16.31	246	eP	39 51.50	-0.9
WR2	17.81	220	iPc	40 10.60	-0.4
	0.6s		27.10nm	4.7mb	
			eS	45 17.10	
ASPA	20.95	214	iPd	40 45.20	1.0
	0.6s		29.00nm	4.8mb	
STK	25.77	189	eP	41 31.80	1.3
	0.4s		1.80nm	4.0mb	
WAR8	27.22	221	eP	41 44.40	0.5
FORR	29.76	213	eP	42 06 00	-0.5
COOL	33.95	221	eP	42 42.80	-0.4
MRWA	36.55	228	iPc	43 05.20	0.1
	0.4s		4.00nm	4.6mb	
KLB	36.65	223	eP	43 05.40	-0.6
SIV	144.93	130	iPKPd	55 32.10	-2.8X
			i	57 13.50	
KIC	151.25	272	PKP	55 47.40	2.4X
LIC	151.53	271	PKP	55 48.10	2.7X
TIC	151.54	272	PKP	55 48.00	2.6X

S.D. = 1.0 on 12 of 19 obs.

SEP 26, 1991 22h 16m 25.73± 0.18s
16.117 S ± 6.2km 173 245 W ± 5.4km
DEPTH = 28.0km (4 depth phases)
5.2mb (31 obs.) 5.4Msz (17 obs.)
TONGA ISLANDS (173)
Mo=6.0•10••17 Nm (PPT).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L P.B : 24S, 53C
Centroid Location.
Origin Time 22.16:32.3 0 2
Lat 16.25S 0.03 Lon 172.98W 0.03
Dep 19.9 1.9 Half-duration 2.9
Moment Tensor; Scale 10••17 Nm
Mrr= 2.09 0.07 Mtt= 0.25 0 10
Mff=-2.34 0.10 Mrt=-0.14 0.14
Mrf= 4.07 0.41 Mtf= 0 04 0.07
Principal Axes:

T Val=	4.51	Plg=59	Azm=267
N	0.25	0	358
P	-4.76	31	89

Best Double Couple.Mo=4.6•10••17
NP1 Strike=180 Dip=14 Slip= 92
NP2 358 76 90

AFI	2.61	33	ePd	17 01.00	-6.1X
			eS	17 10.00	
RAR	13.73	114	P	19 35.00	-6.0X
			S	21 42.00	
DZM	20.08	250	iPc	21 00.00	-0.1
KUZ	22.76	203	P	21 28.30	1.3
			e	21 39.70	45kmX
TVO	23.01	98	iP	21 29.70	0.1
	0.8s		55.00nm	5.1mb	
URZ	23.64	199	P	21 37.30	1.9
			e	21 47.20	36km
VAH	24.67	92	iP	21 45.80	0.1
	0.8s		25.00nm	4.9mb	
TPT	24.71	91	iP	21 46.20	0.2
	0.8s		25.00nm	4.9mb	
RUV	24.92	91	iP	21 48.00	0.0
	0.8s		35.00nm	5.0mb	
DSZ	28.61	204	eP	22 23.00	1.2
LTZ	29.33	202	P	22 27.40	-0.9
ARMA	35.11	240	iPc	23 18.80	-0.2
RMO	36.75	247	eP	23 42.00	9.1X
CNB	38.44	233	eP	23 46.00	-1.0
CTAO	38.63	258	iPd	23 39.50	-9.2X
	0.8s		7.52nm	4.5mb	
			eS	28 54.00	
CAN	38.72	233	eP	23 48.40	-0.9
BWA	38.88	235	eP	23 48.60	-2.1
CMS	40.20	240	eP	24 01.00	-0.6
OLP	40.78	248	iPd	24 05.80	-0.6
STK	43.82	241	eP	24 31.00	-0.1
	0.7s		11.00nm	4.8mb	
BFD	44.25	233	eP	24 33.00	-1.6
WR2	49.81	257	iPc	25 17.30	-1.2
	0.5s		21.50nm	5.4mb	
FORR	55.20	243	eP	25 57.00	-1.6
WARB	56.53	249	eP	26 07.00	-1.3
	0.6s		21.00nm	5.3mb	
COOL	61.17	243	eP	26 39.20	-1.3
	0.4s		3 00nm	4.8mb	
MBL	63.21	254	eP	26 53.00	-1.2
KLB	64.03	242	eP	26 59.00	-0.5
NWAO	64.40	241	eP	27 02.00	0.1
	Z 20s		1.60um	5.2Msz	
MUN	65.33	242	iPd	27 07.60	-0.3
NANU	66.97	252	eP	27 19.00	0.5
	0.5s		14.00nm	5.3mb	
PCI	67.60	276	ePd	27 26.50	3.9X
ADK	67.78	358	P	27 23.00	0.1
	1.0s		60.00nm	5.7mb	
SMY	69 43	352	P	27 40.00	6.9X
	Z 20s		3.00um	5.5Msz	
CSY	69.83	205	eP	27 37.20	1.8
	0.7s		10.80nm	5.1mb	
BCH	71.71	44	P	27 46.90	-0.6
ARN	72.06	41	P	27 49.50	0.0
PAS	72.41	46	eP	28 08.00	16.5X
PLM	72.88	47	P	27 54.50	0.0
SBB	72.95	45	eP	27 54.00	-0.8
CMB	73.20	41	P	27 55.70	-0.5
	1.3s		34.43nm	5.2mb	
			pP	28 03.50	25km
ORV	73.43	39	P	27 56.80	-0.6
GSC	73.98	45	eP	28 01.00	0.2
SPA	73.99	180	iPc	27 59.90	-0.5
	1.1s		29.76nm	5.2mb	
BONR	74.49	42	P	28 03.60	-0.3
LON	77.78	33	P	28 21.10	-0.9
RSO	78.08	10	P	28 22.20	-1.3
SVW	78.24	9	eP	28 23.80	-0.4
	0.7s		73.84nm	5.8mb	
MSU	78.83	44	P	28 28.80	0.6
DUG	79.28	43	P	28 30.10	-0.4
MDJ	79.68	322	eP	28 32.00	-0.3
PMR	79.79	11	P	28 40.20	7.7X
	Z 20s		1.00um	5.2Msz	
TTA	79.94	8	ePc	28 34.30	0 9
	1.2s		27.30nm	5.1mb	
HVU	80.14	41	P	28 35.40	0.3
DPW	80.40	34	P	28 36.00	-0.2
PNT	80.54	32	eP	28 37.00	0.2
TOA	80.85	13	eP	28 38.90	0.6
PV09	80.89	46	P	28 38.90	-0.4
			pP	28 47.00	26km
ALO	81.14	50	eP	28 40.20	-0.4
	1.3s		18 75nm	4.9mb	
	Z 20s		1.42um	5.3Msz	
ANMO	81.15	50	P	28 40.30	-0 3
	1.3s		25.48nm	5.1mb	
	Z 20s		1 60um	5.4Msz	
NEW	81.21	34	P	28 39.00	-1 4
	0.9s		14.91nm	5.0mb	
SNY	81.90	318	Pc	28 45.00	0.9
	Z 22s		1.10um	5.2Msz	
LRM	82.49	38	eP	28 47.20	-0.2
BW06	82.70	42	P	28 48.00	-0.6
	1.0s		12.00nm	4.9mb	
			pP	28 55.90	25km
FBA	83.07	11	ePc	28 49.80	0.1
	0.8s		34.40nm	5.5mb	
GOL	84.04	46	P	28 55.10	-0.4
	1.0s		15.75nm	5.2mb	
	Z 20s		1.75um	5.4Msz	
GLD	84.17	46	P	28 56.00	0.0
	1.2s		54.55nm	5.6mb	
	Z 20s		2.00um	5.5Msz	
SES	85.70	35	eP	29 03.00	-0.3
BJI	86.07	313	eP	29 06.50	1 3
	1.7s		49.00nm	5.5mb	
	Z 26s		0.67um	4.9MszX	
RSSD	86.88	42	P	29 08.00	-1.5
	1.0s		13.56nm	5.1mb	
MEO	86.98	53	iPd	29 10.10	0.2
IPM	87.16	276	ePc	29 12.80	1.6
MAW	B7.16	199	iPc	29 17.00	6.8X
	1.1s		22.00nm	5.3mb	
TIY	87.82	310	eP	29 15.00	1.1
GYA	88.51	298	P	29 19.80	2.3X
	1.0s		10.00nm	5.1mb	
			sP	29 32.00	
INK	88.93	14	ePd	29 17.20	-1.2
XAN	89.17	306	P	29 21.50	1.1
TUL	89.52	52	PDIF	29 29.00	7.1X
	Z 20s		1.95um	5.5Msz	
	N 18s		0.66um		
	E 20s		1.24um		
			e	39 57.00	
			e	53 17.00	
			LR	57 38.00	
HHC	89.62	313	P	29 24.00	1.5
	1.2s		20.00nm	5.3mb	
YKA	90.69	23	eP	29 26.50	-0.3
	1.0s		4.40nm	4.7mb	
NST	91.12	286	eP	29 34.00	4.4X
BDT	92.59	287	ePc	29 38.60	2.2
	0.6s		23.20nm	5.8mb	
CHG	93.08	289	ePc	29 41.00	2.3X
	1.0s		17.50nm	5.4mb	
NVL	93.27	182	eP	29 40.00	1.3
			e	29 56.00	55kmX
			eS	40 50.00	
LZH	93.77	306	eP	29 42.00	0.2
	5.0s		300.00nm	6.0mb X	
	Z 30s		1.00um	5.1MszX	
			sP	29 54.00	
GTA	97.74	309	eP	30 00.80	1.1
QUE	123.48	296	ePKP	35 24.00	1.2
SOB1	126.54	115	ePKP	35 28.30	-0.7
MAIO	129.25	304	ePKP	35 35.00	1.4
OBN	134.82	336	ePKP	35 28.00	-15.4X
	Z 22s		0.60um	5.3Msz	
	N 20s		0.40um		
	E 22s		0.40um		
			eP'P'	35 52.00	
			i	36 10.00	
HFS	135.76	355	ePKP	35 46.90	1.9
	0.5s		1.00nm		
BUL	138.05	212	ePKP	35 42.90	-7.9X
WTS	144.21	360	ePKP	36 03.00	2.5X
KRA	144.50	345	iPKPd	36 00.00	-1.1
			e	36 12.30	
			e	36 16.60	
KSP	144.52	350	ePKPc	35 59.70	-1.4
CLL	144.54	353	ePKP	35 59.00	-2.1
	0.9s		17.00nm		
			i	37 19.20	
BRG	144.85	352	ePKP	36 00.80	-0.9
	1.2s		15.00nm		
			i	36 08.80	
			e	36 26.00	
BNS	145.24	360	ePKPc	36 01.80	-0.5
	0.7s		29.00nm		
MOX	145.34	355	ePKP	36 02.50	0.0
	1.7s		55.00nm		
ENN	145.43	1	ePKP	36 02.50	-0.1
BMR	145.63	340	ePKPd	36 05.00	1.9
PRU	145.63	351	PKPc	36 03.50	0.5
	1.5s		53.20nm		
	Z 22s		1 10um	5.6Msz	

26d 22h

	N 22s	0.60um				
		e	36	12.60		
		e	36	38.20		
VRI	145.95	335	ePKPc	36	04.50	0.8
GRF	146.32	355	iPKPc	36	06.10	1.9
	Z 21s	0 70um				5.4Msz
		e	36	15.40		
PSZ	146.49	344	ePKP	36	05.00	0.4
WLF	146.54	1	PKP	36	07.00	2.6X
MLR	146.58	335	ePKPc	36	17.00	12.1X
KHC	146.61	352	iPKPc	36	07.00	2.3X
	1.4s	29.40nm				
	Z 20s	1.10um				5.6Msz
	N 20s	0.50um				
	E 20s	0.30um				
		e	36	15.50		
		e	36	53.20		
ZST	146.90	347	iPKP	36	08.40	3.3X
FLN	146.91	9	iPKPc	36	06.70	1.6
	0.9s	16.40nm				
	Z 21s	0.75um				5.5Msz
SRO	146.99	346	ePKP	36	07.40	2.2X
LDF	147.12	8	iPKPc	36	07.30	1.8
	1.2s	20.85nm				
GRR	147.22	9	ePKP	36	07.90	2.3X
	0.9s	11.45nm				
GWF	147.22	359	PKP	36	08.19	2.5X
COZ	147.35	337	ePKPc	36	10.00	3.8X
LPF	147.53	10	iPKPc	36	08.80	2.7X
	1.0s	40.00nm				
CDF	147.79	359	PKP	36	09.78	3.1X
VITF	147.98	1	PKP	36	10.29	3.4X
AAE	148.00	261	ePKP	36	14.00	5.7X
BZS	148.06	340	ePKP	36	10.00	3.0X
UZD	148.06	345	ePKP	36	10.50	3.5X
BHG	148.08	352	iPKPc	36	10.90	3.8X
HAU	148.20	1	iPKPc	36	11.10	3.8X
	0.9s	16.40nm				
	Z 22s	0.77um				5.5Msz
FEL	148.31	358	PKP	36	10.97	3.4X
MOF	148.35	360	PKP	36	11.08	3.5X
BSF	148.37	360	PKP	36	11 21	3.6X
BHL	148.55	310	PKP	36	12.00	3.6X
KBA	148.65	351	iPKPc	36	11.60	3.4X
	0.8s	13.10nm				
		i	36	21.40		
		i	36	27.20		
WTTA	148.68	354	iPKPc	36	12.30	4.0X
	0.8s	16.00nm				
		i	36	24.40		
		i	36	32.10		
HRI	148.76	308	iPKPc	36	14.00	5.3X
LOR	148.85	4	iPKPc	36	12.30	4.0X
	0.9s	13 90nm				
	Z 22s	1.05um				5.6Msz
LOMF	148.86	360	PKP	36	11.23	2.8X
SSF	149.03	4	iPKPc	36	13.40	4.8X
	1.5s	62.70nm				
MFF	149.07	9	iPKPc	36	13.10	4.5X
OGA	149.13	354	ePKP	36	14.00	5.0X
LBF	149.14	4	iPKPc	36	13.60	4.8X
	1.0s	17.00nm				
BEO	149.14	341	ePKP	36	13.00	4.2X
AVF	149.29	5	iPKPc	36	13.70	4.7X
PTJ	149.32	347	ePKP	36	13.50	4.3X
ZAG	149.40	347	ePKPc	36	13.50	4.4X
LJU	149.46	349	ePKP	36	14.00	4.7X
SMF	149.47	4	iPKPc	36	14.10	4.8X
	1.4s	32.65nm				
BGF	149.48	5	iPKPc	36	14.40	5.1X
	1.0s	20 00nm				
VOY	149.58	350	e(PKP)	36	12 20	2.6X
LSF	149.64	7	iPKPc	36	14.30	4.8X
TCF	149.68	6	iPKPc	36	14 70	5.1X
	1.2s	17 85nm				
CSS	149.70	313	ePKP	36	15.50	5.5X
ZNT	149.75	307	iPKPc	36	16.00	5.9X
CEY	149.78	349	e(PKP)	36	14.80	5.0Y
MAF	149.78	6	iPKPc	36	15 20	5.4X
	1.3s	36.10nm				
VBY	149.84	348	ePKPc	36	15 50	5.7X
KHL	150.17	322	ePKP	36	16 00	5.3X
PPCY	150.43	314	ePKP	36	16 00	5 0X
RJF	150.57	8	ePKP	36	16 70	5.7X
	Z 22s	0.68um			5	4Msz
LPL	150.69	0	iPKPc	36	18.50	7.1X
	1.3s	27.10nm				

LPG	150.71	0	iPKPc	36	18.50	7.0X
	1.3s	36.10nm				
LFF	150.82	9	iPKPc	36	17.50	6.2X
	0.9s	14.75nm				
MBH	150.85	303	iPKPc	36	18.70	6.8X
CAF	151.01	7	iPKPc	36	18.00	6.3X
LPO	151.14	8	iPKPc	36	18.20	6.4X
	1.0s	16.00nm				
SKO	151.30	337	ePKP	36	18.50	6.3X
OHR	152.29	337	ePKP	36	20.70	7.0X
	1.2s	79.00nm				
LIC	164.84	129	PKP	36	28.90	0.0
	Z 22s	0.55um				
TIC	165.11	128	PKP	36	29.10	-0.1
KIC	165.14	129	PKP	36	28.90	-0.3

S.D. = 1.0 on 93 of 164 obs.

SEP 26, 1991 22h 17m 43.96± 0.64s
37.673 N ± 6.7km 27.105 E ± 6.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 4.0 (ATH).

YER	1.08	119	iPn	18	03.80	-0.5
			eSg	18	23.80	
PRK	1.70	338	eP	18	12.20	-1.6
			eS	18	35.00	
KHL	2.02	70	ePn	18	20.00	1.5
EZN	2.23	344	ePn	18	17.50	-4.0X
ELL	2.42	112	ePn	18	23.00	-1.3
NPS	2.69	207	eP	18	28.00	-0.1
ATH	2.70	277	eP	18	28.00	-0.2
			eS	19	04.50	
EDC	2.73	12	ePn	18	29.00	0.3
BCK	2.78	93	ePn	18	29.00	-0.4
MFT	3.11	2	ePn	18	32.00	-2.1
IZI	3.24	34	ePn	18	37.00	1.1
YLV	3.39	31	ePn	18	39.00	1.0
VLI	3.46	255	eP	18	40.50	1.5
RDO	3.67	341	eP	18	36.10	-5.9X
ISK	3.71	23	ePn	18	43.00	0.5

S.D. = 1.3 on 13 of 15 obs.

& SEP 26, 1991 22h 34m 49.80s
63.016 N 150.760 W
DEPTH = 105.9km
CENTRAL ALASKA (1)
<AEIC>.

TRF	0.49	26	eP	35	06.83	0.3
			S	35	19.04	
HUR	0.51	94	eP	35	06.24	-0.3
			S	35	18.99	
KTH	0.54	352	eP	35	06.86	0.0
CUT	0.65	160	iP	35	07.37	-0.2
			iS	35	20.68	
RND	0.95	65	iP	35	10.09	-0.4
MCK	1.09	48	eP	35	12.35	0.4
SKT	1.10	199	iP	35	11.61	-0.5
			eS	35	27.96	
PWA	1 43	163	eP	35	15.88	0.0
			eS	35	35.60	
GHO	1.51	145	eP	35	16.80	-0.2
			eS	35	37.33	
SUA	1.56	180	eP	35	17.87	0.3
			eS	35	39.11	
SML	1.66	136	iP	35	17.98	-0.8
NEA	1.74	25	iP	35	19.05	-0.7
NCG	1.75	203	eP	35	19.44	-0.5
			S	35	42.89	
CGLM	1.81	199	eP	35	20.64	-0.1
			eS	35	43.33	
PMS	1.87	162	eP	35	20.32	-1.1
			eS	35	44.29	
WRH	1.88	38	eP	35	20.98	-0.6
BGL	1.92	204	eP	35	22.48	0.3
KNK	1.94	145	eP	35	21.44	-0.9
			eS	35	46.01	
SPU	1.94	199	eP	35	22.14	-0.2
CKL	1.97	203	eP	35	23.22	0.4
SCM	1.99	125	eP	35	21.98	-1.1
CCB	2.10	37	eP	35	23.63	-0.7
HDA	2.19	49	eP	35	25.29	-0.4
MDM	2.25	29	eP	35	25.56	-0.8
TOA	2.31	111	eP	35	26.80	-0.5
TTA	2 40	270	eP	35	28.10	-0 3
PAX	2.42	89	eP	35	28.30	-0 4

SDG	2.45	99	eP	35	28.59	-0.5
SLKM	2.53	174	eP	35	29.33	-0.8
RDN	2.69	202	eP	35	31.82	-0.5
KLU	2.73	122	eP	35	30.83	-2.1
SEW	2.99	167	eP	35	34.96	-1.3
KNIM	3.04	150	eP	35	34.62	-2.4
FID	3.05	136	eP	35	34.80	-2.3

34 obs. assaciated

SEP 26, 1991 22h 42m 55.31± 0.45s
1.151 S ± 6.9km 120.632 E ± 8.1km
DEPTH = 33.0km (normal)
5.0mb (11 obs.) 4.8Msz (2 obs.)
SULAWESI, INDONESIA (268)

PCI	0.83	287	ePc	43	09.50	-1.1
			eS	44	17.50	
MKS	4.20	196	iPc	43	59.50	0.8
MNI	4.93	59	ePc	44	11.00	1.9
TSM	6.07	333	ePc	44	23.80	-1.4
			e	45	37.50	
KKM	8.40	328	ePc	45	01.00	3.2X
IPM	20.40	286	ePd	47	34.50	2.1
	0.9s	41.90nm				4.8mb
PSI	22.04	280	ePc	47	51.20	2.3
			e	50	45.00	
QIZ	22.68	333	P	47	56.50	1.2
WR2	23.01	145	iPd	47	54.90	-3.6X
	0.8s	13.50nm				4.5mb
WARB	25.55	167	eP	48	22.00	-1.0
CHG	29.12	314	eP	48	57.00	1.4
CHTO	29.12	314	eP	48	56.80	1.3
	1.2s	11.11nm				4.4mb
WHN	32.08	350	eP	49	22.50	1.0
CD2	35.70	335	eP	49	49.30	-3.5X
STK	36.41	149	eP	49	58.10	-0.7
	1.1s	3.70nm				4.2mb
XAN	36.69	344	P	50	01.50	0.3
TIY	39.41	350	eP	50	24.60	0.7
E	14s	0.40um				
BJI	41.20	355	eP	50	38.00	-0.5
LSA	41.63	320	P	50	41.40	-1.4
HHC	42.61	350	eP	50	51.00	0.8
SNY	42.86	3	Pc	50	50.00	-2.1
	1.6s	40.00nm				4.9mb
CAN	43 04	145	eP	50	54.50	0.8
GUN	44.14	314	P	51	04.46	1.3
	0.6s	36.00nm				5.3mb
PKI	44.29	313	P	51	04.08	-0.3
KKN	44.50	313	P	51	05.86	-0.1
	1.3s	62.00nm				5.3mb
DMN	44.53	313	P	51	06.46	0.2
GTA	44.65	337	eP	51	07.00	0.1
	0.8s	100.00nm				5.7mb
Z	22s	1.50um				4.9Msz
			eS	57	42.00	
GKN	45.09	313	P	51	09.20	-1.4
	0.6s	25.00nm				5.3mb
GBA	45.25	290	Pc	51	10.90	-0.9
	0.6s	9.00nm				4.9mb
HYB	45.37	296	eP	51	12.50	-0.3
MDJ	46.26	9	eP	51	18.00	-1.4
	1.3s	40.00nm				5.2mb
POO	49.96	295	iPd	51	48.60	-0.1
WMO	53.59	331	P	52	16.50	1.0
Z	20s	0.80um				4.8Msz
			sP	52	34.50	
QUE	59.82	306	eP	52	58.20	-2.2
YAK	63.38	5	eP	53	20.00	-3.4X
MAIO	67.78	310	eP	53	51.00	-1.4
CNCB	160.23	155	ePKP	02	53.00	-1.0
LPB	160.43	154	ePKP	02	54.00	0.0
Z	20s	1.77um				
		LR		03	08.00	
ZOBO	160.65	154	PKP	02	54.20	-0.2
Z	20s	1.28um				
		LR		03	12.00	

S.D. = 1.2 on 35 of 39 obs.

---

* SEP 26, 1991 23h 55m 53.61± 0.72s
23.812 N ± 8.9km 102.475 E ±11.3km
DEPTH = 33.0km (normal)
4.0mb (2 obs.)
YUNNAN, CHINA (318)
ML 3 8 (BJI).

KMI	1.33	10	Pgd	56	17.00	0.8

		Sg	56 33.00			
GYA	4.62 54	Pn	57 03.60	0.5		
		Sn	57 57.40			
		Sg	58 18.40			
CHG	5.96 214	ePd	57 22.50	0.5		
		ePg	57 45.00			
		eSg	59 08.00			
LOE	6.41 186	eP	57 57.00	28.8X		
CD2	7.16 9	ePn	57 36.00	-2.8		
		Sn	58 54.00			
BDT	7.30 207	eP	57 39.00	-1.6		
OIZ	8.35 123	eP	57 55.00	-0.4		
WHN	12.51 55	eP	58 53.20	1.0		
TIY	16.27 29	eP	59 41.00	-0.3		
GBA	25.76 251	Pd	01 24.40	1.3		
	0 4s	1.60nm	4.0mb			
NB2	70 07 329	P	07 05.00	0.8		
	0 7s	1 10nm	4.0mb			
S.D = 1.5 on 10 of 11 obs.						

% SEP 27, 1991 00h 37m 21.64± 1 59s
43.058 N ±16.7km 7.176 W ± 8.5km
DEPTH = 10.0km (geophysicist)
SPAIN (377)
mbLg 3.3 (MDD).

ERUA	0.66 178	iPgc	37 36.49	1.6		
		eSg	37 44.40			
STS	1.02 261	iPgd	37 41.51	0.5		
		eSg	37 54.40			
EZAM	1.44 232	ePn	37 46.78	-1.0		
		eSn	38 03.20			
EPLA	3.10 164	ePn	38 10.87	-0.7		
		eSn	38 44.90			
GUD	3 30 136	ePn	38 13 45	-1.1		
		eSn	38 52.50			
ECRI	3.46 96	ePn	38 17.39	0.7		
		eSn	38 57.20			
S.D = 1.4 on 6 of 6 obs.						

? SEP 27, 1991 01h 47m 18.28± 4.80s
2.926 N ±21.4km 79.740 W ±41.6km
DEPTH = 10.0km (geophysicist)
SOUTH OF PANAMA (83)
MD 4.2 (QUI).

CUMC	2.70 136	iPc	48 02 42	-0.6		
		eS	48 31.50			
ANCC	2.93 78	iPc	48 05.83	0 0		
		eS	48 37.50			
HOOC	3.15 80	iPc	48 08.84	-0.3		
		eS	48 42.80			
YANA	3.24 159	P+	48 10.80	0.2		
		S	48 46.50			
GGP	3.29 160	P	48 11.40	0.0		
OUR	3.31 158	eP	48 13.80	2.3X		
		S	48 47.40			
CLMC	3 31 73	eP	48 11.00	-0.4		
PURC	3.43 100	iPc	48 13.92	0.6		
BUGC	3 61 74	ePc	48 15.81	0 3		
ANGL	3.96 146	eP	48 07.70	-13.1X		
S.D. = 0.5 on 8 of 10 obs						

SEP 27, 1991 02h 33m 17.10± 2.70s
15.218 N ± 5.5km 60 460 W ±24.6km
OEPTH = 10.0km (geophysicist)
LEEWARD ISLANDS (92)
ML 2.8 (FDF).

CRM	0.64 224	iPd	33 30.21	0.3		
		S	33 39 50			
MVM	0 78 213	iPd	33 32.22	-0 1		
		S	33 42.90			
FDF	0 82 234	iPd	33 33.09	0.0		
	0 1s	0 90nm				
		S	33 44.90			
BIM	0.91 220	iPd	33 34 39	-0.2		
		S	33 46.90			
BBL	1.03 287	eP	33 36.00	-0.5		
MGG	1.08 310	eP	33 38.00	0.6		
		S	33 53 00			
DEG	1 23 332	eP	33 39 80	-0.2		
S.D. = 0.5 on 7 of 7 obs.						

& SEP 27, 1991 03h 02m 12.43s
57.751 N 156 150 W
DEPTH = 83.3km

4 0mb (1 obs.)
ALASKA PENINSULA (12)
<AEIC>.

MCNL	1.73 33	iP	02 39.77	-1.5		
		eS	03 01.34			
CDD	1.77 47	iP	02 40.73	-1.2		
		iS	03 03.64			
KDC	1.96 89	eP	02 42.91	-1.5		
		eS	03 06.61			
AUI	2.14 41	iP	02 45.29	-1.5		
		eS	03 11.04			
AUW	2.15 40	iP	02 45.55	-1.4		
		eS	03 12.59			
AUH	2.15 40	eP	02 45.51	-1.6		
		eS	03 10.66			
AGU	2.15 40	iP	02 45.73	-1.4		
		S	03 10.93			
AUP	2.16 40	iP	02 45.74	-1.5		
AUL	2.17 40	iP	02 45.82	-1.4		
SYI	2.17 65	eP	02 45.83	-1.4		
		eS	03 12.03			
AUE	2.17 41	iP	02 45.98	-1.3		
OPT	2.44 37	iP	02 49.29	-1.7		
INW	2.80 33	eP	02 53.55	-2.5		
INE	2.82 33	iP	02 53.79	-2.5		
HOM	3.03 49	eP	02 57.64	-1.4		
CNPM	3.13 53	eP	02 57.92	-2.5		
RED	3.19 32	iP	02 58.69	-2.8		
		eS	03 36.30			
RS1	3.23 31	iP	02 59.40	-2.7		
RS2	3.23 31	iP	02 59.41	-2.7		
RSO	3.23 31	iP	02 59.37	-2.8		
RDW	3.24 31	iP	02 59.33	-2.8		
NCT	3.27 29	iP	02 59.63	-2.9		
REF	3.27 31	iP	02 59.77	-2.8		
RDN	3.27 31	iP	02 59.85	-2.8		
DFR	3.36 31	eP	03 00.75	-3.0		
SVW	3.38 4	iP	03 00.60	-3.4		
NNL	3.41 46	eP	03 02.42	-1.9		
SDN	3.41 227	eP	03 02.21	-2.1		
RDT	3.43 33	iP	03 01.64	-3.0		
CKL	3.97 28	eP	03 09.59	-2.6		
BGL	4.01 27	iP	03 10.67	-2.1		
SPU	4.03 30	eP	03 09.60	-3.4		
SLKM	4.12 45	eP	03 10.47	-3.8		
		eS	03 58.28			
CGLM	4.14 29	eP	03 11.56	-3.1		
NCG	4.19 27	eP	03 12.66	-2.7		
SEW	4.20 53	eP	03 11.63	-3.7		
SUA	4.63 34	iP	03 17.74	-3.7		
		eS	04 07.15			
SKT	4.84 27	eP	03 20.71	-3.6		
PMS	4.85 41	iP	03 20 24	-4.3		
		eS	04 10.91			
LTI	4.88 58	eP	03 20.34	-4.4		
PWA	5.04 36	eP	03 22 39	-4.6		
KNIM	5.06 56	iP	03 22.84	-4.6		
TTA	5.20 1	eP	03 25.30	-4.0		
PLRM	5 24 40	eP	03 23.86	-6.0		
KNK	5.36 44	eP	03 26.16	-5.4		
GHO	5.44 39	eP	03 26.44	-6.3		
CUT	5.52 30	eP	03 28.57	-5.1		
GLI	5.60 52	eP	03 29.08	-5.8		
SML	5.67 41	iP	03 29.88	-6.0		
FID	5.80 55	eP	03 31.61	-6.1		
VZW	5.92 52	eP	03 34.19	-5.1		
CVA	6.04 58	eP	03 35.66	-5.3		
VLZ	6.05 52	eP	03 35.84	-5.2		
SCM	6.05 44	eP	03 35.53	-5.6		
HUR	6.16 29	eP	03 37.31	-5.3		
KTH	6.36 22	eP	03 40.34	-5.1		
KLU	6.40 50	eP	03 40.52	-5.5		
TRF	6.40 24	eP	03 40.79	-5.4		
RAGM	6.48 61	eP	03 41 98	-5.1		
HMT	6.66 62	eP	03 44.74	-4.8		
RND	6.71 29	eP	03 45.11	-5.2		
TZL	6.90 47	eP	03 48.30	-4.5		
MCK	6.96 27	eP	03 47.87	-5.8		
SDG	7.14 43	eP	03 50.94	-5.1		
BWN	7.21 24	eP	03 51.33	-5.8		
GL8	7.27 54	iP	03 52.78	-5.2		
CROM	7.32 60	iP	03 53.89	-4.8		
WAX	7.36 63	eP	03 54.24	-5.0		
PAX	7.44 41	eP	03 54.04	-6.3		
TGL	7 46 61	eP	03 55.61	-5.0		
NEA	7.65 24	eP	03 56.23	-6.9		
WRH	7.78 27	eP	03 57.67	-7.3		
CCB	8.00 27	eP	04 00.45	-7.4		
HDA	8.02 30	eP	04 00.85	-7.4		
MDM	8.17 24	eP	04 02.76	-7.5		
FBA	8.21 26	eP	04 03.36	-7 5		
CTGM	8.22 61	eP	04 06.20	-4.9		
GLM	8.38 26	eP	04 05.74	-7.5		
INK	14.63 35	eP	05 28.00	-8.0		
YKA	20.94 59	eP	06 43.40	-6.5		
	0.5s	3.90nm	4.0mb			
HFS	62.18 6	eP	12 16.00	-10.6		
	0.4s	1.30nm				
81 obs. ossocioted						

SEP 27, 1991 06h 02m 46.30± 0.40s
46.770 N ± 6.5km 152.444 E ± 7.1km
DEPTH = 33.0km (normal)
4.9mb (35 obs.)
KURIL ISLANDS (221)

MAT	14.73 231	eP	06 15.00	1.0		
	0.6s	30.67nm	4.9mb			
		eS	08 50.00			
MDJ	16.10 271	eP	06 37.50	5.8X		
CN2	19.19 271	eP	07 09.00	-0.9		
YAK	20.04 328	eP	07 18.80	-0.1		
		ePP	07 46.00			
		ePPP	07 53.00			
		eS	10 59.00			
		ePcP	11 15.00			
		eSS	11 35.00			
SNY	21.18 267	iPc	07 32.90	2.0		
HHC	29.83 274	eP	08 53.50	0.9		
	0.8s	30.00nm	5.1mb			
TIY	30.69 267	eP	09 01.00	0.9		
XAN	35.06 265	Pc	09 38.00	-0.1		
FBA	36.43 38	e(P)	10 11.30	22.0X		
	0.6s	9.85nm				
LZH	37.43 271	iPc	09 59.00	0.8		
	1.5s	91.00nm	5.4mb			
GTA	38.51 279	Pd	10 08.20	1.0		
	1.0s	20.00nm	4.9mb			
CD2	40.42 265	P	10 23.60	0.6		
	0.9s	40.00nm	5.2mb			
GYA	41.27 257	iPc	10 30.60	0.5		
	1.0s	10.00nm	4.5mb			
INK	41.88 32	eP	11 06.00	31.6X		
WMQ	44.49 291	eP	10 56.00	-0.1		
LSA	49.81 273	eP	11 37.80	-0.7		
CHG	51.68 256	ePc	11 52.20	0.0		
	0.9s	27.52nm	5.2mb			
SHL	51.91 268	iP	11 53.50	-0.6		
GUN	54.54 275	P	12 13.12	-0.7		
KKN	55.03 275	P	12 16.86	-0.3		
PKI	55.08 275	P	12 17.24	-0.5		
DMN	55.26 275	P	12 18.94	0.0		
GKN	55.33 275	P	12 18.98	-0.3		
KEV	57.17 340	eP	12 30.00	-1.7		
GAR	58.09 295	eP	12 37.60	-1.2		
SOD	59.07 339	eP	12 44.00	-1.0		
BGMT	62.14 53	eP	13 07.90	1.3		
KAF	63.23 335	iP	13 11.60	-1.6		
	0.5s	5.10nm	4.9mb			
NUR	64.99 334	eP	13 24.10	-0.6		
QUE	65.79 289	eP	13 29.80	-0.7		
HYB	66.54 271	eP	13 34.20	-1.0		
CTAO	66.78 186	eP	13 36.00	-0.5		
NB2	68.06 341	P	13 43.20	-1.0		
	0.8s	20.60nm	5.3mb			
HFS	68.28 339	eP	13 44.10	-1.4		
	0.5s	10.00nm	5.2mb			
WR2	68.38 198	eP	13 45.10	-1.5		
	0.8s	5.80nm	4.7mb			
GBA	69.96 269	Pc	13 55.20	-1.3		
	0.6s	12.60nm	5.2mb			
ASPA	72.08 198	iPc	14 09.00	-0.1		
	1.1s	8.70nm	4.7mb			
KOD	72.33 266	eP	14 10.70	-0.4		
KSP	75.68 333	ePc	14 28.80	-0.8		
SPC	75.81 330	eP	14 21.80	-8.8X		
		e	14 30.70			
EKA	76.21 346	P	14 33.00	0.4		
	0.7s	3.80nm	4.5mb			
CLL	76.25 335	iPc	14 32.50	-0.3		
	1.3s	41.00nm	5.3mb			
BRG	76 36 334	iP	14 33.20	-0.3		
	1.0s	10 00nm	4.8mb			

27d 06h

```
MOX     77.24 336 iPd   14 38.50   0.1
        1.3s    20.00nm          5.0mb
ZST     77.72 331 eP    14 40.90  -0.1
KHC     78.02 334 iP    14 43.00   0.3
        1.0s    10.70nm          4.8mb
GRF     78.21 335 eP    14 44.80   1.1
        0.9s    24.00nm          5.2mb
WTTA    80.27 334 i(P)  14 55.80   0.6
        0.6s     6.90nm          4.9mb
                  i     14 56.50
CDF     80.46 337 eP    14 56.00   0.0
SKO     81.51 325 eP    15 01.00  -0.5
FLN     81.98 342 eP    15 04.70   0.9
        0.7s     7.70nm          4.8mb
LOR     82.40 339 iPc   15 06.10   0.0
        0.7s     8.25nm          4.9mb
GRR     82.41 342 eP    15 06.40   0.3
        0.7s    11.00nm          5.0mb
LBF     82.63 339 iPc   15 07.10  -0.2
        0.7s     5.50nm          4.7mb
SSF     82.68 339 iPc   15 07.60   0.1
        0.8s     8.75nm          4.9mb
LPF     82.79 342 eP    15 09.40   1.4
        0.9s    13.10nm          5.0mb
MML     82.91 311 eP    15 09.60   0.6
AVF     82.97 339 iPc   15 09.30   0.3
        0.9s     9.85nm          4.9mb
SMF     82.98 339 iPc   15 09.40   0.3
        0.9s     9.85nm          4.9mb
LPL     83.27 336 eP    15 11.50   0.6
LPG     83.28 336 eP    15 11.60   0.5
        0.7s     4.40nm          4.7mb
MAF     83.69 339 eP    15 13.50   0.8
        0.7s    12.15nm          5.2mb
TCF     83.71 340 eP    15 13.20   0.3
        0.8s     6.05nm          4.8mb
MFF     83.96 341 eP    15 14.90   0.8
        0.7s     6.60nm          4.9mb
MKT     84.21 310 eP    15 16.20   0.5
RJF     84.80 340 eP    15 19 30   1.0
        0.7s     4.10nm          4.7mb
CAF     85.03 339 eP    15 20.40   0.9
        1.0s    12.00nm          5.0mb
MBH     85.28 309 eP    15 21.70   0.6
NWAO    85 44 209 eP    15 22.00   0.6
LPO     85.47 340 eP    15 23.00   1.3
        0 8s     6.70nm          4.9mb
TIC   123.18 333 PKP   21 40.00  -1.3
KIC   123 36 333 PKP   21 40.30  -1.4
NVL   149 46 204 ePKP  22 31.00   3.6X
      S.D = 0.8  on  68 of  73 obs.
-------------------------------------
*  SEP  27, 1991  06h 29m 50.21± 1.20s
   36.589 N ±13.4km   71.285 E ± 7.7km
   DEPTH = 221.4 ± 16.3 km
   3.9mb (  5 obs.)
 AFGHANISTAN-TAJIKISTAN BORD REG.(717)

QUE      7.34 211 eP    31 36.50   0.6
        0.5s   214.79nm          5.5mb X
                 eS     32 58.50
NDI      9.33 146 iPd   32 02.00   0.5
        0.4s    12.71nm          4.5mb
                 iS     33 39.00
MAIO     9.51 272 eP    32 03.00  -0.8
GKN     14.16 123 P     33 02.60   0.0
DMN     14.73 124 P     33 09.60  -0.1
KKN     14.73 123 P     33 09.46  -0.2
PKI     14.96 123 P     33 12.28  -0.3
GUN     15.06 121 P     33 13.98   0.1
GBA     23.54 165 Pc    34 41.30  -0.6
        0 4s     2.30nm          4.1mb
LZH     26.17  81 eP    35 23.50  17.3X
        1.2s    19.00nm
HFS     43.14 322 eP    37 31.30   1.2
        0.3s     1.40nm          3.9mb
NBO     44.45 323 P     37 40.00  -0.5
        0.5s     1.00nm          3.5mb
WRA     81.84 122 P     41 46.00   0.0
        0 3s     0.70nm          3.9mb
      S.D. = 0 7  on  12 of  13 obs.
-------------------------------------
?  SEP  27, 1991  07h 05m 42.97± 0.92s
   35.896 N ±57 5km   53.332 E ±11 1km
   DEPTH =  10 0km  (geophysicist)
 NORTHERN IRAN                   (348)

TEH      1.59 265 eP    06 11.00  -0.3
IR4      2.09 252 iPd   06 19.00   0.4
IR1      2.20 258 iPd   06 20.00  -0.3
IR7      2.22 266 iPd   06 21.00   0.5
IR5      2.34 254 eP    06 22.00  -0.3
MAIO     5.01  84 ePn   07 00.00   0.0
                 eSn    07 46.00
      S.D. = 0.5  on   6 of   6 obs.
-------------------------------------
?  SEP  27, 1991  07h 39m 33.82± 3.84s
    3.821 N ±16.4km   76.967 W ±36.6km
    DEPTH =  33.0km  (normal)
 COLOMBIA                        (103)
      MD 2.5 (UVC).

ANCC     0.32 162 ePd   39 41.92   0.0
                 eS     39 48.20
CLMC     0.41  82 eP    39 43.32   0.1
HOOC     0.48 136 ePc   39 44.36  -0.1
                 eS     39 52.50
HOBC     0.98  57 eP    39 51.38  -0.1
                 eS     40 04.70
      S.D. = 0.1  on   4 of   4 obs.
-------------------------------------
    SEP  27, 1991  07h 39m 55.36± 0.45s
    34.645 N ± 7.7km   98.874 E ± 5.5km
    DEPTH =  33.0km  (normal)
    4.7mb ( 10 obs.)
 QINGHAI, CHINA                  (325)
      ML 4.0 (BJI).

LZH      4.31  69 ePn   41 01.50   1.1
                 Pg     41 10.50
                 Sn     41 52.00
                 Sg     42 05.50
GTA      4.82   9 iPnc  41 07.80   0.3
                 Sn     42 03.20
CD2      5.55 131 Pg    41 34.20  16.4X
                 eSg    42 51.10
XAN      8.33  91 Pd    41 55.00  -1.9
                 S      43 27.40
GYA     10.56 138 iPd   42 28.40   0.8
        1.0s    30.00nm          5.5mb
TIY     11.38  70 eP    42 38.00  -0.7
HHC     11.79  55 eP    42 42.40  -1.9
        1.1s    30.00nm          5.4mb
WMO     12.60 320 P     42 55.50   0.4
                 eS     45 12.00
GUN     12.98 242 P     42 59.86  -0.6
KKN     13.48 243 P     43 07.30   0.3
PKI     13.51 242 P     43 06.60  -0.9
        0.5s    15.00nm          5.1mb
DMN     13.71 243 P     43 09.02  -1.0
GKN     13.85 245 P     43 10.16  -1.5
CHG     15.77 180 eP    43 42.90   6.2X
CHTO    15.77 180 eP    43 42.80   6.2X
        0.6s     4.21nm          3.8mb
CN2     22.45  58 eP    44 54.50   1.8
GAR     23.23 289 eP    45 02.60   2.1
GBA     28.55 228 Pd    45 51.60   1.4
        0.6s     2.00nm          4.0mb
NB2     59.29 326 P     49 55.10  -0.8
        0.9s     2.30nm          4.3mb
WRA     63.91 143 P     50 28.00   0.7
        0.6s     2.20nm          4.4mb
WR2     63.92 143 eP    50 27.50   0.1
        0.8s     7.70nm          4.9mb
ASPA    66.85 145 eP    50 47.20   1.0
        0.7s     2.80nm          4.5mb
FBA     68.13  25 eP    50 53.20  -0.6
        0.7s    11.63nm          5.1mb
      S.D. = 1.2  on  20 of  23 obs.
-------------------------------------
*  SEP  27, 1991  08h 38m 18.51± 2.49s
   22.153 N ± 7.4km  142.108 E ±25.6km
   DEPTH = 286.9 ± 26.5 km
   4.4mb ( 11 obs.)
 VOLCANO ISLANDS REGION          (213)

MAT     14.73 348 (P)   41 35.00  -0.5
        0.7s     5.48nm          4.0mb
YAMJ    16.07 354 eP    41 51.10   0.6
OFUJ    16 88 359 eP    41 59.90   0 8
CTAO    42.18 174 iPc   45 46.20   1 1
        0 8s    12 04nm          4.2mb
WRA     42 52 191 P     45 46.00  -2.0
        0 3s    39 10nm          5.2mb

WR2     42.52 191 iPc   45 48.50   0.5
        0.3s    83.00nm          5.5mb X
                 i      46 31.80
                 iS     49 15.90
ASPA    46.24 190 iPd   46 17.20  -0.2
        0.4s    24.90nm          4.9mb
                 iS     52 41.20
WARB    50.33 198 eP    46 49.50   0.8
        0.4s     9.00nm          4.5mb
STK     53.73 181 eP    47 13.20  -0.4
        0.5s     4.60nm          4.2mb
FORR    54.39 195 eP    47 18.00  -0.3
        0.4s    24.00nm          5.0mb
MRWA    56.93 207 iPc   47 36.40   0.0
        0.3s     2.00nm          4.1mb
BAL     57.85 206 iPd   47 42.70  -0.1
KLB     58.31 204 eP    47 46.80   0.9
INK     67.55  24 eP    48 45.00  -0.8
MBC     70.66  15 eP    49 04.00  -0.6
YKA     76.52  28 eP    49 37.90  -0.4
        0.6s     4.00nm          4.3mb
KAF     81.89 335 eP    50 06.70  -0.2
        0.5s     1.10nm          3.9mb
SES     83.33  38 ePc   50 15.10   0.5
FFC     85.97  32 eP    50 28.00   0.5
        0.4s     3.00nm          4.5mb
      S.D. = 0.8  on  19 of  19 obs.
-------------------------------------
&  SEP  27, 1991  09h 46m 16.04s
   60.743 N          146.473 W
   DEPTH =  22.2km
 SOUTHERN ALASKA                 (  2)
      <AEIC>. ML 2.9 (AEIC), 3.1
      (PMR).

FID      0.01 337 iPd   46 20.27   0.3
VZW      0.32 353 iPd   46 22.84  -0.4
                 iS     46 28.57
GLI      0.33 295 iPd   46 22.81  -0.6
                 eS     46 28.64
VLZ      0.40  10 iPd   46 23.77  -0.6
                 eS     46 30.29
CVA      0.41 119 iPc   46 23.84  -0.7
                 eS     46 31.54
SGAM     0.67 111 iPc   46 27.95  -1.0
KNIM     0.74 238 iPc   46 28.83  -1.3
                 eS     46 39.28
KLU      0.80  19 iPc   46 30.05  -1.2
                 eS     46 40.84
RAGM     0.96 111 ePd   46 32.95  -0.9
                 eS     46 45.94
LTI      0.98 225 iPc   46 32.70  -1.6
                 eS     46 46.11
HMT      1.17 109 ePd   46 35.61  -1.5
SCM      1.17 340 iPc   46 35.88  -1.3
KNK      1.17 306 iPd   46 36.49  -0.7
KAIM     1.31 128 eP    46 36.91  -2.1
                 eS     46 54.37
MID      1.32 177 eP    46 38.05  -1.1
TOA      1.37   6 ePc   46 39.90  -0.1
SML      1.40 321 iPd   46 39.77  -0.6
                 S      46 58.28
TZL      1.40  21 eP    46 40.15  -0.2
GLB      1.47  60 iPc   46 40.24  -1.2
                 S      46 58.35
PLRM     1.54 305 iPc   46 42.08  -0.3
                 S      46 59.87
PMR      1.54 305 ePc   46 42.50   0.1
GHO      1.57 312 iPd   46 42.54  -0.4
                 eS     47 02.32
PMS      1.59 290 ePc   46 42.44  -0.6
                 S      47 02.40
SEW      1.61 248 iPc   46 41.75  -1.6
                 eS     47 02.59
CROM     1.64  88 ePd   46 42.58  -1.4
                 S      47 03.79
TGL      1 79  88 ePd   46 44.43  -1.7
                 eS     47 06.93
WAX      1 81  98 ePd   46 44.46  -1.9
                 S      47 07.81
SDG      1 84  14 ePc   46 46.41  -0.4
                 S      47 10.11
SLKM     1.86 264 iPc   46 45.68  -1.4
PWA      1.88 300 ePc   46 47.60   0.3
SNH      1.89 106 eP    46 46.58  -0.9
                 S      47 09.70
SUA      2 20 291 eP    46 51.25  -0.7
```

PAX 2.29 12 eP 46 53.40 0.2
CUT 2.47 314 eP 46 55.27 -0.4
NNL 2.50 256 eP 46 54.79 -1.3
CTGM 2.53 83 eP 46 55.81 -0.9
CNPM 2.68 245 eP 46 56.56 -2.2
SKT 2.73 299 eP 46 57.65 -1.9
CGLM 2.75 284 eP 46 58.22 -1.6
SPU 2.76 282 eP 46 57.81 -2.1
NCG 2.84 286 eP 46 59.47 -1.6
RDT 2.93 269 ePc 46 59.73 -2.5
BGL 2.93 283 eP 47 00.42 -1.9
REF 3.08 268 ePc 47 01.96 -2.6
RS1 3.11 268 eP 47 02.64 -2.4
RED 3.13 267 eP 47 02.67 -2.5
RDW 3.13 268 eP 47 03.23 -2.1
NCT 3.18 270 eP 47 03.30 -2 7
FBA 4.22 352 eP 47 22.80 2.3
KDC 4.31 228 eP 47 19.00 -2.8
50 obs. ossocioted

% SEP 27, 1991 10h 45m 51.69± 0 93s
37.736 N ± 8.4km 14.933 E ± 7.7km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO 0.27 316 P 45 57.30 -0.2
eSg 46 03.00
ATN 0.60 44 P 46 04.50 0.8
MEU 0.63 180 P 46 03.80 -0.7
eSg 46 13.60
GIB 0.76 290 P 46 08.00 1.4
SOI 0.95 69 P 46 10.90 1.2
eSg 46 25.90
CZI 1.76 32 P 46 21.60 -0.7
SGO 2.83 6 P 46 36.00 -1.8
S.D. = 1.4 on 7 of 7 obs.

• SEP 27, 1991 11h 41m 24.59± 1 82s
45.986 N ±16.4km 11.707 E ±14.3km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.7 (VIE). MD 2.5 (TRI).

CTI 0.07 327 Pd 41 26.90 -0.2
eSg 41 31.60
OGA 1.00 332 iPgd 41 43.80 0.1
SCE 1.05 0 ePg 41 44.10 -0.5
WTTA 1.28 358 iPgc 41 48.60 0.2
iSg 42 06.30
WATA 1.35 356 iPgd 41 50.00 0.4
iSg 42 08.20
TRI 1.46 100 ePg 41 50.90 -0.1
iSg 42 10.30
VOY 1.52 88 ePnc 41 52.10 0.1
eSn 42 12.40
S.D. = 0.3 on 7 of 7 obs.

• SEP 27, 1991 11h 56m 40.80± 2.09s
29.911 N ±26.1km 90.423 E ± 9 6km
DEPTH = 33.0km (normol)
3.7mb (1 obs.)
XIJANG (306)

GUN 4.45 245 P 57 48.80 0.7
SHL 4.52 163 eP 57 48.80 -0.1
eS 58 57.60
KKN 4.98 246 P 57 55.80 0.3
PKI 4.98 243 P 57 55.40 -0.2
0 4s 8 00nm
DMN 5.20 245 P 57 58.00 -0.6
GKN 5 41 251 P 58 01.20 -0.3
WRA 65 16 134 P 07 21.00 0 0
0 4s 0.30nm 3.7mb
S.D = 0.5 on 7 of 7 obs.

% SEP 27, 1991 12h 11m 14.73± 1.63s
36.605 N ±13 1km 1.854 W ± 7.4km
DEPTH = 5.0km (geophysicist)
WESTERN MEDITERRANEAN SEA (387)
mbLg 3.3 (MDD).

ENIJ 0.46 322 iPgd 11 23.61 -0.4
EALH 1.30 15 ePn 11 39.20 0.0
eSn 11 56.00
EHUE 1.34 334 ePn 11 39.82 -0.2
eSn 11 58.20
EGUA 1.39 280 ePn 11 40.54 -0.3
eSn 11 59 00
AFC 1.50 296 ePn 11 42.80 0 3
eSn 12 01.00
ECOG 1.53 297 ePn 11 42.80 0.0
eSn 12 02.10
EVIA 2.09 346 ePn 11 51.87 0.9
eSn 12 15.20
EBAN 2.19 316 ePn 11 52.44 0.1
eSn 12 18 60
ACU 2.22 31 ePn 11 52.61 -0.2
TOL 3.70 333 ePg 12 32.50 18.7X
eSg 13 10.00
EROO 4.57 22 ePn 12 25.86 -0.2
S.D. = 0.4 on 10 of 11 obs.

SEP 27, 1991 12h 11m 23.03± 0.27s
21.414 S ± 7.5km 174.117 W ± 6.2km
DEPTH = 34.6km (13 depth phases)
5.2mb (17 obs.) 5.0Msz (4 obs.)
TONGA ISLANDS (173)

SVA 7.72 294 eP 13 18.70 2.7X
VUN 7.77 295 ePd 13 18.90 2.3
MBU 8.08 302 eP 13 21.20 0.2
DZM 18.07 264 iPc 15 35.10 1.8
URZ 18.42 202 eP 15 38.30 1.0
RUZ 19.84 205 eP 15 53.50 -0.3
MNG 21.09 202 eP 16 07.20 0.4
WVZ 25.03 207 eP 16 46.10 0.7
RMO 34.23 254 eP 18 17.00 9.2X
CTAO 37.02 265 iPc 18 29.00 -2.5
1.0s 15.00nm 4.8mb
PMG 39.09 282 eP 18 45.00 -3.9X
STK 40.69 246 eP 19 00.60 -1.4
1.1s 4.30nm 4.1mb X
JAY 47.78 287 ePc 19 57.80 -1.5
ASPA 47.85 257 iPd 19 57.70 -2.1
1.1s 45.80nm 5.4mb
Z 21s 1.00um 4.8Msz
iS 26 51.10
WR2 48.04 262 iPc 19 58.40 -2.9X
1.0s 17.90nm 5.1mb
i 21 29.30 469kmX
WRA 48.07 262 P 19 57.00 -4.5X
0.3s 4.70nm 5.0mb
GUA 53.14 307 e(P) 20 46.20 6.2X
GUMO 53.21 307 e(P) 20 50.00 9.5X
WARB 54.02 253 eP 20 44.00 -2.4
KLB 60.95 245 eP 21 34.40 -0.9
BAL 62.00 246 eP 21 41.50 -0.9
MRWA 62.85 247 eP 21 47.50 -0.5
NANU 64.66 254 eP 21 59.00 -1.0
MAT 73.14 322 eP 22 50.00 -2.0
1 3s 44.23nm 5.3mb
SYP 75.76 44 eP 23 08.00 0.6
BCH 76.11 43 P 23 08.90 -0.4
ARN 76.59 41 P 23 10.50 -1.4
MWC 76.83 45 eP 23 13.00 -0.5
PLM 77.10 46 P 23 14.90 -0.1
pP 23 25.60 35km
PEC 77.22 46 P 23 15.00 -0.5
pP 23 25.30 33km
SBB 77.26 45 eP 23 16.00 0.3
CMB 77.73 41 P 23 18.70 0.5
1.0s 25.00nm 5.2mb
pP 23 28.90 33km
ORV 78.04 39 P 23 19.90 0.1
pP 23 30.00 32km
CLC 78.09 44 eP 23 21.00 0.7
GSC 78.30 45 eP 23 22.00 0.6
BONR 78.96 42 P 23 24.40 -0.9
MAW 81.91 199 eP 23 42.00 1.9
LON 82.63 33 P 23 43.20 -1.0
MSU 83.18 44 P 23 48.40 1 0
pP 23 59.20 34km
NJ2 83.27 308 Pd 23 48.20 0.5
MDJ 83.38 323 eP 23 47 00 -1.0
SLKM 83.91 12 P 23 48.80 -1.6
pP 24 00 80 39km
PMR 85.12 12 eP 23 57.40 1 1
PV09 85.17 46 P 23 57 80 0.3
ALQ 85.18 50 eP 23 56 30 -1 2
1.0s 16.25nm 5 2mb
Z 20s 0 98um 5 2Msz
e 24 09.00 42km
ANMO 85 18 50 P 23 57.40 -0.1
1.0s 19 25nm 5 3mb
pP 24 08.00 33km
DPW 85.23 34 P 23 57.20 -0.1
CN2 85.26 321 eP 24 02.00 4.6X
TTA 85.27 8 eP 23 56.40 -0.8
1.4s 25.90nm 5.2mb
PNT 85.43 32 eP 23 58.00 -0.2
0.8s 25.00nm 5.5mb
PTI 85.51 41 P 24 00.20 1.2
HPI 85.56 40 P 24 00.30 1.0
WHN 85.92 305 P 24 02.80 1.8
NEW 86.04 34 P 24 01.30 0.0
0.7s 12.00nm 5.2mb
pP 24 11.90 33km
BALM 86.07 15 P 24 01.90 0.6
TOA 86.17 13 eP 24 02.70 1.0
IPM 86.88 276 ePc 24 06.60 0.5
0.1s 37.40nm 6.6mb X
LRM 87.15 38 eP 24 07.20 0.2
BW06 87.19 42 P 24 06.30 -1.0
1.2s 7.31nm 4.8mb
pP 24 17.00 34km
SNG 88.21 278 eP 24 14.40 2.0
GOL 88.30 46 P 24 13.80 1.1
1.0s 3.75nm 4.6mb
pP 24 24.60 34km
FBA 88.40 11 ePc 24 11.10 -1.2
0.9s 19.80nm 5.4mb
BJI 89.11 314 eP 24 17.00 0.8
GYA 90.26 298 iPc 24 23.40 1.3
1.2s 20.00nm 5.3mb
SES 90.51 35 eP 24 22.00 -0.5
pP 24 33.00 35km
TIY 90.61 311 eP 24 23.00 -0.3
LOE 90.99 288 eP 24 26.50 1.1
RSSD 91.33 43 P 24 26.70 0.0
1.1s 15.53nm 5.3mb
pP 24 37.30 33km
XAN 91.59 306 eP 24 27.60 -0.3
HHC 92.60 313 eP 24 33.00 0.5
CHG 93.97 289 eP 24 40.50 1.4
1.4s 39.53nm 5.7mb
INK 94.24 14 eP 24 38.00 -1.2
MAIO 131.34 300 ePKP 30 35.00 1.2
BHD 144.01 297 ePKP 30 54.00 -3.0X
MSL 144.37 303 ePKP 30 56.00 -1.5
e 31 06.50
MUD 144.92 357 iPKPd 30 51.30 -6.4X
0.9s 29.00nm
EKA 145.46 9 PKPc 31 09.50 10.8X
1.3s 28.60nm
KAS 149.19 317 ePKP 31 15.00 9.7X
KRA 149.33 342 ePKP 31 05.00 -0.1
e 31 08.70
WTS 149.47 359 ePKP 31 14.00 8.8X
KSP 149.51 347 ePKP 31 09.60 4.2X
1.4s 62.00nm
CLL 149.65 351 ePKP 31 09.00 3.4X
2.3s 80.00nm
e 31 25.00
BRG 149.92 350 ePKP 31 10.60 4.6X
2.0s 85.00nm
e 31 22.20
SPC 150.02 341 ePKP 31 08.30 1.8
e 31 12.60
e 31 21.90
VRI 150.24 330 ePKPc 31 05.50 -1.2
MOX 150.48 353 ePKP 31 13.00 6.1X
ENN 150.71 360 ePKP 31 18.00 10.9X
1.0s 11.00nm
MLR 150.89 330 ePKP 31 08.50 0.7
PSZ 151.25 340 ePKP 31 14.00 5.8X
GRF 151.47 353 ePKP 31 12.00 3.6X
Z 21s 0.30um 5.1Msz
e 31 22.80
e 31 34.30
KHC 151.67 349 PKPd 31 16.40 7.6X
i 31 35.00
ZST 151.80 344 ePKP 31 08.80 -0.1
i 31 24.60
e 31 35.70
e 55 33.30
BZS 152.63 336 ePKP 31 16.00 5.9X
LPF 152.86 10 ePKP 31 17.70 7.3X
1.2s 44.65nm
CDF 153.04 358 ePKP 31 29.10 18.3X
HAU 153.47 359 ePKP 31 29.20 17.9X
Z 19s 0.22um 5.0Msz

27d 12h

BSF 153.63 359 ePKP 31 31.60 19.9X
1.1s 14 65nm
S.D. = 1.1 on 71 of 97 obs.

---

* SEP 27, 1991 12h 23m 50.23± 3.85s
33.763 S ±10.4km 71.761 W ±27.2km
DEPTH = 10 0km (geophysicist)
NEAR COAST OF CENTRAL CHILE (135)

LCCH	0.33	29	iPd	23 57.50	0.5
			iS	24 05.50	
LNV	0.35	123	iPd	23 57.70	0.3
TACH	0.70	81	iPd	24 04.00	0.0
			iS	24 17.00	
IHA	0.74	8	(P)	23 57.00	-7.8X
			iS	24 16.00	
CHCH	0.94	101	iP	24 08.00	-0.2
			iS	24 25.00	
SAN	0.97	72	iP	24 09.00	0.3
			iS	24 25.50	
ROCH	1.01	39	iP	24 09.00	-0.5
			iS	24 26.00	
PCH	1.05	83	iPd	24 09.60	-0.5
			iS	24 27.50	
PEL	1.09	56	iPc	24 11.00	0.2
			iS	24 29.60	
JACH	1.46	43	iP	24 16.50	-0.2
			iS	24 40.00	

S.D. = 0.4 on 9 of 10 obs.

? SEP 27, 1991 13h 07m 11.63± 6.18s
31.687 S ±41.3km 69.666 W ±24.8km
DEPTH = 164.2 ± 57.3 km
SAN JUAN PROVINCE, ARGENTINA (137)

ZON	0.85	81	eP	07 37.00	0.0
			eS	07 51.00	
JACH	1.27	218	iPd	07 40.50	0 0
			iS	07 59.50	
PEL	1.69	210	iPd	07 44.40	-0.2
			iS	08 07.00	
ROCH	1 71	221	iPd	07 45.00	-0.1
			iS	08 08.00	
PCH	2.06	200	iPd	07 49.00	0.2
			iS	08 16.00	
TACH	2.23	208	iPd	07 50.50	-0.3
			iS	08 18.00	
CHCH	2.39	200	iP	07 53.00	0.4
			iS	08 22.00	
LCCH	2 40	222	iPd	07 53.40	0.7
			iS	08 22.00	
LNV	2.70	213	iPd	07 55.50	-0 8
			iS	08 26.50	

S.D. = 0 5 on 9 of 9 obs.

% SEP 27, 1991 13h 57m 52.63± 2.37s
38.909 N ± 8.6km 15.745 E ±13 2km
DEPTH = 209 2 ± 24.0 km
SICILY (398)

CZI	0 43	44	P	58 20 30	-0.2
ACI	0 57	39	P	58 21.10	0.0
ATN	0 78	197	Pd	58 21.40	-0.9
			eSg	58 42.90	
SOI	0 87	164	P	58 22.50	-0.3
TDS	0 88	31	Pd	58 23.00	0.2
ROI	0 92	44	P	58 23 80	0.6
CSI	0 96	26	P	58 24 10	0 7
MMN	1 00	11	P	58 23.20	-0.3
			eS	58 41.70	
MGR	1 24	353	Pd	58 25.10	-0.2
MNO	1 28	221	P	58 26 30	0 4
GIB	1 63	236	P	58 29 00	0.3
SGO	1 68	349	Pd	58 29.20	0.2
MEU	1 92	200	P	58 31.50	0 1
LCI	2 22	49	P	58 35.20	0.8
			eSn	59 07.30	
BRT	2.26	29	P	58 33.60	-1.3
			eSn	59 05.00	

S.D = 0.6 on 15 of 15 obs.

& SEP 27, 1991 14h 13m 04.69s
59.970 N 140.495 W
DEPTH = 12.3km
SOUTHEASTERN ALASKA (19)
<AEIC>. ML 2.8 (AEIC).

PCA	0.17	43	iPd	13 08.82	-0.1
			eS	13 13.62	
BCPM	0.43	92	ePd	13 13.54	-0.1
			eS	13 19.18	
YKU	0.57	137	ePd	13 16.21	0.1
PNL	0.63	118	iPd	13 16.41	-0.8
			eS	13 26.90	
YAH	0.74	303	iPc	13 18.46	-0.7
			eS	13 29.47	
WRG	0.78	276	eP	13 18.41	-1.2
			eS	13 29.59	
HON	0.97	122	iPd	13 21.61	-1.3
			S	13 34.93	
CYK	1.01	277	eP	13 22.36	-1.1
CTGM	1.08	338	ePc	13 23.31	-1.6
			S	13 38.51	
SNH	1.19	281	eP	13 25.57	-1.2
			eS	13 40.75	
WAX	1.27	293	ePc	13 26.14	-2.0
TGL	1.40	305	ePc	13 28.48	-1.6
			eS	13 48.32	
CROM	1.53	302	ePc	13 30.18	-1.8
			eS	13 49.30	
HMT	1.92	283	eP	13 36.31	-1.1
			eS	14 01.68	
RAGM	2.13	283	eP	13 39.52	-1.0
			eS	14 07.54	
GLB	2.20	314	ePc	13 39.83	-1.7
KLU	3.07	302	eP	13 52.23	-1.7
VLZ	3.11	295	eP	13 52.38	-2.0
VZW	3.19	293	eP	13 53.55	-2.0

19 obs. associated

? SEP 27, 1991 15h 04m 55.08± 1.32s
40.925 N ± 7.1km 22.905 E ±12.0km
DEPTH = 10.0km (geophysicist)
GREECE (364)

KNT	0.24	359	iPd	05 00.21	0.1
			iS	05 03.60	
THE	0.30	171	iPd	05 01.21	0.0
SOH	0.36	107	ePc	05 02.60	0.2
SRS	0.55	70	ePd	05 06.16	-0.2

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

? SEP 27, 1991 15h 07m 00.16± 1.43s
28.806 N ±45.9km 51.027 E ±28.4km
DEPTH = 33.0km (normal)
4.9mb (3 obs.)
SOUTHERN IRAN (353)

SHI	1.55	57	eP	07 25.00	-1.0
RYD	5.67	225	eP	08 23.00	-1.4
MJMA	5.89	241	eP	08 36.00	8.5X
			eS	09 50.00	
OASM	7.19	250	eP	09 37.00	51.3X
			eS	11 20.00	
BHD	7.23	310	ePn	09 37.00	50.8X
			eSn	11 06.00	
			eS*	11 22.00	
			eSg	11 48.00	
AFIF	8.45	238	eP	09 04.60	1.3
			eS	11 46.00	
MAIO	10.33	42	eP	09 44.00	14.7X
OUE	13.94	80	eP	10 23.70	6.0X
GKN	29.52	83	P	13 10.20	6.2X
KKN	30.12	84	P	13 10.40	1.0
PKI	30.27	84	P	13 11.80	0.9
WRA	93.81	111	P	20 20.00	4.5X
	0.4s		0.90nm		4.6mb
WR2	93.83	111	eP	20 20.20	4.6X
	0.2s		2.30nm		5.3mb
ASPA	95.25	114	iPc	20 21.20	-0.9
	1.1s		4.60nm		4.8mb

S.D. = 1.5 on 6 of 14 obs

& SEP 27, 1991 15h 15m 10.85s
60.873 N 147.257 W
DEPTH = 22.6km
SOUTHERN ALASKA (2)
<AEIC>. ML 2.7 (AEIC).

GLI	0.08	85	iPd	15 15.30	0.2
VZW	0.39	61	iPc	15 18.56	-0.6
			iS	15 25.18	
FID	0 40	108	iPc	15 18.34	-1.0
			eS	15 24.74	
VLZ	0 52	60	iPc	15 20.29	-0.9
			eS	15 27.79	
KNIM	0.58	204	iPd	15 20.92	-1.3
			eS	15 29.89	
KNK	0.79	313	iPc	15 24.51	-1.4
			eS	15 35.95	
CVA	0.81	113	iPc	15 25.05	-1.1
LTI	0.89	200	iPd	15 26.25	-1.2
			S	15 38.74	
KLU	0.90	46	iPc	15 25.97	-1.7
			eS	15 38.53	
SCM	0.96	358	iPd	15 27.11	-1.8
			S	15 40.38	
SML	1.07	332	iPc	15 28.80	-1.7
SGAM	1.08	109	iPc	15 29.07	-1.5
PLRM	1.16	309	iPc	15 29.94	-1.7
			eS	15 44.86	
PMS	1.18	289	iPc	15 30.56	-1.5
GHO	1.21	319	iPc	15 31.07	-1 4
			eS	15 46.66	
SEW	1.33	236	ePc	15 32.35	-1.8
			S	15 49.28	
TOA	1.34	22	eP	15 33.50	-0.8
RAGM	1.36	110	eP	15 33 60	-1.0
TZL	1.47	36	eP	15 35.77	-0.3
PWA	1.49	303	iPc	15 35.45	-0.9
			eS	15 55.42	
SLKM	1.50	257	iPc	15 35.25	-1.4
			S	15 54.51	
MID	1.52	162	eP	15 35.86	-1.0
HMT	1.57	109	ePc	15 35.64	-2.0
			S	15 57.08	
KAIM	1.70	123	eP	15 38.93	-0.5
GLB	1.77	70	ePd	15 39.29	-1.2
			eS	16 01.00	
SUA	1.79	291	eP	15 39.28	-1.6
SDG	1.85	25	iPd	15 41.02	-0.6
			eS	16 04.06	
CROM	2.02	92	eP	15 42.73	-1.6
CUT	2.10	318	iPc	15 44.60	-0.7
NNL	2.17	249	ePc	15 44.84	-1.4
TGL	2.17	91	iPd	15 44.60	-1.8
WAX	2.21	99	ePc	15 44.74	-2.2
PAX	2.27	21	ePd	15 46.91	-0.8
SKT	2.33	300	iPc	15 46.57	-2.0
CGLM	2.35	283	ePc	15 46.70	-2.2
SPU	2.36	280	ePc	15 46.56	-2.4
HUR	2.39	333	eP	15 49.18	-0.2
CNPM	2.40	238	eP	15 47.63	-1.9
NCG	2.44	285	ePc	15 47.93	-2.2
CKL	2.49	280	eP	15 48.67	-2.3
BGL	2.53	281	ePc	15 49.38	-2.1
RDT	2.55	265	ePc	15 49.01	-2.7
RND	2.65	344	eP	15 51.54	-1.6
DFR	2.68	266	eP	15 51.16	-2.5
REF	2.71	264	eP	15 51.41	-2.6
RDN	2.73	265	eP	15 51.85	-2.5
RSO	2.74	264	eP	15 51.77	-2.7
RS1	2.74	264	ePc	15 51.94	-2.6
RS2	2.74	264	ePc	15 51.96	-2.6
RED	2.75	263	ePc	15 51.92	-2.7
RDW	2.76	264	eP	15 51.80	-3.0
YAH	2.77	98	eP	15 53.22	-1.7
NCT	2.81	266	eP	15 52.51	-2.8
CTGM	2.89	86	eP	15 55.25	-1.4
HDA	3.55	2	eP	16 04.21	-1.7

55 obs. associated

% SEP 27, 1991 15h 40m 41.34± 1.09s
41.119 N ±15.9km 28.680 E ± 5.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

CTT	0.19	278	iPg	40 45.50	-0.1
			eSg	40 48.50	
ISK	0 29	101	ePg	40 47.50	0.1
HRT	0 80	111	ePg	40 57.00	0.0
IZI	0.99	142	ePn	41 00.00	-0.1
KGT	1.24	238	ePn	41 04.50	0.1

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

? SEP 27, 1991 16h 06m 36.90± 0.99s
44.384 N ±10.6km 7.314 E ± 9.7km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1 9 (GEN).

STV 0.14 177 P 06 40.35 0.1
S 06 42.44
ENR 0.18 154 P 06 40.83 -0 1
S 06 43.40
PZZ 0.19 308 P 06 41.26 0.0
S 06 44 18
ROB 0.41 102 P 06 45.31 0.0
S 06 51.23
S.D = 0.1 on 4 of 4 obs.

% SEP 27, 1991 17h 04m 10.15± 0.89s
37.726 N ± 7.5km 14.959 E ± 7.1km
DEPTH = 5.0km (geophysicist)
SICILY (398)

MNO 0.29 314 P 04 15.00 -1.1
eSg 04 21.00
ATN 0.59 42 P 04 22.50 0.6
eSg 04 33.50
MEU 0.62 182 P 04 22.50 -0.2
GIB 0 78 290 P 04 27.00 1.1
eSg 04 38.00
SOI 0.93 68 P 04 28.00 -0.4
eSn 04 44.50
ROI 2.23 34 P 04 45.60 -2.8X
S.D. = 1.2 on 5 of 6 obs.

• SEP 27, 1991 17h 06m 05.89± 2.62s
15.681 N ± 9.1km 61.783 W ±19.6km
DEPTH = 147.9 ± 26.5 km
LEEWARD ISLANDS (92)

BBL 0.33 118 eP 06 27.24 -0.3
PAG 0.36 16 eP 06 27.89 0.2
S 06 42.70
DOG 0.38 25 ePd 06 27.69 0.0
MGG 0.51 62 ePd 06 27.45 0.2
S 06 42 00
SEG 0.77 20 ePd 06 29.44 0.6
S 06 45.20
SFG 0.80 45 eP 06 29.14 0.1
DEG 0 94 48 iPd 06 29.54 -0.7
S 06 45.50
MGH 1.11 338 eP 06 31.01 -0.7
FDF 1.12 147 iPc 06 32.10 0.2
0.1s 1.10nm
CRM 1.25 138 iPc 06 32.70 -0.3
BIM 1.35 149 eP 06 34.40 0.4
BPA 1.36 357 iPd 06 34.74 0.6
S 06 54.70
MVM 1.41 142 iPc 06 34.54 -0.2
S.D. = 0.5 on 13 of 13 obs.

% SEP 27, 1991 17h 35m 47.20± 1.07s
38.576 N ± 5.7km 15.462 E ±16.8km
DEPTH = 33.0km (normol)
SICILY (398)

ATN 0.41 180 P 35 57.20 0.6
eSn 36 09.10
SOI 0.69 137 Pc 35 59.50 -0.9
eSn 36 14.10
CZI 0 83 39 P 36 03.20 0.8
ACI 0.97 37 P 36 05.10 0.7
TDS 1.28 32 P 36 08.50 -0.3
ROI 1.32 41 P 36 09.40 0.0
CSI 1.36 28 P 36 10.20 0.1
MMN 1.38 17 P 36 09 80 -0.4
MGR 1.56 3 P 36 12.40 -0.6
S.D = 0.7 on 9 of 9 obs

• SEP 27, 1991 17h 44m 44 46± 0 82s
23.043 N ±26.2km 93.759 E ±21 2km
DEPTH = 33.0km (normol)
MYANMAR-INDIA BORDER REGION (294)

SHL 3 04 326 eP 45 31.60 0.1
CHG 6.42 130 eP 46 19 20 0.0
GUN 8.61 306 P 46 49.72 -0.4
PKI 8.80 303 P 46 53.34 0.6
KKN 9.00 303 P 46 55 26 -0.2
DMN 9.05 302 P 46 56 36 0.2
GKN 9.60 303 P 47 03 38 -0.3
S.D = 0.4 on 7 of 7 obs.

? SEP 27, 1991 17h 56m 02.44± 1 45s
36 823 N ±16.7km 29.416 E ± 8 0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ELL 0.40 101 iPg 56 11.00 0.3
iSg 56 18.50
YER 0.96 289 ePn 56 20 50 -0 2
BCK 1.13 55 ePn 56 23.00 -0.7
KHL 1.50 3 ePn 56 30.10 0.6
S.D. = 1.0 on 4 of 4 obs.

? SEP 27, 1991 18h 04m 22.43± 7.78s
44.381 N ±58.0km 1.488 E ±11.6km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.1 (LDG).

LPO 0.37 325 Pg 04 29.20 -0.9
Sg 04 37.50
CAF 0.68 37 Pg 04 35.60 -0.4
Sg 04 42.00
LFF 0.77 317 Pg 04 38.00 0.5
Sg 04 50.00
RJF 0.92 1 Pg 04 40.80 0.7
Sg 04 56.20
S.D. = 1.3 on 4 of 4 obs.

• SEP 27, 1991 18h 19m 07.45± 1.85s
36.662 N ±17.7km 31.048 E ±15.6km
DEPTH = 126.2 ± 30.6 km
TURKEY (366)

BCK 0.88 335 ePg 19 30.00 0.7
eSg 19 39.50
ELL 0.92 276 iPn 19 29.00 -0.7
KHL 2.05 324 ePn 19 41.10 -1.3
PPCY 2.06 149 eP 19 47.50 5.1X
eS 20 14.80
YER 2.27 283 ePn 19 45.00 -0.1
CSS 2.51 132 eP 19 48.50 0.3
eS 20 17.30
CIN 2.55 292 eP 19 50.00 1.4
BBTK 3.45 22 eP 20 30.00 29.3X
KOT 6.75 174 ePn 20 45.00 -0.3
eSn 21 55.00
S.D. = 1.3 on 7 of 9 obs.

SEP 27, 1991 19h 30m 21.98± 0.47s
37.235 N ± 4.5km 21.101 E ± 2.7km
DEPTH = 51.0 ± 5.3 km
4.3mb (10 obs.)
SOUTHERN GREECE (368)
MD 4.2 (ATH).

VLS 1.02 337 ePg 30 39.00 -1.3
VLI 1.56 109 ePb 30 47.00 -0.7
AGG 2.03 28 ePd 30 57.00 2.6X
ATH 2.20 70 ePn 30 57.00 0.2
IGT 2.37 345 ePc 31 00.60 1.4
KEK 2.68 338 ePn 31 04.00 0.5
LIT 3.06 20 iPd 31 10.93 1.9
KZN 3.11 9 ePn 31 11.00 1.2
PAIG 3.36 36 ePc 31 13.60 0.3
FNA 3.55 3 iPd 31 16.53 0.5
THE 3.69 23 ePc 31 19.56 1.7
OUR 3.83 35 iPc 31 19.61 -0.2
GRG 3.85 15 iPd 31 20.08 -0.1
OHR 3.88 357 iPn 31 20.40 -0.2
1.4s 708.00nm
Lg 32 54.90
LCI 3.95 322 Pd 31 20.80 -0.8
SOH 3.99 25 ePd 31 22 40 0.3
GRI 4.02 295 P 31 24.73 2.2
SOI 4.09 283 P 31 23.50 0.0
eSn 32 10.50
NPS 4.14 117 ePn 31 25.90 1.6
KNT 4.16 19 ePc 31 24.64 0.1
ROI 4.26 305 P 31 27.10 1.2
GMB 4.26 284 P 31 26.20 0.2
SRS 4.33 26 ePc 31 26.80 -0.1
CZI 4.38 298 P 31 27.90 0.3
TDS 4.45 304 P 31 29 80 1.2
PRK 4.54 62 ePb 31 35.30 5.5X
CSI 4.55 305 P 31 34.00 4.0X
ATN 4.57 283 Pd 31 30.10 -0.1
BRT 4.74 321 Pd 31 32 10 -0.5
SKO 4.74 3 iPn 31 32 00 -0.7
Z 10s 3.90um
iPb 31 43.50
iPg 31 50.00
iSn 32 28.00
i 32 34.50
i 32 41.50
iSb 32 45.50
iSg 32 56 00
i 33 03.00
i 33 10.50
LR 33 40.50
MMB 4.80 24 iPc 31 33.00 -0.6
MMN 4.80 305 P 31 35.60 2.0
KKB 4.87 18 iPc 31 35.00 0.4
MEU 4 93 270 Pd 31 34.70 -0.8
eSn 32 32.00
PZI 4.95 269 P 31 33.63 -2.1
MNO 5.14 280 Pd 31 37.90 -0.6
eSn 32 35.80
RDO 5.21 40 ePn 31 38.50 -0.8
MGR 5.22 305 P 31 39.70 0.2
RZN 5.25 31 iPc 31 40.00 -0.1
ALN 5.31 45 ePc 31 39.44 -1.2
KDZ 5.53 36 iP 31 43.00 -0.8
CIN 5.57 84 eP 31 50.00 5.6X
VTS 5.59 16 iPc 31 45.00 0.2
PLD 5.60 29 iP 31 48.00 3.2X
SGO 5.61 308 P 31 46.20 1.4
GIB 5.67 280 P 31 45.50 -0.3
YER 5.73 89 eP 31 47.00 0.2
PGB 5.81 23 eP 31 50.00 2.3
KGT 5.81 55 eP 31 46.50 -1.2
DIM 5.90 34 iP 31 49.00 0.0
USI 6.43 286 P 31 54.30 -2.1
DUI 6.78 313 P 32 00.02 -1.3
PVL 6.79 27 iP 32 00.00 -1.5
DMK 6.89 46 eP 32 01.60 -1.2
HVAR 6.92 330 i(Pn) 32 01.80 -1.4
ELL 7.07 91 iP 32 10.50 5.0X
YLV 7.26 60 eP 31 57.50 -10.6X
ISK 7.27 56 eP 32 02.00 -6.2X
HRT 7.57 59 eP 32 11.00 -1.4
BEO 7.59 357 eP 32 08.50 -4.1X
BZS 8.38 2 eP 32 20.00 -3.5X
ARV 8.82 318 P 32 28.60 -1.0
MLR 9.01 22 ePc 32 29.50 -2.9X
VBY 9.35 334 e(P) 32 34.00 -2.9X
PTJ 9.47 338 e(P) 32 38.50 -0.1
BBTK 9.50 71 eP 32 50.00 10.9X
e 33 20.00
CSS 10.15 99 eP 32 51.00 3.1X
eS 34 36.00
VOY 10.31 331 e(Pn) 32 48.60 -1.4
eSn 34 41.50
SRO 10.77 350 eP 32 54.90 -1.3
HLW 11.27 128 (P) 33 03.00 0.0
(S) 34 51.00
SPC 11.96 357 eP 33 11.00 -1.5
e 33 22.80
WTTA 12.22 328 iPc 33 17.40 1.5
i 34 54.70
e 35 20.00
HRI 12.60 104 eP 33 19.00 -2.0X
DSI 13.07 111 eP 33 21.80 -5.2X
KHC 13.09 338 eP 33 27.00 -0.2
e 33 36.50
PRU 13.60 342 eP 33 30.50 -3.3X
Z 12s 0.90um
N 11s 0.50um
E 12s 1.00um
e 34 22.00
MBH 13.69 119 eP 33 30.00 -5.2X
KSP 14.03 347 eP 33 47.50 8.0X
GRF 14.35 333 ePc 33 51.50 7.8X
Z 16s 0.20um
BRG 14.56 342 eP 33 50.00 3.6X
0.8s 10.00nm 4.3mb
i 33 54.00
BSF 14.92 320 eP 33 57.50 6.2X
1.1s 19.55nm 4.3mb
MOX 15.03 336 iPd 33 59.40 6.9X
1.4s 18.00nm 4.1mb
Z 13s 0.50um 5.9Msz
N 17s 0.70um
E 16s 0.70um
CDF 15 06 322 eP 34 00.20 7.1X
CLL 15.20 340 e(P) 34 00.00 5.2X
1 4s 38.00nm 4.4mb

27d 19h

```
HAU     15.26 319 eP     34 01 70    6.1X
        0.9s     19.65nm          4.3mb
      Z 19s      0.17um           4.8Msz
LDF     19.18 313 eP     34 45.60    1.4
FLN     19.47 313 eP     34 48.50    1.2
        1.3s     39.70nm          4.5mb
      Z 19s      0.10um           4.5Msz
OBN     20.76  26 eP     35 01.00    0.4
        1.2s  *******nm           7.6mb X
      Z 16s      0.50um           4.0MszX
HFS     23.40 351 eP     35 26.40   -0.4
        0.6s      6.20nm          4.3mb
NUR     23.40   4 eP     35 26.00   -0.8
IR7     23.74  85 iPd    35 32.00    1.5
IR5     23.83  86 eP     35 32.20    0.9
IR1     23.87  85 iPd    35 34.00    2.3
IR4     24.08  86 iPd    35 35.70    2.0
EKA     24.46 325 Pd     35 38.70    1.6
        0.8s     21.30nm          4.7mb
NB2     24.63 348 P      35 38.60   -0.2
        0.9s      6.10nm          4.1mb
KAF     25.11   6 iP     35 43.80    0.6
SOD     30.35   4 iP     36 30.60    0.0
KEV     32.74   4 eP     36 48.00   -3.5X
GAR     38.38  72 eP     37 40.70    0.6
WMO     49.82  60 eP     39 11.00   -0.7
GKN     53.42  80 P      39 38.06   -1.1
DMN     53.97  80 P      39 42.48   -0.8
KKN     54.03  80 P      39 42.52   -1.1
PKI     54.23  80 P      39 44.64   -0.6
GUN     54.44  80 P      39 45.84   -1.0
GTA     59.87  61 P      40 24.80    0.0
        0.8s     10.00nm          5.0mb
CD2     66.69  68 eP     41 09.00   -0.8
XAN     68 84  63 eP     41 23.30    0.0
CHG     69.37  82 eP     41 26.50   -0.1
     S.D. = 1.1  on  83 of 110 obs.
-----------------------------------------
%  SEP 27, 1991  19h 51m 58.05± 0.86s
   37.736 N ± 8.0km   14.928 E ± 7.0km
   DEPTH =  10.0km  (geophysicist)
 SICILY                          (398)

MNO     0.27 317 P       52 04.50    0.7
                 eSg     52 10.00
ATN     0.60  45 P       52 10.00   -0.1
MEU     0.63 180 P       52 10.70   -0.1
                 eSg     52 20.80
GIB     0.76 290 P       52 12.70   -0.2
SOI     0.95  69 P       52 17.30    1.1
                 eSg     52 32.80
CZI     1.76  32 P       52 27.30   -1 4
     S.D  = 1.1  on   6 of   6 obs.
-----------------------------------------
%  SEP 27, 1991  20h 10m 14.51± 0.44s
   38.544 N ± 4.4km   14.582 E ± 4.8km
   DEPTH =  10.0km  (geophysicist)
 SICILY                          (398)

MNO     0.62 172 Pc      10 27.10    0.0
                 eSg     10 35.80
GIB     0.71 218 Pc      10 28.70    0.2
                 eSg     10 38.80
ATN     0.79 119 P       10 30.30    0.4
                 eSg     10 42.80
USI     1.11 279 P       10 34.80   -0.6
MCT     1.18 220 P       10 37.30    0.7
SOI     1.25 112 P       10 37.00   -0.7
CZI     1.39  60 P       10 38.50   -1.3
MEU     1.47 169 Pc      10 40.60   -0.5
MMN     1.73  39 P       10 45.20    0.4
                 eSg     11 05.60
MGR     1.76  25 P       10 44.70   -0.5
                 eSn     11 05.20
TDS     1.76  50 P       10 45.40    0.1
CSI     1.81  47 P       10 46.90    0.9
ROI     1.86  56 P       10 46.80    0 1
BRT     3.09  40 P       11 03.60   -0.5
LCI     3.16  55 P       11 06.60    1.3
     S D  = 0.8  on  15 of  15 obs
-----------------------------------------
%  SEP 27, 1991  20h 13m 25.03± 0 52s
   38.517 N ± 5 1km   14.542 E ± 5 7km
   DEPTH =  22 6 ±  6.2 km
 SICILY                          (398)

MNO     0 60 168 P       13 36.70   -0 2
                 eSg     13 45.20
GIB     0.66 218 Pc      13 38.30    0.4
                 eSg     13 48.30
ATN     0.81 116 P       13 40.30    0.0
                 eSg     13 51.20
USI     1 08 280 P       13 44.30   -0.5
MCT     1.14 219 P       13 46.00    0.2
SOI     1.27 110 P       13 46.70   -0.7
CZI     1.43  60 P       13 49.00   -0.6
                 eSg     14 06.20
MEU     1.45 168 P       13 50.30    0.2
                 eSg     14 10.60
MMN     1.77  39 P       13 55.00    0.3
                 eSg     14 16.40
MGR     1.80  26 P       13 54.50   -0.6
                 eSn     14 14.90
TDS     1.80  50 P       13 54.80   -0.3
CSI     1.85  47 P       13 56.60    0.7
ROI     1.90  56 P       13 56.60    0.0
LCI     3.21  54 P       14 16.20    1.1
     S.D. = 0.6  on  14 of  14 obs.
-----------------------------------------
*  SEP 27, 1991  20h 42m 59.27± 1.08s
   37.135 N ±11.5km   21.007 E ± 7.2km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN GREECE                 (368)
      ML 3.2 (ATH).

VLS     1.09 342 ePg     43 18.30   -1.5
VLI     1.60 104 ePb     43 27.50   -0.2
AGG     2.15  29 iPc     43 36.82    1.1
ATH     2.31  68 ePb     43 37.00   -0.9
IGT     2.45 348 ePc     43 38.98   -1.0
KEK     2.74 340 ePb     43 45.50    1.4
GRG     3.97  15 ePc     44 12.53   11.1X
OHR     3.97 358 eP      44 10.50    8.9X
LCI     3.99 324 P       43 59.90   -1.8
SOI     4.04 285 P       44 02.80    0.3
KNT     4.28  19 iPc     44 07.38    1.4
CZI     4.37 300 P       44 08.60    1.5
MEU     4.86 271 P       44 13.90   -0.3
                 eSn     45 10.30
     S.D. = 1.4  on  11 of  13 obs.
-----------------------------------------
&  SEP 27, 1991  21h 08m 47.90s
   63.203 N          150.389 W
   DEPTH = 116.8km
 CENTRAL ALASKA                  (  1)
      <AEIC>.

TRF     0.25  10 iP      09 04.47    1.5
                 eS      09 17.17
HUR     0.41 123 eP      09 04.78   -0.5
                 eS      09 18.04
KTH     0.43 326 iP      09 05.00   -0.4
RND     0.72  73 iP      09 07.02   -0.5
                 eS      09 22.02
CUT     0.80 176 iP      09 07.88   -0.2
MCK     0.84  50 iP      09 08.05   -0.4
                 eS      09 23.00
BWN     1.06  23 iP      09 10.26   -0.3
SKT     1.34 204 iP      09 12.90   -0.7
                 S       09 33.88
NEA     1.50  22 eP      09 14.21   -1.2
PWA     1.58 171 eP      09 16.07   -0.3
                 eS      09 38.60
GHO     1.59 154 eP      09 16.33   -0.3
WRH     1.63  38 iP      09 16.02   -1.0
SML     1.69 145 eP      09 17.10   -0.8
PLRM    1.72 160 eP      09 17.77   -0.3
SUA     1.75 186 eP      09 19.13    0.4
CCB     1.84  37 eP      09 18.42   -1.3
HDA     1.94  50 eP      09 19.73   -1.2
SCM     1.98 133 eP      09 20.54   -0.9
NCG     1.99 205 eP      09 21.31   -0.3
                 S       09 47.62
MDM     2.00  27 eP      09 20.52   -1.2
PMS     2.00 168 eP      09 21.90    0.1
KNK     2.01 152 eP      09 21.13   -0.7
CGLM    2.05 202 eP      09 22.21   -0.2
BGL     2.16 207 eP      09 24.49    0.7
SPU     2.17 202 eP      09 24.00    0.0
GLM     2.22  35 eP      09 23.40   -1 2
TOA     2.24 118 eP      09 24.45   -0.3
PAX     2.25  94 eP      09 24.36   -0.6
SDG     2.32 105 eP      09 25 56   -0.3
TTA     2.57 266 eP      09 27.74   -1.5

KLU     2.70 127 eP      09 29.20   -1.7
SLKM    2.71 178 eP      09 30.34   -0.6
     32 obs. associated
-----------------------------------------
   SEP 27, 1991  23h 01m 25.65± 0.70s
    3.359 S ± 3.1km  137.625 E ± 3.6km
   DEPTH =  63.7 ±  6.7 km
   5.5mb ( 31 obs.)
 IRIAN JAYA, INDONESIA           (201)
      CENTROID, MOMENT TENSOR    (HRV)
      Data Used: GDSN
      L.P.B.: 17S, 28C
      Centroid Location:
      Origin Time       23:01:36.1 0.9
      Lat  2.75S 0.12 Lon 137.70E 0.07
      Dep  84.3 3.9 Half-duration  1.6
      Moment Tensor;   Scale 10**16 Nm
        Mrr=-3.22 0.33  Mtt=-3.13 0.48
        Mff= 6.35 0.56  Mrt=-3.31 0.37
        Mrf= 0.63 0.38  Mtf= 3.12 0.46
      Principal Axes:
        T  Val=  7.30  Plg= 2  Azm=108
        N       -0.28       49      200
        P       -7.02       41       16
      Best Double Couple:Mo=7.2*10**16
       NP1:Strike=160 Dip=61 Slip=-149
       NP2:       54      64      -33

JAY     3.19  75 iPc     02 13.60   -0.9
                 iS      02 44.20
MNDI    6.62 115 eP      03 05.00    2.2
                 e       04 22.00
MDG     8.35 103 eP      03 26.30   -0.2
AAI     9.42 268 ePc     03 41.00   -0.2
LAT     9.90 110 eP      03 48.50    0.8
                 eS      04 02.60
PMG    11.21 123 iPd     04 04.00   -1.6
        0.7s   917.81nm          6.9mb X
MNI    13.64 290 ePc     04 40.00    2.2
        0.6s   430.60nm          6.2mb
KNA    15.09 215 eP      04 56.20   -0.4
        0.4s   292.00nm          5.9mb
                 eS      07 36.00
DAV    15.89 311 eP      05 12.00    5.2X
WR2    16.79 191 eP      05 16.60   -1.6
        0.4s   136.10nm          5.5mb
                 iS      08 10.80
QIS    17.20 174 eP      05 21.70   -1.6
                 iS      08 23.00
PCI    17.94 277 ePc     05 39.00    6.6X
                 eS      06 02.10
GUMO   18.31  23 eP      05 45.00    8.1X
CTAO   18.64 154 iPc     05 41.00    0.1
        0.5s   228.57nm          5.6mb
                 i       05 47.00
                 i       06 01.00
                 i       06 42.00
                 eS      08 36.00
                 e       09 06.00
                 e       09 39.00
ASPA   20.51 190 iPd     06 01.70    0.6
        0.4s   341.60nm          6.0mb
                 e       06 07.10
                 i       06 21.70
                 iPcP    08 59.00
                 iS      09 43.80
HNR    22.98 106 eP      06 26.00    0.3
KKM    23.33 294 ePd     06 31.50    2.3
QLP    23.95 165 eP      06 36.00    1.0
                 i       07 15.30
                 e       11 06.00
WARB   25.02 204 eP      06 46.00    0.6
        0.4s    71.00nm          5.5mb
                 eS      11 30.00
RMO    25.35 156 eP      07 00.00   11.5X
                 e       12 06.00
BAG    25.88 320 eP      06 53.00   -0.6
BRS    27.94 150 iPc     07 12.00   -0.2
                 i(pP)   07 34.00   99kmX
                 i(PP)   07 56.50
                 e(S)    12 57.00
STK    28.62 173 eP      07 18.00   -0.1
        0 6s      5.50nm          4.4mb X
                 i       07 43.80
                 eS      12 52.10
NANU   28.69 226 eP      07 19.00    0.1
                 e       08 02.00
```

```
                eS     12 56.00
FORR    28.78 197 eP     07 18.50   -1.1
                e      07 51.00
CMS     29.03 165 e(P)   07 25.00    3.2X
                e      07 50.00
                e      13 03.00
ARMA    30.00 155 eP     07 30.30   -0.4
                e      14 05.00
ADE     31.46 178 e(P)   07 45.20    1.8
COOL    31.49 208 eP     07 42.70   -1.0
        0.4s     25.00nm           5.3mb
BWA     32.50 163 eP     07 54.20    1.7
                i      09 11.00
MRWA    32.91 216 iPc    07 56.00   -0.1
        0.4s     17.00nm           5.2mb
CAN     33.50 163 eP     08 01.40    0.2
                e      09 12.80
BAL     33.54 214 eP     08 01.30   -0.2
DZM     33.58 126 iPc    08 00.40   -1.7
CNB     33.61 163 eP     08 03.60    1.5
                e      15 07.00
KLB     33.74 211 iPc    08 02.60   -0.6
        0.4s     23.00nm           5.4mb
BFD     33.96 173 eP     08 04.00   -1.0
                e      09 08.70
                e      14 59.40
MUN     34.87 213 eP     08 12.50   -0.4
                e      09 13.50
NWAO    35.07 211 eP     08 14.50   -0.1
OIZ     35.24 310 P      08 16.10   -0.2
IPM     37.41 282 ePd    08 35.50    0.9
SSE     37.68 337 Pd     08 36.70    0.2
        0.7s     50.00nm           5.6mb
SNG     38.39 286 eP     08 39.00   -3.8X
NJ2     39.47 335 Pd     08 52.00    0.4
MAT     39.70   1 eP     08 52.00   -1.4
        0.7s     16.44nm           5.0mb
WHN     40.38 328 eP     09 00.20    1.2
LOE     40.99 301 eP     09 04.50    0.3
TIA     43.78 336 Pd     09 26.10   -0.7
CHG     43.98 302 eP     09 29.80    1.1
        0.7s     12.67nm           4.8mb
MRRJ    45.68   4 eP     09 41.40   -0.4
HOOJ    45.82   6 eP     09 42.80   -0.1
XAN     46.00 326 iPd    09 44.90    0.3
KUSJ    46.68   7 eP     09 49.20   -0.6
CD2     46.94 319 P      09 51.60   -0.5
        0.8s     50.00nm           5.5mb
BJI     47.46 338 eP     09 55.50   -0.5
        1.5s     46.00nm           5.2mb
    Z   20s      0.30um            4.3MszX
                eS     16 42.00
ASAJ    47.48   5 eP     09 56.00    0.0
MDJ     48.30 352 eP     10 02.00   -0.4
        1.0s    100.00nm           5.8mb
HHC     50.03 334 Pc     10 16.20    0.3
        1.2s     60.00nm           5.5mb
LZH     50.36 324 iPd    10 19.20    0.6
        1.0s     83.00nm           5.7mb
    Z   25s      0.32um            4.2MszX
SHL     52.82 306 eP     10 37.00   -0.4
GTA     54.96 325 iPd    10 52.50   -0.2
        0.8s     30.00nm           5.4mb
                sP     11 12.20
LSA     55.29 310 P      10 54.80   -0.9
                S      18 32.00
GUN     58.67 306 P      11 19.60    0.0
PKI     58.92 305 P      11 20.70   -0.6
KKN     59.11 305 P      11 22.24   -0.2
DMN     59.19 305 P      11 22.96   -0.1
GKN     59.72 305 P      11 26.52   -0.1
KOD     61.40 283 eP     11 39.10    0.7
HYB     61.80 292 eP     11 40.00   -0.7
GBA     62.03 287 Pc     11 41.80   -0.4
        1.0s     14.30nm           5.1mb
IRK     62.18 338 eP     11 42.00   -0.6
WMO     64.85 322 iPc    12 00.30   -0.1
        1.2s     50.00nm           5.4mb
YAK     65.48 356 eP     12 03.50   -0.4
                e      12 30.00
CSY     65.63 192 eP     12 04.30   -0.5
        0.5s     10.30nm           5.1mb
NDI     66.09 303 eP     12 08.00   -0.5
POC     66.41 292 iPc    12 10.40   -0.3
        0.9s     43.70nm           5.4mb
ADK     67.26  29 eP     12 15.40    0.0
        1.2s    192.20nm           5.9mb
```

```
GAR     74.72 312 eP     13 00.10   -0.7
QUE     75.11 302 iPd    13 03.90    0.6
        1.0s    485.00nm           6.4mb
                e      13 36.70
SDN     77.23  31 eP     13 15.00    0.7
MAW     81.12 202 eP     13 36.00    0.8
SVW     81.92  27 ePd    13 41.00    1.5
KDC     82.24  31 ePd    13 42.00    0.9
MAIO    82.44 307 iPd    13 43.40    0.6
        0.9s     21.31nm           5.1mb
TTA     82.45  25 ePd    13 43.50    1.2
        0.9s     40.80nm           5.4mb
IMA     84.56  22 ePd    13 54.10    1.1
        0.7s     17.30nm           5.2mb
PMR     85.04  27 ePd    13 55.30    0.0
        0.8s     49.50nm           5.6mb
TOA     86.53  27 ePd    14 03.90    1.1
        1.0s     94.40nm           5.9mb
FBA     86.53  24 ePd    14 02.40   -0.2
SPA     86.66 180 iPc    14 02.50   -1.0
        1.2s     37.32nm           5.4mb
KER     92.30 304 eP     14 26.00   -4.6X
INK     92.67  22 eP     14 30.00   -1.4
        1.4s     69.00nm           5.9mb
MBC     96.33  14 eP     14 47.00   -1.1
KEV    100.19 341 ePdiff15 04.00   -1.6
SOD    101.07 338 iPdiff15 08.30   -1.3
HFS    109.23 334 ePdiff15 45.00   -1.0
        0.5s      1.20nm
NB2    109.83 335 Pdiff 15 47.00   -1.8
        0.9s      2.40nm
SIO    120.80  50 ePKP  20 12.50   -0.1
TUL    121.13  50 ePKPc 20 12.80   -0.4
        0.8s     13.70nm
KIC    142.39 276 PKP   20 48.90   -5.1X
TIC    142.65 277 PKP   20 50.10   -4.3X
LIC    142.68 276 PKP   20 50.90   -3.5X
ARE    145.13 125 iPKPc 21 00.00    1.1
ANCC   145.57  89 ePKP  20 58.99   -0.5
HOOC   145.80  89 ePKP  20 59.78   -0.4
CLMC   145.88  88 ePKPd 20 59.93   -0.2
PURC   146.04  91 ePKP  21 01.62    0.8
HOBC   146.30  87 ePKP  21 00.07   -0.7
CNCB   147.73 129 PKP   21 05.00    1.5
LPB    147.80 129 PKP   21 08.00    4.6X
        1.1s     50.63nm
    Z   20s      7.09um            6.5Msz
                LR     52 56.00
ZOBO   147.93 128 iPKPd 21 05.00    1.2
        1.1s     34.51nm
    Z   20s      4.88um            6.3Msz
                LR     51 30.00
SDV    151.38  78 iPKPc 21 09.20    0.5
MBO    152.64 295 iPKP  21 28.30   18.2X
PPD    153.29 161 (PKP) 21 19.00    8.0X
SIV    153.32 137 PKP   21 13.20    2.0
                i      21 20.20
     S.D. = 0.9  on 102 of 115 obs.
----------------------------------------
? SEP 27, 1991  23h 28m 05.10±10.60s
  52.945 N ±16.2km    4.815 W ±78.3km
  DEPTH =  10.0km  (geophysicist)
UNITED KINGDOM                    (533)

ETA      0.88 254 eP     28 22.50    0.5
                eS     28 36.40
DLF      1.09 289 eP     28 25.00   -0.6
                eS     28 41.00
ECP      1.22 232 eP     28 27.40   -0.4
                eS     28 44.10
DCN      1.54 286 eP     28 33.00    0.5
                eS     28 56.00
     S.D. = 1.0  on   4 of   4 obs.
----------------------------------------
• SEP 27, 1991  23h 31m 21.40± 1.54s
  32.444 N ±11.8km   93.354 E ±16.6km
  DEPTH =  33.0km  (normal)
  4.3mb (  1 obs.)
XIJANG                            (306)

SHL      6.97 191 eP     33 04.00    0.0
                eS     34 21.00
GUN      7.89 237 P      33 17.52    0.5
KKN      8.39 239 P      33 23.72   -0.1
PKI      8.43 237 P      33 24.18   -0.3
DMN      8.62 238 P      33 27.30    0.2
GKN      8.74 242 P      33 28.42   -0.3
```

```
NB2     58.49 326 P      41 16.40    0.0
        0.8s      2.40nm           4.3mb
     S.D. = 0.3  on   7 of   7 obs.
----------------------------------------
& SEP 27, 1991  23h 54m 37.07s
  61.336 N          147.610 W
  DEPTH =  29.9km
SOUTHERN ALASKA                   (  2)
      <AEIC>. ML 3.1 (AEIC).

KNK      0.41 281 iPc    54 45.56   -0.7
                eS     54 52.23
SCM      0.52  15 iPc    54 46.94   -0.9
                eS     54 54.91
GLI      0.52 151 iPc    54 46.94   -0.9
                eS     54 55.05
VZW      0.58 118 iPc    54 47.79   -1.1
                eS     54 56.97
SML      0.59 324 iPc    54 47.85   -1.1
                eS     54 56.52
VLZ      0.65 108 iPc    54 48.53   -1.4
                iS     54 57.80
GHO      0.77 305 iPc    54 50.49   -1.3
PLRM     0.77 290 iPc    54 50.47   -1.3
                eS     55 01.08
FID      0.81 136 iPc    54 50.75   -1.5
                eS     55 01.79
KLU      0.83  78 iPc    54 51.24   -1.4
                iS     55 02.52
PMS      0.95 265 iPc    54 53.51   -0.8
KNIM     0.99 184 ePc    54 53.46   -1.5
TOA      1.03  41 iPd    54 55.11   -0.5
PWA      1.13 287 ePc    54 56.11   -0.8
CVA      1.21 130 iPc    54 57.62   -0.3
                S      55 12.31
TZL      1.26  55 eP     54 57.15   -1.6
LTI      1.31 185 eP     54 58.84   -0.5
                eS     55 17.16
SGAM     1.44 124 eP     55 00.47   -0.9
SUA      1.51 276 iPc    55 02.15   -0.4
SLKM     1.52 238 ePd    55 02.28   -0.3
                eS     55 21.83
SEW      1.53 217 eP     55 01.88   -0.7
SDG      1.54  38 ePd    55 02.66   -0.2
CUT      1.65 312 iPc    55 04.05   -0.4
RAGM     1.72 122 eP     55 06.00    0.5
GLB      1.83  85 iPc    55 06.56   -0.5
                eS     55 29.86
HUR      1.90 331 eP     55 07.91   -0.1
                S      55 31.48
HMT      1.92 120 eP     55 07.31   -1.0
                eS     55 31.53
PAX      1.92  31 eP     55 08.42    0.0
SKT      1.98 291 ePc    55 08.57   -0.6
                S      55 33.58
CGLM     2.12 271 eP     55 11.11   -0.1
SPU      2.15 268 ePd    55 11.03   -0.6
RND      2.16 345 eP     55 09.61   -2.1
NCG      2.19 274 iPc    55 11.84   -0.4
NNL      2.23 236 eP     55 12.43   -0.3
CROM     2.25 103 eP     55 12.33   -0.8
CKL      2.29 269 eP     55 12.91   -0.7
BGL      2.31 270 eP     55 13.35   -0.5
TGL      2.40 102 eP     55 14.77   -0.4
RDT      2.46 254 ePd    55 14.88   -1.2
TRF      2.46 331 ePc    55 15.91   -0.3
WAX      2.49 109 ePc    55 15.29   -1.2
CNPM     2.56 226 eP     55 16.96   -0.4
DFR      2.59 255 eP     55 17.06   -0.8
REF      2.63 253 ePc    55 17.46   -1.1
RDN      2.65 254 ePc    55 17.43   -1.3
RSO      2.66 253 eP     55 17.95   -1.1
RS2      2.66 253 ePc    55 18.06   -1.0
RS1      2.66 253 ePc    55 18.07   -1.0
RDW      2.68 254 eP     55 16.94   -2.3
KTH      2.71 327 eP     55 19.39   -0.1
XLV      2.78 229 eP     55 19.60   -0.9
BWN      2.97 344 eP     55 22.72   -0.5
CTGM     3.07  94 eP     55 23.62   -1.1
HDA      3.10   5 eP     55 25.14    0.1
CCB      3.32 359 eP     55 27.48   -0.7
MDM      3.65 356 eP     55 31.71   -1.1
CDD      3.86 234 eP     55 34.38   -1.5
SVW      3.88 270 eP     55 33.93   -2.2
      58 obs. associated
----------------------------------------
• SEP 27, 1991  23h 55m 24.36± 0.80s
```

27d 23h

41.952 S ±15.4km 84.880 E ±17.2km
DEPTH = 10.0km (geophysicist)
4.7mb (7 obs.) 4.9Msz (1 obs.)
SOUTHEAST INDIAN RIDGE (435)

ASPA	44.41	82	iPd	03	36.80	-0.2
	0.9s		12.00nm		4.8mb	
	Z 21s		1.40um		4.9Msz	
			e	05	19.90	
STK	45.70	97	iPc	03	48.20	1.0
	0.6s		2.10nm		4.3mb	
			i	05	25.50	
WRA	47.00	78	P	03	57.00	-0.6
	0.7s		2.80nm		4.5mb	
WR2	47.02	78	eP	03	49.90	-7.8X
	0.9s		6.10nm		4.7mb	
			i	05	00.40	
SPA	48.24	180	iPc	04	06.10	-0.9
	1.0s		31.00nm		5.3mb	
GBA	55.70	351	P	05	05.00	1.9
	0.2s		1.30nm		4.6mb	
BRS	56.33	98	iP	05	07.90	0.1
HYB	59.36	353	eP	05	28.50	-0.5
PKI	69.17	1	PKP	06	33.46	0.2
DMN	69.21	0	PKP	06	33.74	0.3
KKN	69.39	0	PKP	06	33.80	-0.7
GUN	69.52	1	PKP	06	33.70	-1.7
GKN	69.60	360	PKP	06	34.06	-1.6
OUE	73.66	344	eP	06	59.70	-0.3
LZH	79.58	16	eP	07	33.00	0.0
	2.0s		39.00nm		5.1mb	
	Z 27s		0.56um		4.8MszX	
MAIO	81.27	339	eP	07	43.00	1.1
INK	146.68	25	ePKP	15	07.00	2.1

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

SEP 28, 1991 00h 28m 01.41± 0.58s
39.714 N ± 5.8km 20.965 E ± 4.7km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)

IGT	0.52	250	ePd	28	11.88	-0.1
			eS	28	21.24	
FNA	1.11	16	iPd	28	21.66	-0.7
			eS	28	38.44	
LIT	1.23	71	ePc	28	24.60	0.2
AGG	1.26	123	iPc	28	25.18	0.3
			eS	28	44.92	
OHR	1.40	355	ePn	28	27.30	0.3
THE	1.79	58	iPc	28	32.69	0.2
KNT	2.07	45	iPc	28	36.90	0.3
			iS	29	02.50	
PAIG	2.10	83	ePc	28	36.50	-0.6
			eS	29	06.02	
SOH	2.14	58	ePd	28	37.88	0.2
SKO	2.28	9	ePn	28	40.00	0.3
OUR	2.40	74	iPc	28	40 78	-0.5
			iS	29	09.81	

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

---

* SEP 28, 1991 00h 34m 09.59± 3.03s
40 659 N ± 6.8km 29 805 E ±23.3km
DEPTH = 10 0km (geophysicist)
TURKEY (366)
Felt at Izmit.

HRT	0.19	327	iPg	34	13.50	-0.4
GBZT	0 30	295	iPgc	34	16.70	0.8
			iSg	34	21.40	
YLV	0 34	254	iPg	34	16.20	-0.5
			eSg	34	22.50	
IZI	0.41	218	iPg	34	18 00	0.0
			eSg	34	24.50	
ISK	0.70	306	iPg	34	22.50	-0.8
CTT	1 15	295	iPg	34	31.00	-0.1
EDC	1.51	259	ePn	34	37.00	0.3
DMK	1 93	308	iPn	34	43.60	0.8

S.D. = 0 7 on 8 of 8 obs

? SEP 28, 1991 00h 37m 50.74± 5.44s
51.528 N ±33.0km 16 227 E ±33.4km
DEPTH = 10 0km (geophysicist)
POLAND (548)
ML 3 3 (VKA).

KSP	0 69	177	iPd	38	04.60	0.2
	0.3s		62.00nm			
			iS	38	13.20	
			i	38	17.20	
BRG	1.58	246	iPg	38	19.60	0.8
			iSg	38	39.10	
PRU	1.88	215	ePn	38	22.50	-0.6
			Pg	38	24.10	
			Sn	38	41.50	
			Sg	38	48.40	
			i	38	55.30	
CLL	2.03	265	iPn	38	25.00	-0.4
			iPg	38	27.00	
			eSg	38	54.00	
NKC	2.72	243	Pn	38	35.60	0.3
			Pg	38	42.10	
			Sg	39	15.80	
KHC	2.94	216	Pn	38	38.20	-0.2
			Pg	38	44.50	
			Sn	39	11.60	
			Sg	39	22.50	
MOX	3.04	255	ePn	38	39.50	-0.2
			ePg	38	47.50	
			iSg	39	27.00	
WET	3.21	223	eP	38	42.10	-0.1
VKA	3.27	179	ePg	38	50.50	7.5X
			iSg	39	34.00	
GRF	3.68	242	e(Pn)	38	49.00	0.1
			e(Pg)	39	02.10	
			eSg	39	47.40	

S.D. = 0.5 on 9 of 10 obs.

SEP 28, 1991 00h 43m 07.04± 0.80s
31.048 N ± 5.1km 35.464 E ±11.5km
DEPTH = 10.0km (geophysicist)
DEAD SEA REGION (373)
MD 3.9 (RYD), 3.8 (HLW). ML 3.6 (CSS). Felt.

MKT	0.29	250	iPc	43	14.10	1.1
			eS	43	19.00	
DSI	0.52	352	iPd	43	17.30	-0.4
PRNI	0.81	210	iPd	43	23.10	0.4
ZNT	1.24	343	iPd	43	29.70	-0.4
			eS	43	47.00	
HOL	1.81	192	iPd	43	38.50	0.1
			eS	44	02.00	
AYN	2.22	168	iPd	43	44.50	0.1
			eS	44	16 00	
HRI	2.23	6	ePc	43	43.00	-1.6
BADA	2.55	189	eP	43	49.00	-0.1
			eS	44	20.00	
BHL	2.85	3	Pn	43	55.00	1.5
			Sn	44	38.00	
KOT	3.33	251	ePn	43	58.00	-2.2
			eSn	44	31.50	
HLW	3.75	253	ePn	44	11.50	5.3X
			ePb	44	18.00	
			ePg	44	21.80	
			eSn	44	51.00	
			eSb	44	58.50	
			eSg	45	33.50	
CSS	4.29	336	eP	44	15.50	1.6
			eS	45	07.00	

S.D. = 1.3 on 11 of 12 obs.

SEP 28, 1991 00h 47m 47.96± 0.55s
39.705 N ± 6.1km 20.969 E ± 4.2km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
MD 3.1 (ATH).

IGT	0.52	251	iPc	47	58.42	-0.1
			eS	48	07.58	
KZN	0.86	45	ePb	48	04.00	-0.6
KEK	0.90	271	ePb	48	05.00	-0.3
FNA	1.12	16	iPd	48	08.10	-0.9
LIT	1.23	71	iPd	48	11.41	0.5
AGG	1.26	122	ePd	48	11.89	0.6
			iS	48	31.73	
OHR	1.41	355	iPn	48	13.80	0.1
	1.1s	137	.00nm			
			iSn	48	32.40	
			Lg	48	39.00	
VLS	1.55	191	ePn	48	21.00	5.3X
GRG	1.66	41	ePc	48	17.82	0 5
KNT	2.07	45	iPc	48	23.30	0.1
			iS	48	48.38	
PAIG	2 10	83	ePd	48	22.97	-0 6
SOH	2.14	58	ePc	48	24.58	0.4
			eS	48	52.30	
SKO	2.29	9	iPn	48	28 00	1.6
OUR	2.40	74	iPd	48	27.37	-0.5
			iS	48	56.41	
SRS	2 45	54	ePc	48	27.86	-0 8

S.D. = 0.7 on 14 of 15 obs.

? SEP 28, 1991 01h 32m 07.05± 3.39s
3.939 N ±17.4km 76.923 W ±29.1km
DEPTH = 33.0km (normal)
COLOMBIA (103)
MD 3.2 (UVC).

CLMC	0.36	99	iPd	32	16.06	0.2
ANCC	0.42	172	iPd	32	16.76	0.2
			eS	32	23.30	
HOOC	0.55	148	iPd	32	18.29	-0.3
			eS	32	26.00	
BUGC	0.67	94	eP	32	20.21	0.1
			eS	32	29.30	
HOBC	0.89	62	iPc	32	23.10	-0.2
			eS	32	34.40	

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

---

* SEP 28, 1991 03h 02m 41.19± 0.44s
33.027 N ± 9.3km 138.096 E ± 8.9km
DEPTH = 33.0km (normal)
4.6mb (7 obs.)
SOUTH OF HONSHU, JAPAN (211)

BJI	18.93	298	eP	07	09.50	7.7X
	1.0s		40.00nm		4.6mb	
GUN	44.92	278	P	10	56.40	1.2
	0.5s		26.00nm		5.4mb	
PKI	45 43	278	P	10	59.22	0.0
KKN	45.46	278	P	10	59.62	0.3
DMN	45.67	278	P	11	00.54	-0.4
GKN	45.92	279	P	11	02.22	-0.6
WRA	52.79	184	P	11	55.00	-0.5
	0.6s		1.50nm		4.1mb	
WR2	52.80	184	eP	11	55.50	0.0
	0.2s		7.40nm		5.3mb	
ASPA	56 52	185	iPd	12	23.30	0.7
	0.6s		2.80nm		4.5mb	
GBA	58.20	266	P	12	34.00	-0.6
	0.6s		2.30nm		4.4mb	
INK	59.18	26	eP	12	41.00	0.2
MBC	61.12	15	eP	12	54.00	0.0
	0.5s		3.00nm		4.7mb	
PNT	72 95	42	eP	14	09.00	-0.1
LRM	78.92	42	eP	14	43.00	-0.2

S.D. = 0.6 on 13 of 14 obs.

SEP 28, 1991 03h 14m 29.91± 0.40s
40.792 N ± 7.3km 72.781 E ± 6.7km
DEPTH = 33.0km (normal)
4.6mb (12 obs.)
KYRGYZSTAN (716)

KSH	2.79	118	P	15	19.50	6.1X
			S	15	47.50	
MAIO	11.33	251	eP	17	12.00	-0.6
			eS	19	15.00	
WMO	11.45	70	eP	17	15.00	0.8
OUE	11.59	206	eP	17	20.10	3.8X
			e(S)	19	30.40	
NDI	12.62	162	eP	17	30.00	0.2
	0.4s		12.71nm		5.4mb	
			iS	19	46.00	
GKN	16.06	139	P	18	13.52	-1.5
	0.4s		35.00nm		4.8mb	
KKN	16.56	138	P	18	21.10	-0.3
	0.6s		37.00nm		4.7mb	
DMN	16.62	139	P	18	21.28	-0.9
	0.6s		22.00nm		4.5mb	
GUN	16.77	136	P	18	23.54	-0.6
	0.5s		34.00nm		4.7mb	
PKI	16.80	138	P	18	24.32	-0.2
GTA	20.70	85	P	19	10.80	0.9
	0.8s		10.00nm		4.2mb	
			pP	19	15.80	19kmX
GBA	27 39	170	Pd	20	16.60	2.4
	0.8s		6.90nm		4.4mb	
MLR	34.11	294	eP	21	15.00	1.3
SOD	36 52	332	eP	21	34.00	0.3
HFS	40.65	319	eP	22	07.00	-1.2

```
        0.4s      6.60nm          4.7mb
     Z  15s      0.05um          3.5MszX
                  LR     40 24.00
NB2    41 89 320 P      22 17.00   -1.4
       0.7s       4 60nm          4.3mb
GRF    43.14 303 iPc    22 29.90    1.2
       1.0s      12.00nm          4.6mb
     Z  20s      0.04um          3.3Msz
                  e      22 35.00
MBC    62.99     3 ePc   24 53.90   -1.2
       0.6s      8.00nm          5.0mb
INK    69.45    10 eP     25 36.00   -0.3
KIC    76.43 267 P       26 18.20    0.0
TIC    76.46 267 P       26 18.20   -0.1
LIC    76.73 267 P       26 19.70   -0.1
WRA    83.14 124 P       26 55.00    1.1
       0.6s      0.70nm          3.9mb
     S.D. = 1.1  on  21 of  23 obs.
-------------------------------------
* SEP 28, 1991  03h 27m 10.08± 1.14s
  39.980 N ±14.8km  106.338 E ± 9.2km
  DEPTH =  33.0km  (normal)
 WESTERN NEI MONGOL, CHINA        (323)
     ML 3.8 (BJI).

BTO    2.88   76 Pn     27 55.50    0.7
                 Pg     27 59.70
                 Sg     28 36.70
HHC    4.08   76 Pn     28 12.20    0.3
                 Pg     28 21.60
                 Sn     28 58.80
                 Sg     29 14.00
LZH    4.36 208 Pnd     28 15.50   -0.3
                 Pg     28 26.00
                 Sg     29 21.00
GTA    5.06 266 Pn      28 25.70   -0.1
     Z 12s      0.40um
                 Pg     28 38.60
                 Sn     29 23.80
                 Sg     29 46.40
TIY    5.27 114 Pnd     28 26.70   -2.0
                 Pg     28 42.40
XAN    6 28 160 Pn      28 44.30    1.4
                 Pg     29 01.50
                 Sn     29 47.70
BJI    7.55   86 ePg    29 24.00   23.4X
LPB  156 14 347 PKP     47 20.00   16.9X
CNCB 156.39 346 PKP     47 23.20   19.6X
     S.D. = 1.5  on   6 of   9 obs.
-------------------------------------
? SEP 28, 1991  03h 31m 02.75± 1.15s
  39.632 N ± 9.5km   16 482 E ±10.4km
  DEPTH =  10.0km  (geophysicist)
 SOUTHERN ITALY                   (390)

ROI    0.09 132 P       31 05.40    0.0
TDS    0.11 284 Pc      31 05.80    0.1
                 eSg    31 08.00
CSI    0.21 314 P       31 07.20   -0.1
CZI    0.49 213 P       31 12.70    0.0
     S.D. = 0.2  on   4 of   4 obs.
-------------------------------------
? SEP 28, 1991  03h 34m 18.09± 7.07s
  39.913 N ±16.9km   19.702 E ±61.4km
  DEPTH =  10.0km  (geophysicist)
 GREECE-ALBANIA BORDER REGION     (392)

IGT    0.62 128 iPd     34 30.25   -0.3
OHR    1 46  35 ePn     34 45.00    0.5
FNA    1 55  55 ePd     34 45.45   -0.3
LIT    2 15  84 ePd     34 55.70    1.2
GRG    2 31  62 ePd     34 55.70   -1.1
     S.D. = 1.2  on   5 of   5 obs.
-------------------------------------
? SEP 28, 1991  04h 44m 31.03± 1.62s
  38.563 N ±13.9km   14.623 E ±12.3km
  DEPTH =  10 0km  (geophysicist)
 SICILY                           (398)

MNO    0 63 175 P       44 44.30    0.4
                 eSg    44 55.00
GIB    0 74 219 P       44 45.40   -0.2
                 eSg    44 55.50
SGI    1 23 113 P       44 53.50   -0.4
                 eSg    45 12.90
CZI    1 35  61 P       44 56.00    0 2
                 eSg    45 13.10

     S.D. = 0 6  on   4 of   4 obs.
-------------------------------------
   SEP 28, 1991  05h 28m 29.30± 0 54s
   44.629 N ± 3.0km    6.788 E ± 5.3km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                           (538)
      ML 2.2 (GEN), 2.3 (LDG).

PZZ    0.26 119 P       28 35.02    0.2
                 S      28 39.02
RRL    0.29 360 P       28 35.43   -0.1
                 S      28 39.84
DOI    0.35 111 P       28 37.00    0.4
                 eSg    28 42.80
BHB    0.40  58 P       28 37.58    0.1
                 S      28 43.43
STV    0.54 135 P       28 39.84   -0.5
                 S      28 47.73
ENR    0.61 131 P       28 41.17   -0.4
                 S      28 49.68
RSP    0.62  32 P       28 41.68   -0.2
                 S      28 50.53
LSD    0.87  17 P       28 46.30    0.1
                 S      28 57.27
SBF    0.90 148 Pg      28 46.60    0.1
                 Sg     29 01.60
FRF    1.07 185 Pg      28 49.30   -0.2
                 Sg     29 06.80
LRG    1.21 195 Pg      28 51.60   -0.3
                 Sg     29 09.60
LMR    1.31 189 Pg      28 54.20    0.7
                 Sg     29 12.00
     S.D. = 0.4  on  12 of  12 obs.
-------------------------------------
   SEP 28, 1991  05h 35m 00.02± 0.64s
   40.769 N ± 7.5km   21.930 E ± 4.9km
   DEPTH =  10.0km  (geophysicist)
 GREECE                           (364)

GRG    0.40  62 iPd     35 08 46    0.2
                 eS     35 15 69
FNA    0.42 272 iPd     35 08.77    0.1
                 eS     35 15.44
LIT    0.79 147 iPd     35 14.06   -1.4
KNT    0.83  62 iPd     35 15.98   -0.1
OHR    0.92 292 ePg     35 18.70    1.0
                 eSg    35 32.50
SOH    1.08  87 ePc     35 21.06    0.7
SKO    1.26 343 ePn     35 22.00   -1.4
                 e      35 25.00
PAIG   1.58 122 ePc     35 28.52    0.4
OUR    1.62 105 ePc     35 29.24    0.5
                 eS     35 51.24
     S.D. = 1.0  on   9 of   9 obs.
-------------------------------------
   SEP 28, 1991  06h 57m 25.60± 0.28s
    4.733 S ± 6.9km  103.217 E ± 7.6km
   DEPTH =  33.0km  (normal)
   5.1mb ( 18 obs.)
 SOUTHERN SUMATERA, INDONESIA     (274)

IPM    9.51 347 ePc     59 49.10    5.8X
KHT   19.93 347 iPd     01 58.00    0.3
BDT   22.23 349 eP      02 22.00    0.9
CHG   23.77 350 eP      02 37.00    0.8
       0.8s     19.59nm          4.7mb
QIZ   24.50  15 eP      02 46.60    3.4X
KNA   27.38 115 eP      03 09.00   -1.1
KOD   29.65 300 eP      03 32.00    1.1
WARB  30.94 136 eP      03 41.50   -0.5
GBA   31.41 306 Pc      03 46.30    0.1
       0.8s     13.90nm          4.8mb
WRA   33.86 119 P       04 07.00   -0.5
       0.4s     44.10nm          5.7mb X
WR2   33.88 119 iPd     04 07.30   -0.4
       0.4s     78.90nm          6.0mb X
                iPcP   06 45.30
                eS     09 24.30
ASPA  35.06 125 iPc     04 18.10    0.3
       0.5s     44.70nm          5.7mb X
                i      06 49.00
                iS     09 43.70
CD2   35.45   1 P       04 19.30   -1.7
PKI   36.43 333 P       04 28 98   -0.7
GUN   36.51 334 P       04 30.38    0.0
       0 5s     88 00nm          5.9mb
DMN   36.60 332 P       04 29 50   -1.5

KKN   36 67 333 P       04 31.00   -0.6
       0.6s     59.00nm          5.6mb
GKN   37.15 332 P       04 35.34   -0.2
OIS   38.70 117 iPc     04 48.60    0.1
       0.3s      9.00nm          5.0mb
XAN   38.94   8 P       04 49.80   -0.5
LZH   40.61   1 Pd      05 04.50    0.3
       1.0s     31.00nm          5.0mb
NDI   41.59 325 iPc     05 12.00   -0.2
       0.7s     68.49nm          5.5mb
TIY   43.09  11 Pd      05 25.20    0.8
     Z 24s      0.70um          4.5MszX
PMG   43.82  99 eP      05 29.00   -1.6
GTA   44.03 356 iPc     05 32.60    0.5
       0.6s     10.00nm          4.8mb
CTAO  44.55 114 iPc     05 37.00    0.5
       0.9s     36.76nm          5.2mb
STK   44.95 132 iPc     05 41.00    1.5
       0.5s     16.80nm          5.2mb
                ipP    05 49.30   28kmX
                iPcP   07 21.30
                eS     12 21.80
HHC   46.00   9 Pc      05 49.00    1.2
BJI   46.12  14 eP      05 49.00    0.4
       0.8s     11.00nm          4.8mb
BFD   48.31 137 ePc     06 05.00   -0.9
       1.0s     43.00nm          5.4mb
WMO   50.32 345 Pc      06 21.50    0.2
       1.5s     20.00nm          4.9mb
BWA   51.20 131 eP      06 30.00    1.9
CAN   52.01 132 eP      06 34.80    0.5
BRS   52.24 121 iP      06 36.80    0.7
PRNI  73.83 303 eP      08 59.30    0.1
JVI   73.97 305 eP      08 59.90   -0.1
ATZ   74.28 306 eP      09 02.40    0.6
OBN   80.78 328 iPc     09 37.50    0.3
       0.8s     29.00nm          5.3mb
VRI   84.03 317 ePc     09 53.00   -1.2
KAF   88.06 333 iP      10 13.90    0.2
       0.5s     24.70nm          5.8mb
NUR   88.48 331 iP      10 15.60   -0.1
       0.5s     12.00nm          5.5mb
SPC   88.96 319 eP      10 19.10    0.6
SOD   89.20 338 iP      10 18.60   -0.5
KEV   89.66 340 iP      10 20.70   -0.5
ZST   90.90 318 eP      10 28.00    0.7
BRG   93.17 321 e(P)    10 38.80    1.1
HFS   93.83 330 eP      10 39.70   -0.8
       0.4s      2.00nm          4.9mb
NB2   95.08 331 P       10 45.10   -1.2
       0.8s      3.60nm          4.9mb
PNT  122.70  32 ePKPd   16 20.00    0.3
       0.5s      3.00nm
BGMT 129.28  32 ePKP    16 32.70   -0.1
MEO  143.92  31 iPKPd   16 56.50   -3.4X
SIO  144.27  28 ePKP    16 57.80   -2.6X
                e      17 03.20
TUL  144.37  27 ePKPc   16 57.70   -2.9X
       0.8s     58.10nm
BAO  145.04 234 ePKPc   17 01.00   -1.4
UYO  146.43  27 iPKPd   17 04.10    0.0
     S.D. = 0.8  on  50 of  55 obs.
-------------------------------------
& SEP 28, 1991  07h 14m 07.68s
   60.367 N          153.053 W
   DEPTH = 146.2km
 SOUTHERN ALASKA                  (  2)
     <AEIC>.

RED    0.15   69 iP      14 26.60    0.5
RDW    0.17   46 eP      14 26.84    0.5
RS1    0.17   57 iP      14 26.90    0.6
RS2    0.18   57 iP      14 26.94    0.6
RSO    0.18   57 iP      14 26.92    0.6
NCT    0.20   17 iP      14 26.96    0.7
RDN    0.21   44 iP      14 26.78    0.5
REF    0.21   55 eP      14 26.99    0.6
DFR    0.29   39 iP      14 26.91    0.4
                eS     14 41.92
INW    0.30  188 eP      14 27.27    0.7
INE    0.31  181 eP      14 27.23    0.6
                eS     14 42.45
RDT    0.38   57 iP      14 27.40    0.6
OPT    0.72  187 eP      14 29.79   -0.4
                eS     14 46.67
CKL    0 90   23 eP      14 30.92   -0.8
                eS     14 49.21
```

28d 07h

NNL	0 94 110 eP	14 31.81	0.0
SPU	0.95 31 eP	14 31.06	-1.0
BGL	0.96 20 iP	14 31.57	-0.5
HOM	1.00 135 eP	14 32.06	-0.3
AUL	1 01 191 eP	14 32.03	-0 4
AUW	1.02 192 eP	14 32.14	-0.4
CGLM	1 07 28 eP	14 32.36	-0 8
NCG	1.13 22 eP	14 32.94	-0.7
XLV	1.13 143 eP	14 32.89	-0.7
CNPM	1.24 132 iP	14 33.99	-0.7
	eS	14 53.73	
MCNL	1.35 209 eP	14 34.87	-0.9
SLKM	1.41 83 eP	14 34.64	-1.7
SVW	1.46 302 eP	14 35.34	-1.6
CDD	1.47 192 iP	14 36.19	-0.8
SUA	1.58 45 eP	14 37.57	-0.7
SKT	1.78 24 eP	14 39.66	-0.8
SYI	1.79 169 eP	14 40.21	-0 3
SEW	1.82 97 eP	14 39.34	-1.4
PMS	1.93 61 eP	14 40.64	-1.5
CUT	2.44 32 eP	14 47.56	-0.8
LTI	2.62 95 eP	14 48.69	-1.8
KNIM	2.64 88 eP	14 48.03	-2.8
SML	2.71 56 eP	14 49.30	-2.5
FID	3.27 80 eP	14 56.68	-2.2
VZW	3 27 75 eP	14 57.75	-1.2
TRF	3.36 22 eP	14 58.81	-1.5
VLZ	3 39 74 eP	14 59.63	-0.8

41 obs. associated

% SEP 28, 1991 08h 17m 27.04± 0.82s
38.502 N ± 6.2km 14 529 E ± 9.4km
DEPTH = 22.4 ± 10.1 km
SICILY (398)

MNO	0 59 167 P	17 38.50	-0.2
	eSn	17 49.00	
GIB	0 65 218 P	17 39.50	-0 2
	eSn	17 50.00	
ATN	0 81 115 P	17 42.50	0 2
	eSn	17 52.00	
SOI	1 28 109 P	17 49.00	-0 5
MEU	1.43 167 P	17 52.50	0.6
MGR	1.82 26 P	17 58 00	0.7
	eSn	18 18.00	
SGO	2.14 16 P	18 01.50	-0.5

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

% SEP 28, 1991 08h 18m 07.38± 1.74s
40.099 N ±16.3km 28.861 E ± 5.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZI	0 53 63 iPg	18 18.00	0.0
	eSg	18 27.00	
YLV	0.61 40 iPg	18 19 50	-0.2
	iSg	18 28.50	
EDC	0 80 288 ePg	18 22.50	-0.5
HRT	0.95 40 iPg	18 25.50	0.0
ISK	0 98 9 ePg	18 26.50	0.6
CTT	1.10 343 iPn	18 27.50	-0.5
KGT	1.24 287 ePn	18 31.00	0.5

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

% SEP 28, 1991 08h 55m 31.48± 1.54s
16.945 N ±15.8km 99 623 W ±13.5km
DEPTH = 33.0km (normal)
NEAR COAST OF GUERRERO, MEXICO (58)

ACX	0.24 252 iP	55 38.50	0 0
	iS	55 44.50	
III	1 43 6 iP	55 54.50	-1 1
	iS	56 13.00	
UNM	2 41 10 (P)	56 10 50	0.8
	(S)	56 37.00	
IIT	2 41 31 (P)	56 10.50	0.7
IISM	2 95 46 eP	56 16.50	-0.6
MPX	3 12 332 eP	56 19.50	0.0
	eS	56 59.00	

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

SEP 28, 1991 09h 13m 58.82± 1.45s
7 220 S ±23.3km 125.153 E ±25.0km
DEPTH = 401.7 ± 16.8 km
4.8mb (4 obs)
BANDA SEA (280)

KUPT	3.29 208 eP	15 06.50	1.5
	eS	15 46.00	
MTN	8.12 134 eP	15 55.50	-0.5
KNA	9.19 158 eP	16 06.00	-2.3
WR2	15.49 146 eP	17 14.50	-4.1X
	0.3s 13.40nm	4.9mb	
	eS	20 02.50	
ASPA	18.38 154 iPc	17 48.50	0.6
	0.3s 11.40nm	4.7mb	
	eS	20 56.90	
WARB	18.91 176 eP	17 52.00	-1.1
QIS	19.28 135 iPd	17 57.80	1.2
	0.6s 28.00nm	4.9mb	
	iS	21 17.40	
STK	28.93 150 iPd	19 26.30	1.4
	0.4s 3.90nm	4.1mb	
GUN	51.57 314 P	22 29.38	1.1
PKI	51.70 314 P	22 29.65	0.4
KKN	51.92 314 P	22 29.38	-1.4
DMN	51.94 314 P	22 30.12	-0.9
GKN	52.51 314 P	22 35.04	0.0

S.D. = 1.4 on 12 of 13 obs.

SEP 28, 1991 09h 38m 23.76± 0.19s
27.868 N ± 4.2km 140.820 E ± 3.9km
DEPTH = 33.0km (normal)
5.2mb (28 obs.) 4.3Msz (4 obs.)
BONIN ISLANDS REGION (212)

GUMO	14.70 164 eP	42 00.00	8.8X
SSE	17.39 285 eP	42 26.00	0.5
	Z 20s 0.70um		
	eS	45 44.00	
MDJ	18.98 335 eP	42 41.00	-3.9X
DL2	19.40 309 eP	42 50.20	0.3
NJ2	19.48 288 Pc	42 52.50	1.7
	Z 14s 0.50um		
SNY	19.80 319 Pd	42 53 60	-0.6
	Z 12s 1.20um		
	N 11s 1.00um		
	E 11s 0.70um		
CN2	20.15 326 eP	43 00.00	2.2
TIA	21.70 298 eP	43 14.10	0.3
BAG	21.91 243 eP	43 18.00	1.8
	e	47 20.00	
WHN	23.24 283 Pc	43 33.00	4.0X
	1.5s 80.00nm	5.0mb	
BJI	23.69 307 eP	43 33.00	-0.3
	1.5s 70.00nm	5.0mb	
	Z 16s 0.58um	4.1MszX	
	N 12s 0.31um		
TIY	25.72 300 Pc	43 53.10	0.3
	Z 22s 0.90um	4.3Msz	
	N 11s 0.50um		
	S	48 15.00	
HHC	27.27 306 P	44 06.40	-0.7
	1.0s 50.00nm	5.1mb	
	E 13s 0.60um		
	eS	48 39.00	
XAN	27.97 291 P	44 13.70	0.3
	pP	44 24.00	38kmX
BTO	28.30 305 eP	44 14.60	-1.9
GYA	30.37 275 P	44 36.80	1.7
	1.0s 10.00nm	4.6mb	
	Z 20s 0.80um	4.4Msz	
	N 15s 1.40um		
	E 15s 0.70um		
LZH	32.27 294 P	44 51.00	-0.7
	1.5s 85.00nm	5.4mb	
	Z 23s 0.71um	4.3MszX	
	N 11s 0.41um		
	pP	44 58.50	26kmX
	sP	45 04.00	
CD2	32.34 284 eP	44 52.00	-0.3
	N 10s 0.70um		
	eS	50 02.00	
GTA	35.75 300 Pd	45 20.90	-0.8
	3.1s 590.00nm	6.0mb X	
	Z 22s 0.60um	4.3Msz	
	N 12s 0.60um		
	pP	45 29.40	29kmX
	sP	45 37.80	
	PP	46 48.00	
PMG	37.56 170 e(P)	45 35.00	-1.8
CHTO	39.33 266 iP	45 52.20	0.4
	1.2s 36 46nm	5.0mb	
ADK	39.69 41 eP	45 54 70	0.4
	0.9s 66.30nm	5.4mb	
MTN	41.55 194 eP	46 10.10	0.2
WMO	45.14 305 P	46 39.00	0.0
	1.2s 30.00nm	5.1mb	
	Z 16s 0.70um	4.7MszX	
	pP	46 46.20	24kmX
	S	53 16.20	
WRA	47.94 188 P	47 00.00	-1.2
	0.6s 42.60nm	5.6mb	
WR2	47.94 188 iPc	47 01.10	-0.1
	0.9s 149.50nm	6.0mb	
CTAO	47.96 173 iPc	47 01.50	0.2
QIS	48.15 182 iPc	47 02.60	-0.2
	1.1s 30.00nm	5.2mb	
GUN	48.20 284 P	47 04.50	0.8
	0.9s 236.00nm	6.2mb X	
PKI	48.68 283 P	47 07.92	0.6
KKN	48.74 284 P	47 08.66	1.0
	1.0s 143.00nm	6.0mb	
DMN	48.93 283 P	47 09.88	0.7
GKN	49.24 284 P	47 11.34	-0.1
SDN	49.87 40 eP	47 15.10	-0.5
ASPA	51.67 188 iPd	47 29.10	-0.6
	0.9s 24.60nm	5.2mb	
	i	48 42.70	
KDC	54.53 37 eP	47 50.20	-0.3
IMA	54.95 27 eP	47 53.80	0.1
	1.4s 28.10nm	5.1mb	
WARB	55.44 195 eP	47 58.00	0.5
DZM	55.48 151 iPc	47 58.10	0.2
BRS	56.13 167 iPc	48 02.00	-0.4
	0.9s 5.80nm	4.6mb	
PMR	56.44 33 eP	48 03.30	-1.0
	1.4s 42.90nm	5.3mb	
FBA	57.24 29 eP	48 10.60	0.6
	1.1s 33.20nm	5.3mb	
HYB	57.88 274 eP	48 14.50	-0.7
KLU	57.97 33 P	48 15.00	-0.2
GAR	58.56 301 eP	48 18.20	-1.4
STK	59.42 179 eP	48 25.50	0.1
	0.7s 5.70nm	4.8mb	
FORR	59.64 193 eP	48 26.00	-0.9
BWA	62.37 173 eP	48 45.50	0.0
	e	48 53.80	
BAL	62.54 203 eP	48 47.00	0.4
	0.9s 25.00nm	5.3mb	
CAN	63.32 173 eP	48 51.60	-0.1
	e	48 59.70	
NWAO	64 48 202 eP	49 00.00	0.7
MBC	65.46 15 eP	49 04.50	-0.7
	1.0s 15.00nm	5.0mb	
RKG	66.06 201 eP	49 10.00	0.5
KEV	71.85 340 eP	49 42.00	-2.8X
SOD	73.24 338 eP	49 52.00	-1.1
GMW	74.02 44 P	49 59.00	1.0
RMW	74.67 44 P	50 02.50	0.7
DAG	74.85 355 iPc	50 01.10	-1.1
	1.1s 55.70nm	5.5mb	
LON	74.96 45 P	50 03.50	0.0
FHC	76.01 51 P	50 11.20	1.7
	0.9s 38.46nm	5.4mb	
NEW	77.15 42 P	50 16.40	0.6
	0.9s 30.70nm	5.3mb	
ORV	78.26 51 P	50 22.00	0.0
ARN	79.22 54 P	50 27.80	0.5
SES	79.58 38 ePd	50 29.20	0.2
CMB	79 72 52 P	50 30.50	0.5
	1.0s 21.67nm	5.1mb	
KVN	80.84 51 P	50 37.00	0 9
UPP	80.98 335 iP	50 34.30	-1.8
LRM	81.13 43 ePd	50 38.20	0.6
BONR	81.22 52 P	50 38.80	0.5
SYP	81.64 55 eP	50 42.00	1.7
HFS	82.23 336 eP	50 40.50	-2.2
	0.5s 1.60nm	4.3mb	
	Z 15s 0.11um	4.3MszX	
	LR	30 36.00	
NB2	82.44 338 P	50 40.80	-3.1X
	1.3s 19.40nm	5.0mb	
CLC	82.74 53 eP	50 46.00	0.1
SBB	83.12 54 eP	50 48.00	0.1
GSC	83.55 54 eP	50 50.00	-0.2
PLM	84.47 55 eP	50 55.00	0.1
BW06	84.51 44 P	50 55.00	0.0
MSU	85.11 49 P	50 59.00	0.9
RSSD	87.04 41 P	51 06.00	-1.5
KSP	87 62 328 eP	51 08.00	-1.9

```
KHC     90.08 328 eP     51 20.00   -1.6
                  e      52 34.00
ANMO    90.91  49 P      51 27.00    1.1
        1.1s    34.81nm          5.6mb
ALO     90.91  49 ePd    51 26.50    0.6
        1.0s     8.00nm          5.0mb
ARE    148.09  76 ePKP   58 10.00    4.7X
ZOBO   150.88  73 PKP    58 09.20   -0.7
        1.1s    18.85nm
     Z  20s     0.12um          4.7Msz
                  LR     48 42.00
LPB    151.02  73 PKP    58 08.00   -2.0
CNCB   151.25  74 PKP    58 12.00    1.5
      S.D. = 1.0  on  81 of  87 obs.
-------------------------------------
%  SEP  28, 1991  10h 11m 17.35± 0.90s
   39.595 N ± 8.2km   27.549 E ± 6.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)

EDC     0.79  18 ePg    11 32.00   -0.7
KGT     0.88 348 iPg    11 33.50   -0.7
                 iSg    11 46.00
EZN     0.97 284 ePg    11 36.20    0.4
                 eSg    11 49.70
IZI     1.65  63 ePn    11 46.50   -0.1
CTT     1.69  23 ePn    11 47.50    0.5
YLV     1.70  55 ePn    11 47.50    0.2
KHL     2.00 129 ePn    11 51.00   -0.6
HRT     2 03  52 ePn    11 53.00    0.9
      S.D. = 0.7  on   8 of   8 obs.
-------------------------------------
   SEP  28, 1991  10h 48m 26.73± 0.22s
   27.926 N ± 4.0km  140.742 E ± 4.4km
   DEPTH =  33.0km  (normal)
   5 1mb ( 30 obs.)  4.4Msz (  5 obs.)
 BONIN ISLANDS REGION              (212)

IIDJ    7.91 343 eP     50 23.60    1.3
CHJJ    8.23 350 eP     50 27.20    0.4
KAKJ    8.27 357 eP     50 26.20   -1.1
TSRJ    8.60 333 eP     50 36.30    4.4X
MTMJ    8.98 345 eP     50 38.80    1.5
NIIJ    9.40 351 eP     50 42.30   -0.6
GUMO   14.78 164 eP     52 01.00    5.9X
SSE    17.31 285 eP     52 32.00    4.6X
        1.5s    30.00nm          4.2mb
SNY    19.71 319 Pc     52 56 00   -0.3
        1 8s    80.00nm          4.7mb
     Z  12s     0.90um          4.4Msz
     N  12s     1.10um
     E  12s     1 10um
TIA    21.61 298 Pc     53 16.60    0.7
        1 2s   100.00nm          5.1mb
     N  10s     0.60um
                  S     57 11.20
BAG    21.87 243 eP     53 22.50    3.7X
                  e     57 21.00
WHN    23.16 283 Pc     53 34.00    2.8X
        1.8s   300.00nm          5.5mb
     N  13s     1.20um
     E  13s     0.90um
BJI    23.60 307 eP     53 35.00   -0.4
        1.5s    74 00nm          5.0mb
     Z  14s     0.88um          4.4MszX
     N  14s     0.83um
                  eS    57 48.00
                  eSS   58 36.00
HHC    27.18 306 Pd     54 09.20    0.0
        1.1s    70.00nm          5.2mb
     N  10s     0.40um
XAN    27.88 291 P      54 15 50   -0.1
        1.0s    30.00nm          4.9mb
                  pP    54 25.00   34kmX
GYA    30 29 275 iPc    54 38.00    0.6
        1.4s    40.00nm          5.0mb
     Z  20s     0.90um          4.4Msz
     N  15s     1.40um
     E  15s     1.20um
LZH    32.18 294 P      54 53.00   -0.9
        5.0s   300.00nm          5.4mb X
     Z  20s     0.94um          4.5Msz
     N  15s     1.07um
     E  14s     0.68um
                  pP    55 04.00   41kmX
                  sP    55 08.50
CD2    32.26 284 Pc     54 54.70    0.2
        0.6s   100.00nm          5.9mb
     Z  20s     0.70um          4.3Msz
     N  11s     1.20um
                  eS    00 02.50
GTA    35.66 299 P      55 24.00    0.1
        3.1s   500.00nm          5.9mb X
     Z  22s     0.60um          4.3Msz
     N  12s     0.60um
CHTO   39.27 266 eP     55 55.00    0.8
        1.3s    20.83nm          4.7mb
ADK    39.69  41 P      55 57.00   -0.3
        0.8s    22.41nm          5.0mb
MTN    41.59 194 eP     56 13.40    0.2
WMQ    45.05 305 P      56 40.70   -0.6
        1.5s    50.00nm          5.2mb
     Z  16s     0.70um          4.7MszX
                  pP    56 50.00   31kmX
                  S     03 21.00
WRA    47.99 188 P      57 04.00   -0.5
        0.6s    36.50nm          5.6mb
WR2    47.99 188 iPc    57 04.30   -0.2
        0.9s   127.20nm          5.9mb
CTAO   48.03 173 iPc    57 04.00   -0.8
GUN    48.12 284 P      57 06.92    0.9
        0.9s   155.00nm          6.1mb
OIS    48.21 181 iPc    57 06.00   -0.2
        0.9s    19.00nm          5.1mb
PKI    48.60 283 P      57 09.70    0.0
        1.0s    65.00nm          5.6mb
KKN    48.66 284 P      57 11.06    1.0
        0.9s    84.00nm          5.8mb
DMN    48.85 283 P      57 11.42   -0.1
GKN    49.16 284 P      57 15.36    1.6
SDN    49.87  40 P      57 17.50   -1.1
ASPA   51.71 188 iPd    57 32.20   -0.8
        0.9s    16.80nm          5.0mb
KDC    54.52  37 P      57 51.00   -2.4
IMA    54.93  27 eP     57 57.00    0.5
        1.0s     8.75nm          4.7mb
DZM    55.56 151 iPc    58 01.50    0.0
BRS    56.20 167 iP     58 05.30   -0.6
PMR    56.43  33 eP     58 06.50   -0.7
        1.4s    39.40nm          5.2mb
FBA    57.23  29 eP     58 13.00    0.2
        1.1s    22.70nm          5.1mb
HYB    57.81 274 eP     58 18.50    0.9
GAR    58.47 301 eP     58 21.00   -1.0
GBA    60.31 270 Pc     58 35.10    0.2
        1.0s    13.30nm          5.0mb
BWA    62.44 173 eP     58 48.80   -0.1
CAN    63.39 172 eP     58 54.90   -0.2
MBC    65.42  15 eP     59 07.50   -0.4
KEV    71.78 340 eP     59 46.00   -1.4
GMW    74.03  44 P      00 02.00    1.0
LON    74.97  45 P      00 06.50    0.0
FHC    76.02  51 P      00 13.50    0.9
        1.0s    40.00nm          5.4mb
NEW    77.16  42 P      00 19.40    0.6
        0.8s    15.63nm          5.1mb
ORV    78.28  51 P      00 25.20    0.1
ARN    79.24  53 P      00 31.00    0.6
SES    79.58  38 eP     00 32.00    0.0
CMB    79.74  52 P      00 33.50    0.4
        1.0s    12.50nm          4.9mb
UPP    80.90 335 iP     00 36.90   -1.8
LRM    81.14  43 eP     00 41.30    0.7
BONR   81.24  52 P      00 41.90    0.6
HFS    82.15 336 eP     00 43.70   -1.6
        0.5s     1.90nm          4.4mb
     Z  17s     0.17um          4.5MszX
                  LR     40 29.00
NB2    82.36 338 P      00 44.60   -1.8
        1.3s    24.30nm          5.1mb
CLC    82.76  53 eP     00 41.00   -8.0X
SBB    83.14  54 eP     00 51.00    0.0
GSC    83.57  53 eP     00 54.00    0.8
BW06   84.51  44 P      00 57.50   -0.5
MSU    85.13  49 P      01 02.20    1.0
KRA    86.32 326 eP     01 05.00   -1.6
RSSD   87.04  41 P      01 10.00   -0.5
KSP    87.54 328 eP     01 11.20   -1.3
ANMO   90.92  49 P      01 30.50    1.5
        1.0s    18.75nm          5.4mb
ALO    90.92  49 eP     01 30.00    1.0
        1.1s     6.96nm          4.9mb
ZOBO  150.92  73 PKP    08 14.00    1.0
        1.0s    10.50nm
     Z  20s     0.15um          4.8Msz
                  LR     59 26.00
LPB    151.07  73 PKP    08 14.00    1.0
CNCB   151.30  73 PKP    08 15.20    1.7
      S.D. = 0.9  on  67 of  73 obs.
-------------------------------------
*  SEP  28, 1991  11h 00m 03.82± 2.05s
   7.387 S ±10.8km  119.468 E ±10.9km
   DEPTH = 242.1 ± 25.3 km
   4.9mb (  3 obs.)
 FLORES SEA                        (279)

KNA    12.33 133 eP     02 52.00   -0.8
MTN    12.70 116 iPd    02 58.20    0.8
        0.4s   104.00nm          5.4mb X
                  eS     05 13.00
MBL    13.70 179 eP     03 11.00    1.2
                  eS     05 40.00
NANU   15.56 194 eP     03 31.00   -1.4
                  eS     06 25.00
WR2    19.09 132 iPd    04 09.50   -1.1
        0.2s    70.00nm          5.8mb X
                  eS     07 25.30
WARB   19.90 161 eP     04 18.00   -0.7
ASPA   21.31 141 iPd    04 32.90    0.4
        0.3s    14.90nm          5.0mb
                  e      04 58.10
                  eS     08 05.80
MRWA   21.96 188 eP     04 40.00    1.2
OIS    23.48 126 eP     04 53.70    0.3
                  i      05 26.00
                  e      08 48.00
GUN    47.80 319 P      08 19.84    0.4
        0.6s    26.00nm          4.7mb
PKI    47.89 318 P      08 19.74   -0.3
DMN    48.11 318 P      08 21.68   -0.1
KKN    48.12 318 P      08 21.74    0.0
GKN    48.68 318 P      08 25.88   -0.1
        0.4s    27.00nm          5.0mb
      S.D. = 0.9  on  14 of  14 obs.
-------------------------------------
*  SEP  28, 1991  11h 13m 06.99± 0.84s
   39.760 N ± 8.1km   20.924 E ± 7.2km
   DEPTH =  10.0km  (geophysicist)
 GREECE-ALBANIA BORDER REGION      (392)

IGT     0.51 244 ePd    13 17.06   -0.3
                 eS     13 26.58
FNA     1.08  19 ePd    13 26.82   -0.5
                 iS     13 43.74
LIT     1.25  74 ePc    13 29.89   -0.4
AGG     1.32 124 iPd    13 31.69    0.4
                 eS     13 49.26
OHR     1.35 356 ePn    13 32.70    0.8
      S.D. = 0.8  on   5 of   5 obs.
-------------------------------------
&  SEP  28, 1991  11h 19m 41.58s
   58.408 N          154.085 W
   DEPTH =  89.2km
 ALASKA PENINSULA                  ( 12)
      <AEIC>.

CDD     0.57  24 iP     19 56.30   -0.8
                 eS     20 08.58
MCNL    0.79 351 iP     19 58.28   -0.9
                 eS     20 11.22
SYI     0.91  76 eP     19 59.62   -0.9
                 eS     20 13.70
AUI     0.99  20 eP     20 00.58   -0.8
                 eS     20 14.54
AGU     1.01  19 eP     20 00.76   -1.0
AUW     1.02  18 eP     20 00.69   -1.0
AUP     1.02  20 eP     20 01.52   -0.3
AUE     1.02  21 eP     20 00.83   -0.9
AUL     1.03  19 eP     20 01.34   -0.6
KDC     1.07 127 iP     20 01.23   -1.1
                 eS     20 17.00
OPT     1.32  19 iP     20 04.16   -1.3
                 eS     20 21.99
XLV     1.61  48 eP     20 07.99   -1.2
                 eS     20 27.84
INW     1.74  16 iP     20 08.98   -1.9
                 eS     20 30.24
INE     1.74  17 iP     20 09.10   -1.9
HOM     1.78  44 eP     20 09.79   -1.5
CNPM    1.85  52 iP     20 10.35   -2.0
                 eS     20 32.15
```

28d 11h

RED	2.13	18	eP	20	13.85	-2.2
			eS	20	38.80	
RS1	2.17	18	eP	20	14.66	-2.1
			eS	20	40.52	
RS2	2.17	18	iP	20	14.71	-2.1
RSO	2.17	18	iP	20	14.69	-2.1
			eS	20	40.59	
NNL	2.18	40	iP	20	15.25	-1.4
RDW	2.18	17	iP	20	14.77	-2.1
REF	2.20	18	iP	20	15.02	-2.2
RDN	2.22	17	iP	20	15.31	-2.0
NCT	2.24	15	iP	20	15.49	-2.1
DFR	2.30	17	eP	20	16.31	-2.2
RDT	2.34	21	iP	20	16.22	-2.7
SVW	2.82	345	eP	20	23.15	-2.3
SLKM	2.89	41	eP	20	23.52	-2.9
SEW	2.93	52	eP	20	23.59	-3.3
SPU	2.97	19	eP	20	24.65	-2.9
BGL	2.99	16	eP	20	25.35	-2.5
CGLM	3.09	19	eP	20	27.14	-2.1
NCG	3.16	17	eP	20	27.54	-2.7
SUA	3.50	27	eP	20	32.17	-2.7
LTI	3.60	60	iP	20	32.87	-3.3
PMS	3.65	37	eP	20	34.16	-2.7
KNIM	3.79	56	eP	20	35.10	-3.7
SKT	3.80	19	eP	20	35.89	-3.2
PLRM	4.05	36	eP	20	38.48	-3.9
KNK	4.14	41	eP	20	39.99	-3.7
GLI	4.33	52	eP	20	42.43	-3.9
CUT	4.43	24	eP	20	44.40	-3.3
SML	4.46	38	eP	20	45.16	-3.0
FID	4.52	56	eP	20	44.69	-4.3
VZW	4.65	52	eP	20	47.09	-3.7
CVA	4.76	60	eP	20	47.92	-4.3
VLZ	4.78	52	eP	20	48.96	-3.5

48 obs. associated

• SEP 28, 1991 11h 27m 34.87± 0.79s
39.564 N ± 7.4km 76.979 W ± 7.7km
DEPTH = 5.0km (geophysicist)
CHESAPEAKE BAY REGION (493)
mbLg 2.4 (GS). Felt at Rondolistown, Maryland.

DCP	0.66	345	P	27	48.00	-0.1
			S	27	59.00	
NED	0.99	81	iP	27	54.00	-0.1
			eS	28	06.80	
BWD	1.11	77	iP	27	56.30	0.2
			(S)	28	11.00	
NA2	1.56	203	eP	28	02.60	-0.6
CVL	1.96	217	eP	28	09.70	0.6
LVNJ	2.10	53	eP	28	15.00	3.8X
TBR	2.63	52	eP	28	22.60	3.9X

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

& SEP 28, 1991 11h 52m 08.65s
61.044 N 147.081 W
DEPTH = 23.7km
SOUTHERN ALASKA (2)
<AEIC>. ML 3.3 (AEIC), 3.0 (PMR)

GLI	0.17	182	iPc	52	13.32	-0.5
			eS	52	17.72	
VZW	0.26	86	iPc	52	14.62	-0.4
			iS	52	19.82	
VLZ	0.37	76	iPc	52	16.04	-0.7
			iS	52	22.05	
FID	0.42	135	iPc	52	16.36	-1.1
			eS	52	23.06	
KLU	0.72	51	iPd	52	21.14	-1.4
			eS	52	31.53	
KNK	0.76	300	iPc	52	21.87	-1.3
			eS	52	32.51	
KNIM	0.77	205	iPd	52	21.38	-1.9
			eS	52	32.78	
SCM	0.80	352	iPc	52	22.37	-1.5
			eS	52	33.43	
CVA	0.82	127	iPc	52	23.28	-0.9
			eS	52	33.62	
SML	0.97	322	iPc	52	25.16	-1.6
			eS	52	38.60	
SGAM	1.07	120	iPc	52	26.85	-1.3
LTI	1.08	201	iPd	52	26.89	-1.4
			eS	52	41.93	
PLRM	1.13	300	iPc	52	27.31	-1.7
PMR	1.13	300	iPc	52	27.80	-1.2
GHO	1.15	310	iPc	52	27.77	-1.6
			eS	52	43.58	
TOA	1.15	22	iPd	52	28.90	-0.5
PMS	1.22	281	iPc	52	29.00	-1.3
			eS	52	43.91	
TZL	1.28	38	iPd	52	30.67	-0.4
RAGM	1.35	118	eP	52	31.60	-0.6
			eS	52	49.90	
PWA	1.48	296	ePc	52	33.10	-0.8
SEW	1.50	232	iPd	52	32.68	-1.6
			eS	52	51.62	
HMT	1.56	116	eP	52	33.84	-1.3
			eS	52	53.14	
GLB	1.63	74	iPc	52	35.45	-0.8
			eS	52	56.40	
SLKM	1.63	252	ePc	52	35.05	-1.2
			eS	52	56.15	
SDG	1.66	25	iPd	52	35.99	-0.6
			eS	52	56.69	
MID	1.66	167	eP	52	37.20	0.6
KAIM	1.73	129	eP	52	37.60	0.0
SUA	1.82	285	iPc	52	38.02	-1.0
CROM	1.95	97	eP	52	39.98	-1.0
CUT	2.04	313	ePc	52	41.39	-0.7
PAX	2.08	21	eP	52	42.13	-0.6
TGL	2.10	96	ePc	52	41.70	-1.4
			eS	53	08.30	
WAX	2.16	104	ePc	52	42.13	-1.8
			iS	53	09.21	
SNH	2.26	111	eP	52	44.92	-0.4
HUR	2.28	329	eP	52	45.21	-0.4
			eS	53	13.86	
NNL	2.31	246	iPc	52	45.23	-0.7
SKT	2.33	296	iPc	52	44.77	-1.5
			eS	53	11.87	
CGLM	2.40	278	ePc	52	45.87	-1.4
SPU	2.42	275	iPc	52	45.80	-1.7
NCG	2.48	281	ePc	52	46.77	-1.7
RND	2.51	341	ePc	52	48.15	-0.8
CKL	2.56	276	ePc	52	47.67	-1.9
CNPM	2.57	235	ePd	52	47.58	-2.1
			eS	53	17.56	
BGL	2.58	277	ePc	52	48.04	-1.9
RDT	2.65	262	eP	52	48.70	-2.2
YAH	2.71	102	eP	52	51.24	-0.6
DFR	2.78	263	eP	52	50.79	-1.9
CTGM	2.80	89	eP	52	51.47	-1.6
XLV	2.81	237	eP	52	50.95	-2.1
REF	2.81	261	eP	52	51.14	-2.1
MCK	2.83	343	eP	52	50.88	-2.5
RDN	2.84	262	ePc	52	51.01	-2.5
TRF	2.84	330	ePc	52	52.79	-0.9
RSO	2.85	261	ePc	52	51.45	-2.3
RS2	2.85	261	eP	52	51.45	-2.3
RS1	2.85	261	ePc	52	51.83	-1.9
RED	2.87	260	ePc	52	51.93	-1.9
RDW	2.87	261	eP	52	51.37	-2.6
NCT	2.91	263	eP	52	52.53	-1.9
KTH	3.09	326	eP	52	56.62	-0.5
HDA	3.38	1	eP	52	59.83	-1.2
WRH	3.47	353	eP	53	00.94	-1.5
CCB	3.63	355	eP	53	03.09	-1.6
FBA	3.88	356	eP	53	07.00	-1.2
MDM	3.96	353	eP	53	07.68	-1.7
SVW	4.15	275	eP	53	08.60	-3.5
KDC	4.31	222	eP	53	11.70	-2.6
IMA	5.84	333	eP	53	33.80	-2.2

68 obs. associated

? SEP 28, 1991 12h 02m 26.56± 3.81s
37.209 N ±27.2km 20 903 E ±32.2km
DEPTH = 5.0km (geophysicist)
IONIAN SEA (399)
MD 3.1 (ATH).

VLS	1.00	346	ePb	02	45 00	-0.9
VLI	1.70	106	ePb	02	56.90	-0.1
AGG	2.13	31	ePc	03	03 78	0 5
IGT	2.36	349	iPd	02	53.85	-12.8X
KEK	2.65	341	ePg	03	19.10	8.5X
LIT	3.14	23	ePd	03	22.94	5 3X
OHR	3.90	359	eP	03	30.00	1.5
GRG	3.92	17	iPd	03	14 82	-13.9X
KNT	4.24	21	ePd	03	32 30	-1.0

S.D. = 1.5 on 5 of 9 obs

? SEP 28, 1991 12h 41m 07.73± 3.31s
10.768 N ±13.4km 62.239 W ±27.5km
DEPTH = 33.0km (normal)
NEAR COAST OF VENEZUELA (97)
MD 3.2 (TRN).

TCE	0.48	98	eP	41	17.66	-0.4
			eS	41	29.05	
TRN	0.83	98	eP	41	22.64	-0.3
			eS	41	37.17	
TPP	0.90	120	eP	41	24.02	0.1
			eS	41	38.23	
TBH	1.19	104	eP	41	28.43	0.4
			eS	41	46.00	
PIG	1.43	74	eP	41	31.78	0.2
TPR	1.49	74	eP	41	32.68	0.1
GRW	1.49	22	eP	41	32.50	-0.1
			eS	41	52.46	
BOT	1.55	75	eP	41	33.27	0.0

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

? SEP 28, 1991 13h 36m 29.63± 1.02s
37.740 N ± 8.3km 15.002 E ± 9.0km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO	0.31	308	P	36	35.60	-0.5
			eSg	36	40.60	
ATN	0.56	41	P	36	41.00	0.1
MEU	0.64	185	P	36	42.40	-0.1
			eSg	36	50.90	
GIB	0.81	288	P	36	46.00	0.6

S.D. = 0.8 on 4 of 4 obs.

• SEP 28, 1991 15h 05m 40.25± 1.06s
27.561 S ± 9.7km 147.717 E ±11.4km
DEPTH = 10.0km (geophysicist)
QUEENSLAND, AUSTRALIA (594)
ML 4.0 (CNB), 3.7 (QLP). Felt at St George.

RMO	1.41	41	iPc	06	06.00	0.0
			iS	06	24.00	
QLP	3.25	287	iPd	06	38.90	6.6X
			iPg	06	59.10	
			eS	07	22.10	
			eSg	07	57.00	
CMS	4.24	202	ePn	06	40.00	-6.4X
			iPg	06	56.00	
			iSn	07	33.00	
			iSg	07	51.00	
ARMA	4.46	131	iPc	06	22.70	-26.8X
			iPg	06	31.80	
			iSg	07	11.00	
BRS	4.50	89	iPc	06	22.00	-28.0X
	0.2s		5.00nm			
			i	06	29.50	
			i	06	29.70	
			i	06	35.00	
			e	06	44.00	
			eS	06	49.00	
			iS	06	58.00	
STK	6.85	230	eP	07	22.30	-0.9
	0.4s		3.50nm			4.8mb X
			eS	08	40.40	
BWA	6.87	175	ePn	07	08.20	-15.3X
			iPg	07	32.20	
			eSg	08	55.30	
CTAO	7.56	349	e(P)	08	05.00	31.9X
			e(S)	09	41.00	
CAN	7.81	172	eP	07	24.20	-12.5X
			eSn	08	26.50	
			eSg	09	23.20	
CNB	7.86	170	ePn	07	22.00	-15.4X
			ePg	07	48.00	
			eSn	08	55.70	
			eSg	09	23.00	
QIS	10.17	312	eP	08	09.30	-0.1
			eS	10	13.00	
BFD	10.53	203	eP	08	14.80	0.5
			eS	10	18.00	
ASPA	13.05	284	iPd	08	49.80	1.4
	0.3s		7.60nm			5.3mb X
			eS	11	21.10	
WRA	14.38	299	eP	09	05.00	-0.9
	0.4s		11.30nm			4.9mb X
			eS	11	50.80	

S D. = 1.1 on 6 of 14 obs.

? SEP 28, 1991 17h 55m 58.11± 0 88s
43 405 N ± 8.6km 12.553 E ± 7.5km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

ARV	0.30	72	P	56 04.40	0.1
			eSg	56 09.40	
ASS	0.34	167	Pd	56 05.20	0.0
			eSg	56 11.30	
CRE	0.49	297	P	56 08.30	0.2
SFI	0.72	316	P	56 12.10	-0.2
			eSg	56 24.30	

S D. = 0.3 on 4 of 4 obs.

? SEP 28, 1991 18h 12m 53 74± 8.35s
41.682 N ±42.0km 27.742 E ±110.km
DEPTH = 5.0km (geophysicist)
TURKEY (366)

DMK	0.14	5	iPg	12 56.50	-0.1
CTT	0 74	136	iPg	13 08.00	-0.6
			iSg	13 18.00	
YLV	1.66	132	ePn	13 24.00	0.3
HRT	1.69	120	ePn	13 24.50	0.4

S.D. = 0.8 on 4 of 4 obs.

? SEP 28, 1991 18h 40m 22.75±10.93s
4.527 N ±61.7km 77.220 W ±70.0km
DEPTH = 33.0km (normal)
NEAR WEST COAST OF COLOMBIA (102)
MD 4.0 (UVC).

CLMC	0.92	134	iPd	40 39.81	0.4
			eS	40 51.20	
ANCC	1.06	161	iPd	40 41.23	-0.2
HOBC	1.09	99	iPd	40 41.88	-0.1
			eS	40 54.90	
BUGC	1.15	123	ePd	40 42.68	0.0
HOOC	1.20	151	iPd	40 42.61	-1.0
			eS	40 56 10	
PURC	2 35	159	eP	41 01.20	0.8
			eS	41 28.60	

S.D. = 0.8 on 6 of 6 obs

SEP 28, 1991 18h 52m 01.51± 0.75s
44.129 N ± 4.5km 6.967 E ± 5.8km
DEPTH = 12.2 ± 9.3 km
FRANCE (538)
ML 2 4 (LDG).

STV	0.28	66	P	52 07.24	-0.4
			S	52 12.42	
ENR	0.34	73	P	52 08.38	-0.3
			S	52 14.15	
PZZ	0.39	14	P	52 09.50	-0 1
			S	52 15.85	
SBF	0.43	128	Pg	52 11.00	0.6
			Sg	52 17.80	
FRF	0.61	202	Pg	52 13.00	-0 7
			Sg	52 21 40	
ROB	0.67	75	P	52 14.83	0.1
			S	52 27 19	
BHB	0.74	16	P	52 15.88	0.0
			S	52 28.69	
LRG	0.80	213	Pg	52 17 60	0.7
			Sg	52 27 60	
LMR	0.86	203	Pg	52 17.50	-0 4
			Sg	52 29 00	
RSP	1.04	11	P	52 21 53	0 5

S D. = 0 6 an 10 of 10 obs.

SEP 28, 1991 20h 16m 38.30± 0.35s
45 408 N ± 3.4km 6 525 E ± 4 1km
DEPTH = 4.0 ± 3.5 km
FRANCE (538)
ML 2.5 (LDG), 2.6 (GEN).

RSL	0.29	14	Pg	16 45.01	0.9
			Sg	16 49 31	
BNI	0 37	163	P	16 45.60	-0.2
			eSg	16 51.10	
LSD	0.45	83	P	16 47.35	0.1
			S	16 53.50	
RRL	0.52	159	P	16 48.99	0.2
			S	16 55.86	
RSP	0.58	116	P	16 50.11	0.3
			S	16 57.60	
BHB	0.77	137	P	16 53.41	-0.3
			S	17 04.82	
PZZ	0.99	155	P	16 57.39	-0.4
			S	17 10.97	
ORX	1.05	77	P	16 58.83	0.1
			S	17 13.29	
STV	1.30	154	P	17 02.52	-0.4
			S	17 20.20	
ENR	1.34	151	P	17 03.54	-0.2
			S	17 22.00	
SSB	1.40	265	Pn	17 04.33	-0.4
			Pg	17 05.88	
			Sg	17 24.03	
ROB	1.47	139	P	17 05.50	-0.1
SBF	1.68	157	Pg	17 12.60	4.0X
			Sg	17 35.00	
FRF	1 85	177	Pg	17 14.50	3.4
			Sg	17 39.50	
LRG	1.96	184	Pg	17 12.00	-0.6
			Sg	17 42.40	
SMF	2.24	304	Pn	17 16.80	0.0
			Pg	17 21.40	
			Sg	17 50.00	
LBF	2.37	313	Pn	17 19.20	0.6
			Pg	17 25.40	
BSF	2.43	4	Pn	17 19.20	-0.4
			Pg	17 26.20	
			Sg	17 58.00	
HAU	2.60	357	Pn	17 21.60	-0.3
			Pg	17 28.60	
			Sg	18 02.40	
AVF	2.60	303	Pn	17 22.60	0.7
			Pg	17 30.00	
			Sg	18 02.40	
LOR	2.62	316	Pn	17 21.60	-0.6
			Pg	17 29.80	
SSF	2.67	309	Pn	17 23.20	0.4
			Pg	17 30.70	
BGF	2.81	295	Pn	17 24.60	-0.3
			Pg	17 32.20	
MAF	2.89	288	Pg	17 33.60	7.7X
FVI	4.52	73	P	18 40.20	51.2X
			eSg	18 45.70	

S.D. = 0.9 on 22 of 25 obs.

% SEP 28, 1991 20h 18m 34.34± 1.84s
17.888 N ±18.6km 66.878 W ± 9.0km
DEPTH = 33.0km (normal)
PUERTO RICO REGION (90)

MGP	0.23	301	P	18 41.00	-0.3
MEP	0.27	339	P	18 41.70	-0.1
CLLP	0.34	56	P	18 42.00	-0.7
LRS	0.40	5	P	18 43.20	-0.4
MCP	0.57	337	P	18 46.60	0.6
APR	0.58	14	P	18 46.00	0.0
			S	18 53.50	
LPR	1.05	66	P	18 53.50	0.7

S D = 0.6 an 7 of 7 obs.

SEP 28, 1991 20h 26m 56.15± 0.10s
5.814 S ± 2.7km 150.959 E ± 3.2km
DEPTH = 28 0km (geophysicist)
5.8mb (45 obs.) 6.6Msz (53 obs.)
NEW BRITAIN REGION, P.N.G. (192)
Ms 7.1 (BRK). Mo=1.3*10**19 Nm (PPT). Two events about 2.3 seconds apart. Depth from broadband displacement seismograms, based on first event.
FAULT PLANE SOLUTION: P-Waves

NP1:Strike=122	Dip=60	Slip=	90
NP2:	302	30	90

Principal Axes:

T	Plg=75	Azm= 32
P	15	212

Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
RADIATED ENERGY
No. of sta: 14 Focal mech. M
Energy 1.3±0.3*10**13 Nm

MOMENT TENSOR SOLUTION
Dep 34 No. of sta: 17
Moment Tensor; Scale 10**18 Nm

Mrr= 8.04	Mtt=-8.56	
Mff= 0.51	Mrt= 4.21	
Mrf=-2.99	Mtf= 0.71	

Principal axes:

T	Val= 9.87	Plg=70	Azm= 54
N	-0.11	14	282
P	-9.76	14	188

Best Double Couple:Mo=9.8*10**18
NP1:Strike=259 Dip=33 Slip= 63
NP2: 110 61 106
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 26S, 74C M.W.: 21S, 48C
Centroid Location:
Origin Time 20:27: 5.8 0.1
Lat 6.03S 0.01 Lon 151.21E 0.01
Dep 35.8 0.5 Half-duration 7.0
Moment Tensor; Scale 10**18 Nm

Mrr= 5.85 0.06	Mtt=-5.82 0.05	
Mff=-0.04 0.05	Mrt= 5.37 0.15	
Mrf= 1.05 0.13	Mtf=-1.83 0.04	

Principal Axes:

T	Val= 7.96	Plg=69	Azm=354
N	0.47	3	256
P	-8.44	21	165

Best Double Couple:Mo=8.2*10**18
NP1:Strike=250 Dip=24 Slip= 83
NP2: 77 66 93

RAB	2.01	37	iPc+	27 30.00	1.1
LAT	4.02	258	eP	28 01.50	4.1X
			eS	28 11.90	
YYYY	4.98	265	eP	28 23.60	12.4X
			eS	28 28.80	
MDG	5.19	276	eP	28 19.60	5.7X
			eS	28 26.60	
PMG	5.19	226	iPd-	28 15.00	1.0
			eS	29 12.00	
MNDI	7.27	267	eP	29 02.00	18.5X
HNR	9.61	113	eP	29 15.00	-0.7
			eS	30 52.00	
CTAO	14.91	197	ePd	30 27.08	0.2
			i	30 31.00	
			ipP	30 37.50	
			i	30 45.00	
			iS	33 13.63	
			i(PcP)	33 31.50	
			eScS	42 49.00	
QIS	18.34	216	iPd	31 11.00	0.7
			i	31 14.00	
			i	34 38.00	
GUA	20.14	343	ePc	31 33.20	2.1
	1.0s		4280.00nm		6.7mb X
Z	20s		130.15um		6.3Msz
			pP	31 37.10	15kmX
GUMO	20.20	343	ePc	31 33.40	1.7
	1.2s		3333.33nm		6.6mb
			ec	31 35.88	
			iS	35 24.88	
			(sS)	35 37.79	
PJG	20.20	343	eP	31 33.80	2.1
RMQ	20.67	186	iPd	31 46.40	9.9X
	1.2s		926.00nm		6.0mb
			e	39 33.00	
PVC	20.69	126	iPc	31 35.50	-1.2
MTN	20.77	249	eP	31 37.00	-0.6
	0.5s		368.00nm		6.0mb
			eS	35 28.00	
WR2	21.39	227	iPd	31 43.70	-0.3
	0.5s		274.70nm		5.9mb
			ipP	31 57.90	62kmX
			eS	35 46.60	
BRS	21.53	176	iPc	31 43.90	-1.4
	1.0s		41.00nm		4.8mb X
			i(pP)	31 55.00	44kmX
			i(PP)	32 14.00	
			i	32 49.00	
			i(S)	35 47.10	
OLP	21 63	197	iPd	31 46.50	0.3
			i	39 26.20	
DZM	22.03	139	iPc	31 49.00	-1.4
			iS	35 55.30	
			ScP	39 30.70	
KNA	23.91	244	eP	32 10.30	1.6

0.5s 291.00nm 6.1mb
eS 36 30.00
ASPA 24.18 221 iPc 32 12.50 1.1
0.5s 141.10nm 5.8mb
eS 36 37.80
ARMA 24.48 179 eP 32 14.80 0.5
i 39 33.50
CMS 25.99 190 eP 32 28.00 -0.4
e 39 36.00
STK 27.37 198 eP 32 41.30 0.2
0.6s 15.80nm 4.9mb
i 32 55.10
eS 37 47.00
iScP 39 42.20
eScS 43 30.10
KUPT 27.42 259 eP 32 49.00 7.3X
RIV 27.88 180 eP 32 48.00 2.4X
Z 18s 88.80um 6.4Msz
iS 37 40.00
i 40 40.00
DAV 28.39 297 eP- 32 50.00 -0.5
eS 37 07.80
BWA 28.57 184 eP 32 51.50 -0.4
CNB 29.39 183 eP 33 01.00 1.6
eS 38 16.00
CAN 29.42 183 eP 32 59.70 0.1
e 34 31.80
VUN 29.46 117 eP 32 58.90 -1.2
SVA 29.49 117 eP 32 57.50 -2.9X
WARB 30.81 226 eP 33 12.00 0.0
ADE 31.14 200 iPd 33 15.00 0.2
0.9s 233.61nm 6.0mb
BFD 32.15 193 eP 33 22.00 -1.6
FORR 32.88 218 eP 33 29.00 -1.0
0.3s 28.00nm 5.7mb
MBL 33.79 240 eP 33 38.00 -0.1
0.4s 28.00nm 5.5mb
KKM 36.63 288 ePd 34 02.50 0.0
TAU 37.08 184 iPc 34 07.20 1.4
BAG 37.29 307 eP+ 34 08.00 -0.1
eS 39 50.00
COOL 37.48 225 eP 34 08.80 -0.6
NANU 38.02 240 eP 34 14.00 0.0
0.5s 73.00nm 5.8mb
TRT 38.10 265 iPc 34 18.70 4.0X
URZ 40.08 147 eP 34 30.20 -0.7
KLB 40.28 226 eP 34 32.50 -0.2
e 40 26.00
MRWA 40.39 231 eP 34 34.00 0.4
BAL 40.53 228 eP 34 25.00 -9.8X
NOZ 40.84 147 P 34 39.00 1.9
TCW 40.94 153 eP 34 37.40 -0.5
MNG 41.04 151 eP 34 38.50 -0.2
WEL 41.22 153 P 34 41.00 0.8
PP 36 14.00
S 39 48.00
LTZ 41.37 156 P 34 42.10 0.6
NWAO 41.38 225 ePc 34 41.54 -0.1
ec 34 43.45
ed 34 48.91
epPd 34 52.06 36kmX
ePP 36 20.59
e 36 35.48
iS 40 59.00
EWZ 41.44 158 P 34 43.10 1.2
MTW 41.47 152 eP 34 40.80 -1.4
KAGJ 41.49 334 eP 34 43.70 1.2
MOW 41.55 152 eP 34 42.30 -0.7
KHZ 41.59 155 eP 34 42.40 -0.8
MUN 41.60 227 eP 34 46.00 2.5
Z 20s 36.80um 6.3Msz
eS 40 54.00
e 43 54.00
BLW 41.62 152 eP 34 42.90 -0.6
TATO 41.94 318 ePc 34 47.37 1.1
ec 34 50.18
epPd 34 56.47 31kmX
MOZ 42.29 157 eP 34 49.90 0.9
WKYJ 42.38 341 eP 34 53.30 3.4X
RKG 42.45 223 eP 34 51.00 0.6
0.5s 109.00nm 5.8mb
TKSJ 42.69 339 eP 34 53.50 1.1
CHJJ 43.13 346 eP 34 56.00 0.1
MAJO 43.79 345 ePc 34 57.54 -3.8X
ec 35 00.85
ed 35 07.31
ed 35 14.18
ePP 36 40.33
MAT 43.79 345 P 35 00.00 -1.3
S 41 24.00
OZH 43.89 315 P 35 04.00 1.8
5.0s 4800.00nm 6.6mb X
Z 20s 53.20um 6.5Msz
N 19s 29.20um
E 19s 29.20um
PP 36 48.50
S 41 29.00
SHNJ 43.94 336 eP 35 03.20 0.8
MTMJ 43.94 345 P 35 01.70 -0.9
YONJ 43.99 339 eP 35 05.10 2.2
NIIJ 44.26 346 eP 35 04.80 -0.2
YAMJ 44.93 348 eP 35 11.60 1.2
OFUJ 45.49 350 eP 35 13.80 -1.0
HKC 45.58 309 eP 35 18.80 3.0X
eS 42 02.00
SSE 46.44 324 iPc 35 22.00 -0.4
4.0s 5500.00nm 6.9mb X
Z 20s 57.40um 6.5Msz
N 17s 23.60um
E 17s 15.80um
S 42 08.00
sS 42 18.00
ScS 45 16.00
GZH 46.65 309 iPc 35 26.80 2.6
Z 21s 81.20um 6.7Msz
N 17s 21.00um
E 18s 50.20um
S 42 14.50
QIZ 47.43 302 Pc 35 31.00 0.5
N 22s 18.50um
E 19s 30.30um
PP 37 21.00
S 42 18.00
sS 42 33.00
HOOJ 48.47 352 eP 35 37.90 -0.3
NJ2 48.51 323 Pc 35 39.50 0.8
6.0s 6000.00nm 6.8mb X
Z 20s 28.40um 6.3Msz
N 20s 40.60um
E 20s 14.00um
pP 35 47.50 27kmX
sP 35 52.00
iPP 37 34.00
MRRJ 48.85 350 eP 35 34.80 -6.3X
RAR 50.06 113 P 35 48.00 -2.8X
S 43 04.00
ASAJ 50.26 352 eP 35 50.70 -1.3
WHN 50.35 318 Pc 35 54.50 1.7
7.0s 3900.00nm 6.5mb X
Z 20s 36.90um 6.4Msz
N 22s 33.80um
E 20s 48.40um
IPM 50.92 281 ePd 35 57.20 -0.3
0.9s 54.70nm 5.5mb
e 37 13.90
SNG 51.86 284 eP 36 05.50 0.9
eS 43 18.00
DL2 52.13 331 P 36 06.00 -0.2
Z 36s 16.70um 5.8MszX
E 18s 23.00um
TIA 52.47 325 Pc 36 07.50 -1.4
9.0s 3600.00nm 6.3mb X
Z 26s 19.10um 6.0MszX
N 18s 14.20um
E 20s 26.10um
YSS 53.10 353 iPc 36 13.00 -0.3
eS 43 56.00
GYA 53.57 309 iPc 36 19.00 1.7
6.0s 2700.00nm 6.4mb X
Z 24s 33.60um 6.3MszX
N 18s 8.30um
E 18s 29.70um
PcP 37 22.00
PcS 41 21.00
S 43 49.00
SS 47 30.00
SNY 53.60 335 iPc 36 16.00 -1.0
8.0s 3700.00nm 6.4mb X
Z 22s 50.80um 6.5Msz
N 20s 26.40um
E 20s 33.70um
PP 38 19.00
MDJ 53.75 341 eP 36 17.30 -0.8
8.0s 4400.00nm 6.5mb X
Z 32s 30.50um 6.2MszX
N 20s 22.10um
E 20s 15.10um
sP 36 36.00
LOE 53.81 296 eP 36 20.00 1.0
CN2 54.50 337 Pc 36 22.00 -1.6
6.0s 3500.00nm 6.6mb X
Z 18s 51.00um 6.6Msz
N 16s 15.00um
E 16s 8.00um
epP 36 34.00 42kmX
esP 36 40.00
NST 54.66 294 eP 36 28.00 2.7X
BJI 55.75 328 iPc 36 32.01 -0.7
Z 18s 36.60um 6.5Msz
N 16s 14.00um
E 18s 11.30um
ec 36 34.50
epPd 36 40.95 29kmX
ePP 38 42.24
iS 44 17.91
isS 44 31.15
KHT 55.80 292 eP 36 33.00 -0.5
KMI 56.05 305 iPc 36 35.62 0.1
epPd 36 44.97 31kmX
ePcP 37 38.19
ePP 38 39.71
iS 44 23.62
isS 44 37.69
eScS 46 19.77
XAN 56.11 318 P 36 34.80 -0.8
8.0s 3700.00nm 6.5mb X
N 19s 31.80um
E 20s 24.00um
pP 36 48.00 47kmX
PP 38 41.00
BDT 56.20 295 eP 36 40.00 3.6X
TIY 56.22 324 Pc 36 35.50 -0.8
7.0s 3400.00nm 6.5mb X
Z 18s 41.90um 6.6Msz
N 18s 21.60um
E 18s 18.60um
S 44 24.00
sS 44 39.00
CHTO 56.79 297 iPc 36 38.97 -1.7
1.2s 6.88nm 4.6mb X
epPd 36 48.57 31kmX
ePcP 37 34.33
HON 56.84 60 P 36 42.00 1.1
Z 20s 12.77um 6.0Msz
KIP 56.87 60 iPc 36 43.95 2.8
eS 44 33.43
e 44 52.63
e 46 52.81
OPA 56.98 60 P 36 41.60 -0.3
CD2 58.02 312 eP 36 48.60 -0.6
0.7s 100.00nm 6.0mb
Z 20s 58.30um 6.7Msz
E 20s 59.80um
iPP 38 56.00
HHC 58.82 326 Pc 36 55.00 0.3
6.0s 3000.00nm 6.6mb X
N 17s 26.00um
E 19s 12.00um
PP 39 08.00
S 45 00.00
PET 58.97 5 iP 36 56.00 0.7
eS 45 28.00
AFR 58.98 107 eP 37 00.00 4.0X
1.2s 70.00nm 5.7mb
PPN 59.31 107 eP 37 02.00 3.7X
1.2s 60.00nm 5.6mb
TVO 59.50 107 eP 37 03.00 3.3X
1.2s 90.00nm 5.8mb
BTO 59.53 325 eP 37 00.40 0.8
PMO 60.67 104 iP 37 10.00 2.4X
1.2s 165.00nm 6.0mb
LZH 60.70 317 ePc 37 08.17 0.4
Z 25s 20.70um 6.2MszX
N 16s 8.42um
E 17s 12.90um
ec 37 10.49
epPd 37 16.78 28kmX
ePP 39 17.53
iS 45 22.28
isS 45 36.63
i 46 53.05

```
VAH     60.93 104 iP     37 11.60   2.2
        1.2s    85.00nm           5.8mb
TPT     60.93 104 iP     37 11.80   2 4X
        1.2s   145.00nm           6.0mb
RUV     61.17 104 iP     37 13.30   2.3
        1 2s    90.00nm           5.8mb
DRV     61.22 185 iPd    37 14.50   3.9X
                  PP     39 30.00
                  SS     49 45.00
HIA     61.23 337 iPc    37 10.19  -0.7
                  ec     37 12.34
                  epPd   37 19.13  29kmX
                  ePcP   38 00.35
                  ePP    39 13.46
                  eS     45 29.63
                  i      46 09.36
SMY     61.54  16 eP     37 11.70  -1.3
      Z 22s     44.60um           6.6Msz
ADK     63.77  22 eP     37 26.50  -1.2
        0 5s    35.50nm           5.7mb
      Z 22s     48.90um           6.6Msz
GTA     65.17 318 P      37 37.20  -0.1
        8.0s  2700.00nm           6.4mb X
      Z 20s     39.60um           6.6Msz
      E 17s     24.20um
                  pP     37 47.20  32kmX
                  sP     37 51.00
                  PcP    38 11.20
                  ScP    42 12.00
                  S      46 18.00
                  sS     46 37.00
                  ScS    47 30.00
                  SS     50 30.00
SHL     65.25 301 iP     37 36.50  -1.6
                  iS     46 16.00
CSY     66.53 197 eP     37 47.90   2.6X
        0.7s    19.30nm           5.3mb
LSA     67.31 305 P      37 49.00  -2.6X
      N 19s      7.40um
      E 20s      5.40um
                  pP     38 04.60  57kmX
                  SKS    47 37.50
IRK     70.10 332 eP+    38 07.00  -0.8
                  e      38 25.00
                  e      38 46.00
                  e      39 53.00
                  ePP    40 40.00
                  ePPP   42 24.00
                  e      47 03.00
                  iS     47 34.00
                  eScS   48 03.00
                  ePPS   48 45.00
                  eSS    51 54.00
                  e      53 36.00
                  eSSS   54 56.00
GUN     71.09 302 P      38 14.10  -0.6
PKI     71.38 301 P      38 15.16  -1.3
KKN     71.56 302 P      38 16.00  -1.4
DMN     71.65 301 P      38 17.28  -0.7
GKN     72.16 302 P      38 19.92  -1.0
SDN     72.92  27 eP     38 24.60   0.0
      Z 19s     23.00um           6.5Msz
KOD     74.90 282 eP     38 39.00   1.8
                  eS     48 13.00
HYB     75.10 290 eP     38 39.00   1.0
        1.0s    50.00nm           5.5mb
                  eS     48 04.00
WMQ     75.25 318 iPc    38 38.39  -0.1
      Z 20s     23 90um           6.5Msz
      N 18s     12.50um
                  ec     38 40 54
                  epPd   38 46.83  27kmX
                  esPd   38 50.31
                  eHPP   41 27.55
                  ePP    41 28.88
                  eS     48 15.15
                  e      48 28.80
                  SS     53 04.50
GBA     75.47 286 Pd     38 39.80  -0.3
        1.1s    42.10nm           5.4mb
ILT     76.60  11 iPc    38 47.00   1.5
                  iS     48 28.00
ANM     77.29  18 e(P)   38 49.30  -0.1
KDC     77.93  27 eP     38 53.40   0.4
PDB     78.29  25 P      38 57.00   2.0
SVW     78.46  23 eP     38 55.80  -0.2
TIK     78.65 353 iPc    38 56.00  -0.7
```

```
                  eS     49 26 00
NDI     78.66 301 iPc    38 56.50  -1.2
                  ePP    41 50.00
RSO     79.27  25 eP     38 57.90  -2.7X
TTA     79.38  22 eP     39 00.20  -0.8
        1.0s    33.20nm           5 3mb
PAF     79.59 221 iPd    39 10.00   7.8X
                  eS     48 00.00
                  eSS    54 35.00
SLKM    80.36  25 eP     39 04.30  -1.9
PMR     81.36  25 P      39 10.00  -1.4
        0.6s    27.09nm           5.4mb
      Z 20s     18.00um           6.4Msz
IMA     82.02  20 ePc    39 13.70  -1.3
        1.6s   274.59nm           6.0mb
KSH     82.19 311 Pc     39 18.00   1.7
      N 18s     14.00um
      E 18s     30.00um
                  sP     39 32.00
                  PP     42 28.00
                  S      49 33.00
                  sS     49 46.00
KLU     82.67  26 P      39 16.60  -1.8
TOA     82.84  25 eP     39 19.00  -0.2
COL     83.50  22 iPc    39 19.78  -2.7
                  ec     39 22.43
                  epPd   39 28.39  27kmX
                  eS     49 38.29
                  e      49 55.67
FBA     83.50  22 eP     39 20.10  -2.4
        0.7s    50.87nm           5.8mb
MAW     83.93 203 iPd    39 21.20  -3.4X
        1.0s    76.00nm           5.9mb
      Z 20s     13.00um           6.3Msz
BALM    84.05  27 eP     39 24.50  -0.9
BRW     84.20  15 eP     39 25.70  -0.1
SPA     84.22 180 iPd    39 24.10  -2.2
        1.0s   165.00nm           6.2mb
      Z 20s     12.61um           6.3Msz
                  i      49 51.00
SIT     86.09  32 P      39 36.00   0.5
        1.0s    75.00nm           5.9mb
      Z 20s     50.00um           6.9Msz
GAR     86.39 310 iP     39 37.00  -0.6
                  iSS    42 58.00
                  ePPP   44 47.00
                  iS     50 03.00
                  eSS    55 23.40
                  eSSS   59 29.00
QUE     87.73 300 iP+    39 43.30  -1 1
        1.0s    42.50nm           5.7mb
      Z 20s     80.32um           7.1Msz
                  ePP    43 17.00
                  eSKS   50 14.60
                  eS     50 27.70
FHC     90.02  49 ePc    39 58.05   3.3X
INK     90.05  21 eP     39 52.00  -2.3
        1.0s    89.00nm           6.0mb
PCC     90.85  53 eP     40 00.10   1.5
BRK     90.99  52 eP     40 02.00   2.8X
      Z 20s     83.00um           7.2Msz
                  ePP    43 40.00
                  eS     52 18.00
                  eSS    57 16.00
                  eSSS   01 00.00
                  e      03 20.00
                  eLR    08 42.00
ZSP     91.00  52 eP     40 04.25   5.0X
COR     91.01  45 ePc    39 59.40   0.3
                  ec     40 01.72
                  ed     40 05.69
                  epPd   40 07.51  25kmX
                  esPd   40 12.14
                  eS     50 55.62
                  esS    51 11.34
WDC     91.09  49 iPc    39 59.87   0.2
GCC     91.11  53 eP     40 01.03   1.3
BMW     91.29  44 P      40 01.20   0.7
PGC     91.41  41 eP     40 02.00   1.1
ARN     91.51  53 P      40 02.50   0 8
SAO     91.52  53 eP     40 04.69   3.0X
PRS     91.53  54 eP     40 03.33   1 5
GMW     91.72  43 P      40 02 20  -0 2
ORV     91.77  51 eP     40 03.41   0.6
MIN     91.77  50 ePc    40 04.90   1.9
LLA     91.90  54 eP     40 04 69   1.2
CRZF    92.07 223 ePc    40 13.00   8 9X
```

```
                  ePP    44 06.00
                  ePPP   45 54.00
                  eS     50 51.00
                  eSP    52 17.00
                  eSS    57 25.00
PRI     92.08  54 iPc    40 05.61   1.1
PHAM    92.26  54 P      40 06.00   0.8
LON     92.29  43 iPc    40 03.64  -1.5
                  ic     40 06.29
                  ePP    43 50.49
RMW     92.37  43 P      40 05.40  -0.1
BCH     92.46  55 P      40 06.60   0.4
CMB     92.48  52 iPc    40 06.05  -0.1
                  ic     40 08.37
                  epPd   40 14.00  25kmX
                  eHPP   43 45.29
                  ePP    43 46.61
                  eS     51 13.67
                  isS    51 26.08
SYP     92.48  56 eP     40 07.00   0.6
SBC     92.69  56 ePc    40 08.08   0.9
                  ic     40 10.39
                  ed     40 14.37
                  esPd   40 19.83
                  ePP    43 49.29
ABL     93.13  55 P      40 09.50   0.0
ISA     93.81  55 ePc    40 12.59   0.2
                  ic     40 14.74
                  eS     51 26.54
                  (sS)   51 37.93
PAS     93.94  56 eP     40 13.00   0.1
PNT     93.99  41 eP     40 13.00   0.2
        0.8s    45.00nm           6.0mb
MWC     94.04  56 eP     40 14.00   0.4
BONR    94.12  52 P      40 13.60  -0.4
SBB     94.27  56 eP     40 15.00   0.5
KVN     94.35  51 P      40 14.20  -0.8
CLC     94.53  55 eP     40 16.00   0.3
                  e      44 04.00
MAIO    94.58 306 eP     40 15.00  -0.9
RVR     94.59  56 eP     40 16.00   0.1
PEC     94.76  57 ePc    40 16.60  -0.2
PLM     94.98  57 eP     40 18.00   0.0
BAR     95.09  58 eP     40 19.00   0.7
GSC     95.14  55 eP     40 19.00   0.4
                  e      44 05.00
PFO     95.33  57 ePc    40 20.27   0.8
                  ec     40 22.59
MBC     95.53  14 eP     40 19.00  -0.4
        0.6s    21.00nm           5.8mb
NEW     95.58  42 P      40 18.80  -1.4
        1.6s   178.57nm           6.3mb
      Z 20s     42.00um           6.9Msz
GLA     96.66  57 eP     40 26.00   0.5
                  e      44 19.00
YKA     97.17  28 eP     40 25.80  -1.2
        0.8s    12.90nm           5.5mb
HPI     98.28  47 P      40 32.40  -0.4
LRM     98.73  45 eP     40 34.50  -0.3
NVL     98.88 193 eP     40 36.00   1.3
                  e      40 49.00
                  ePP    44 54.00
                  e      45 04.00
                  ePPP   46 46.00
                  e      48 40.00
                  eSKS   51 08.00
                  e      51 16.00
                  eSKKS  51 37.00
                  eS     51 55.00
                  ePS    53 30.00
                  ePPS   54 07.00
                  e      55 14.00
                  e      55 40.00
                  eSS    58 35.00
                  eSSS   02 20.00
                  e      06 07.00
MSU     98.96  52 eP     40 36.90   1.0
                  PP     44 40.00
SES     99.55  40 eP     40 37.00  -1.1
        0 5s    33.00nm           6.1mb
                  pP     40 52.00  51kmX
BW06   100.88  48 ePdiff40 42.60  -2.0
        1.0s    26.67nm           5.7mb
                  PP     45 00.00
ALQ    103.62  56 ePdiff40 57.00   0.1
        1.3s    31.25nm           5.9mb
      Z 22s     15.93um           6.5Msz
```

28d 20h

e 45 12.00
ANMO 103.62 56 ePdiff40 58.08 1.2X
1.5s 55.56nm 6.1mb
Z 20s 10.64um 6.4Msz
ec 41 00.07
ePP 45 10.83
eHPP 45 12.32
eSDIF 53 05.51
GOL 104.21 51 ePdiff41 01.10 1.6
1.0s 10.00nm 5.6mb
Z 20s 17.50um 6.6Msz
PP 45 10.00
GLD 104.32 51 Pdiff 41 10.00 10.1X
Z 20s 20.00um 6.7Msz
GLD 104.32 51 ePdiff41 02.20 2.3
1.0s 30.00nm 6.1mb
Z 20s 20.00um 6.7Msz
PP 45 21.20
RSSD 104.79 46 Pdiff 41 01.00 -1.0
1.2s 56.49nm 6.4mb
Z 20s 22.03um 6.7Msz
TAB 105.08 308 ePKP 45 19.00 1.0
KEV 106.72 342 ePKP 45 12.00 -7.9X
Z 24s 12.60um 6.4MszX
e 45 18.00
e 47 50.00
e 54 52.00
e 01 06.00
LR 31 18.00
SOD 108.05 340 ePKP 45 16.00 -6.5X
OBN 108.55 326 ePdiff41 16.00 -2.1
Z 21s 32.00um 6.9Msz
eSKS 51 58.00
OBN 108.55 326 ePKP 45 23.50 -0.3
Z 21s 32.00um 6.9Msz
N 22s 12.00um
E 21s 25.00um
e 45 39.00
iPP 45 48.00
ePPP 47 55.00
eSKS 51 58.00
eSKKS 53 01.00
iPS 55 14.00
iPPS 56 20.00
iSS 01 18.00
iSSS 06 10.00
LR 23 00.00
DAG 108.87 358 ePKP+ 45 21.00 -2.8X
Z 23s 18.18um 6.6MszX
N 23s 12.12um
MEO 110.08 55 e(PKP)45 26.20 -1.2
KAF 110.78 336 ePKP 45 28.40 0.6
0.4s 3.00nm
TUL 112.18 54 Pdiff 41 31.00 -3.7X
NUR 112.27 334 ePKP 45 29.00 -1.6
0.8s 17 60nm
Z 16s 15.80um 6.7MszX
i 45 35.00
e 46 20.00
e 48 40.00
e 55 52.00
e 02 16.00
LR 33 24.00
SIM 112.95 317 ePdiff41 40.00 2.1
NAI 113.88 266 iPdiff41 46.00 3.0X
PP 46 30.00
PS 56 00.00
SS 02 20.00
LO 15 20.00
KAS 114.11 313 ePKP 45 34.00 -1.0
BHL 114.18 304 PKP 45 35 00 -0 4
SKS 56 04.00
HRI 114.21 304 ePKP 45 34.40 -1.1
AYN 114.62 299 ePKP 45 35.30 -0.9
GDH 114.63 9 ePdiff41 50.00 5.2X
e 46 30.00
i 56 21.00
DSI 114.78 302 ePKP 45 36.30 -0 1
BBTK 115.23 311 iPdiff41 53.00 4.7X
BBTK 115.23 311 ePKP 45 39.00 1.8
CCM 115.34 51 ePdiff41 49.40 0.7X
epPd 41 58.51
CCM 115 34 51 ePKP 45 28.67 -8.6X
eHPP 46 32.67
eSDIF 54 37.43
MBH 115.47 300 ePKP 45 37.00 -0.9
FRB 115.57 18 ePKP 45 36.00 -0.9

CSS 115.87 306 ePKP 45 37.80 -0.7
FVM 115.99 51 ePKP 45 38.90 0.3
PP 46 41.30
MTD 116.02 248 iPKPc 45 37.20 -2.1
i 56 15.40
SLR 116.17 238 iPKPc 45 27.50 -12.0X
0.9s 42.02nm
Z 18s 9.62um 6.5Msz
i 56 08.50
BLF 116.60 234 ePKP 45 40.00 -0.2
PPCY 116.68 306 ePKP 45 37.50 -2.4X
HFS 116.93 338 ePKP 45 38.00 -1.6
0.5s 6.70nm
Z 18s 21.22um 6.8Msz
LR 29 47.00
FRS 117.03 233 iPKPc 45 41.60 0.9
0.8s 22.39nm
NB2 117.22 339 PKP 45 38.50 -1 7
0.6s 2.70nm
HRT 117.24 313 ePKP 45 39.00 -1.9
PSN 117.39 317 ePKP 45 41.00 0.0
BCK 117.47 309 ePKP 45 40.00 -1.5
VRI 117.59 319 ePKPc 45 49.00 7.7X
ISK 117.61 314 ePKP 45 42.00 0.5
ITU 117.63 314 ePKP 45 41.00 -0.5
BUL 117.76 244 iPKPc 45 40.10 -2.5X
0.9s 21.01nm
KRI 117.82 248 iPKPc 45 45.40 2.6X
i 56 11.30
KHL 118.05 310 ePKP 45 41.00 -1.6
ELL 118.17 309 iPKP 45 43.50 0.6
MLR 118.24 319 ePKPc 45 36.00 -6.8X
HLW 118.49 301 ePKP 45 44.50 1.0
BUC1 118.61 318 ePKPc 45 24.00 -19.3X
KONO 118.77 339 ePdiff41 49.85 -13.6X
ec 41 52.50
KONO 118.77 339 ePKP 45 43.30 0.2
ePP 46 56.68
eHPP 46 57.79
JMB 118.90 316 ePKP 45 45.00 1.1
UZH 119.18 324 iPdiff42 02.00 -3.5X
eSKS 54 10.00
PVL 119.49 317 iPKP 45 45.00 0.0
DIM 119.78 316 iPKP 45 45.00 -0.6
ALN 119.82 314 ePKPd 45 44.24 -1.5
KRA 119.86 326 ePKP 45 41.30 -4.2X
e 45 47.20
e 47 08.00
i 57 10.00
CER 119.90 226 ePKP 45 46.50 0.3
0.6s 17.86nm
EZN 119.98 313 ePKP 45 45.20 -0.8
KDZ 120.00 315 iPKP 45 45.00 -1.1
DEV 120.03 321 ePKPc 45 47.50 1.5
RDO 120.10 315 ePKP 45 45.00 -1.2
SPC 120.11 325 ePKP 45 46.80 0.5
e 47 16.10
PRK 120.20 312 ePKP 45 45.50 -1.0
PLD 120.34 316 ePKP 45 45.00 -1.7
RZN 120.48 315 iPKP 45 46.00 -1.2
PGB 120.54 317 ePKP 45 46.00 -1.1
BZS 120.96 321 ePKP 45 46.00 -1.7
TIM 121.15 321 iPKPc 45 52.00 3.9X
MMB 121.21 316 iPKP 45 46.00 -2.4X
KSP 121.42 328 ePKP 45 48.40 -0.1
ic 45 50.00
CLE 121.44 44 iPKP 45 51.00 2.2
SRS 121.48 315 ePKPd 45 47.56 -1.3
KKB 121.54 316 iPKP 45 46.00 -3.0X
BUD 121.66 324 ePKP 45 49.00 0.0
SOH 121.75 315 ePKPc 45 47.28 -2.2
PAIG 121.85 314 ePKPc 45 47.12 -2.5X
SRO 121.91 324 iPKP 45 48.40 -1.1
NPS 121.93 308 ePKP 45 50.00 0.1
KNT 121.94 316 ePKPc 45 47.92 -1.9
BEO 122.04 320 ePKP 45 48.00 -1.8
GRG 122.37 315 ePKPc 45 50.12 -0.5
ZST 122.41 325 iPKP 45 50.20 -0.2
i 46 05.00
e 47 30.40
e 49 24.30
SCH 122.51 25 ePKP 45 50.00 -0.4
ATH 122.51 312 ePKP 45 51.00 0 1
BRG 122.61 329 ePKP 45 50.60 -0.1
Z 20s 10.00um 6.5Msz
N 20s 8.00um
E 20s 6.50um

i 45 52.40
i 46 24.00
eSKP 49 27.00
SKO 122.63 317 iPKPc 45 49.90 -1.1
1.1s 186.00nm
Z 22s 11.29um 6.5Msz
N 21s 8.34um
E 21s 10.95um
i 45 52.00
i 46 02.00
i 47 31.00
iPP 50 02.00
i 54 10.00
iSKKS 56 58.00
iS 57 21.50
iPS 58 55.00
i 59 53.00
iSS 04 44.00
LR 41 05.00
LIT 122.64 315 ePKPd 45 49.80 -1.3
VKA 122.82 326 ePKP 45 51.00 -0.2
3.0s 604.00nm
Z 24s 8.10um 6.3MszX
i 45 52.80
i 47 35.10
LR 37 47.00
PRU 122.82 328 PKP 45 52.60 1.5
Z 22s 25.80um 6.8Msz
N 22s 10.80um
E 23s 19.80um
e 47 31.70
e 56 10.00
CLL 122.83 330 iPKP 45 50.70 -0.4
1.3s 53.00nm
Z 23s 17.50um 6.6MszX
eSKP 49 25.00
KZN 123.07 315 ePKP 45 51.00 -1.0
FNA 123.15 316 ePKPd 45 52.04 -0.1
AGG 123.16 313 ePKPd 45 51.00 -1.2
OHR 123.42 316 ePKP 45 48.90 -3 8X
1.2s 273.00nm
i 45 52.00
BLA 123.81 49 ePKP 45 52.50 -1.1
e 45 56.10
KHC 123.83 328 iPKPd 45 53.00 -0.3
1.0s 21.00nm
Z 22s 24.00um 6.8Msz
N 22s 10.70um
E 20s 14.00um
e 46 10.00
e 48 18.00
MOX 123.93 330 ePdiff42 35.00 8.3X
MOX 123.93 330 ePKP 45 53.50 0.2
Z 24s 26.00um 6.8MszX
N 23s 23.00um
E 23s 7.80um
iPS 57 34.00
KMR 124.15 326 iPKP+ 45 55.70 1.8
iPP 47 43.00
WET 124.20 328 iPKPd 45 54.00 0 1
Z 20s 18.00um 6.7Msz
PTJ 124.29 323 ePKP 45 54.10 -0.2
ZAG 124.31 323 iPKP 45 54.00 -0 2
IGT 124.39 315 ePKPc 45 53.64 -0 9
KEK 124.69 315 ePKP 45 54.30 -0.8
GRF 124.72 329 ePKPc 45 54.40 -0 5
2.0s 156.00nm
Z 22s 20.00um 6.7Msz
VLS 124.74 313 ePKP 45 55.50 0.2
VBY 124.91 323 iPKPd 45 55.30 -0.1
LJU 125.05 324 ePKP 45 55.50 -0.1
HVAR 125.37 320 iPKP 45 54.80 -1.5
VOY 125.43 324 iPKP 45 56.70 0 2
i 45 57.30
RIY 125.52 323 ePKP 45 57.10 0 6
FUR 125.63 328 iPKPc 45 58.30 1.5
Z 22s 26.00um 6.9Msz
TRI 125.68 324 ePKP 45 58.00 1 1
i 59 12.00
eLR 31 30.00
LCI 125.71 316 PKP 45 58.20 1.1
FVI 125.75 325 PKP 45 57.30 0.4
BNS 125.84 333 ePKP 45 57.80 0.8
Z 20s 31.00um 7.0Msz
BRT 125.97 317 PKP 45 57.50 -0.1
WTTA 125.99 327 iPKPc 45 56.60 -1.1
1.3s 164.00nm

		i	45	59.20	
		i	46	07.30	
		i	46	26.80	
		e	49	11.00	
		i	49	28.60	
VVI	126.30	325	PKP	45 59.40	1.3
EKA	126.45	342	PKP	45 59.00	0.9
	1.4s	56.10nm			
ENN	126.55	333	ePKP	46 00.00	1.6
	1.0s	30.00nm			
TBR	126.56	42	ePKP	45 57.50	-1.2
BNH	126.65	37	ePKP	45 57.50	-1.3
CTI	126.70	326	PKP	46 00.00	1.0
GMTN	126.71	42	PKP	45 59.30	0.3
PNJ	126.71	42	iPKPd	45 57.00	-2.0
WIN	126.79	236	ePKP	45 43.00	-17.0X
	1.0s	25.00nm			
	Z 20s	24.11um		6.9Msz	
GWF	126.98	330	PKP	45 58.64	-0.7
ROI	127.00	316	PKP	45 59.20	-0.5
CSI	127.10	317	PKP	45 59.60	-0.2
TDS	127.12	316	PKP	45 59.70	-0.1
WLF	127.22	332	iPKPc	45 59.95	0.3
MMN	127.25	317	PKP	46 01.50	1.5
ARV	127.39	322	PKP	46 00.00	-0.3
SGO	127.39	318	PKP	46 00.30	0.0
DUI	127.40	320	PKP	46 01.10	0.7
MGR	127.43	317	PKP	45 50.10	-10.3X
GRI	127.44	315	PKP	46 00.56	0.0
CZI	127.46	316	PKP	45 59.90	-0.6
FEL	127.51	329	PKP	45 59.35	-1.2
CDF	127.53	330	PKP	45 59.18	-1.3
AOU	127.72	321	PKP	46 02.40	1.4
ECH	127.72	330	PKP	45 59.63	-1.1
ASS	127.79	322	PKP	46 01.20	0.1
SFI	127.81	323	PKP	45 49.70	-11.3X
AZI	127.89	320	PKP	46 01.00	-0.2
CRE	127.92	323	PKP	46 02.00	0.6
MOF	127.98	330	PKP	46 00.09	-1.3
SOI	128.03	315	PKP	46 01.90	0.3
GMB	128.13	315	PKP	46 01.64	-0.4
MNS	128.15	321	PKP	46 00.70	-1.1
BSF	128.16	330	iPKPc	46 02.00	0.3
	1.3s	115.55nm			
HAU	128.26	330	iPKPc	46 02.20	0.4
	1.0s	64.00nm			
	Z 21s	32.50um		7.0Msz	
VITF	128.30	331	PKP	46 00.37	-1.5
ATN	128.41	315	PKP	46 02.60	0.2
RDP	128.47	320	PKP	46 03.40	1.0
BDI	128.47	324	PKP	46 02.00	-0.4
NNA	129.28	111	ePKP	46 06.00	1.3
	1.2s	60.94nm			
	Z 20s	4.79um		6.2Msz	
DCN	129.39	343	ePKP	46 03.70	0 0
	1.3s	123.00nm			
LOR	129.99	331	iPKPc	46 05.80	0.7
	1.0s	36.00nm			
	Z 21s	30.00um		7.0Msz	
BNI	130.06	327	PKP	46 06.70	1.2
LBF	130.13	331	ePKP	46 06 00	0.6
SSF	130.30	331	iPKPc	46 06.40	0.7
	1.5s	161 90nm			
PGF	130.30	323	iPKPc	46 06.30	0.3
	1.2s	139 85nm			
GRC	130.34	332	PKP	46 07.50	1 8
SBF	130.40	326	iPKPc	46 06.40	0 3
	1.4s	130.70nm			
SMF	130.43	331	iPKPc	46 06 50	0.6
	1.4s	89.30nm			
AVF	130.57	331	ePKP	46 06.60	0.4
	1.3s	36 10nm			
LDF	130.80	335	iPKPc	46 06.90	0.4
FLN	130.82	335	iPKPc	46 07.20	0.6
	Z 18s	21.75um		6.9Msz	
BGF	130.98	331	iPKPc	46 07.70	0.7
	1.0s	61 00nm			
PLDF	131.02	330	PKP	46 08.93	1 8
CUMC	131.04	94	ePKP	46 08.96	0.2
FRF	131.04	326	ePKP	46 07.90	0.7
	1.7s	205.85nm			
LPA	131.19	148	ePKP-	46 10 00	2.3
	Z 20s	7.09um		6.4Msz	
LMR	131.26	326	iPKPc	46 08.30	0 7
	1.5s	172.35nm			
LRG	131.27	326	iPKPc	46 08.50	0.9
	1.5s	255 95nm			
	Z 21s	20.00um		6.8Msz	
GRR	131.27	335	iPKPc	46 08.40	1.0
	1.2s	89.25nm			
MAF	131.36	331	ePKP	46 08.70	1.0
TCF	131.48	331	ePKP	46 08.80	0.8
LPF	131.62	335	iPKPc	46 08.90	0.8
	1.4s	191.70nm			
LBL	131.72	330	PKP	46 11.25	2.7X
LSF	131.83	332	iPKPc	46 09.40	0.8
ANCC	132.29	91	ePKP	46 08.00	-2.5X
MFF	132.34	333	iPKPc	46 10.50	1.0
	1 1s	41.50nm			
HOOC	132.52	91	ePKP	46 10.28	-0.9
RJF	132.53	331	iPKPc	46 10.80	0.8
	Z 20s	12.50um		6.6Msz	
CAF	132.53	330	iPKPc	46 11.50	1.5
	1.6s	111.95nm			
ARE	132.54	118	ePKP	46 09.00	-2.2
CLMC	132.62	90	ePKP	46 11.23	-0.1
PURC	132.68	92	ePKP	46 11.65	-0.2
BUGC	132.92	90	ePKP	46 10.88	-0.9
LPO	133.14	331	ePKP	46 12.00	0.9
	1.2s	89.25nm			
LFF	133.17	331	ePKP	46 12.10	0.9
	1.2s	65.45nm			
EPF	134.76	330	ePKP	46 15.40	1.1
CNCB	135.42	121	PKP	46 02.00	-15.0X
LPB	135.44	121	PKP	46 02.00	-14.8X
	Z 18s	5.50um		6.3Msz	
		i	46	18.00	
		LR	31	08.00	
ZOBO	135.54	120	PKP	46 04.60	-12.6X
	1.0s	35.00nm			
		i	46	17.20	
ZOBO	135.54	120	ePKPc	46 17.27	0.1
		ec	46	19.25	
		eHPP	48	54.68	
		ePP	48	54.96	
EGRA	135.70	329	ePKP	46 16.00	0.0
EBR	136.26	327	ePKP	46 12.00	-5.1X
		ePP	49	00.00	
ETOR	137.60	329	ePKP	46 20.00	0.1
ECHE	137.92	327	ePKP	46 25.00	4.6X
SDV	138.65	83	ePKP	46 14.50	-8.2X
GUD	138.77	331	ePKP	46 22.80	0.7
TOL	139.30	330	iPKP+	46 09.00	-13.9X
ECOG	141.00	327	ePKP	46 22.00	-4.2X
EGUA	141.32	326	ePKP	46 21.50	-5.1X
EPRU	142.12	328	ePKP	46 25.80	-2.3
OLLA	142.38	81	ePKP	46 22.80	-6.4X
EVAL	142.41	330	ePKP	46 30.50	2.0
EJIF	142.63	328	ePKP	46 31.00	2.1
GUAN	143.52	81	ePKP	46 27.10	-4.1X
PPD	144.76	142	ePKP	46 30.90	-2.0
		e	46	33.10	
		e	46	46.50	
BPA	146.02	68	ePKP	46 34.00	-1.2
VAO	146.42	149	ePKP	46 36.80	1.0
		i	46	39.70	
		e	46	46.00	
		i	46	59.70	
PAG	146.44	70	ePKP	46 35.00	-0.9
BBL	146.74	71	ePKP	46 37.00	0.6
MGG	146.80	70	ePKP	46 36.00	-0.4
DEG	146.94	69	ePKP	46 36.00	-0.7
FDF	147.23	72	ePKP	46 54.50	17.3X
TCE	147.28	79	ePKP	46 38.60	1.3
BIM	147.35	72	ePKP	46 53.80	16.4X
SVB	147.41	74	ePKP	46 38.11	0.7
CRM	147.44	72	ePKP	46 54.70	17.2X
TPP	147.61	80	ePKP	46 40.86	3.1X
TRN	147.63	79	ePKP	46 40.00	2.2
TBH	147.97	80	ePKP	46 42.27	3.9X
TPR	148.18	78	ePKP	46 41.66	3.0X
RDJ	148.28	155	ePKP	46 37.60	-1.0
BAO	151.60	139	ePKPc	46 25.90	-18.1X
KIC	155.83	273	PKP	46 49.92	0.1
TIC	156.11	273	PKP	46 49.96	-0.2
LIC	156.12	272	PKP	46 50.20	0.0
SOB1	160.97	142	ePKP	46 57.60	1.9
MBO	165.37	307	iPKPc	47 03.30	3.5X

S.D. = 1.1 on 370 of 454 obs

---

* SEP 28, 1991 21h 16m 21 79± 1.43s
6.400 S ±13.1km 151.840 E ±20.3km
DEPTH = 33.0km (normol)
4.9mb (2 obs.)

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

RAB	2.22	9	eP	16 57.00	0.0
			iS	17 24.00	
LAT	4.82	267	eP	17 33.80	-0.1
			eS	18 44.80	
PMG	5.52	237	eP	17 44.00	0.2
OIS	18.41	219	eP	20 36.00	-0.3
WR2	21.67	230	eP	21 04.40	-7.3X
	0.3s	16.80nm			4.9mb
			i	21 09.70	
ASPA	24.34	223	iPd	21 38.10	0.2
	0.8s	31.70nm			4.9mb

S.D. = 0.3 on 5 of 6 obs.

? SEP 28, 1991 21h 52m 09.53± 5.63s
3.016 S ±58.4km 142.547 E ±15.8km
DEPTH = 33.0km (normol)
4.3mb (2 obs.)

NEAR N COAST OF NEW GUINEA, PNG.(200)

MNDI	3.31	160	eP	53 01.00	0.5
			eS	53 30.00	
MDG	3.91	125	eP	53 10.00	1.2
			eS	53 49.70	
LAT	5.72	129	iPc	53 32.80	-1.6
WR2	18.63	205	iPd	56 26.00	-0.7
	0.5s	6.00nm			4.0mb
ASPA	22.17	201	eP	57 05.10	0.6
	0.5s	13.40nm			4.6mb

S.D. = 1.6 on 5 of 5 obs.

SEP 29, 1991 00h 44m 14.63± 1.36s
12.987 N ±19.2km 88.883 W ±17.1km
DEPTH = 72.5 ± 6.4 km
4.6mb (3 obs.)

OFF COAST OF CENTRAL AMERICA (76)
Felt (II) at San Salvador, El Salvador

OZA	0.54	348	iPc	44 27.20	-1.1
SJAS	0.73	338	iPc	44 30.00	-0.4
VSM	0.74	53	iPd	44 31.00	0.4
LFU	0.79	344	iPc	44 31.20	0.2
VSS	0.83	335	iPc	44 31.80	0.3
YPE	1.37	326	iPd	44 39.20	0.7
MEO	23.41	340	iPd	49 18.10	0.1
TUL	23.66	346	e(P)	49 21.30	1.0
SIV	39.82	136	P	51 43.00	0.3
SES	41.46	339	ePc	51 56.60	0.7
FFC	42.89	349	iPd	52 07.60	0.2
	0.5s	8.00nm			4.8mb
YKA	52.73	345	eP	53 22.50	-1.4
	0.7s	5.10nm			4.7mb
MBC	65.30	352	eP	54 49.50	-1.1
	0.7s	3.00nm			4.3mb
GBA	150.31	28	PKPd	03 58.90	4.4X

S.D. = 0.9 on 13 of 14 obs.

---

* SEP 29, 1991 01h 19m 31.21± 2.27s
43.608 N ±14.1km 29.338 E ±32.4km
DEPTH = 10.0km (geophysicist)

BLACK SEA (360)

TLB	1.36	317	iPc	19 54.50	-1.6
DMK	2.13	214	ePn	20 07.40	0.1
ISK	2.55	185	ePn	20 13.50	0.2
CTT	2.55	196	iPn	20 12.50	-0.8
HRT	2.80	175	ePn	20 17.50	0.6
VRI	2.93	321	ePc	20 25.00	6.3X
YLV	3.04	179	ePn	20 20.00	-0.3
MLR	3.07	309	ePc	20 22.50	1.7

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

? SEP 29, 1991 02h 11m 04.18± 2.39s
21.917 S ±22.8km 67.370 W ±17.4km
DEPTH = 33.0km (normol)

CHILE-BOLIVIA BORDER REGION (124)

CNCB	5.11	353	P	12 22.10	1.0
			i	13 10.00	
LPB	5.40	353	iPc	12 25.70	0.8
			i	13 16.00	
ZOBO	5.66	353	iPc	12 28.40	-0.4
			S	13 21.00	
ARE	6 68	324	eP	12 42.00	-0.9
			eS	13 45.00	

29d 02h

SIV	8.38	46	P	13 05.40	-1.0
VAO	18.89	97	(P)	15 25.00	0.4

S.D = 1.1 on 6 of 6 obs.

SEP 29, 1991 02h 37m 12.86± 0.39s
39.113 N ± 4.2km 20.536 E ± 2.9km
DEPTH = 5.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
MD 3.2 (ATH).

IGT	0.45	339	ePc	37 21.50	-0.3
			eS	37 28.30	
KEK	0.83	317	ePn	37 29.00	-0.4
VLS	0.94	177	ePn	37 31.50	0.3
AGG	1.40	93	iPc	37 38.62	-0.5
KZN	1.53	38	ePn	37 40.50	-0.4
FNA	1.79	21	iPc	37 45.45	0.8
			iS	38 11.70	
LIT	1.80	56	iPc	37 45.37	0.5
			eS	38 10.66	
OHR	2.01	6	iPn	37 48.40	0.6
GRG	2.33	37	ePd	37 52.70	0.2
LCI	2.33	302	P	38 14.50	22.0X
KNT	2.73	41	ePd	37 58.30	0.1
SOH	2.76	51	ePc	37 58.30	-0.3
OUR	2.92	64	ePc	38 00.18	-0.7
SKO	2.94	13	ePn	37 58.00	-3.1X
VLI	3.05	141	ePb	38 07.00	4.3X
BRT	3.11	306	P	38 03.60	0.1
ROI	3.11	280	P	38 03.10	-0 4
TDS	3.30	281	P	38 09.40	3.2X
CSI	3.35	283	P	38 06.40	-0.6
CZI	3.42	273	P	38 08.60	0.6
MGR	3.98	286	P	38 15.80	-0 1
SGO	4.28	291	P	38 20.30	0.3

S.D. = 0.5 on 18 of 22 obs.

? SEP 29, 1991 03h 15m 20.61± 5.83s
45.096 N ±28.6km 2.873 E ±41.9km
DEPTH = 5.0km (geophysicist)
FRANCE (538)
ML 2.1 (LDG).

CAF	0.60	254	Pg	15 32.00	-0.6
			Sg	15 41.30	
RJF	0.98	283	Pg	15 40.00	0.3
			Sg	15 53.60	
MAF	1.15	349	Pg	15 42.40	-0.1
			Sg	15 57.60	
LPO	1.27	252	Pg	15 45.00	0.4
			Sg	16 02.60	

S.D. = 0.8 on 4 of 4 obs.

SEP 29, 1991 03h 45m 30.92± 0.98s
39.311 N ± 8.7km 21.835 E ± 7.6km
DEPTH = 10.0km (geophysicist)
GREECE (364)

AGG	0.48	127	ePc	45 40.78	0.1
			eS	45 50.82	
LIT	0.94	32	ePc	45 48.46	-0.3
LIT	0.94	32	iPd	45 48.94	0.1
			eS	46 03.74	
IGT	1.18	281	iPd	45 52.70	-0.3
			eS	46 10 46	
FNA	1.51	347	ePc	45 57.18	-0.9
			eS	46 18.46	
OHR	1.97	337	ePn	46 06.00	1.3

S.D. = 1.0 on 6 of 6 obs

% SEP 29, 1991 03h 49m 43.40± 1 93s
44.692 N ± 8 7km 6.761 E ±21 8km
DEPTH = 32.4 ± 8.1 km
FRANCE (538)
ML 2 0 (GEN)

RRL	0.23	4	P	49 50.55	0.0
			S	49 54.23	
PZZ	0 31	127	P	49 51.13	-0.2
			S	49 55.05	
BHB	0 39	67	P	49 52.39	0.0
			S	49 57.31	
RSP	0.58	37	P	49 55.26	-0 1
			S	50 03.36	
STV	0.60	138	P	49 55.36	-0 3
			S	50 03.63	
ENR	0.66	134	P	49 56.96	0.5
			S	50 06.13	

S.D. = 0 4 on 6 of 6 obs.

SEP 29, 1991 03h 55m 05.50± 0.17s
8.200 S ± 3.3km 74.342 W ± 4.0km
DEPTH = 165.5km (9 depth phases)
5.0mb (39 obs.)
PERU-BRAZIL BORDER REGION (112)

NNA	4.50	213	iPc	56 12.60	-0.8
	0.7s	232.88nm			
			eS	56 45.50	
ANGL	8.39	337	P	57 11.70	6.3X
OUIL	8.69	328	eP	57 09.00	-0.5
OUR	9.00	332	P+	57 12.50	-1.1
YANA	9.07	332	P+	57 13.30	-1 2
			S	58 36.00	
ZOBO	10.06	143	iPd	57 27.20	-0.4
Z	21s	0.76um			
			LR	59 24.00	
LPB	10.28	144	P	57 30.00	-0.4
	1.0s	140.00nm		5.5mb	
CNCB	10.57	145	P	57 33.00	-1.3
PURC	10.64	349	iPc	57 34.58	-0.7
HOOC	11.81	349	eP	57 49.73	-0.5
ANCC	11.91	348	ePc	57 51.05	-0.2
BUGC	12.16	351	ePd	57 55.88	1.2
HO8C	12.60	352	eP	58 00.97	0.7
BOG	12.74	1	eP	58 06.00	3.7X
			eS	00 40.00	
FUO	13.59	3	eP	58 31.50	18.4X
SIV	15.10	122	P	58 31.60	-0.2
SDV	17.37	12	eP	58 59.00	-0.7
UPA	17.83	343	ePd	59 04.50	-0.2
CEOS	18.13	19	eP	59 06.30	-1.7
TOV	18.43	14	eP	59 10.40	-0.8
GUAN	20.01	26	eP	59 28.60	1.1
ITB1	25.11	133	Pc	00 16.50	-0.2
ITB	25.33	133	Pc	00 18.50	-0.3
ITB7	25.56	134	e(P)	00 21.00	0.2
PPD	26.09	124	eP	00 25.20	-0.5
			e	00 27.50	8kmX
BAO	26.80	108	ePc	00 30.50	-1.9
			e	01 04.50	165km
SOB1	33.07	94	eP	01 26.80	-0.9
			e	02 03.00	171km
BLA	45.53	353	ePd	03 10.70	0.5
	0.7s	11.11nm		4.5mb	
NAV	45.68	353	P	03 08.50	-2.9X
CVL	46.10	355	P	03 15.30	0.7
TUL	48.30	337	iPc	03 31.60	-0.3
	0.8s	22.40nm		4.9mb	
			e	04 09.90	171km
SIO	48.36	336	eP	03 32.10	-0.3
			e	04 08.80	163km
MEO	48.51	333	iPd	03 33.20	-0.3
ACO	50.36	334	iPd	03 48.50	0.8
ALQ	52.55	327	eP	04 03.00	-1.3
	1.0s	28.00nm		5.0mb	
			epP	04 37.00	147kmX
ANMO	52.56	327	eP	04 04.00	-0.3
	1.0s	30.50nm		5.0mb	
			epP	04 38.00	147kmX
GLD	55.61	331	ePd	04 26.50	0.0
	1.4s	59.46nm		5.2mb	
			e	05 04.00	162km
GOL	55.65	331	ePd	04 26.10	-0.7
	0.8s	7 44nm		4.6mb	
			e	05 02.60	157km
GLA	56.26	319	eP	04 31.00	-0.1
BAR	57.25	318	eP	04 38.00	0.0
PLM	57.78	318	eP	04 41.00	-0.9
MSU	58.30	326	eP	04 45.00	-0.5
PEC	58.31	318	ePd	04 45.00	-0.4
RVR	58.51	318	eP	04 47.00	0.3
RSSD	58.60	335	ePd	04 46.90	-0.6
	0.9s	21.38nm		5 0mb	
			e	05 26.80	172km
GSC	58.95	320	eP	04 50.00	0.2
PAS	59.13	318	eP	04 51.00	0.0
DAU	59.15	328	P	04 51.60	0.2
SBB	59.23	319	eP	04 51.00	-0.8
CLC	59.77	320	eP	04 55.00	-0.4
DUG	59.83	327	P	04 55.50	-0.3
BW06	60.03	331	ePd	04 55 70	-1.6
	1.2s	20.55nm		4.9mb	
			e	05 31.00	149kmX
HVU	60.93	32B	P	04 56.60	-6.7X
BCH	61.01	318	P	04 58.90	-5.1X
BONR	61.54	321	P	05 08.20	0.5
			pP	05 43.40	148kmX
HPI	62.47	329	P	05 13.90	0.2
SCH	63.10	5	eP	05 17.00	-0.3
ARN	63.22	319	P	05 18.70	0.2
LRM	63.68	331	eP	05 21.50	-0.1
ORV	64.50	321	ePd	05 26.80	0.1
			epP	05 52.30	102kmX
			e	06 01.80	
SES	66.48	335	ePd	05 39.00	-0.2
FHC	66.77	321	P	05 42.20	1.0
NEW	67.66	331	ePd	05 45.80	-0.8
DPW	67.93	330	P	05 49.20	0.9
LON	69 07	327	P	05 54.80	-0.5
			pP	06 29.70	143kmX
RMW	69.51	328	P	05 48.40	-9.6X
BMW	69.67	326	P	05 59.40	0.4
GMW	70.08	327	P	06 01.50	0.0
LIC	70.59	80	P	06 03.66	-1.4
TIC	70.67	80	P	06 04.52	-1.1
KIC	70.89	80	Pd	06 05.72	-1.2
	0.8s	61.00nm		5.5mb	
TIO	75.00	55	iPc	06 31.50	0.7
AVE	75.67	53	iP	06 35.00	0.6
YKA	76.98	342	eP	06 49.60	8.6X
	0.6s	2.30nm		4.1mb	
IFR	77.55	53	iPd	06 35.50	-9.5X
NVL	81.05	160	Pd	07 04.00	1.2
			e	07 46.00	170km
			e	08 09.00	
SPA	81.85	180	eP	07 08.00	0.7
	0.9s	17.27nm		4.8mb	
EPF	84.52	45	eP	07 22.20	1.0
	1.1s	41.50nm		5.1mb	
LPF	85.07	40	iPc	07 23.80	0.1
	0.7s	15.45nm		4.9mb	
MFF	85.22	42	iPc	07 25.00	0.5
	0.6s	14.45nm		5.0mb	
GRR	85.30	40	iPc	07 25.10	0.3
	0.8s	25.50nm		5.1mb	
LFF	85.34	44	eP	07 25.70	0.6
	0.9s	65.50nm		5.4mb	
LPO	85.57	44	iPc	07 27.10	0.8
	0.9s	40.95nm		5.2mb	
FLN	85.65	40	iPc	07 27.00	0.5
	0.7s	17.65nm		5.0mb	
LDF	85.83	40	iPc	07 27.70	0.3
	0.9s	21.30nm		5.0mb	
RJF	85.97	43	eP	07 28.60	0.4
	0.9s	26.20nm		5.1mb	
CAF	86.24	44	eP	07 29.60	0.0
	0.8s	13.45nm		4.8mb	
INK	86.73	341	eP	07 32.00	0 6
MAF	86.92	43	eP	07 32.80	0 0
	0.7s	9.35nm		4.8mb	
BGF	87.19	42	iPc	07 34.10	0.0
	0.7s	14.35nm		5.0mb	
AVF	87.59	42	eP	07 35.80	-0.2
	0.8s	8.75nm		4.7mb	
SSF	87.76	42	eP	07 36.40	-0.4
	0.7s	6.05nm		4.7mb	
SMF	87.88	42	iPc	07 37.30	-0.1
	0.3s	17.45nm		5.5mb	
LOR	88.05	42	eP	07 37.90	-0.3
	0.3s	9.40nm		5.2mb	
MBC	88.29	350	ePc	07 41.60	2.8X
	1.0s	13.00nm		4.9mb	
LRG	88.89	46	eP	07 42.40	0.2
	1.3s	101.10nm		5.7mb	
Z	21s	0.10um		4.2Msz	
LMR	88.97	46	eP	07 42.90	0.3
	1.1s	31.70nm		5.2mb	
FRF	89.12	46	eP	07 43.50	0.2
	1.2s	74.40nm		5.6mb	
SBF	89.74	46	iPc	07 46.30	0.0
	0.9s	34.15nm		5.3mb	
HAU	89.85	42	eP	07 46.40	-0.3
WLF	90.08	40	P	07 49.00	1.4
BSF	90.11	42	eP	07 47.80	-0.2
ENN	90.18	39	iPd	07 49.00	0.9
	0.9s	23.00nm		5.2mb	
FBA	90 45	336	ePd	07 49.70	0.6
	1.0s	18.00nm		5.1mb	
			epP	08 29.80	158km
DAG	90.51	11	eP	07 50.00	0.9

```
        0.8s      7 46nm            4.8mb
CDF     90.54   41 iPc    07 49.80  -0.2
        0 7s      7.70nm            4.9mb
NB2     94.96   29 P       08 10.60   0.7
        0.9s      5.80nm            4.9mb
HFS     96.07   30 eP      08 14.80  -0.1
        0 5s      1.00nm            4.5mb
KSP     96.69   40 eP      08 19.00   1.0
ZST     97.01   42 eP      08 20.30   0.9
                   i       37 45.80
                   i       38 00.90
CTAO   131.16  234 ePKP    14 01.50   1.4
ASPA   137.99  220 ePKP    14 12.60  -0.5
        0.6s      3.70nm
                   i       14 56.70
MTMJ   139.35  319 iPKPd   14 33.10  17.9X
WR2    140.24  225 ePKP    14 06.10 -11.1X
        0.5s      4.50nm
                   i       14 17.30
WRA    140.26  225 PKP     14 12.00  -5.2X
        0.5s      1.50nm
NDI    146.35   49 iPKPd   14 29.00   1.6
BJI    146.93  345 ePKP    14 29.50   1.5
MTN    147.17  231 ePKP    14 30.00   1.0
POO    147.45   68 ePKP    14 34.50   5.0X
GBA    151.79   77 PKPd    14 37.50   1.4
GKN    152.03   43 PKP     14 43.88   7.5X
HYB    152.06   68 ePKP    14 44.00   7.5X
KOD    152.10  B4 ePKP     14 45.50   8.5X
LZH    152.19    3 ePKP    14 50.00  13.6X
        2.0s     35.00nm
DMN    152.61   43 PKP     14 45.24   7.9X
PKI    152.83   42 PKP     14 45.16   7.4X
GUN    152.92   41 PKP     14 46.64   8.7X
     S.D. = 0.8  on 106 of 127 obs.
-----------------------------------------
   SEP 29, 1991  04h 13m 58.58s± 0.62s
   35.704 N ± 5.0km  140 130 E ± 5 3km
   DEPTH =  75.7 ±  4 6 km
   5.1mb ( 29 obs.)
 NEAR EAST COAST OF HONSHU, JAPAN(228)

KAKJ    0.50    4 iP+     14 11.50  -0.6
                  S       14 20.10
CHJJ    0.98  291 iPd     14 17.80   0.4
                  eS      14 30.10
MAT     1.77  299 iPd     14 28.50   0.8
                  eS      14 50.00
NIIJ    1.78  330 iPd     14 28.10   0.2
                  S       14 50.50
IIDJ    1.82  264 iPd     14 30.00   1.5
                  S       14 51.10
YAMJ    2.47  358 eP      14 38.70   1.4
TSRJ    3.38  268 P       14 50.90   0.8
OFUJ    3.59   20 eP      14 52.30  -0.6
WKYJ    4.01  250 P       14 59.20   0.3
TKSJ    5.29  253 P       15 17.20   0.4
YONJ    5.47  267 P       15 19.20  -0.1
MRRJ    6.75    6 eP      15 34.80  -2.2
                  eS      16 49.60
HOOJ    7.11   19 eP      15 38.90  -3.0
                  eS      16 54.00
SHNJ    7.58  261 P       15 48.80   0.4
SHNJ    7.58  261 eP      15 49.90   1.5
KUSJ    8.19   24 eP      15 52.20  -4.6X
                  eS      17 18.70
ASAJ    8.62   12 eP      15 59.40  -3.4X
KAGJ    8.94  242 P       16 09.00   1.8
MDJ    12.00  321 eP      16 49.00   0.6
CN2    13.88  310 eP      17 13.80   0.8
                  epP     17 29.00
SNY    14 28  300 eP      17 18.00  -0.3
       1 0s      40.00nm           4.7mb
     Z 18s       0 70um            5.0Msz
SSE    16 47  259 eP      17 43.50  -2.7
TIA    18 63  278 eP      18 11.20  -1.5
BJI    19 38  290 eP      18 19.00  -2.0
       1 0s      13.00nm           4.2mb
WHN    22 17  264 P       18 50.00   0.7
       0.6s      50.00nm           5.1mb
TIY    22.27  283 eP      18 51.00   0.6
     Z 18s       0.70um            4.1Msz
     N 14s       0.30um
HHC    22.95  292 eP      18 56.00  -1 1
XAN    25.61  275 eP      19 21.30  -1.2
YAK    27.14  349 eP      19 36.40   0.3
LZH    29.29  282 eP      19 53.50  -2.5

        1.5s     28.00nm           4.7mb
GYA    29.99  262 P       20 01.00  -1 2
        1.0s     10.00nm           4.5mb
CD2    30.66  272 P       20 07.60  -0.4
        0.6s     20.00nm           5.0mb
GTA    31.99  289 P       20 19.00  -0.7
        0.6s     10.00nm           4.8mb
CHG    39.96  256 eP      21 46.50  19.2X
CHTO   39.96  256 eP      21 26.40  -0.9
        0.8s      2.20nm           4.1mb
WMO    40.53  298 P       21 32.50   0.7
GUN    46.26  276 P       22 18.68   0.1
PKI    46.78  276 P       22 22.28  -0.4
        0.7s     30.00nm           5.3mb
KKN    46.80  276 P       22 22.54  -0.1
        0.6s     33.00nm           5.4mb
DMN    47.01  276 P       22 24.24  -0.2
GKN    47.23  277 P       22 25.92  -0.1
        0.6s     46.00nm           5.6mb
MTN    49.03  192 eP      22 39.00  -0.7
NDI    52.91  281 eP      23 08.50  -0.6
GAR    54.34  296 eP      23 19.10  -0.5
WRA    55.61  187 P       23 28.00  -0.8
        0.4s     19.50nm           5.5mb
WR2    55.62  187 eP      23 28.10  -0.7
        0.3s     31.90nm           5.8mb
QIS    55.95  181 eP      23 30.60  -0.6
INK    56.04   27 eP      23 32.00   0.6
HYB    57.13  269 ePc     23 39.00  -0.9
        1.0s     50.00nm           5.6mb
MBC    58.09   16 eP      23 46.00   0.2
        0.9s      5.00nm           4.6mb
ASPA   59.34  187 eP      23 54.60  -0.4
        0.5s     13.80nm           5.3mb
MBL    59.73  202 eP      23 57.00  -0.7
GBA    60.08  265 Pc      23 59.90  -0.3
        0.7s     36.40nm           5.6mb
POO    60.38  272 eP      24 03.00   0 6
KOD    61.94  262 eP      24 13.10  -0.1
WARB   62.86  194 iPd     24 19.40   0.7
        0.5s     21.00nm           5.4mb
KEV    64.32  339 eP      24 20.00  -7.8X
SOD    65.79  337 iP      24 37.00  -0.2
FORR   67.16  191 eP      24 46.00  -0.3
        0.5s     42.00nm           5.6mb
STK    67.24  179 eP      24 49.70   2.9X
        0.6s      1.30nm           4.0mb
KAF    69.01  333 iP      24 57.10  -0.4
        0.6s     16.10nm           5.1mb
NUR    70.63  332 iP      25 07.10  -0.3
        0.5s     20.50nm           5.3mb
HFS    74.87  335 eP      25 31.80  -0.5
        0.7s      6.50nm           4.7mb
NB2    75.01  337 P       25 33.00  -0.2
        0.7s      0.60nm           3.6mb X
FFC    75.38   32 iPc     25 36.10   0.8
        0.6s      6.00nm           4.7mb
LRM    75.82   43 eP      25 39.90   1.5
KRA    79.61  325 iPd     25 59.60   0.9
        0.6s     25.00nm           5.3mb
KSP    80.68  328 iP      26 05.30   0.9
BRG    81.66  329 iP      26 10.10   0.6
                  iSg     39 11.80
CLL    81.72  330 iPc     26 10.30   0.5
        0.9s     17.00nm           5.0mb
                  iSg     39 35.50
PRU    82.07  328 eP      26 12.70   1.0
KHC    83.13  328 P       26 18.20   1.0
        1.0s      5.40nm           4.4mb
MKT    83.31  303 iPc     26 19.70   1.2
PRNI   83.78  303 iPc     26 22.00   1.1
MBH    84.21  303 iPc     26 23.90   0.8
SKO    84.51  319 iPc     26 25.80   1.5
        0.9s     38.00nm           5.4mb
OHR    85.45  319 eP      26 29.20   0.1
ALO    86.24   49 eP      26 35.00   1.7
        1.1s      5.06nm           4.5mb
                   e      26 54.00
KIC   126.70  314 PKP     32 55.60   0.2
LIC   126.98  315 PKP     32 56.90   1.0
ZOBO  148.25   60 PKP     33 40.00   4 9X
LPB   148.45   60 PKP     33 39.00   3.8X
CNCB  148.71   60 PKP     33 42.30   6.5X
SIV   152.73   49 PKP     33 50.60   9.5X
     S.D. = 1.0  on  75 of  84 obs
-----------------------------------------
? SEP 29, 1991  04h 37m 23.55± 2.39s

   47.638 N ±22.1km   15.835 E ±19.8km
   DEPTH =  10.0km  (geophysicist)
 AUSTRIA                            (546)
      ML 2.7 (KBA), 2.7 (VKA). Felt
      (IV) at Muerzzuschlag.

VKA     0.71   27 iPgc    37 37.50   0.0
                  iSg     37 48.30
KBA     1.78  253 iPgd    37 54.70  -0.1
                  iSg     38 18.50
KHC     2.12  316 Pg      37 59.50   0.0
                  Sg      38 24.00
PRU     2.50  341 Pg      38 08.00   3.1X
                  Sg      38 38.30
                  e       38 40.50
WTTA    2.87  264 iPgd    38 10.50   0.1
                  i       38 18.90
                  iSg     38 43.90
GRF     3.68  306 ePg     38 32.70  10.9X
                  eSg     39 17.00
     S.D. = 0.1  on  4 of  6 obs.
-----------------------------------------
   SEP 29, 1991  04h 42m 23.95± 0.84s
   35.666 N ± 8.2km  140.234 E ± 8.1km
   DEPTH =  73.3 ±  8.4 km
   4.7mb (  4 obs.)
 NEAR EAST COAST OF HONSHU, JAPAN(228)

KAKJ    0.54  355 iP+     42 37.10  -0.5
                  S       42 45.40
CHJJ    1.08  291 iPd     42 43.60  -0.2
                  S       42 56.90
MAT     1.86  299 iPd     42 54.20  -0.1
                  iS      43 17.70
NIIJ    1.86  328 P       42 53.80  -0.5
                  S       43 16.60
IIDJ    1.90  265 iPd     42 55.70   0.8
                  S       43 17.30
MTMJ    2.17  296 iPd     42 58.80   0.1
YAMJ    2.51  356 P       43 04.60   1.3
TSRJ    3.47  269 eP      43 16.40  -0.2
TSRJ    3.47  269 P       43 16.50  -0.1
OFUJ    3.59   18 P       43 18.10  -0.3
                  S       43 57.90
WKYJ    4.08  251 P       43 25.20   0.0
TKSJ    5.36  254 eP      43 42.10  -1.0
YONJ    5.55  267 eP      43 47.00   1.2
GKN    47.32  277 P       50 51.90  -0.4
WRA    55.59  187 P       51 54.00  -0.2
        0.5s     3.70nm           4.7mb
WR2    55.59  187 eP      51 54.10  -0.1
        0.3s    11.90nm           5.4mb
WARB   62.84  194 eP      52 45.00   0.8
        0.4s     3.00nm           4.7mb
NB2    75.07  337 P       53 58.80  -0.4
        0.7s     1.30nm           4.0mb
     S.D. = 0.7  on  18 of  18 obs.
-----------------------------------------
   SEP 29, 1991  04h 43m 44.55± 0.39s
   47.241 N ± 7.5km  153.257 E ± 6.1km
   DEPTH =  64.9km  (  4 depth phases)
   4.7mb ( 30 obs.)
 KURIL ISLANDS                      (221)

KUSJ    7.32  239 eP      45 29.00  -2.1
                  eS      46 45.70
ASAJ    8.06  251 eP      45 46.80   5.5X
HOOJ    8.59  239 eP      45 48.20  -0.3
                  eS      47 20.80
MDJ    16.66  270 eP      47 38.50   3.5X
CN2    19.74  270 eP      48 11.20  -0.3
YAK    19.94  326 eP      48 14.50   1.1
                  i       48 26.00  51kmX
SNY    21.76  267 eP      48 32.40   0.3
HHC    30.36  273 eP      49 52.30   0.0
IMA    33.35   36 eP      50 18.50   0.3
       0.8s      5.70nm           4.5mb
                  e       50 34.40  65km
BRW    33.48   27 eP      50 19.80   0.8
PMR    35.18   45 e(P)    50 42.30   8.6X
XAN    35.66  265 P       50 37.80  -0.3
FBA    35.72   39 ePd     50 38.90   0.7
LZH    37.97  271 eP      50 58.00   0.3
       2.0s     32.00nm           4.9mb
GTA    38.99  279 eP      51 08.20   2.0
       0.8s     10.00nm           4.8mb
CD2    41.02  265 eP      51 22.80   0.0
```

29d 04h

INK	41.18	33	eP	51 24.00	0.4
			pP	51 40.00	63km
GYA	41.92	257	P	51 31.20	0.9
	1.0s	10.00nm			4.6mb
MBC	44.10	20	eP	51 48.00	0.7
	0.5s	3.00nm			4.3mb
YKA	50.47	37	eP	52 37.30	0.0
	0.7s	4.90nm			4.6mb
CHG	52.33	256	ePd	52 53.00	1.1
	0.9s	11.13nm			4.9mb
GUN	55.06	275	P	53 12.40	0.1
	0.5s	17.00nm			5.4mb
KKN	55.54	275	P	53 15.98	0.4
PKI	55.59	275	P	53 15.70	-0.4
DMN	55.78	275	P	53 17.58	0.2
GKN	55.84	276	P	53 17.78	0.1
SOD	58.83	339	eP	53 37.00	-1.1
FFC	60.30	40	eP	53 48.00	-0.3
	0.7s	8.00nm			5.0mb
LRM	60.82	53	eP	53 53.60	1.3
KAF	63.04	335	eP	54 05.20	-1.3
	0.3s	5.00nm			5.1mb
BW06	64.37	54	e(P)	54 14.90	-1.0
	0.9s	4.24nm			4.4mb
			pP	54 33.20	69km
FRB	64.55	19	eP	54 15.00	-1.4
NUR	64.81	335	iP	54 16.70	-1.4
	0.5s	11.00nm			5.1mb
RSSD	66.43	50	eP	54 28.60	-0.5
	0.9s	11.62nm			4.9mb
UPP	67.29	338	iP	54 32.70	-1.2
NB2	67.80	341	P	54 35.80	-1.4
	0.6s	9.60nm			4.9mb
HFS	68.03	340	eP	54 37.50	-1.1
	0.4s	18.60nm			5.4mb
Z	16s	0.06um			3.9MszX
		LR	24 29.00		
GOL	68.78	54	e(P)	55 01.50	17.7X
WRA	69.01	199	P	54 44.00	-1.0
	0.4s	2.00nm			4.4mb
GBA	70.53	269	P	54 56.00	1.5
	0.6s	1.50nm			4.1mb
ANMO	71.49	58	e(P)	55 08.00	7.7X
			e	55 20.60	43kmX
ALO	71.50	58	e(P)	55 11.00	10.6X
	1.0s	2.50nm			
ASPA	72.71	199	iPc	55 08.00	0.8
	1.3s	9.30nm			4.6mb
KRA	75.03	331	eP	55 19.90	-0.5
KSP	75.51	333	eP	55 22.40	-0.7
CLL	76.06	336	iPd	55 25.80	-0.4
	0.7s	24.00nm			5.2mb
			e	55 43.00	62km
BRG	76.18	335	iP	55 26.30	-0.6
MLR	76.72	325	eP	55 30.00	-0.2
TUL	76.73	51	eP	55 49.00	18.8X
	1.2s	15.30nm			
PRU	76.79	334	eP	55 29.50	-0.8
MOX	77.04	336	iP	55 31.70	-0.1
	1.6s	25.00nm			4.9mb
SRO	77.51	331	iP	55 34.60	0.3
ZST	77.57	332	e(P)	55 35.00	0.3
KHC	77.84	334	P	55 36.70	0.5
GRF	78.01	336	iPd	55 37.80	0.7
	1.4s	53.00nm			5.3mb
BZS	78.25	328	eP	55 36.50	-1.9
WTTA	80.09	335	iPd	55 49.00	0.4
	0.7s	13.60nm			5.0mb
			ic	55 49.30	1kmX
			i	56 06.60	
CDF	80.24	338	eP	55 49.20	-0.1
	1.0s	11.00nm			4.7mb
HAU	80.85	338	eP	55 52.20	-0.3
Z	22s	0.10um			4.1Msz
BSF	80.90	338	eP	55 52.40	-0.4
SKO	81.44	326	iP	55 56.00	0.4
LDF	81.78	343	eP	55 57.70	0.5
GRR	82.13	343	eP	55 59.30	0.3
LOR	82.15	340	eP	55 59.20	0.0
	0.5s	4.35nm			4.7mb
Z	21s	0.10um			4.2Msz
HRI	82.19	311	eP	56 00.60	0.8
LBF	82.39	339	eP	56 00.50	0.0
	0.5s	2.55nm			4.4mb
SSF	82.43	340	eP	56 00.60	-0.1
LPF	82.50	343	eP	56 01.50	0.5
	0.3s	2.15nm			4.6mb

AVF	82.72	340	eP	56 02.30	0.2
	0.4s	2.85nm			4.6mb
SMF	82.74	339	eP	56 02.30	0.0
	0.4s	2.30nm			4.5mb
BGF	83.06	340	eP	56 04.60	0.7
	0.5s	2.90nm			4.5mb
MAF	83.44	340	eP	56 06.20	0.3
DSI	83.72	311	eP	56 08.40	0.9
CAF	84.78	340	eP	56 13.90	1.2
	0.5s	2.55nm			4.5mb
MBH	85.41	310	eP	56 17.00	0.9
	S.D. = 0.8	on	68 of	75 obs.	

SEP 29, 1991 05h 00m 00.41± 0.67s
35.716 N ± 6.7km 140.192 E ± 6 6km
DEPTH = 79.9 ± 5.4 km
4.7mb (6 obs.)
NEAR EAST COAST OF HONSHU, JAPAN(228)

KAKJ	0.49	358	iP+	00 13.30	-0.9
			S	00 21.70	
CHJJ	1.03	289	P	00 19.70	-0.3
			S	00 32.60	
NIIJ	1.80	328	P	00 29.90	-0.2
			S	00 52.50	
MAT	1.80	298	iPd	00 30.30	0.1
			iS	00 52.30	
IIDJ	1.87	263	P	00 31.80	0.6
			S	00 53.60	
MTMJ	2.12	295	iPd	00 35.00	0.4
YAMJ	2.46	357	P	00 40.10	1.0
			eS	01 12.20	
TSRJ	3.43	268	P	00 53.10	0.5
OFUJ	3.56	19	P	00 54.20	-0.2
			S	01 34.00	
WKYJ	4.06	250	P	01 01.10	-0.4
TKSJ	5.34	253	P	01 19.00	-0.3
YONJ	5.52	266	eP	01 22.00	0.2
GUN	46.31	276	P	08 22.20	1.8X
PKI	46.83	276	P	08 23.80	-0.7
KKN	46.84	276	P	08 24.40	0.0
DMN	47.06	276	P	08 25.00	-1.2
GKN	47.28	277	P	08 28.00	0.2
WRA	55.63	187	P	09 30.00	-0.3
	0.5s	2.90nm			4.6mb
WR2	55.63	187	eP	09 30.40	0.1
	0.2s	10.50nm			5.5mb
ASPA	59.36	187	iPd	09 57.40	0.9
	0.4s	3.20nm			4.8mb
			i	11 59.70	
GBA	60.13	265	Pd	10 02.00	0.0
	0.6s	4.90nm			4.8mb
WARB	62.88	194	eP	10 11.00	-9.2X
	0.4s	3.00nm			4.7mb
KEV	64.32	339	eP	10 36.00	6.8X
NB2	75.02	337	P	11 34.80	0.2
	0.7s	1.90nm			4.1mb
ZOBO	148.20	60	ePKP	19 42.00	5.7X
LPB	148.40	60	ePKP	19 43.00	6.6X
CNCB	148.66	60	PKP	19 44.00	7.0X
	S.D. = 0.6	on	21 of	27 obs.	

? SEP 29, 1991 05h 59m 06.18± 7.58s
28.605 N ±72.8km 112 163 W ±16.3km
DEPTH = 10.0km (geophysicist)
3.7mb (1 obs.)
GULF OF CALIFORNIA (49)

GLA	4.99	333	eP	00 21.43	-1.5
BAR	5.62	317	eP	00 36.00	4.1X
			e	02 14.00	
PLM	6.22	321	eP	00 45.00	4 6X
ALO	7.97	36	eP	01 03.00	-2 0
ANMO	7.97	36	e(P)	00 57.00	-8.0X
BCH	9.40	316	eP	01 25.50	0.8
MSU	9.88	360	eP	01 36.55	5.0X
BW06	14.30	8	eP	02 31.00	0.1
HPI	15.09	357	eP	02 42.70	1.3
RSSD	16.80	21	eP	03 05.00	1.9
LRM	17.19	359	eP	03 01.80	-6.3X
LON	19.63	340	eP	03 37.00	-0.8
NEW	20.00	350	eP	03 41.10	-0 6
	1.0s	3.75nm			3.7mb
SES	21.78	2	eP	04 01.00	1 1
	S.D. = 1.5	on	9 of	14 obs	

% SEP 29, 1991 06h 39m 57.92± 0 94s
40.430 N ± 8.5km 17.489 E ± 7.4km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

LCI	0.37	105	P	40 05.90	0.4
			eSg	40 13.00	
BRT	0.50	334	P	40 07.00	-1.0
			eSg	40 15.70	
ROI	1.11	220	P	40 18.00	-0.8
CSI	1.13	235	P	40 17.80	-1.3
MMN	1.27	245	P	40 23.00	1.5
MGR	1.51	259	P	40 25.50	0.5
			eSg	40 46.20	
CZI	1.60	221	P	40 25.50	-0.7
SGO	1.67	275	P	40 28.60	1.3
	S.D. = 1.3	on	8 of	8 obs.	

& SEP 29, 1991 06h 48m 07.01s
61.536 N 150.158 W
DEPTH = 40.6km
SOUTHERN ALASKA (2)
<AEIC>. ML 2.9 (AEIC).

PWA	0.18	49	iPd	48 14.18	0.0
SUA	0.29	256	iPd	48 15.33	-0.1
			eS	48 22.97	
PMS	0.41	135	iPd	48 16.39	-0.3
PLRM	0.49	83	iPd	48 16.94	-0.8
			eS	48 25.57	
GHO	0.63	68	ePd	48 18.95	-0.8
			eS	48 29.26	
SKT	0.79	305	iPc	48 20.69	-1.1
			eS	48 32.17	
KNK	0.83	98	iPc	48 21.79	-0.5
			eS	48 34.06	
CUT	0.87	357	iPc	48 21.94	-1.0
			eS	48 33.59	
SML	0.91	72	ePd	48 22.53	-1.0
			eS	48 36.33	
CGLM	0.92	256	iPc	48 22.95	-0.7
			eS	48 36.29	
NKA	0.95	214	eP	48 24.92	0.9
NCG	0.97	263	iPc	48 23.64	-0.8
			eS	48 37.37	
SLKM	1.03	182	iPc	48 23.95	-1.3
			eS	48 38.50	
CKL	1.10	253	eP	48 25.33	-1.0
BGL	1.11	257	iPc	48 25.60	-0.8
SCM	1.38	76	eP	48 29.35	-0.9
RDT	1.46	230	eP	48 30.54	-0.8
HUR	1.47	9	eP	48 30.93	-0.5
			eS	48 49.98	
SEW	1.48	166	eP	48 29.86	-1.6
NNL	1.60	201	eP	48 33.11	-0.2
GLI	1.62	113	iPc	48 31.76	-1.8
			eS	48 52.17	
REF	1.62	231	eP	48 32.83	-1.0
RDN	1.63	232	eP	48 32.78	-1.1
RSO	1.66	231	eP	48 33.46	-0.9
RS1	1.66	231	eP	48 33.80	-0.6
KNIM	1.68	134	eP	48 31.84	-2.5
VZW	1.80	104	iPc	48 34.59	-1.6
VLZ	1.89	101	ePc	48 35.44	-1.9
TRF	1.92	358	eP	48 36.84	-1.2
FID	1.95	112	eP	48 35.62	-2.7
RND	1.97	17	eP	48 37.58	-1.1
TOA	1.98	71	ePc	48 38.25	-0.5
KLU	2.03	89	iPc	48 37.64	-1.9
			eS	49 03.84	
KTH	2.06	350	eP	48 38.93	-1.0
CNPM	2.09	195	eP	48 38.94	-1.4
MCK	2.28	14	eP	48 42.35	-0.7
TZL	2.31	75	eP	48 42.66	-0.8
CVA	2.36	113	eP	48 41.27	-2.9
SDG	2.39	63	eP	48 45.55	0.9
SGAM	2.62	111	eP	48 43.06	-4.8
GLB	3.05	89	eP	48 54.30	0.4
WRH	3.09	17	eP	48 53.15	-1.4
HDA	3.23	26	eP	48 55.73	-0.8
CCB	3.30	18	eP	48 55.75	-1.7
CROM	3.49	100	eP	48 58.23	-2.1
MDM	3.55	13	eP	48 59.22	-1.8
	46 obs.	ossocioted			

SEP 29, 1991 06h 54m 36.70± 0.58s
35.794 N ± 9.2km 68.660 E ± 7.7km
DEPTH = 33.0km (normal)

4.7mb (10 obs.)
HINDU KUSH REGION, AFGHANISTAN (718)

GAR	3.46	22	iP	55 30.30	0.6
			i	55 42.50	
			iSP	56 01.60	
			i	56 09.60	
MAIO	7.44	277	ePn	56 25.00	-0.8
	0 8s	18.30nm		5.1mb	
			eSn	57 56.00	
NDI	10.13	132	iPc	57 04.50	1.5
	0.6s	23.33nm		5.6mb	
GKN	15.62	115	P	58 15.90	-0.3
DMN	16.19	116	P	58 23.12	-0.4
FKN	16.21	115	P	58 23.26	-0.6
	0.6s	66.00nm		4.9mb	
PKI	16.43	115	P	58 25.12	-1.6
GUN	16.59	113	P	58 29.46	0.7
WMO	16.65	55	eP	58 27.70	-1.5
LSA	19.85	101	P	59 07.50	-0.8
HYB	20.30	152	eP	59 16.50	3.9X
GBA	23.46	158	Pc	59 48.90	4.8X
	0.9s	10.30nm		4.3mb	
GTA	24.88	72	P	00 00.00	2.1
	0 8s	10.00nm		4.5mb	
XAN	32.90	81	P	01 10.20	0.2
NUR	37.31	325	iP	02 05.90	18.7X
	0 6s	9.10nm			
HFS	42.46	323	eP	02 30.70	0.8
	0.6s	1.70nm		4.0mb	
NB2	43.82	324	P	02 41.30	0.4
	0.8s	2.70nm		4.1mb	
MBC	68.12	2	eP	05 35.00	0.1
	1.0s	7.00nm		4.7mb	
INK	74.89	8	eP	06 14.00	-1.4
WRA	83.25	120	P	07 02.00	0 6
	0.4s	2.50nm		4.7mb	
WR2	83.27	120	eP	07 01.70	0.2
	0.5s	6.50nm		5.0mb	
			i	07 15.30	

S.D = 1.1 on 18 of 21 obs.

---

* SEP 29, 1991 07h 20m 27.26± 1.55s
5.991 S ±11.8km 151.544 E ±15.0km
DEPTH = 81.2 ± 17.7 km
4.8mb (6 obs.)
NEW BRITAIN REGION, P.N.G. (192)

RAB	1.89	19	iPd	20 57.30	-1.0
			iS	21 32.00	
LAT	4.56	261	eP	21 36.20	0.8
			eS	23 01.90	
PMG	5.52	232	eP	21 43.00	-5.7X
GUMO	20.55	341	eP	25 03.50	1.9
RMO	20.56	187	iPd	25 11.60	10.0X
	1.0s	118.00nm		5.2mb	
BRS	21.32	177	iPc	25 09.00	-0.3
	1.5s	5.00nm		3.6mb X	
			i	25 22.20	
DZM	21.52	139	iPc	25 12.30	0.9
WR2	21.71	229	iPd	25 11.60	-1 7
	0.6s	18.70nm		4.6mb	
ASPA	24.43	222	iPc	25 39.70	-0 1
	0.6s	37.70nm		5.0mb	
			eS	30 02.40	
CMS	25.92	191	eP	25 53.00	-0.6
STK	27.39	199	eP	26 08.50	1.5
	0.8s	3 70nm		4.0mb	
GUN	71.67	302	P	31 49.70	6.6X
FKN	72.14	302	P	31 47 20	1 5
GKN	72.75	302	P	31 46 20	-3 0
FBA	83.45	22	e(P)	32 40 00	-6.8X
	0.7s	13.08nm		5 0mb	
SPA	84.05	180	eP	32 50.00	0 0
	0 7s	5 47nm		4 7mb	

S D. = 1.7 on 12 of 16 obs.

---

* SEP 29, 1991 07h 28m 13.40± 0.89s
46.758 N ± 9.9km 0.903 E ± 6.1km
DEPTH = 5.0km (geophysicist)
FRANCE (538)
ML 2.1 (LDG)

LSF	0.67	139	Pg	28 26.60	-0.1
			Sg	28 35.60	
MFF	0.74	258	Pg	28 27.70	-0.5
			Sg	28 38.10	
TCF	1.02	117	Pg	28 32.40	-0.7
			Sg	28 45.00	
MAF	1.27	114	Pg	28 37.00	-0.4
			Sg	28 53.00	
BGF	1.35	98	Pg	28 37.40	-1.5
			Sg	28 54.40	
RJF	1.52	163	Pg	28 42.60	1.4
			Sg	29 02.20	
SSF	1.81	79	Pg	28 45.00	-0.5
			Sg	29 07.20	
CAF	2.00	156	Pg	28 52.20	3.9X
			Sg	29 17.80	
SMF	2.03	92	Pg	28 49.20	0.6
			Sg	29 14.40	
LPO	2.08	174	Pg	28 54.80	5.4X
			Sg	29 21.00	
LOR	2.09	75	Pg	28 50.40	0.9
			Sg	29 15.60	
LBF	2.12	83	Pg	28 50.80	0.8
			Sg	29 17.00	

S.D. = 1.0 on 10 of 12 obs.

---

* SEP 29, 1991 07h 50m 50.60± 2.14s
47.681 N ±16.2km 152.681 E ±15.0km
DEPTH = 118.6 ± 19.9 km
4.1mb (6 obs.)
KURIL ISLANDS (221)

KUSJ	7.24	234	P	52 34.40	-0.8
			S	53 51.60	
ASAJ	7.86	247	P	52 48.20	4.6X
HOOJ	8.50	235	P	52 52.40	0.2
			eS	54 21.60	
MRRJ	9.75	242	eP	53 10.10	1.1
			eS	54 54.20	
MAT	15.44	229	eP	54 23.00	0.0
	1.0s	13.00nm		4.2mb	
FBA	35.62	39	eP	57 37.30	-0.8
	0.7s	14.53nm		4.9mb	
GUN	54.63	274	P	00 08.69	-0.8
KKN	55.12	274	P	00 12.20	-0.6
PKI	55.17	274	P	00 12.12	-1.2
DMN	55.35	274	P	00 14.28	-0.3
GKN	55.41	275	P	00 13.96	-0.9
LRM	60.87	53	ePd	00 51.70	-1.1
NB2	67.25	341	P	01 35.80	2.0
	0.7s	0.70nm		3.7mb	
HFS	67.48	339	eP	01 36.80	1.7
	0 4s	0.70nm		3.9mb	
WRA	69.30	198	P	01 47.00	0.3
	0.7s	0.40nm		3.4mb	
ASPA	73.00	198	iPc	02 10.00	1.1
	0.4s	4.70nm		4.6mb	

S.D. = 1.2 on 15 of 16 obs.

? SEP 29, 1991 08h 54m 22.65± 3.98s
44.767 N ± 8.3km 7.774 E ±32.0km
DEPTH = 5.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.7 (GEN).

RSP	0.53	317	P	54 33.31	0.0
			S	54 37.14	
PZZ	0.55	242	P	54 33.73	0.1
			S	54 37.42	
ENR	0.60	205	P	54 34.96	0.4
			S	54 39.70	
STV	0.61	212	P	54 34.48	-0.5
			S	54 39.27	

S.D. = 0.6 on 4 of 4 obs.

? SEP 29, 1991 09h 01m 58.49± 3.60s
6.402 N ±27.7km 76.418 W ±57.2km
DEPTH = 50.0km (geophysicist)
NORTHERN COLOMBIA (99)

HOBC	2.05	172	iPc	02 31.47	0.1
			eS	02 54.40	
BUGC	2.50	176	eP	02 37.97	0.3
CLMC	2.51	183	eP	02 37.34	-0.5
ANCC	2.90	189	eP	02 44.23	0.9
HOOC	2.92	184	eP	02 43.06	-0.8
UPA	4.01	310	ePc	02 59.00	0.0

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

---

* SEP 29, 1991 09h 47m 54.03± 1.16s
12.092 N ±17 0km 143.715 E ±33.2km
DEPTH = 33.0km (normal)
4.7mb (4 obs.)
SOUTH OF MARIANA ISLANDS (210)

GUA	1.85	39	iPd	48 24.20	0.2
GUMO	1.86	37	iPd	48 24.10	-0.1
			eS	48 42.70	
PJG	1.86	37	iPd	48 24.10	-0.1
OIS	32.70	187	iPd	54 25.90	0.2
	0.6s	5.00nm		4.6mb	
WR2	33.14	196	iPc	54 29.10	-0.5
	0.6s	9.50nm		4.9mb	
ASPA	36.81	195	iPd	55 00.60	-0.4
	0.6s	11.30nm		4.9mb	
DZM	40.62	147	iPc	55 32.40	-0.4
STK	43.77	183	eP	55 59.30	1.0
	0.5s	1.40nm		4.0mb	

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

? SEP 29, 1991 10h 15m 39.28± 1.20s
40.646 N ±13.1km 27.731 E ±10.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

MFT	0.37	292	iPn	15 47.00	0.1
KGT	0.38	239	iPg	15 46.50	-0.6
			iSg	15 52.50	
CTT	0.73	46	iPg	15 53.50	-0.1
EZN	1.35	233	ePn	16 04.70	0.6

S.D. = 0.8 on 4 of 4 obs.

? SEP 29, 1991 10h 55m 56.97± 7.76s
12.805 S ±74.1km 119.833 E ±34.2km
DEPTH = 33.0km (normal)
3.7mb (3 obs.)
SOUTH OF SUMBA, INDONESIA (292)

MBL	8.31	180	eP	57 58.00	-0.1
			eS	59 54.00	
WARB	14.77	155	eP	59 31.00	5.7X
	0.4s	1.00nm		3.6mb	
			eS	02 42.00	
WR2	15.64	119	iPc	59 35.30	-1.4
	0.4s	2.50nm		3.8mb	
			iS	02 53.10	
MRWA	16.72	192	eP	59 50.00	-0.3
			eS	03 04.00	
ASPA	17.17	131	iPd	59 57.70	1.6
	0.5s	4.00nm		3.8mb	
BAL	17.95	189	eP	00 05.00	-0.7
			eS	03 36.00	
MUN	19.37	189	eP	00 24.00	1.0
			eS	04 08.00	

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

? SEP 29, 1991 11h 08m 05.88±10.60s
5.256 S ±81.8km 147.608 E ±103.km
DEPTH = 223.4 ± 20.2 km
4.4mb (2 obs.)
EASTERN NEW GUINEA REG., P.N.G. (207)

LAT	1.51	204	iPc	08 43.10	1.0
			eS	08 59.10	
MDG	1.82	270	eP	08 44.20	-0.6
YYYY	1.90	239	eP	08 45.90	0.1
			eS	09 11.70	
PMG	4.15	186	iPd	09 10.00	-0.9
WR2	19.48	220	eP	12 18.20	0.3
	0.6s	9.80nm		4.5mb	
ASPA	22.57	214	iPc	12 51.70	3.4X
	0.7s	7.70nm		4.4mb	
			eS	16 40.10	

S.D. = 1.5 on 5 of 6 obs.

& SEP 29, 1991 12h 21m 35.00s
39.848 N 75.031 W
DEPTH = 5.0km
CHESAPEAKE BAY REGION (493)
<PAL-P>. MD 2.2 (PAL).

BVD	0.37	259	iP	21 41.30	-1.1
			eS	21 46.00	
NED	0.54	255	iP	21 44.20	-1.6
			eS	21 50.90	
TBR	1.43	25	e(P)	21 59.50	-2.2
CVL	3.26	236	e(P)	22 25.00	-2.8
	4 obs. associated				

? SEP 29, 1991 12h 52m 30.29± 12.20s
48.737 N ±30.5km 2.154 W ±83.4km
DEPTH = 5.0km (geophysicist)
FRANCE (538)
ML 2.7 (LDG).

GRR	0	93	112	Pg	52 48.40	-0.1
				Sg	52 59.60	
LPF	1.02	133		Pg	52 50.10	0.0
				Sg	53 03.60	
FLN	1.11	88		Pg	52 51.40	-0.1
				Sg	53 04.80	
LDF	1.35	95		Pg	52 56.00	0.2
				Sg	53 12.40	

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

? SEP 29, 1991 13h 03m 00.06± 7.53s
48.654 N ±22.2km 1.905 W ±47.5km
DEPTH = 5.0km (geophysicist)
FRANCE (538)
ML 2.2 (LDG).

GRR	0.75	111		Pg	03 15.00	0.1
				Sg	03 26.20	
LPF	0.85	137		Pg	03 16.90	0.0
				Sg	03 30.50	
FLN	0.95	83		Pg	03 18.60	0.0
				Sg	03 32.00	
LDF	1.18	92		Pg	03 22.60	0.0
				Sg	03 40.00	

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

? SEP 29, 1991 13h 04m 02.61± 3.74s
21.222 S ±54.8km 171.271 E ±41.1km
DEPTH = 33.0km (normal)
4.7mb (2 obs.)
LOYALTY ISLANDS REGION (189)

DZM	4.57	258		iPd	05 10.90	-0.4
				iS	05 54.10	
BRS	17.93	246		iP	08 12.00	0.8
RMO	21.24	251		eP	08 59.00	10.8X
CMS	24.93	241		eP	09 23.60	-0.7
WR2	34.53	265		eP	10 50.10	-0.1
	0.2s		3.60nm			5.0mb
ASPA	34.56	259		eP	10 51.00	0.5
	0.8s		4.20nm			4.4mb

S.D. = 0.9 on 5 of 6 obs.

SEP 29, 1991 13h 15m 49.89± 1.17s
37.290 N ± 6.3km 7.919 W ±11.6km
DEPTH = 10.0km (geophysicist)
PORTUGAL (376)
mbLg 3.0 (MDD).

EVAL	0.98	72		iPgc	16 09.00	0.5
				eSg	16 19.00	
EJIF	2.14	112		ePn	16 26.50	0.4
				eSn	16 52.50	
EPLA	3.12	27		ePn	16 41.00	0.9
				eSn	17 15.00	
EBAN	3.39	74		ePn	16 44.00	0.1
ECOG	3.47	89		ePn	16 45.30	0.1
				eSn	17 24.50	
AFC	3.49	89		ePn	16 45.00	-0.4
				eSn	17 25.00	
EGUA	3 51	96		ePn	16 46.00	0.4
AVE	4 00	174		ePn	16 54.00	1.4
				iSn	17 39 00	
IFR	4 40	148		iPn	16 58.00	-0.4
				iSn	17 46.00	
GUD	4 45	40		ePn	16 58.50	-0.6
				eSn	17 47.00	
EVIA	4 49	71		ePn	16 59 00	-0.6
ETOR	5.77	51		ePn	17 17.00	-0.6
				eSn	18 18.50	
TIO	6.37	175		iPn	17 25.00	-1.2
				iSn	18 33.00	

S D = 0.8 on 13 of 13 obs.

SEP 29, 1991 13h 47m 14.95± 0.75s
46.090 N ± 8.6km 14 440 E ± 4.8km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
MD 2.2 (TRI)

LJU	0.08	125		iPgd	47 17.00	-0.4
				eSg	47 19.90	
CEY	0.35	182		ePg	47 23.00	0.8
				eSg	47 29.00	
VOY	0.39	262		iPgc	47 22.20	-0.7
				eSg	47 28.90	
TRI	0.61	231		e(Pg)	47 26.50	-0.7
				iSg	47 37.50	
VBY	0.82	135		e(Pg)	47 31.00	0.2
				e(Sn)	47 46.70	
PTJ	1.07	100		i(Pg)	47 35.00	-0.2
				i(Sg)	47 50.70	
FVI	1.26	294		P	47 39.00	0.8
				eSg	47 57.40	
VVI	1.41	266		P	47 41.30	0.6
				eSg	48 01.40	
CTI	1.94	270		P	47 48.00	-0.4

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

& SEP 29, 1991 14h 16m 02.70s
36.900 N 121.650 W
DEPTH = 5.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.7 (BRK).

SAO	0.21	129		iPc	16 06.68	-0.4
GCC	0.31	295		iPc	16 08.94	0.1
				i	16 13.28	
MHC	0.44	1		ePc	16 12.15	0.6
				iS	16 18.50	
ARN	0.46	12		iPd	16 12.20	0.3
PRS	0.61	158		iPd	16 15.58	0.7
LLA	0.63	116		iPc	16 15.10	-0.3
				eS	16 19.55	
PCC	0.84	316		iPd	16 18.72	-0.6
BKS	1.08	335		eP	16 22.50	-1.0
PRI	1.10	133		eP	16 23.85	0.0
ZSP	1.15	335		iPd	16 25.25	0.6
PHAM	1.47	136		eP	16 30.00	0.2
CMB	1.52	41		iPc	16 29.27	-1.3
				i	16 48.27	
FRI	1.56	86		iPc	16 30.75	-0.3
				i	16 50.61	
BONR	2.87	67		e(P)	16 50.00	-0.2

14 obs. associated

SEP 29, 1991 15h 35m 39.44± 0.83s
6.276 N ± 6.9km 73.039 W ± 8.8km
DEPTH = 199.2 ± 8.6 km
4.4mb (1 obs.)
NORTHERN COLOMBIA (99)

BOG	1.93	212		iPc	36 19.00	1.1
				iS	36 45.00	
HOBC	3.63	238		iPd	36 37.08	-0.2
BUGC	3.98	234		iPd	36 41.68	0.0
CLMC	4.24	236		iPd	36 44.67	-0.3
HOOC	4.54	232		iPd	36 48.13	-0.7
ANCC	4.70	234		iPd	36 50.29	-0.4
				eS	37 39.00	
PURC	5.14	220		ePc	36 57.70	0.9
UPA	6.98	293		ePd	37 19.00	-1.1
CUMC	7.15	223		ePd	37 23.03	0.1
BBJ	12.72	341		eP	38 39.20	4.6X
				eS	40 47.00	
ZOBO	22.92	168		P	40 28.00	0.2
LPB	23.18	168		eP	40 30.00	-0.2
CNCB	23.48	168		P	40 33.80	0.7
SIV	25.10	152		P	40 47.20	-0.4
SOB1	35.54	115		eP	42 19.80	0.4
SCH	48.66	5		eP	44 06.00	1.0
PNT	58.04	326		eP	45 15.00	1.2
TIC	67.54	85		P	46 15.90	-0.9
LIC	67.56	86		P	46 16.00	-0.9
KIC	67.83	86		P	46 17.90	-0.7
INK	73.57	340		eP	46 51.00	-0.9
MBC	74.35	350		eP	46 57.50	1.2
	0.6s		5.00nm			4.4mb
GKN	139.68	31		PKP	54 46.60	0.6
KKN	140.18	31		PKP	54 47.20	0.2
DMN	140.24	31		PKP	54 47.40	0.2
GUN	140.38	30		PKP	54 48.00	0.4
PKI	140.42	31		PKP	54 47.20	-0.4
GBA	144.65	56		PKPc	54 54.50	-0.2
	0.6s		2.00nm			
QIS	145.32	243		ePKP	54 55.60	-0.2
	0.6s		9.00nm			
				i	55 44.80	
ASPA	148.86	233		iPKPc	55 04.90	3.4X
	0.6s		13.10nm			
				i	55 09.80	
WR2	150.12	240		iPKPd	55 03.60	0.2
	0.6s		13.40nm			
				i	55 08.40	
				i	55 56.40	
WRA	150.14	240		PKP	55 03.00	-0.5
	0.5s		4.50nm			

S.D. = 0.7 on 30 of 32 obs.

? SEP 29, 1991 15h 55m 30.69± 1.26s
39.229 N ±13.2km 21.569 E ± 8.4km
DEPTH = 10.0km (geophysicist)
GREECE (364)

AGG	0.63	109		iPc	55 43.46	0.1
				eS	55 54.36	
IGT	1.01	288		ePd	55 49.48	-0.2
				eS	56 03.64	
LIT	1.12	39		ePc	55 51.26	-0.5
				eS	56 08.24	
FNA	1.56	355		iPd	55 59.16	0.6
				iS	56 21.73	
OHR	1.97	343		ePn	56 07.00	2.5X

S.D. = 0.8 on 4 of 5 obs.

• SEP 29, 1991 15h 57m 22.83± 1.32s
35.981 N ±11.7km 22.721 E ± 9.1km
DEPTH = 5.0km (geophysicist)
CENTRAL MEDITERRANEAN SEA (400)
ML 3.2 (ATH).

VLI	0.76	13		iPgc	57 36.00	-2.0
				eSg	57 43.80	
ATH	2.14	22		ePg	58 01 00	1.3
NPS	2.46	106		ePn	58 04.00	-0.3
AGG	3.05	354		iPc	58 13.21	0.6
				iS	59 02.66	
PAIG	4.01	11		iPd	58 26.46	0.2
IGT	4.02	333		iPd	58 26.37	0.0
				eS	59 25.57	
LIT	4.12	358		ePd	58 29.02	1.3
SOH	4.86	6		ePd	58 38.10	-0.3
KNT	5.18	1		ePd	58 42.18	-0.6
MGR	7.01	308		P	59 08.50	-0.2
SGO	7.41	310		P	59 13.60	-0.6
HFS	24.86	349		eP	02 44.00	-3.3X
	0.4s		1.00nm			3.9mb

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

? SEP 29, 1991 16h 17m 07.01± 6.02s
37.606 N ±43.0km 16.303 E ±20.4km
DEPTH = 10.0km (geophysicist)
IONIAN SEA (399)

SOI	0.51	337		Pd	17 17.20	0.0
				eSg	17 19.00	
ATN	0.87	310		P	17 23.60	-0.1
				eSg	17 29.50	
CZI	1.62	355		P	17 36.40	0.8
TDS	2.05	1		P	17 41.20	-0.7

S.D. = 1.1 on 4 of 4 obs.

SEP 29, 1991 18h 27m 27.69± 0.66s
41.077 N ± 6.7km 22.519 E ± 4.8km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)

GRG	0.15	217		iPd	27 31.14	0.0
				eS	27 33.24	
KNT	0.30	73		iPd	27 34.02	0.1
				eS	27 38.56	
THE	0.56	143		ePd	27 37.85	-1.2
				iS	27 44.50	
SOH	0.68	112		ePd	27 40.57	-0.7
				eS	27 49.72	
SRS	0.81	87		iPc	27 43.06	-0.4
				eS	27 53.88	
FNA	0.91	252		iPd	27 45.21	0.0
LIT	0.97	181		ePc	27 45.70	-0.5
				eS	27 59.96	
SKO	1.21	318		ePn	27 50.00	-0.2
OUR	1.34	123		ePc	27 53.08	0.8
PAIG	1.45	142		iPc	27 55.65	1.7

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

* SEP 29, 1991 20h 29m 18 99± 1.66s
6.883 S ± 8.6km 147.437 E ±25.4km
DEPTH = 94.8 ± 7.3 km
4.2mb (3 obs.)
EASTERN NEW GUINEA REG., P.N.G. (207)

LAT	0.49	298	iPd	29 33.00	-1.3
YYYY	1 59	293	eP	29 47.20	0.5
MDG	2.31	314	eP	29 57.50	1.4
PMG	2.53	186	iPc	29 59.00	0.0
OIS	15.57	208	eP	32 55.00	0.6
WR2	18.16	223	eP	33 25.10	-1.4
	0.4s	3.80nm		4.0mb	
		iS	36 25.80		
OLP	19.83	188	iPd	33 45.80	1.1
	0.4s	93.00nm		5.5mb X	
ASPA	21.16	216	eP	33 58.50	0.2
	0.5s	9.80nm		4.4mb	
		eS	37 45.50		
STK	25.46	192	iPd	34 44.90	5.1X
	0.5s	4.00nm		4.1mb	
GUN	68.71	303	P	40 15.40	0.2
PKI	68.99	303	P	40 16.20	-0.7
KKN	69.17	303	P	40 17.20	-0.7
DMN	69.25	303	P	40 18.40	0.0
GKN	69.77	303	P	40 21.60	0.1

S.D. = 1.0 on 13 of 14 obs.

SEP 29, 1991 20h 42m 39.97± 0.48s
43.065 N ± 4.1km 17.784 E ± 5.2km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
MD 3.8 (TRI). ML 3.5 (KBA).

BAI	2.06	200	P	43 16.00	1.0
BRT	2.23	191	P	43 18.80	1.3
BEO	2.61	47	ePn	43 21.50	-1.4
LCI	2.73	177	P	43 25.50	0.9
SKO	2.91	111	ePn	43 28.00	0.8
			eSn	44 03.50	
			e	44 08.00	
OHR	2.97	130	ePn	43 34.30	6.2X
ZAG	3.04	336	iPn	43 32.00	3.1X
VBY	3.04	324	ePn	43 31.10	2.1
			eSn	44 12.50	
SGO	3.11	217	P	43 28.50	-1.5
PTJ	3.12	336	iPn	43 31.50	1.3
			iSn	44 09.20	
AQU	3.31	259	P	43 32.10	-0.8
MGR	3.37	210	P	43 33.70	0.0
ARV	3.56	279	Pd	43 35.80	-0.6
			eSn	44 15.00	
CEY	3.60	319	ePn	43 38.50	1.6
			eSn	44 23.50	
			eSg	44 40.50	
BZS	3.75	46	ePc	43 37.50	-1.6
ASS	3.75	272	P	43 38.40	-0.8
LJU	3.78	323	e(Pn)	43 40.50	1.0
			e	43 50.00	
			eSn	44 38.00	
MNS	3.82	261	P	43 39.00	-1.2
TRI	3.91	314	ePn	43 41.30	0.0
			iSn	44 26.80	
			iSg	44 45.70	
RDP	3.97	253	P	43 39.50	-2.8X
VOY	4.07	318	iPn	43 44.00	0.4
			eSn	44 34.30	
CRE	4.29	280	P	43 47 60	0.7
SFI	4.40	283	Pd	43 48.30	0.0
SRO	4.76	4	eP	44 22 40	28.9X
VVI	4.82	309	P	43 53 30	-1.0
FVI	5.01	316	P	43 56.20	-0.7
			eSn	44 51.10	
KBA	5.10	323	iPnd	43 58.40	0 1
			iSn	45 00.30	
			iSg	45 34.40	
SOI	5.16	195	P	43 58.50	-0.5
CTI	5.30	306	P	44 01 00	-0.2
WTTA	6.04	316	iPnc	44 10 80	-0.9
			i	44 11.70	
			iSn	45 18.50	
			iSg	45 57.20	
KHC	6.73	336	Pn	44 25.30	4.0X
			ePg	44 30.60	
			Sg	45 36.50	

S.D. = 1.1 on 26 of 31 obs.

SEP 29, 1991 21h 21m 55.63± 1.21s
36.576 N ± 8.7km 141.701 E ± 9.7km
DEPTH = 37 3 ± 8.7 km
4.4mb (4 obs.)
NEAR EAST COAST OF HONSHU, JAPAN(228)

KAKJ	1.29	254	iPd	22 16.30	-1.1
			S	22 29.80	
YAMJ	2.07	321	iPd	22 28.80	0.1
			eS	22 51.30	
CHJJ	2.25	257	iPd	22 30.10	-1.1
			eS	22 54.30	
NIIJ	2.26	288	P	22 30.90	-0.5
OFUJ	2.50	359	P	22 35.50	0.7
			eS	23 07.30	
MAT	2.81	270	iPd	22 39.30	0.1
			iS	23 12.20	
MTMJ	3.14	271	iPd	22 44.00	0.1
IIDJ	3.26	252	P	22 46.60	1.0
			S	23 26.30	
TSRJ	4.75	259	eP	23 07.90	1.2
WKYJ	5.51	247	P	23 18.40	0.9
MRRJ	5.86	355	eP	23 23.30	1.0
			eS	24 29.40	
HOOJ	5.93	11	P	23 23.00	-0.3
			S	24 26.50	
TKSJ	6.77	250	P	23 34.70	-0.5
YONJ	6.83	261	eP	23 36.70	0.7
KUSJ	6.91	19	P	23 34.60	-2.5
			S	24 47.70	
ASAJ	7.57	5	P	23 45.80	-0.5
			eS	25 10.40	
CN2	14.35	305	eP	25 25.00	6.9X
	Z 16s	0.90um		epP 25 32.00	
			eS	28 02.00	
SNY	14.99	296	eP	25 28.70	2.2
	Z 20s	0.50um		eS 28 03.00	
TIA	19.78	276	eP	26 21.60	-3.9X
TIY	23.32	282	eP	27 01.60	0.4
HHC	23.84	290	eP	27 04.00	-2.3
YAK	26.55	347	eP	27 25.50	-6.0X
XAN	26.80	274	P	27 32.50	-1.7
GYA	31.38	261	P	28 13.80	-1.5
GTA	32.92	288	eP	28 27.60	-1.1
WMQ	41.25	297	P	29 39.60	0.9
CHG	41.41	256	eP	29 41.00	0.8
GUN	47.43	276	P	30 30.00	1.0
PKI	47.95	276	P	30 32.30	-0.7
KKN	47.96	276	P	30 33.00	0.0
DMN	48.18	276	P	30 34.40	-0.3
GKN	48.39	277	P	30 36.00	-0.2
WRA	56.64	188	P	31 37.00	-0.4
	0.4s	1.70nm		4.4mb	
WR2	56.64	188	iPc	31 37.40	0.0
	1.0s	3.40nm		4.3mb	
GBA	61.41	266	P	32 19.00	8.3X
	1.2s	9.30nm		4.8mb	
LRM	74.31	44	ePd	33 33.80	2.5
NB2	74.70	337	P	33 33.80	0.9
	0.9s	1.60nm		4.0mb	

S.D. = 1.2 on 33 of 37 obs.

SEP 29, 1991 21h 40m 16.93± 0.33s
45.480 N ± 4.0km 26.426 E ± 4.2km
DEPTH = 135.0 ± 4.6 km
4.4mb (2 obs.)
ROMANIA (358)

MLR	0.34	272	iPc	40 36.00	0.4
BRD	0.44	85	iPc	40 37.20	0.7
VRI	0.44	28	iPc	40 36.50	0.0
MTUR	0.99	256	iPc	40 40.00	-0.6
BUC	1.09	192	iPc	40 58.00	16.6X
PPE	1.11	48	ePc	40 42.50	0.9
BUC1	1.17	194	iPc	40 58.00	15.9X
CLI	1.23	29	iPc	40 42.20	-0.6
TLB	1.45	127	iP	40 45.00	-0.1
DRA	1.73	243	ePc	40 50.00	1.6
SRE	2.42	251	eP	40 57 00	0.1
DEV	2.50	281	iPc	40 59.00	1.1
BMR	2.98	318	ePc	41 18.00	13.9X
SSR	3.37	261	ePd	41 09.00	-0.2
DMK	3.78	165	iPn	41 14 60	-0 1
BEO	4.27	263	eP	41 27 00	5 8X
CTT	4.57	161	iPn	41 25.00	-0.2
ALN	4.59	184	ePc	41 25.56	0.1
MFT	4.73	172	ePn	41 27.00	-0.5
ISK	4.81	156	ePn	41 28.00	-0.5
SRS	4.83	206	ePd	41 29.10	0.4
KNT	5.02	212	iPc	41 31.93	0.6
SKO	5 03	228	ePn	41 31.50	0.0
KGT	5.07	172	iPn	41 30.50	-1.4
HRT	5.22	152	ePn	41 34.00	-0.1
EDC	5.24	168	iP	41 33.50	-0.7
YLV	5.36	155	ePn	41 35.50	-0.5
OUR	5.45	200	ePc	41 37.72	0.7
IZI	5.61	155	ePn	41 39.00	-0.3
EZN	5.65	181	ePn	41 39.70	-0.1
PAIG	5.91	201	iPc	41 43.89	0.6
SRO	6.05	296	eP	41 55.70	10.4X
			e	43 51.90	
KAS	6.74	125	eP	41 53.50	-1.2
ZST	6.95	296	eP	41 55.40	-2.0
			e	44 18.30	
NB2	17.97	336	P	44 17.40	-1.9
	0.6s	4.10nm		3.9mb	
GKN	48.73	90	P	48 51.10	1.4
DMN	49.30	90	P	48 53.30	-0.9
KKN	49.31	90	P	48 55.20	1.0
	0.6s	14.00nm		4.9mb	
PKI	49.53	90	P	48 57.10	1.0
GUN	49.66	89	P	48 58.20	1.1

S.D. = 0.9 on 35 of 40 obs.

? SEP 29, 1991 21h 53m 24.15± 9.03s
4.308 N ±48.4km 77.066 W ±67.5km
DEPTH = 33.0km (normal)
NEAR WEST COAST OF COLOMBIA (102)
MD 3.0 (UVC).

CLMC	0.66	130	eP	53 37.83	0.7
ANCC	0.81	166	ePc	53 39.77	0.6
			eS	53 52.00	
HOBC	0.93	87	ePc	53 40.79	-0.2
			eS	53 53.80	
HOOC	0.94	153	ePc	53 40.08	-1.2
			eS	53 52.60	

S.D. = 1.5 on 4 of 4 obs.

? SEP 29, 1991 23h 07m 01.25± 3.94s
15.380 N ±42.6km 95.752 W ±19.9km
DEPTH = 33.0km (normal)
4.0mb (1 obs.)
NEAR COAST OF OAXACA, MEXICO (66)

IISM	3.91	337	iP	08 01.00	0.6
			iS	08 53.50	
ACX	4.22	291	(P)	08 44.00	39.2X
			iS	09 02.00	
IIT	4.37	326	eP	08 02.50	-4.8X
			iS	09 00.00	
LVVM	4.38	351	(P)	08 14.50	7.3X
			iS	08 57.00	
PPM	4.58	324	eP	08 10.50	0.0
III	4.64	310	iP	08 12.50	1.4
UNM	5.12	321	eP	08 17.50	-0.4
MRX	6.74	310	eP	08 39.00	-1.5
TUL	20.45	360	eP	11 38.10	-0.5
	0.7s	4.90nm		4.0mb	
INK	58.12	344	eP	16 54.00	0.4

S.D. = 1.1 on 7 of 10 obs.

& SEP 30, 1991 00h 11m 38.92s
59.604 N 152.640 W
DEPTH = 76.7km
SOUTHERN ALASKA (2)
<AEIC>.

OPT	0.30	280	iPd	11 50.40	-0.7
			eS	11 59.52	
AUE	0.45	237	eP	11 51.50	-0.5
AUL	0.46	242	ePd	11 51.67	-0.5
			eS	12 02.02	
IVS	0.46	331	eP	11 51.53	-1.0
			eS	12 01.55	
AUP	0.47	239	ePc	11 51.88	-0.5
AGU	0.47	239	eP	11 51.55	-0.9
AUH	0.48	240	ePc	11 51.94	-0.5
AUI	0.48	236	eP	11 51.55	-0.8
			eS	12 01.04	
AUW	0.48	241	ePc	11 51.91	-0.5

30d 00h

XLV	0.49 107	iPd	11 51.68	-0.8	
		eS	12 01.46		
INE	0.51 335	ePd	11 51.82	-1.0	
		eS	12 01.98		
HOM	0.51 83	ePd	11 52.25	-0.3	
		eS	12 02.39		
INW	0.53 332	ePd	11 52.02	-0.9	
		eS	12 02.63		
CNPM	0.72 96	iPd	11 53.91	-0.9	
		eS	12 05.65		
NNL	0.81 56	ePc	11 55.87	0.1	
PDB	0.81 284	eP	11 55.79	0.1	
RED	0.82 355	iPd	11 55.11	-0.9	
		eS	12 08.03		
CDD	0.85 218	ePc	11 55.43	-0.8	
RS1	0.86 356	ePd	11 55.89	-0.7	
		eS	12 09.01		
RSO	0.86 356	ePd	11 55.89	-0.7	
		eS	12 08.78		
RS2	0.86 356	ePd	11 55.92	-0.7	
		eS	12 08.83		
RDW	0.89 355	eP	11 56.00	-0.9	
		eS	12 09.49		
REF	0.89 358	ePd	11 56.14	-0.8	
		eS	12 09.68		
RDN	0.91 356	ePd	11 56.44	-0.7	
		eS	12 10.03		
MCNL	0.96 245	eP	11 56.42	-1.2	
		eS	12 09.28		
NCT	0.97 352	eP	11 57.30	-0.5	
		eS	12 11.09		
RDT	0.98 7	eP	11 56.92	-1.0	
		eS	12 10.66		
DFR	0.99 359	eP	11 57.34	-0.7	
		eS	12 11.38		
SYI	1.01 173	eP	11 57.54	-0.5	
		eS	12 11.62		
NKA	1.34 31	ePc	12 03.39	1.0	
SLKM	1.51 52	eP	12 03.85	-0.9	
BGL	1.67 4	eP	12 06.18	-0.7	
SEW	1.69 71	eP	12 07.08	0.1	
CGLM	1.74 10	ePc	12 07.27	-0.5	
NCG	1.82 7	eP	12 08.46	-0.5	
SUA	2.09 26	ePc	12 12.23	-0.4	
PMS	2.25 42	eP	12 13.95	-0.8	
SKT	2.45 12	iPc	12 16.40	-1.1	
LTI	2.46 78	eP	12 16.45	-1.1	
PWA	2.46 32	eP	12 17.39	-0.3	
FNIM	2.58 71	eP	12 16.64	-2.6	
PLRM	2.64 39	eP	12 18.19	-1.9	
KNK	2.75 47	eP	12 19.79	-1.9	
GHO	2.84 38	eP	12 21.42	-1.6	
SML	3.06 42	eP	12 24.29	-1.7	
FID	3.29 67	eP	12 25.43	-3.7	

46 obs. associated

SEP 30. 1991 00h 21m 46.41± 0.08s
20 878 S ± 2.6km 178.591 W ± 2.9km
DEPTH = 566.4km (geophysicist)
6.3mb (51 obs.)
FIJI ISLANDS REGION (181)
mb 6.5 (BRK). Mo=3.0*10**19 Nm
(PPT). Depth from broadband
displacement seismograms.
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 48 Dip=83 Slip= -94
NP2: 258 8 -60
Principal Axes:
T Plg=38 Azm=142
P 52 313
Comment: The focal mechanism is
poorly controlled and
corresponds to normal faulting
with a small strike-slip
component. The preferred fault
plane is not determined
RADIATED ENERGY
No. of sta: 15 Focal mech. C
Energy 1.7±0.4*10**14 Nm
MOMENT TENSOR SOLUTION
Dep 591 No. of sta: 14
Moment Tensor; Scale 10**19 Nm
Mrr=-0 45 Mtt= 0 72
Mff=-0.27 Mrt=-1.75
Mrf=-1.34 Mtf=-0.07
Principal axes:
T Val= 2 22 Plg=39 Azm=156
N 0.14 12 56
P -2 36 49 311
Best Double Couple:Mo=2.3*10**19
NP1:Strike=303 Dip=13 Slip= -22
NP2: 55 85 -102
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 27S, 77C M.W.: 20S, 44C
Centroid Location:
Origin Time 00:21:54.0 0.1
Lat 20.67S 0.01 Lon 178.52W 0.01
Dep 589.7 0.6 Half-duration 10.1
Moment Tensor; Scale 10**19 Nm
Mrr=-1.50 0.02 Mtt= 1 03 0.03
Mff= 0.47 0.03 Mrt=-1.95 0.03
Mrf=-2.22 0.03 Mtf=-0.30 0.03
Principal Axes:
T Val= 2.59 Plg=36 Azm=140
N 1.06 6 46
P -3.65 54 308
Best Double Couple:Mo=3.1*10**19
NP1:Strike=257 Dip=11 Slip= -58
NP2: 45 81 -96

SVA	3.91 314	ePc	23 12.80	3.5X	
		eS	24 18.00		
VUN	3.98 315	iPc	23 12.60	2.7	
		eS	24 18.80		
KRO	4.03 331	iPc	23 13.20	3.0X	
OVA	4.03 322	eP	23 13.60	3.4X	
TVI	4.16 341	iPc	23 14.80	3.5X	
SGE	4.64 314	iPc	23 19.20	4.1X	
MBU	4.64 326	iPc	23 18.60	3.6X	
		eS	24 28.00		
NDE	4.71 335	iPc	23 18.80	3.2X	
NDF	4.86 309	iP	23 17.20	0.5	
		eS	24 36.50		
UDU	4.88 344	iPc	23 19.90	3.0X	
RAO	8.36 176	eP	23 44.00	-4.8X	
		eS	25 13.00		
AFI	9.50 44	eP	23 58.46	-1.9	
		iS	25 40.84		
PVC	12.75 282	iPc	24 36.50	3.7X	
		iS	26 56.50		
BKM	12.83 282	iPc	24 37.10	3.4X	
		iS	27 04.00		
DZM	13.98 262	iPd	24 48.10	2.9X	
		iS	27 14.20		
		ScP	32 04.30		
		ScS	35 46.00		
WCZ	16.23 201	P	25 12.80	5.8X	
KUZ	16.57 196	P	25 14.70	4.4X	
		eS	28 02.40		
		e	32 07.90		
		e	32 08.50		
HBZ	16.88 189	P	25 14.60	1.3	
	0.3s 465.00nm				6.5mb
		e	32 08.80		
RAR	17.57 94	iP	25 21.00	1.0	
		S	27 24.00		
WLZ	17.64 195	P	25 24.80	4.2X	
		eS	28 20.60		
URZ	17.72 191	P	25 20.80	-0.5	
		e	26 47.90		
		eS	28 11.40		
		e	32 08.90		
NOZ	17.92 189	P	25 25.80	2.5X	
MOZ	18.47 197	P	25 32.20	3.7X	
		e	28 42.50		
		e	28 42.60		
NGZ	18.91 194	P	25 36.10	3.3X	
		e	32 07.40		
RUZ	18.92 195	P	25 33.10	0.3	
CNZ	18.94 194	P	25 34.20	1.1	
WAHZ	19.25 192	P	25 35.30	-0.6	
TEHZ	19.45 191	P	25 38.30	0.6	
NRZ	19.49 198	P	25 43.10	5.1X	
BSZ	19.66 195	P	25 40.80	1.2	
PGZ	20.16 191	P	25 43.70	-0.5	
	0 6s 825.00nm				6.5mb
		e	32 16.30		
MNG	20.32 193	P	25 45.00	-0.7	
	0.4s 892.00nm				6.7mb
		eS	28 55.90		
		e	32 15.80		
		e	35 52.50		
KIW	20.68 194	P	25 48.50	-0.5	
		e	36 00.50		
MTW	20.83 193	eP	25 50.20	-0.2	
		e	32 17.30		
DIW	20.86 196	P	25 50.10	-0.6	
CAW	20 87 194	P	25 49.80	-1.0	
AMW	20.92 192	P	25 51.00	-0.2	
		e	32 18.20		
BLW	21.04 193	P	25 51.80	-0.5	
		e	32 18.30		
WDW	21.04 194	P	25 51.70	-0.6	
		e	32 17.60		
		e	35 56.80		
MRW	21.07 194	P	25 52.60	0.0	
		eS	29 07.80		
		e	36 00.40		
WEL	21.11 194	P	25 53.50	0.6	
MOW	21.14 193	eP	25 52.50	-0.7	
		e	32 18.30		
		e	36 01.30		
TCW	21.16 195	P	25 53.20	-0.1	
CCW	21.68 195	P	25 58.80	0.7	
THZ	22.03 197	P	26 01.50	0.2	
		S	29 22.50		
		e	36 01.00		
DSZ	22.34 199	P	26 05.00	0.9	
		e	36 01.90		
KHZ	22.47 195	P	26 05.10	-0.1	
		eS	29 30.00		
		e	32 20.50		
LTZ	23.15 197	P	26 11.10	-0.3	
		eS	29 40.00		
		e	32 26.70		
HNR	23.60 296	iPd	26 15.00	-0.6	
		iS	28 52.00		
MOZ	23.91 196	P	26 17.70	-0.4	
		eS	29 52.70		
		e	32 25.40		
EWZ	24.23 199	P	26 21.40	0.4	
		e	32 25.40		
		e	36 10.70		
BWZ	25.45 199	P	26 31.30	-0.4	
		e	32 30.10		
ODZ	25.69 198	P	26 33.70	-0.2	
		e	32 30.80		
LRCZ	26.10 200	P	26 37.10	-0.6	
MSCZ	26.10 200	P	26 37.20	-0.4	
MMCZ	26.11 200	P	26 37.20	-0.5	
		e	32 32.40		
		e	36 22.10		
MHZ	26.12 200	P	26 37.60	-0.2	
SBCZ	26.13 200	P	26 37.50	-0.4	
LSCZ	26.14 200	P	26 37.80	-0.1	
		e	32 31.90		
CMCZ	26.20 200	P	26 37.90	-0.6	
		e	32 32.60		
		e	36 24.20		
MSZ	26.23 202	P	26 40.70	2.1	
		eS	30 31.50		
TLC	26.30 200	P	26 39.20	-0.2	
		e	32 32.30		
TUZ	26.81 198	eP	26 44.50	0.8	
		eS	30 41.60		
		e	32 33.70		
BRS	26.89 250	iPc	26 46.30	1.7	
	0.6s 85.00nm				5.6mb
		i(pP)	26 59.80	55kmX	
		i(PP)	28 26.50		
		i(S)	30 44.00		
		i(PcP)	32 37.80		
		i(PcS)	36 32.00		
TBI	27.08 101	iP	26 47.00	0.8	
	1 3s 3415.00nm				6.8mb
		iScP	32 34.80		
AFR	27.39 88	iP	26 48.80	-0.2	
		iScP	32 36.20		
BCZ	27.42 201	P	26 50.00	1.0	
PAE	27.56 88	iP	26 50.10	-0.3	
		iScP	32 36.70		
PPT	27.58 88	iP	26 50.60	0.0	
		iScP	32 37.00		
PPN	27.72 88	iP	26 51.70	-0.1	
		iScP	32 37.20		
TVO	27.84 89	iP	26 52.80	-0.2	
		iScP	32 37.80		
SIZ	28.10 200	eP	26 56.00	1.2	
COO	28.22 244	iPd	27 00.50	4.3X	
		i	32 41.50		

PMO 29.75 84 iP 27 09.10 -0.3
1.2s 2795.00nm 6.8mb
iScP 32 44.10
VAH 29.93 84 iP 27 10.40 -0.5
1 2s 2705.00nm 6.8mb
iScP 32 44.40
TPT 30.01 84 iP 27 11.40 -0.2
1.2s 3245.00nm 6.8mb
iScP 32 44.90
RUV 30.18 84 iP 27 12.60 -0.4
1.2s 3335.00nm 6.8mb
iScP 32 45.50
CNB 31.56 236 iPc 27 23.40 -1.3
i 29 57.40
i 32 47.40
CAN 31 84 236 iPd 27 29.30 2.3
ePP 29 05.00
eScP 32 00.30
i 32 52.40
BWA 32.03 238 iPd 27 28.70 0.1
ePP 29 06.10
iScP 32 00.00
e 32 51.90
CTAO 32.90 265 iPd 27 38.42 2.4
epPd 29 13.11
isPc 30 16.34
iS 32 14.10
iScS 36 57.00
RAB 32.91 296 iP 27 35.00 -1.1
0.7s 1479.45nm 6.7mb
iS 28 52.00
CMS 33.50 244 iPd 27 42.90 2.0
i 30 10.00
i 30 33.00
i 32 58.00
QLP 34.42 253 iPd 27 50.50 1.9
i 30 09.00
PMG 34.89 284 iPd- 27 53.80 1.1
1 0s 200.00nm 5.7mb
TOO 35.23 234 iPd 27 53.90 -1.4
i 29 25.60 499kmX
i 30 38.70
i 33 01.00
TAU 35.97 225 ePd 28 02.49 1.3
e 29 50.00
eS 32 56.00
e 33 07.00
STK 37.13 244 iPd 28 16.40 5.5X
1.3s 525.20nm 6.0mb
i 30 09.90
eS 33 21.70
iScS 37 24.20
ePP 58 26.10
YYYY 37.28 288 iPd 28 13.40 0.9
BFD 37.37 236 iPd 28 14.00 1.2
1.1s 858.00nm 6.3mb
i 29 25.00 356kmX
i 30 10.70
i 31 27.80
i 33 10.90
MCQ 37.64 201 iPd 28 18.60 3.9X
0.2s 3565.00nm 7.6mb X
MDG 37.89 289 iPd 28 18 80 1.5
QIS 39.02 263 iPd 28 26.90 0.5
MNDI 39.38 286 eP 28 31.00 1.3
ADE 39.95 240 iPc 28 35.00 1.1
RKT 40.40 101 iP 28 38.00 0.5
1 4s 3905.00nm 6.8mb
iScP 33 23 60
HON 46 51 27 P 29 25.00 -0.1
DHH 46.55 27 P 29 25.00 -0.4
KIP 46.60 27 ePd 29 25 77 0.0
epP 31 10.06 574kmX
isPc 32 13 96
iS 35 33.77
iScS 38 24.69
e 38 44.55
OPA 46.84 27 P 29 26.50 -1.1
FORR 48.60 247 iPd 29 41.20 0.3
MTN 48 62 271 eP 29 40.90 -0.3
GUA 49 55 311 iPd- 29 48.00 -0.1
0 8s 5707.46nm 7.2mb
e 30 59.70 347kmX
eS 36 14.00
KNA 50.06 267 iPd 29 52.20 0.4
WARB 50.19 253 iPd 29 53.20 0.5
eS 36 22.00

DRV 52.82 199 P 30 12.10 1.0
AAI 54.45 281 iPd 30 21 70 -1.7
eS 30 26.70
COOL 54.57 246 iPd 30 23.90 -0.2
KUPT 56.45 272 eP 30 44.00 6.7X
MBL 57.14 258 iPd 30 42.00 0.1
KLB 57.39 245 iPd 30 43.60 0.1
NWAO 57.71 244 ePd 30 46.04 0.4
epPc 32 31.99 535kmX
isPc 33 35.55
RKG 57.75 242 eP 30 46.50 0.6
BAL 58.40 246 iPd 30 50.30 -0.1
MUN 58.66 245 iPd 30 52.20 0.1
0.9s 1839.00nm 6.4mb
Z 20s 29.40um 6.4Msz
MRWA 59.19 248 iPd 30 56.00 0.3
DAV 61.46 291 eP+ 31 10.00 -0.6
1.0s 2480.00nm 6.6mb
e 38 48.80
e 40 10.00
MKS 61.96 275 iPd 31 14.00 0.1
CSY 63.39 205 iPc 31 24.20 1.9
0.5s 232.30nm 5.9mb
iPP 33 20.80
eS 39 13.20
TSM 67.09 284 ePc 31 47.50 1.4
1.1s *******nm 7.5mb X
TRT 67.50 270 iPd 31 50.50 1.8
0.8s 547.10nm 6.1mb
SPA 69.25 180 iPc 31 58.60 0.0
1.0s 376.00nm 5.9mb
Z 18s 3.38um 5.6Msz
i 40 21.20
KKM 69.32 285 ePd 32 00.20 0.5
e 32 16.50 59kmX
MAJO 70.19 324 iPd 32 03.78 -0.5
epPd 34 01.65 571kmX
isPc 34 58.59
iS 40 30.61
eScS 41 14.76
MAT 70.19 324 iPd 32 03.60 -0.7
1.6s 1866.67nm 6.4mb
eS 40 31.00
BAG 70.25 297 iPd- 32 04.20 -1.0
e 34 02.00 571kmX
e 34 45.10
eS 40 32.00
ADK 72.46 1 iPd 32 16.20 -0.8
SMY 73.57 355 ePd 32 22.60 -0.7
YSS 76.05 334 iPd 32 38.00 0.8
iS 41 32.00
QZH 76.16 304 iPd 32 39.40 1.1
5.0s *******nm 7.0mb X
sP 35 33.00
S 41 31.00
ScS 41 58.00
SDN 77.47 10 iPd 32 44.00 -0.6
1.0s 2743.90nm 6.6mb
SEO 77.46 319 P 32 38 00 -7.1X
SSE 77.51 310 iPd 32 45.00 -0.4
8.0s *******nm 6.3mb X
ScS 42 04.00
SYP 78.33 46 eP 32 57.00 7.0X
e 34 55.00 551kmX
HKC 78.38 299 iP 32 51.90 1.6
eS 42 02.40
SCI 78.43 48 eP 32 52.70 2.4
SBC 78.46 46 ePd 32 51.45 1.0
epPc 34 50.64 558kmX
esPc 35 48.90
iS 42 04.35
esS 45 29.61
PRS 78.47 44 iPd 32 51.61 1.1
GCC 78.49 43 iPd 32 51.50 1.0
PCC 78.53 42 iPd 32 51.59 0.9
BCH 78.64 45 P 32 52.70 1.2
pP 34 57.00 589kmX
SAO 78.68 43 eP 32 52.67 1.1
PRI 78.82 44 eP 32 53.88 1.4
BRK 78.83 42 iPd 32 54.00 1.7
epP 34 52.00 550kmX
esP 35 50.00
ePPP 38 40.00
eSKS 42 06.00
eS 42 48.00
BKS 78.85 42 iP 32 53.40 1.0
0.8s 659 00nm 6.1mb

epP 34 03.88 302kmX
esP 35 42.00
eSKS 42 10.40
eS 42 47.20
esS 45 39.60
esSP 46 23.20
ZSP 78.88 42 eP 32 54.43 1.9
MHC 78.90 43 iPd 32 55.21 2.3
0.9s 629.00nm 6.0mb
LLA 78.92 44 eP 32 53.94 1.1
ARN 78.98 43 P 32 53.60 0.5
pP 34 58.00 588kmX
PAS 79.34 47 iPd 32 56.00 0.9
epP 34 57.00 567kmX
epPcP 35 01.00
esP 35 51.00
iScP 35 59.00
esPP 38 48.00
iS 42 14.00
eSP 43 01.00
epScS 44 45.00
esScS 45 42.00
esSP 46 34.00
esSS 50 36.00
eLg 54 28.00
CPE 79.39 49 eP 32 57.80 2.5X
FOX 79.42 39 iPd 32 57.01 1.8
GZH 79.42 300 iPd 32 57.30 1.6
7.0s *******nm 6.6mb X
pP 34 56.00 553kmX
sP 35 58.00
S 42 13.00
MWC 79.47 47 eP 32 57.00 1.1
e 34 58.00 567kmX
BAR 79.58 49 eP 32 57.00 0.6
e 34 59.00 573kmX
FHC 79.60 39 iPd 32 57.66 1.4
NJ2 79 69 310 iPd 32 57.50 0.6
1.2s 1500.00nm 6.3mb
iS 42 15.00
iSKS 42 20.00
RVR 79.81 48 iPd 32 58.00 0.5
e 35 02.00 584kmX
PLM 79.81 49 iPd 32 59.00 1.2
SBB 79.88 47 eP 32 59.00 1.0
e 35 01.00 572kmX
PEC 79.90 48 ePd 32 58.50 0 5
pP 35 00.40 571kmX
SKS 42 19.00
FRI 79.94 44 iPd 32 58.93 0.9
IKP 79.96 49 eP 33 01.00 2.6X
ISA 79.99 46 iPd 32 59.74 1.2
CMB 80.11 43 iPd 32 59.40 0.3
ipPc 34 58.59 555kmX
isPc 35 56.20
iS 42 19.39
esS 45 47.56
PFO 80.24 48 iPd 33 01.41 1.5
ipPd 35 00.60 554kmX
isPc 35 58.87
iS 42 23.39
e 42 43.42
WDC 80.32 40 iPd 33 00.96 1 0
ORV 80.32 41 iPd 33 00.80 0.7
OIZ 80.51 295 iPd 33 03.00 1.6
8.0s 9800.00nm 6.3mb X
sP 36 04.00
S 42 24.00
MDJ 80.51 325 iPd 33 01.50 0.6
7.0s *******nm 6.7mb X
iS 42 24.00
CLC 80.67 46 eP 33 02.00 0.0
e 35 05.00 576kmX
CWC 80.70 45 eP 33 04.00 1.7
MIN 80.74 40 iPd 33 02.71 0.3
AIA 80.84 157 eP 33 06.20 3.9X
HAY 80.86 49 eP 33 06.70 3.7X
GSC 80.92 47 eP 33 03.00 -0.3
e 35 06.00 576kmX
MAW 81.02 200 iPd 33 05.60 2.4
1.1s 230.00nm 5.6mb
i 35 10.00 584kmX
i 53 42.00
GLA 81.09 50 eP 33 05.00 0.8
e 35 08.00 575kmX
KDC 81.30 14 ePd 33 05.00 0.4
e 35 10.60 590kmX

30d 00h

BONR	81 41	44	P	33 06.50	0.5				ePSP	33 49.00					iSSS	53 47.00						
			pP	35 10.30	579kmX				e	34 02.00								SES	92.50	36	iPd	33 58.30	0.1
KLM	81.55	277	ePd	33 07.50	0.6				e	34 13.00									0.9s	332.00nm			6.4mb
DL2	81.63	317	iPd	33 07.00	0.3				e	34 27.00				LZH	92.56	308	iPd	34 00.83	1.9
	7.0s	********	nm		6.6mb X				e	34 36.00							epPd	36 05.97	570kmX
			S	42 29.00					e	34 44.00							isPc	37 00.27	
SNY	82.14	320	iPd	33 09.00	-0.2				ipP	35 44.00	573kmX						ePP	37 46.02	
	7.0s	********	nm		6.5mb X				e	36 16.00							eHPP	37 47.01	
WHN	82.22	307	iPd	33 11.00	1.2				e	36 24.00							SKS	43 37.00	
	4.0s	********	nm		6.8mb X				e	36 40.00							S	44 12.00	
			iS	42 36.00					e	36 46.00							SS	50 47.00	
CN2	82.26	323	iPd	33 10.00	0.2				e	36 51.00				RSSD	93.81	44	ePd	34 03.90	-0.7
	5.0s	********	nm		6.6mb X				ePP	37 19.00					0.8s	106.17nm			6.0mb	
			pP	35 12.00	567kmX				e	37 30.00				MEO	93.88	54	iPd	34 05.00	0.2
			sP	36 10.00					e	37 47.00				ACO	94.19	52	iPd	34 08.30	2.1
COR	82.38	36	iPd	33 11.45	1.2				e	37 51.00				INK	94.78	15	ePd	34 07.10	-1.0
			epPc	35 12.62	562kmX				e	37 57.00					1.1s	178.00nm			6.2mb	
			isPc	36 09.90					e	38 13.00							pP	36 18.00	602kmX
			iS	42 41.86					e	38 20.00				ZON	95.02	126	e(P)	34 10.00	-0.3
			isS	46 22.44					e	38 40.00							e	38 10.00	
IPM	82.67	278	ePd	33 13.90	1.4				e	39 02.00				SIO	95.96	54	eP	34 15.70	1.5
			e	33 31.00	61kmX	KHT	88.67	286	iPd	33 43.60	2.4			TUL	96.41	54	eP	34 17.10	0.9
			e	42 41.00		HIA	88.68	325	iPd	33 40.65	0.1				0.6s	14.10nm			5.4mb	
PDB	82.82	12	P	33 14.50	2.3				epPd	35 45.79	573kmX			NNA	96.50	105	iPc	34 08.00	-9.1X
MZX	82.83	62	(P)	33 14.00	0.9				esPc	36 44.39					1.2s	34.38nm			5.5mb	
TIA	83.12	313	Pd	33 14.90	0.6				ePP	37 16.07				GTA	96.78	309	iPd	34 18.40	0.4
	7.0s	********	nm		6.6mb X				iS	43 41.08					8.0s	3100.00nm			6.7mb X	
CGX	83.84	66	(P)	33 20.00	1.6				esS	47 23.73				YKA	97.08	25	P	34 17.90	-0.7
PSI	83.94	275	ePd	33 19.50	0.7	IMA	88.71	10	ePd	33 40.60	0.1				0.9s	42.00nm			5.8mb	
			e	36 43.50					epP	35 48.40	589kmX			IRK	98.70	323	ePd	34 24.60	-1.6
			e	42 47.50		COL	88.73	13	iPd	33 39.78	-0.7						e	34 40.00	
			e	47 50.00					epPd	35 45.92	579kmX						epP	34 58.50	131kmX
VGB	84.36	37	P	33 20.10	-0.1				isPc	36 42.20							ePP	37 28.00	
LON	84.55	35	iPd	33 21.32	0.2				iS	43 34.92							e	38 19.50	
			ipPc	35 23.49	564kmX	FBA	88.73	13	ePd	33 39.90	-0.6						e	38 35.50	
			isPc	36 21.43					epP	35 46.70	583kmX						e	38 53.50	
PGC	84.88	33	ePd	33 22.80	0.3				e	43 36.80							ePPP	39 30.00	
	1.0s	350.00nm			5.9mb	IISM	88.82	69	(P)	33 43.50	1.7						e	40 10.00	
TTA	85.41	10	ePd	33 25.30	0.3	SNA	89.02	179	iPc	33 42.90	1.0						e	40 37.00	
	1.7s	1562.60nm			6.4mb		1.0s	444.00nm			6.3mb						e	41 18.00	
PMR	85.51	14	iPc	33 24.00	-1.3	KMI	89.03	297	iPd	33 45.17	2.2						iS	44 08.00	
			pP	35 35.00	614kmX		2.5s	1800.00nm			6 6mb						e	45 04.00	
			SKS	42 59.00					epPd	35 47.34	556kmX						e	47 48.00	
SIT	85.68	22	ePd	33 27.20	1.0				esPc	36 46.60							eSS	50 10.00	
	1.7s	849.20nm			6.2mb				ePP	37 23.74							e	51 50.00	
AGX	85.72	65	(P)	33 28.50	1.3				eHPP	37 24.24				ARE	99.44	112	eP	34 33.00	2.3
MSU	85.77	46	P	33 28.10	0.7				iS	43 48.03					1.0s	80.00nm			6.1mb	
			pP	35 33.00	577kmX				esS	47 44.13				LSA	100.27	298	Pdiff	34 32.00	-2.4X
BJI	85.77	316	iPd	33 27.98	0.9	HHC	89.22	315	Pc	33 44.60	1.2			LPA	100.96	134	ePdiff	34 36.00	-0.7
			epPd	35 32.13	573kmX		4.0s	8800.00nm			7.0mb X						epP	36 43.00	
			esPc	36 26.43					ScS	43 47.00							esP	37 41.00	
			iS	43 17.50		LRM	89.35	40	iPd	33 44.30	0.2						iSKS	44 19.20	
MRX	85.79	67	(P)	33 29.00	1.5				e	35 50.80	580kmX						eSP	47 02.00	
ACX	85.83	70	(P)	33 29.00	1.2	BW06	89.62	43	iPd	33 44.70	-0.7			UPA	101.56	85	iPdiff	34 40.00	0.2
GYA	86.35	300	iPd	33 31.00	0.6		1.0s	201.67nm			6.0mb			ZOBO	102.44	113	ePdiff	34 42.79	-1.6X
	4.0s	********	nm		6.9mb X				pP	35 50.30	575kmX						ipPc	36 49.59	
			pP	35 34.00	565kmX				PP	37 23.80							ePP	39 03.65	
			sP	36 34.00					SKS	43 20.50							eHPP	39 04.14	
			sS	47 00.00		CHTO	89.85	290	iPd	33 48.20	1.6			MBC	103.27	12	ePdiff	34 45.00	-1.0
III	86.76	69	(P)	33 34.00	1.5				epP	35 56.00	587kmX				0.9s	30.00nm			6.0mb	
TIY	87.12	312	iPd	33 34.60	0.9	LVVM	89.91	69	(P)	33 47.00	0.2			CCH	103.64	115	Pdiff	34 53.50	4.1X
	1.4s	1400.00nm			6.5mb	CD2	90.53	303	iPd	33 50.80	1.3			GUN	104.16	295	Pdiff	34 51.94	0.4
			pP	35 38.00	566kmX		7.0s	8100.00nm			6.8mb X			PKI	104.47	294	Pdiff	34 52.70	-0.2
			sP	36 40.00					ipP	35 55.50	569kmX				1.0s	142.00nm			6.7mb	
PNT	87.28	34	iPd	33 35.00	0.9				isP	36 51.00				KKN	104.64	294	Pdiff	34 53.74	0.2
UNM	87.38	68	(P)	33 36.50	1.0				iPP	37 34.00					0.8s	78.00nm			6.6mb	
PPM	87 76	69	(P)	33 39.00	1.4				iSKS	43 24.50				DMN	104.74	294	Pdiff	34 54.22	0.2
XAN	87.92	308	iPd	33 38.60	1.1				iS	44 01.40					0.8s	118.00nm			6.8mb	
	6.0s	********	nm		6.9mb X				sS	47 34.00				GKN	105.25	294	Pdiff	34 55.80	-0.3
			pP	35 44.00	576kmX	GOL	90.98	48	iPd	33 52.50	0.8				0.7s	73.00nm			6.6mb	
			SKS	43 10.00			1.2s	188.52nm			6 0mb			KOD	106.52	275	ePdiff	35 06.60	4.4X
			sS	47 14.00					pP	35 58.00	573kmX			WMO	106.76	311	ePdiff	35 02.72	0.4X
NEW	88.00	36	iPd	33 37.30	-0.2				S	45 18.00							epPd	37 07.87	
	1.0s	230.00nm			6.0mb	GLD	91.11	48	ePd	33 53.80	1.6						esP	38 05.80	
			pP	35 43.00	578kmX		1.2s	282.83nm			6 2mb						eHPP	39 32.02	
IIT	88.02	69	(P)	33 39.50	1.0				(pP)	35 58.00	565kmX						ePP	39 32.35	
ALO	88.07	51	iPc	33 39.20	0.8				PP	37 39.20				GBA	107.60	278	Pdiff	35 11.00	4.4X
	1.0s	325 00nm			6.1mb	YAK	92.23	338	iPd-	33 55.50	-1.1				1.0s	10.90nm			5.7mb	
			ipP	35 45.00	578kmX				iPcP	34 06.00				HYB	107.70	282	ePdiff	35 11.00	3.9X
			esP	37 01.00					epP	36 04 00	589kmX						ePP	39 36.00	
ANMO	88.07	51	iPd	33 39.77	1.4				iPP	37 42.00							eSKS	44 50.00	
	1.0s	230 00nm			6.0mb				iSKS	43 29.00				SIV	108.58	116	Pdiff	35 11.60	0.6
			ipP	35 44 40	571kmX				iSKKS	43 54.00				TOV	110.91	87	ePdiff	35 25.70	4.3X
			SKS	43 08.00					iS	44 13.00				NDI	111.75	293	iPdiff	35 25.00	0.2
			iS	43 39 99					iPS	46 49.00				NDI	111.75	293	iPKPd	39 18.00	-1.0
			isS	47 21.81					isS	47 35.00					0.6s	90.00nm				
NVL	88.31	183	iPd	33 39 00	0.4				iSS	50 25.00				POO	112.31	282	iPKPd	39 19.70	-0.7

30d 00h

	1.0s	58.00nm								i	03 07.00				0.9s	1103.00nm						
PPD	113.17	127	ePKP	39	22.20	0.2	SHI	133.26	291	e(PKP)	39 41.00	-19.4X	ESK	145.44	5	iPKPd	40	21.00	-0.2			
			e	40	21.20		KRI	133.42	219	iPKPd	40 02.50	1 5			0.9s	536.00nm						
VAO	115.77	130	ePKP	39	28 60	1.6				iPP	42 39.80		KAS	145.87	314	iPKPd	40	22.60	0.1			
BMA	117.95	132	ePKP	39	31.40	0.3				i	48 34.50		DMU	146.43	9	ePKP	40	21.90	-0.9			
			e	40	55.50					i	00 39.10		CLI	146.83	327	ePKP	40	24.00	0.2			
GRW	119.23	87	ePKP	39	46.86	13.1X				i	03 14.70		PPE	146.88	326	ePKPc	40	27.00	3.2X			
SCH	119.34	38	ePKP	39	32.00	-0.7	REY	134.03	14	e(PKP)	40 00.70	0.2	DCN	146.91	10	ePKP	40	22.70	-0.9			
			pP	40	52.00					i	42 38.60		BRN	147.21	347	iPKPd	40	24.30	0.2			
BAO	119.44	123	ePKPd	39	33.00	-1.2	IR4	134.48	299	iPKPd	39 48.00	-14.5X	BBTK	147.24	312	iPKP	40	25.00	0.2			
			e	41	13.00		IR1	134.64	300	iPKPd	39 48.00	-14.8X	VRI	147.57	326	iPKPc	40	23.00	-2.0			
			e	42	14.00		IR7	134.68	300	iPKPd	39 49.00	-13.9X	BRD	147.64	325	iPKPc	40	33.50	8.4X			
PAG	120.28	83	ePKP	39	34.00	-1.7	IR5	134.75	299	ePKP	39 49.00	-14.0X	ADI	147.65	299	iPKPd	40	24.70	-0.8			
FDF	120.43	85	ePKP	39	35.84	-0.1	OBN	136.82	331	ePdiff	37 18.00	2.6	TLB	147.69	323	ePKPc	40	25.00	-0.1			
	0.5s	1.10nm						Z 26s		16.00um		6.6MszX	ETA	147.70	9	ePKP	40	24.10	-0.8			
BIM	120.45	85	ePKP	39	32.70	-3.3X		N 20s		4.00um				0.7s	592.00nm							
MVM	120.62	85	ePKP	39	35.30	-1.0		E 20s		3.50um			AYN	147.71	291	iPKPd	40	24.50	-1.2			
CRM	120.65	85	ePKP	39	36.80	0.5				iP'P'	39 53.00		DSI	147.84	296	iPKPd	40	25.30	-0.5			
QUE	120.83	293	ePdiff	36	08.00	2.7				i	40 05.00		BMR	147.86	331	ePKPc	40	26.00	0.7			
QUE	120.83	293	iPKPd	39	36.60	0.0				epRPKP	41 18.00		WIT	147.86	354	ePKP	40	25.00	-0.1			
			eS	42	10.00					e	41 30.00					id	40	29.50				
GDH	121.50	20	ePdiff	36	10.00	3.0X				e	42 13.00					e	42	46.00				
			i	39	34.00					e	42 26.00		ECP	148.18	9	ePKP	40	23.30	-2.3X			
			i	41	14.00					iPP	42 44.00			1.1s	870.00nm							
			i	44	12.00					i	43 40.00		MLR	148.23	326	ePKP	40	25.00	-1.2			
			i	48	20.00					i	44 52.00		CLL	148.30	346	iPKP	40	25.20	-0.7			
KBS	121.70	358	ePKP	39	35 00	-1.6				iPPP	45 54.00			2.0s	490.00nm							
CER	123.43	198	iPKPc	39	40.00	-1.3				iSKS	46 56.00					i	40	29.00				
			e	41	35 00					iSKKS	48 49.00					i	40	37.20				
TUH	123.53	198	iPKPd	39	41 50	0.1				e	49 15.00					pPKP	42	47.00				
	1.0s	90.00nm								iSP	52 04.00					eSKKS	49	57.00				
			i	41	28.00					iSPP	54 20.00					eSKKP	50	51.00				
FRS	124.65	205	iPKPc	39	43.60	-0.1				iPPS	54 48.00		PRNI	148.38	294	ePKP	40	26.90	0.2			
	0.8s	67.16nm								iSS	00 00.00		BRG	148.48	345	iPKPd	40	25.60	-0.6			
			i	42	06.20		RGS	137.44	354	ePKP	39 56.00	-11.0X				i	40	30.40				
BLF	124.86	207	iPKPd	39	43.50	-0 9	KER	137.68	298	ePKP	39 53.00	-15.6X				ipPKP	42	48.60				
	1.0s	80.00nm					TAB	137.75	304	ePKP	39 57.00	-11.6X				iSKP	43	36.00				
			e	41	46.00					i	40 08.00					i	47	04.00				
SEK	124.92	208	iPKPd	39	45.30	0.8	MOL	138.12	356	ePKP	39 57.91	-10.3X				iSKKS	49	56.00				
	0.7s	30.82nm								i	42 49.19		HOL	148.49	292	iPKPd	40	26.50	-0.4			
			i	42	10.20		ARO	139.24	263	ePKPd	40 02.70	-9.1X	BADA	148.62	291	iPKPd	40	26.00	-1.1			
SLR	126.83	211	ePKP	39	45 60	-2.6X	NB2	139.29	353	PKP	39 58.90	-11.6X	WTS	148.66	354	iPKPd	40	26.00	-0.4			
	1.4s	162.79nm						0.8s	284.60nm					0.8s	614.00nm							
			i	39	57.00		UPP	139.38	347	iPKP	40 02.00	-8.6X				id	40	31.00				
POF	126.93	200	iPKPc	39	49 00	0.9				i	42 51.30					e	42	46.00				
	1.5s	125.00nm								i	43 10.00		DBN	148.70	356	iPKP	40	26.00	-0.4			
			i	41	44.50					i	43 46.00					epP	42	44.00				
MAIO	127 46	300	iPKPd	39	49.50	0 4				i	46 14.00					ePP	43	40.00				
	1.3s	245.10nm								i	46 45.00					ePPP	46	56.00				
			i	41	57.00					i	49 04.00					eS	50	20.00				
NPA	128.44	229	ePKP	40	02.50	11.1X				i	50 20.00					esS	54	00.00				
			e	42	30.10		MJMA	139.55	286	iPKPd	40 05.00	-7.1X				eSS	57	16.00				
KEV	128.73	349	iPKP	39	39 90	-10.4X	HYA	139.61	356	ePKP	40 03.52	-7.4X				eSSS	01	14.00				
			i	39	49.80		SUE	139.79	357	ePKP	40 02.71	-8.5X	GPA	148.70	315	iPKP	40	25.80	-1.1			
			i	42	17.80		BHD	140.05	297	ePKPc	40 04.00	-8.6X	HRT	148.85	316	iPKP	40	24.50	-2.7X			
			e	43	12.00		ASK	140.34	357	ePKP	40 04.86	-7.4X	MTUR	148.87	327	ePKPd	40	27.00	-0.1			
			e	45	00 00					i	42 55.40		BUC	148.87	325	ePKPd	40	26.00	-1.0			
			e	46	04.00		BER	140.43	357	ePKP	40 05.25	-7.2X	BUC1	148.95	325	iPKPd	40	26.00	-1.1			
			e	50	16.00		MSL	140.56	302	ePKP	40 05.50	-8.0X	GBZT	149.01	316	ePKP	40	31.30	4.0X			
			e	52	02 00		KONO	140.83	353	iPKPd	40 03.60	-9.6X	ISK	149.11	317	iPKP	40	25.50	-2.0			
			e	54	00 00		ODD1	140.83	356	iPKP	40 06.76	-6.5X	ITU	149.12	317	iPKPd	40	26.00	-1.5			
			e	58	36.00		ABHA	141.03	273	ePKPd	40 11.50	-3.7X	PSZ	149.17	335	iPKPc	40	26.70	-0.8			
SOB1	128 79	122	ePKP	39	33.10	-19 0X	AFIF	141.37	283	ePKPd	40 11.00	-4.4X	YLV	149.17	316	iPKP	40	26.00	-1.7			
			e	39	51.50		KMY	141.61	357	ePKP	40 09.54	-5.0X	MOX	149.22	347	iPKPd	40	27.00	-0.4			
			e	42	05.70					i	42 59.09					ipPKP	42	52.00				
			e	43	08.40		AAE	142.14	258	ePKP	40 14.70	-2.6X				eSS	02	30.00				
KTK1	130.03	350	ePKP	39	39.66	-13.2X	MUD	144.00	353	iPKPd	40 18.00	-0.7	IZI	149.23	315	iPKP	40	26.50	-1.3			
TRO	130.10	352	ePKP	39	39.43	-13.4X		0.6s	810.00nm				ALT	149.42	313	iPKP	40	33.00	4.8X			
SOD	130.85	347	iPKP	39	37.20	-17.2X				i	42 43.00		NKC	149.43	346	PKP	40	27.50	-0.1			
			i	39	43.60					i	43 06.00					e	40	33.20				
			i	42	25.00		EDU	144.23	4	iPKPd	40 17.70	-1.4	DEV	149.46	330	ePKPd	40	28.00	0.1			
BUL	131 31	215	iPKPd	39	58.70	1.8	ELO	144.25	5	iPKPd	40 17.70	-1 5	CTT	149.47	318	iPKP	40	27.00	-1.0			
	0.8s	3.36nm					BSD	144.33	347	iPKP	40 19.30	0.0	HOF	149.48	347	iPKPd	40	27.10	-0.7			
	Z 19s	13.89um			6.7Msz					i	40 54.00		DMK	149.51	319	ePKP	40	33.10	5.0X			
	N 19s	7.64um								i	43 05.00		BNS	149.63	353	iPKPd	40	27.80	-0.1			
			iPP	42	32.70		KVT	144.44	312	iPKP	40 20.10	0.0		4.0s	4180.00nm							
			i	48	22.40		EAB	144.48	6	iPKPd	40 18.50	-1.1				id	40	33.30				
			i	55	30.60			0.7s	762.00nm				DRA	149.66	327	ePKPc	40	30.00	1.8			
			i	01	35.40		EBH	144.49	5	iPKPd	40 18.50	-1.1	BCK	149.80	310	iPKP	40	27.50	-1.2			
			i	03	37.40			0.8s	1029.00nm				SRO	149.86	337	iPKPc	40	28.20	-0.2			
LOF	132.14	354	ePKP	39	45 31	-11.5X	EDI	144.84	4	iPKPd	40 19.70	-0.5				i	40	33.80				
			i	42	30.00		ESY	144.88	4	iPKPd	40 19.80	-0.5				i	41	51.20				
MTD	132.28	221	iPKPd	39	56.80	-1.9		0.7s	915.00nm				BUD	149 87	336	iPKPc	40	27.60	-0.8			
			iPP	42	18 00		EAU	144.89	5	ePKP	40 20 20	-0 1	ENN	149.96	354	iPKP	40	28.20	-0.2			
			i	42	30.40			0.7s	1128.00nm					0.7s	432.00nm							
			i	52	03.60		GAZ	144.98	305	iPKP	40 20.50	-0.5				id	40	34.20				
			i	00	33 00		EBL	145.00	4	ePKP	40 20.30	-0.2				e	42	51.00				

30d 00h

VKA	150.16	340	iPKPd	40	28.20	-0.6	LJU	152.69	340	ePKPd	40	32.00	-0.6	SFI	155.43	342	PKP	40	35.70	-0.6
	5.0s	9888.00nm								i	40	39.70					e	41	06.20	
			i	40	34.50					e	42	53.50		ARV	155.47	339	PKPd	40	36.10	-0.3
			i	40	44.00		MOF	152.70	352	PKP	40	32.26	-0.4				e	41	06.20	
			ipPKP	42	47.70		FVI	152.72	343	PKP	40	31.30	-1.2	MME	155.50	344	PKP	40	39.80	3.0X
			isPKP	43	52.00		SOH	152.74	322	ePKPc	40	31.26	-1.6				e	41	06.80	
			i	47	22.60		BSF	152.76	352	PKP	40	32.30	-0.5	BNI	155.50	351	PKPd	40	38.90	2.3
			i	50	09.00		KNT	152.78	323	iPKPc	40	31.58	-1.3				e	41	06.20	
KHL	150.17	312	iPKP	40	28.20	-1.1	LPF	152.84	4	ePKP	40	31.80	-0.9	PGD	155.51	342	PKP	40	35.90	-0.8
TNS	150.19	351	iPKPd	40	28.80	-0.1	ZLA	152.86	350	ePKPd	40	32.30	-0.5				e	41	06.40	
			i	40	34.60		VOY	152.90	341	iPKPd	40	32.00	-1.0	RJF	155.64	360	ePKP	40	36.10	-0.5
SRE	150.21	328	ePKPd	40	35.00	6.0X				e	40	39.60			0.9s	88.45nm				
GRF	150.21	347	iPKPd	40	28.90	0.0	OGA	152.92	345	iPKPd	40	32.90	-0.2		Z 22s	6.75um				6.4Msz
			id	40	35.10		VBY	152.92	338	iPKPd	40	32.60	-0.3	BDI	155.65	344	PKP	40	35.10	-1.7
			id	40	43.50					i	40	40.80					e	41	06.20	
			e	42	52.40					i	42	54.50		LBL	155.66	357	PKP	40	37.08	0.3
			e	43	50.00		CEY	153.00	340	iPKPd	40	32.40	-0.6	CRE	155.67	341	PKPd	40	35.40	-1.4
BZS	150.26	331	iPKPc	40	27.00	-2.0	BBS	153.02	351	PKP	40	32.61	-0.4	CKI	155.83	348	PKP	40	37.50	0.6
			e	01	04.00		SKO	153.02	326	iPKPd	40	32.20	-1.0				e	41	05.90	
EDC	150.27	317	iPKP	40	26.50	-2.7X		1.9s	897.00nm					FG3	155.87	333	PKP	40	36.29	-0.8
WET	150.34	345	iPKPd	40	28.90	-0.2				i	40	40.80		BAI	155.93	330	PKP	40	36.00	-1.1
MFT	150.39	318	iPKP	40	27.50	-2.0				i	40	44.60		DOI	155.95	350	PKP	40	37.30	0.1
KGT	150.57	317	iPKP	40	27.50	-2.2				i	40	54.80					e	41	04.60	
ELL	150.59	309	iPKP	40	29.00	-1.0				i	40	56.00		ASS	155.95	339	PKP	40	35.77	-1.4
DOMF	150.75	357	PKP	40	29.50	-0.1				i	41	31.60		BRT	155.96	330	PKPd	40	36.30	-0.9
SSR	150.77	330	ePKPd	40	29.00	-0.9				i	42	54.80					e	41	08.00	
UZD	150.77	335	iPKPc	40	29.10	-0.7				i	43	00.00		LFF	156.00	1	ePKP	40	36.80	-0.3
KMR	151.01	342	iPKP-	40	30.10	0.0				i	43	53.00			1.0s	98.00nm				
			i	40	36.80					i	44	30.60		CAF	156.01	359	ePKP	40	36.70	-0.5
			i	40	48.10					i	47	29.00		LCI	156.02	328	PKPd	40	36.60	-0.6
			ipPKP	43	00.40					i	47	36.00					e	41	07.50	
AGMR	151.08	281	iPKPd	40	30.50	-0.4				i	53	54.00		LPO	156.26	0	ePKP	40	37.20	-0.2
ALN	151.09	319	iPKPc	40	28.62	-1.8				i	54	28.00			1.6s	329.60nm				
KOT	151.15	294	ePKP	40	31.00	0.2				i	56	50.00		AOU	156.33	337	PKPd	40	36.90	-0.8
PDA	151.17	48	iPKPd	40	34.00	3.4X				i	57	51.00					e	41	09.80	
BEO	151.40	331	iPKP	40	28.70	-2.0				i	58	42.00		DUI	156.52	335	PKP	40	36.90	-1.1
			i	40	36.30					i	02	50.00		SBF	156.54	349	ePKP	40	36.70	-1.2
CIN	151.51	312	ePKP	40	31.00	-0.2	THE	153.09	322	ePKPd	40	31.58	-1.7	MNS	156.55	339	PKPd	40	36.60	-1.3
GWF	151.53	351	PKP	40	30.96	0.1	PAIG	153.12	320	iPKPc	40	31.93	-1.4				e	41	10.00	
EZN	151.54	317	iPKP	40	29.70	-1.4	LOMF	153.23	352	PKP	40	32.03	-1.4	FRF	156.96	350	ePKP	40	37.50	-0.8
HLW	151.58	294	iPKPd-	40	32.00	0.5	TRI	153.23	341	ePKPd	40	32.00	-1.3		1.9s	432.80nm				
			ipP	40	44.00					i	40	40.80		CDR	156.98	352	ePKPd	40	34.70	-3.7X
			isP	40	56.00					i	40	55.40					e	40	51.80	
			ePP	43	34.00					e	47	24.00					i	41	12.30	
			ePPP	45	04.00					e	57	38.00					e	43	26.90	
			eS	50	18.00		OSS	153.29	347	ePKPd	40	33.10	-0.5	MAO	157.01	341	PKP	40	38.90	0.5
			ePS	51	04.00		LLS	153.35	348	ePKPd	40	33.30	-0.4				e	41	11.60	
			eSS	55	46.00		RIY	153.36	339	iPKPd	40	32.70	-0.8	RMP	157.05	338	PKP	40	38.20	-0.3
YER	151.59	311	iPKP	40	29.80	-1.6	VVI	153.38	343	PKP	40	33.38	-0.2				e	41	10.80	
BHG	151.66	344	iPKPd	40	30.40	-0.7	CTI	153.53	344	PKPd	40	32.90	-1.0	SGO	157.09	332	PKPd	40	37.30	-1.2
			i	40	38.00					e	40	57.20					e	41	11.60	
			i	40	49.30		LOR	153.60	356	ePKP	40	33.20	-0.6	RDP	157.09	338	PKP	40	38.00	-0.6
STR	151.89	351	PKP	40	31.22	-0.1		0.9s	89.60nm								e	41	12.60	
KBA	152.12	342	iPKPd	40	30.50	-1.5		Z 21s	6.25um				6.4Msz	LRG	157.11	351	ePKP	40	37.90	-0.6
	2.0s	348.00nm					GRC	153.61	357	PKP	40	34.05	0.3		1.8s	457.45nm				
			i	40	38.20		VDL	153.62	347	ePKPd	40	34.00	-0.1		Z 22s	6.25um				6.4Msz
			i	40	49.30		LIT	153.71	321	ePKPd	40	32.26	-1.9	LMR	157.21	350	ePKP	40	37.80	-0.8
			ipPKP	43	03.80		SSF	153.82	357	ePKP	40	33.60	-0.5		1.7s	338.20nm				
			i	43	17.00		LBF	153.87	356	ePKP	40	33.40	-0.8	CSI	157.26	329	PKP	40	37.50	-1.3
			iPP	44	21.10		FNA	153.89	324	ePKPc	40	33.50	-0.9	ROI	157.28	328	PKP	40	38.10	-0.8
CDF	152.13	352	PKP	40	30.96	-0.9	OHR	153.97	325	iPKPd	40	33.30	-1.2	MMN	157.31	330	PKP	40	37.40	-1.4
FLN	152.14	3	ePKP	40	30.80	-0.9		2.1s	1319.00nm					MGR	157.32	331	PKPd	40	37.30	-1.6
	0.9s	127.95nm								i	40	42.10					e	41	12.80	
	Z 21s	5.50um				6.3Msz				i	40	58.20		TDS	157.33	329	PKP	40	29.84	-9.0X
BST	152.29	8	PKP	40	32.40	0.5				i	43	00.70		TDS	157.33	329	PKP	40	38.40	-0.5
LDF	152.32	2	ePKP	40	31.00	-1.0	AVF	154.10	357	ePKP	40	33.60	-0.8				e	41	14.20	
	1.0s	118.00nm						1.7s	235.25nm					PGF	157.47	345	ePKP	40	37.90	-1.2
ECH	152.33	352	PKP	40	31.39	-0.7	TMA	154.10	348	ePKPd	40	34.20	-0.5	ACI	157.63	329	PKP	40	38.60	-0.6
LIBD	152.34	351	PKP	40	31.64	-0.3	SAL	154.22	345	PKP	40	34.40	-0.2	BTH	157.78	3	PKPc	40	39.00	-0.3
WATA	152.35	345	iPKPd	40	31.30	-1.0				e	41	00.00					e	40	52.00	
	1.8s	508.00nm					SMF	154.22	356	ePKP	40	33.70	-0.9				iPKPab	41	14.00	
			i	40	39.20		MFF	154.31	2	ePKP	40	34.20	-0.5				i	41	31.50	
			i	40	53.00			1.1s	127.00nm								e	42	13.00	
WTTA	152.40	345	iPKPd	40	31.60	-0.8	MMK	154.32	349	ePKPd	40	35.30	0.2				i	42	34.00	
	1.8s	577.00nm					BGF	154.36	358	ePKP	40	34.20	-0.6				i	42	59.00	
			i	40	39.60		DIX	154.38	350	ePKPd	40	35.50	0.3				e	43	14.00	
			i	40	53.10		HVAR	154.45	334	iPKPd	40	34.20	-0.8				e	44	12.00	
			ipPKP	42	58.90					i	40	43.20					ePP	44	55.50	
			iPP	44	24.80		EMS	154.47	351	ePKPd	40	35.40	0.2	EPF	157.89	2	ePKP	40	39.00	-0.5
SRS	152.42	322	ePKPd	40	29.82	-2.5X	AGG	154.50	320	iPKPd	40	34.06	-1.2		1.6s	291.50nm				
VITF	152.48	353	PKP	40	31.88	-0.3	TCF	154.65	359	ePKP	40	24.60	-10.6X	LESF	157.91	0	PKP	40	39.66	0.2
GRR	152.49	3	ePKP	40	31.50	-0.7	LSF	154.69	360	ePKP	40	34.40	-0.9	GRI	157.94	327	PKP	40	30.57	-9.1X
	0.9s	117.95nm					MAF	154.70	358	ePKP	40	34.80	-0.5	MLS	157.98	1	PKP	40	39.17	-0.4
FEL	152.54	350	PKP	40	31.97	-0.5	AGO	154.85	357	PKP	40	35.55	0.0	MTHF	157.98	358	PKP	40	39.64	0.1
SLE	152.57	350	ePKPd	40	31.60	-0.8	PLDF	154.91	356	PKP	40	35.75	0.1	PTO	158.09	21	ePKP	40	34.20	-5.5X
HAU	152.64	353	ePKP	40	31.60	-0.9	PYM	155.16	357	PKP	40	35.94	-0.1	GRBF	158.10	360	PKP	40	39.06	-0.7
	1.7s	264.70nm					COLF	155.35	356	PKP	40	36.43	0.2	ENSF	158.12	2	PKP	40	40.76	0.9

SALF	158.18	0	PKP	40	40.41	0.6	MMCZ	26.01	200	P	47	13.80	-0.8	ZSP	79.00	42	eP	53	30.97	0.9
PERF	158.42	357	PKP	40	39.53	-0.5	MHZ	26.02	200	P	47	14.00	-0.7	MHC	79.03	43	iPd	53	31.45	1.1
TRGS	158.43	359	PKP	40	40.11	-0.2	SBCZ	26.04	200	P	47	14.10	-0.7		0.9s	155.00nm				5.5mb
SOI	158.69	327	PKPd	40	39.60	-0.8	LSCZ	26.04	199	P	47	14.20	-0.6	LLA	79.04	44	iPd	53	31.21	0.9
			e	41	17.40		TLC	26.20	200	P	47	15.80	-0.5	ARN	79.10	43	P	53	31.50	0.9
ATN	158.92	328	PKP	40	39.20	-1.5	TUZ	26.72	198	P	47	21.50	0.9	ABL	79.15	46	P	53	31.60	0.4
			e	41	18.50		BRS	26.76	251	iPd	47	22.60	1.4	PKEM	79.26	45	P	53	32.90	1.4
USI	159.54	333	PKP	40	41.10	-0.2		1.3s	40.50nm				4.9mb	PAS	79.47	47	eP	53	33.00	0.4
			e	41	22.10		BCZ	27.32	201	P	47	27.00	1.2	FOX	79.54	39	iPd	53	34.44	1.7
GIO	159.56	327	PKP	40	42.88	1.5	SIZ	28.00	199	P	47	32.80	1.1	MWC	79.59	47	eP	53	34.00	0.5
MEU	160.01	327	PKP	40	42.60	0.6	COO	28.09	244	iPc	47	37.00	4.2X	NJ2	79.65	310	iPd	53	34.00	0.5
			e	41	25.60		CNB	31.43	236	iPd	47	59.60	-1.6		1.0s	100.00nm				5.2mb
EBR	160.10	2	ePKP	40	42.00	0.2		0.1s	51.00nm				6.1mb	BAR	79.71	49	eP	53	34.00	0.1
			e	41	25.00		CAN	31.71	236	iPc	48	05.30	1.8	FHC	79.72	39	eP	53	34.51	0.7
			e	42	04.00					ePP	49	38.10		RVR	79.93	48	eP	53	35.00	0.0
			e	44	36.00					iScP	53	29.00		PLM	79.94	49	iP+	53	35.00	-0.3
			e	48	12.00		BWA	31.90	238	iPc	48	04.70	-0.4	SBB	80.01	47	iP+	53	36.00	0.5
TOL	160.49	13	iPKPd	40	43.76	1.4				ePP	49	41.10		PEC	80.03	48	ePd	53	35.50	-0.1
			ePKPab	41	26.96		CTAO	32.78	265	iPc	48	14.00	1.4	FRI	80.06	44	iPd	53	36.17	0.6
			ePKP'ab	41	27.63		CMS	33.37	244	iP	48	19.20	1.8	CMB	80.24	43	iPd	53	37.21	0.6
			ipP'df	42	58.51		OLP	34.29	253	iPc	48	26.50	1.3				epP	55	43.30	596kmX
			eSKP	44	22.75		TOO	35.10	234	iPc	48	30.00	-1.8	WDC	80.44	40	iPd	53	38.29	0.8
			ePP	45	07.44			1.0s	171.00nm				5.6mb	ORV	80.45	41	P	53	37.50	0.0
			eHPP	45	08.54		TAU	35.84	225	eP	48	40.00	2.3	CLC	80.79	46	iPd	53	39.00	-0.5
LIC	164.15	156	PKP	40	45.38	-1.2				eS	52	08.00		CWC	80.82	45	eP	53	39.00	-0.8
	0.9s	73.50nm					STK	37.00	245	iPc	48	52.60	5.2X	AIA	80.83	157	eP	53	44.10	5.0X
KIC	164.39	157	PKP	40	46.42	-0.4		1.1s	56.80nm				5.1mb	MIN	80.86	41	iPd	53	39.88	0.0
	0.9s	79.50nm								eS	58	00.10		GSC	81.05	47	iP+	53	41.00	0.2
TIC	164.54	155	PKP	40	45.82	-1.2	BFD	37.24	236	eP	48	50.00	0.7	GLA	81.22	50	iPd	53	42.00	0.3
	0.8s	62.00nm								i	50	53.00		KDC	81.39	14	P	53	41.30	-0.6
AVE	165.36	31	iPKP	40	48.50	1.4				e	53	45.70		BONR	81.53	44	P	53	44.00	0.5
			i	41	49.50		MCO	37.54	201	iPc	48	54.80	3.4X	CN2	82.24	323	Pd	53	46.40	-0.1
IFR	166.14	23	iPKPd	40	50.50	2.5		0.8s	204.00nm				5.8mb		1 2s	100.00nm				5.2mb
			i	40	53.00		MDG	37.81	289	eP	48	54.90	0.8	KVN	82.29	43	P	53	47.30	0.2
			i	41	03.00		OIS	38.90	263	iPc	49	03.10	0.1	PDB	82.90	12	P	53	53.00	3.5X
			i	41	26.00		JAY	43.55	289	ePd	49	40.00	0.0	TIA	83.08	313	eP	53	51.40	0.5
			i	41	55.00			0.2s	80.00nm				5.9mb	BMW	83.73	35	P	53	54.70	0.7
TIO	167 32	36	iPKP	40	50.00	1.1	ASPA	43.77	257	iPc	49	42.30	0.7	RSO	83.81	13	eP	53	52.80	-1.4
			i	41	58.00			0.8s	169.20nm				5.6mb	SHW	84.09	36	P	53	56.70	0.9
S.D. = 1.0 on 452 of 543 obs.										e	51	15.00		SLKM	84.39	14	eP	53	56.00	-0.9
---										e	53	31.20		VGB	84.48	37	P	53	57.40	-0.2
SEP 30, 1991 00h 42m 25.31± 0 29s										e	54	14.10		LON	84.66	35	P	53	58.50	0.0
20.941 S ± 2.7km 178.713 W ± 3.5km										e	55	08.20		PGC	84.99	33	ePd	54	00.40	0.5
DEPTH = 590.6 ± 3.6 km										iS	55	30.00			0.9s	96.00nm				5.4mb
5.6mb (40 obs.)										iScS	58	37.90		RMW	85.10	35	P	54	01.00	0.4
FIJI ISLANDS REGION (181)							KKH	46.07	30	eP	49	57.60	-1.5	MCW	85.33	33	P	54	02.20	0.6
mb 6.1 (BRK).							DHH	46.66	27	P	50	04.00	0.4	TTA	85.49	10	ePd	54	02.30	0.1
							OPA	46.95	27	P	50	03.90	-1.9		1.2s	147.90nm				5.5mb
SVA	3.88	316	eP	43	49.00	-0.7	FORR	48.47	247	iPc	50	17.40	0.2	PMR	85.60	14	ePd	54	02.40	-0.2
VUN	3.95	317	ePc	43	49.50	-0.7		0.4s	84.00nm				5.6mb		1.1s	169.90nm				5.6mb
SGE	4.61	316	iP	43	55.60	0.4	MTN	48.50	271	iPc	50	17.20	-0.5	BJI	85.74	316	P	54	04.00	0.3
MBU	4.63	328	iPc	43	55.10	-0.2	GUA	49.51	311	iPd	50	24.30	-0.7		1.6s	140.00nm				5.4mb
			eS	45	08.00			1.0s	680.00nm				6.1mb	SIT	85.78	22	P	54	02.70	-0.8
NDF	4.81	311	eP	43	53.80	-2.8X	GUMO	49.58	311	iP	50	24.60	-0.9		1 0s	70.00nm				5.3mb
PVC	12.65	282	iPc	45	06.50	-4.0X		1.0s	560.00nm				6.0mb	MSU	85.89	46	eP	54	05.60	0.8
DZM	13.86	263	iPc	45	23.90	1.4	PJG	49.58	311	iPd	50	24.80	-0.7	KLU	86.26	15	P	54	04.70	-1.2
			iS	47	55.40		KNA	49.94	267	eP	50	28.20	0.0	DUG	86.33	44	P	54	06.60	-0.2
WCZ	16.13	201	P	45	49.00	4.6X	COOL	54.44	246	eP	51	00.00	-0.4	TOA	86.73	15	ePd	54	08.30	0.2
KUZ	16.48	196	P	45	51.30	3.6X	MBL	57.01	258	eP	51	18.00	-0.2	BALM	86.79	17	eP	54	08.40	-0.1
HBZ	16.80	188	P	45	51.10	0.3		0.4s	29.00nm				4.9mb	HVU	87.18	43	P	54	11.20	0.4
WLZ	17.55	195	P	46	01.40	3.4X	KLB	57.26	245	eP	51	20.00	0.2	DPW	87.30	36	P	54	11.10	0.0
URZ	17.63	191	P	45	57.60	-1.1	NWAO	57.58	244	eP	51	23.00	1.1	PNT	87.39	34	iPd	54	12.40	1.0
			S	48	48.90		RKG	57.62	242	eP	51	23.00	0.8		0.9s	191.00nm				5.9mb
NOZ	17.84	188	eP	46	01.90	1.2	BAL	58.27	246	eP	51	26.50	-0.1	DAU	87.47	45	P	54	12.70	0.3
MOZ	18.38	196	P	46	08.50	2.8X	MUN	58.53	245	eP	51	29.00	0.6	PV09	87.96	47	ePd	54	15.00	0.3
NGZ	18.82	194	P	46	10.40	0.4	MRWA	59.06	248	eP	51	32.00	0.1	HPI	87.98	41	P	54	15.50	0.8
RUZ	18.83	194	P	46	10.10	0.1	CSY	63.29	205	iPd	52	00.50	1.8	PTI	88.00	42	P	54	15.30	0.7
BSZ	19.57	195	P	46	17.60	0.9		0.8s	71.80nm				5.2mb	NEW	88.12	36	iPd	54	14.60	-0.3
PGZ	20.07	191	P	46	20.20	-1.2	MAT	70.17	324	iPd	52	40.20	-0.9		0.9s	78.95nm				5.6mb
	0.4s	116.00nm				5.9mb		1.4s	151.16nm				5.3mb	ALQ	88.20	52	eP	54	15.80	0.1
MNG	20 23	193	P	46	21.90	-0.9	ADK	72.53	1	eP	52	53.20	-1.2		1.0s	70.00nm				5.5mb
	0.2s	54.00nm				5.8mb		0.8s	294.70nm				5.9mb				epP	56	26.00	604kmX
			eS	49	31.50		SMY	73.62	355	eP	52	59.50	-1.0	ANMO	88.20	52	ePd	54	15.90	0.2
WEL	21.02	194	P	46	30.00	0.0		0.9s	404.00nm				6.0mb		1.0s	76.25nm				5.5mb
			S	49	45.00		QZH	76.10	304	Pd	53	15.50	0.7	NVL	88.24	183	Pd	54	16.00	0.9
THZ	21.94	197	P	46	38.10	-0.3		1.3s	100.00nm				5.2mb				e	54	24.00	
			eS	49	59.00		SSE	77.46	310	Pd	53	22.00	-0.1				e	54	37.00	
DSZ	22.24	199	eP	46	40.60	-0.5		1.0s	37.00nm				4.8mb				e	56	26.00	
KHZ	22.38	195	Pc	46	41.80	-0.5	SDN	77.55	11	eP	53	21.00	-1.0	IMA	88.79	10	ePd	54	17.80	0.1
LTZ	23.06	197	P	46	47.10	-1.3	SYP	78.46	46	eP	53	28.00	0.5		0.9s	68.50nm				5.6mb
WVZ	23.77	199	P	46	54.70	-0.1	PRS	78.60	44	iPd	53	29.07	1.1	FBA	88.81	13	ePd	54	17.10	-0.5
MQZ	23.82	196	P	46	54.30	-0.8	GCC	78.61	43	iPd	53	28.85	0.8		0.9s	257.10nm				6.1mb
EWZ	24.13	199	P	46	57.80	-0.1	PCC	78.65	42	iPd	53	28.97	0.8	KMI	88.96	297	P	54	21.00	1.6
BWZ	25.35	199	P	47	07.10	-1.6	BCH	78.77	45	P	53	29.60	0.5	LRM	89.48	40	eP	54	21.50	0.1
ODZ	25 60	198	P	47	10.20	-0.6	SAO	78.81	44	eP	53	29.54	0.5	BW06	89.75	43	ePd	54	22.10	-0.6
LRCZ	26.00	200	P	47	13.90	-0.7	PHAM	78.94	45	P	53	30.10	0.3		1.0s	95.00nm				5.7mb
MSCZ	26.01	199	P	47	13.70	-0.8	PRI	78.94	44	iPd	53	31.08	1.1	GOL	91.11	48	iPd	54	29.20	0.1

30d 00h

0.8s 24.55nm 5.3mb
GLD 91.23 48 ePd 54 30.00 0.4
1.0s 80.00nm 5.7mb
SES 92.62 36 iPd 54 35.70 0.2
1.2s 307.00nm 6.2mb
RSSD 93.93 44 ePd 54 41.20 -0.7
0.8s 33.05nm 5.6mb
INK 94.87 15 eP 54 44.00 -1.3
1.1s 52.00nm 5.7mb
YKA 97.19 25 eP 54 55.10 -0.8
0.8s 9.40nm 5.2mb
BNH 116.68 50 ePKPd 00 04.00 -0.6
FRB 117.49 28 ePKP 00 04.00 -1.4
SCH 119.46 38 ePKP 00 09.00 -0.5
OUE 120.75 293 iPKP 00 13.80 0.8
MAIO 127.39 300 iPKPd 00 25.50 0.0
1.0s 17.50nm
KEV 128.77 349 ePKP 00 19.00 -7.9X
1.0s 46.00nm
i 00 26.00
SOD 130.89 347 iPKP 00 28.70 -2.3
KAF 135.39 344 ePKP 00 29.30 -10.4X
0.6s 34.90nm
OBN 136.82 331 iPKPc 00 42.00 -0.6
1.2s *******nm
NUR 137.17 343 ePKP 00 31.00 -12.1X
0.8s 55.70nm
i 00 42.00
TAB 137.69 304 ePKP 00 35.00 -10.0X
e 00 45.00
NB2 139.33 353 PKP 00 37.70 -9.4X
0.8s 20.10nm
HFS 139.86 350 ePKP 00 39.70 -8 3X
0.4s 21.20nm
MUD 144.05 353 iPKPd 00 54.30 -1.0
1.0s 320.00nm
EDU 144.30 4 iPKPd 00 54.70 -1.1
0.8s 543.00nm
ELO 144.33 5 iPKPd 00 54.80 -1.1
1.0s 258.00nm
KVT 144.40 312 iPKP 00 57.10 0.5
EAB 144.55 5 iPKPd 00 55.60 -0.6
EBH 144.56 5 iPKPd 00 55.80 -0.5
EDI 144.91 4 iPKPd 00 56.40 -0.4
ESY 144.95 4 iPKPd 00 56.70 -0.2
EAU 144.97 5 ePKPd 00 56.80 -0.2
0.7s 195.00nm
EBL 145.07 4 ePKPd 00 57.40 0.3
0.9s 178.00nm
ESK 145.51 5 ePKPd 00 58.50 0.6
1.0s 160.00nm
DMU 146.51 9 ePKP 01 01.00 1.5
DCN 146.99 9 ePKP 01 00.00 -0.3
0.7s 362.00nm
HRI 147.11 299 ePKP 00 59.50 -1.8
BBTK 147.20 312 iPKP 01 05.00 3.7X
BRN 147.25 346 iPKPd 01 04.50 3.8X
KRA 147.41 337 ePKP 01 00.80 -0.3
0.8s 94.00nm
i 01 04.10
i 01 08.30
VRI 147 56 326 iPKPc 01 05.10 3.6X
TLB 147.67 323 ePKPc 01 05.50 3.8X
JVI 147.72 297 ePKP 01 01.00 -1.3
ETA 147.78 9 iPKPc 01 05.30 3.7X
0.9s 182.00nm
VAL 147.78 13 iPKP 01 05.40 3.8X
KSP 147.91 342 ePKPd 01 01.70 -0.2
0.9s 237.00nm
id 01 05.90
i 01 10.80
e 03 22.10
i 03 49.80
WIT 147.91 354 iPKPd 01 06.50 4.7X
FAM 148.05 303 ePKP 01 07.00 4.4X
PSN 148.14 322 iPKPd 01 07.00 4.6X
MLR 148.22 326 ePKP 01 02.50 -0.2
ECP 148.26 9 iPKPc 01 02.00 -0.3
1.1s 252.00nm
ECP 148.26 9 iPKP 01 06.20 3.9X
1.0s 325.00nm
CLL 148.33 346 iPKP 01 01.90 -0.6
1.4s 53.00nm
i 01 06.60
pPKP 03 23.00
MBH 148.49 293 ePKP 01 03.00 -0.5
BRG 148.51 345 iPKPd 01 02.20 -0 6

i 01 07.80
i 01 12.80
i 03 25.50
CSS 148.59 303 ePKP 01 07.40 3.9X
WTS 148.71 353 iPKPc 01 03.10 0.1
1.0s 500.00nm
id 01 06.80
ISK 149.08 317 iPKP 01 08.00 4.0X
YLV 149.14 316 iPKP 01 08.50 4.3X
PRU 149.17 343 ePKP 01 03.50 -0.3
i 01 08.90
i 01 15.90
e 03 30.50
PSZ 149.18 335 ePKP 01 04.00 0.0
IZI 149.19 315 ePKP 01 09.00 4.7X
MOX 149.26 347 iPKPd 01 03.70 -0.3
1.5s 243.00nm
ipPKP 03 25.00
PPCY 149.38 304 ePKP 01 09.30 4.7X
DEV 149.46 330 ePKPd 01 10.00 5.6X
NKC 149.46 346 PKP 01 09.90 5.7X
i 01 16.80
BCK 149.75 309 iPKP 01 10.50 5.3X
JMB 149.81 321 iPKPd 01 11.00 6.0X
SRO 149.87 337 ePKP 01 05.00 0.1
i 01 10.60
i 01 10.70
e 02 29.60
BUD 149.88 336 ePKP 01 04.80 -0.1
ZST 149.98 339 ePKP 01 05.20 0.1
i 01 11.00
i 01 20.20
ENN 150.01 354 iPKPc 01 05.20 0.2
0.9s 175.00nm
id 01 10.80
i 01 17.50
PVL 150.05 323 iPKPd 01 12.00 6.7X
KHL 150.13 312 ePKP 01 11.20 5.4X
VKA 150.18 340 e(PKP)01 05.00 -0.4
KHC 150.21 344 PKP 01 05.30 -0.2
1.4s 176.00nm
e 01 11.50
e 01 20.00
TNS 150.23 351 iPKPd 01 11.70 6.2X
i 01 19.70
GRF 150.24 347 ePKPd 01 05.60 0.1
ed 01 11.90
ec 01 20.30
MFT 150.36 318 iPKP 01 11.50 5.5X
KGT 150.54 317 iPKP 01 10.50 4.3X
ELL 150.54 309 iPKP 01 12.50 6.0X
DIM 150.68 321 iPKP 01 13.00 6.7X
UZD 150.78 335 e(PKP)01 06.00 -0.3
DOMF 150.80 357 PKP 01 06.81 0.6
KMR 151.03 342 iPKP- 01 13.70 7.0X
ALN 151.07 319 iPKPc 01 12.62 5.7X
PLD 151.12 322 iPKPd 01 13.00 6.0X
PGB 151.14 323 iPKPd 01 13.00 5.9X
RZN 151.38 322 iPKPd 01 14.00 6.4X
BEO 151.40 331 iPKP 01 13.00 5.7X
EZN 151.51 317 ePKP 01 06.70 -0.9
YER 151.55 310 iPKP 01 14.80 6.9X
GWF 151.57 351 PKP 01 08.15 0.7
VTS 151.64 325 iPKPd 01 15.00 7.1X
MMB 152.01 322 iPKPd 01 15.00 6.6X
CDF 152.17 351 PKP 01 08.58 0.2
KKB 152.19 324 iPKPd 01 16.00 7 4X
FLN 152.21 3 ePKP 01 08.00 -0.3
1.3s 75.80nm
PTJ 152.35 338 ePKP 01 09.00 0.2
ECH 152.38 352 PKP 01 08.83 0.2
LIBD 152.38 351 PKP 01 07.56 -1 0
LDF 152.39 2 ePKP 01 09.20 0.6
1.2s 53.55nm
SRS 152.40 322 iPKPd 01 14.97 6.1X
ZAG 152.41 337 ePKP 01 09.80 1.1
VITF 152.53 353 PKP 01 09.23 0 4
GRR 152.56 3 ePKP 01 08.60 -0.2
0.9s 22.95nm
FEL 152.59 350 PKP 01 07.71 -1 4
HAU 152.69 353 ePKP 01 09.00 -0.1
1.3s 18.05nm
LJU 152.71 340 ePKP 01 09.00 -0.2
SOH 152.72 322 ePKPc 01 15.38 6 0X
MOF 152.74 351 PKP 01 09.62 0.4
FVI 152.75 343 PKP 01 08.50 -0.6
FNT 152 76 323 ePKPd 01 16.02 6.6X

BSF 152.81 352 ePKP 01 09.10 -0.3
1.2s 35.70nm
LPF 152.91 3 ePKP 01 08.90 -0.4
VOY 152.93 340 ePKP 01 09.50 -0.1
i 01 17.00
VBY 152.94 338 ePKP 01 10.00 0.5
i 10 17.80
SKO 153.01 326 ePKP 01 05.50 -4.2X
1.2s 99.00nm
i 17 17.60
i 17 32.60
CEY 153.02 339 ePKPc 01 08.40 -1.2
BBS 153.06 351 PKP 01 10.04 0.4
PAIG 153.09 320 iPKPd 01 16.02 6.2X
GRG 153.18 323 iPKPc 01 16.89 6.9X
LOMF 153.27 352 PKP 01 10.46 0.5
CTI 153.56 344 PKP 01 10.20 -0.2
LOR 153.65 356 ePKP 01 10.40 0.0
0.8s 11.40nm
LIT 153.69 321 ePKPc 01 18.34 7.7X
FNA 153.87 324 ePKPd 01 18.66 7.7X
SSF 153.88 357 ePKP 01 10.80 0.1
1.0s 22.00nm
LBF 153.93 356 ePKP 01 10.80 0.0
1.4s 37.05nm
OHR 153.96 325 ePKP 01 10.20 -0.8
1.6s 105.00nm
i 01 19.20
AVF 154.16 357 ePKP 01 10.30 -0.7
SMF 154.28 356 ePKP 01 11.00 -0.2
MFF 154.38 2 ePKP 01 11.30 0.0
1.1s 34.20nm
BGF 154.42 358 ePKP 01 11.40 0.0
0.9s 18.00nm
AGG 154.47 320 ePKPc 01 19.46 7.7X
TCF 154.71 359 ePKP 01 11.80 -0.1
1.2s 34.20nm
LSF 154.76 360 ePKP 01 11.60 -0.3
1.3s 46.95nm
MAF 154.76 358 ePKP 01 11.90 0.0
RJF 155.70 360 ePKP 01 13.20 0.0
1.2s 29.75nm
LFF 156.06 1 ePKP 01 14.10 0.4
0.7s 5.50nm
CAF 156.07 359 ePKP 01 13.20 -0.6
LPO 156.32 0 ePKP 01 14.50 0.5
CSI 157.26 329 PKP 01 14.70 -0.7
ROI 157.28 328 PKP 01 15.30 -0.1
EPF 157.96 2 ePKP 01 16.30 0.2
1.1s 14.65nm
LIC 164.14 156 PKPd 01 23.52 0.4
1.1s 71.50nm
KIC 164.37 157 PKPd 01 23.72 0.4
1.1s 67.00nm
TIC 164.53 156 PKPd 01 23.84 0.3
1.0s 45.50nm
S.D. = 0.8 on 236 of 298 obs

SEP 30, 1991 01h 01m 33.77± 0.27s
43.034 N ± 4.1km 112.560 E ± 4.6km
DEPTH = 33.0km (normal)
4.9mb (35 obs.)
NORTHEASTERN CHINA (658)
ML 5.4 (BJI).

HHC 2.31 199 Pn 02 11.20 0.9
Pg 02 13.80
Sg 02 42.00
BTO 3.09 219 iPnd 02 21.70 0.3
Pg 02 27.40
Sg 03 07.30
BJI 4.04 137 Pn 02 35.00 0.2
Pg 02 46.50
Sg 03 38.00
TIY 5.32 181 Pnd 02 52.00 -1.0
Z 12s 18.10um
Pg 03 08.00
Sg 04 15.80
TIA 7.67 151 Pn 03 25.30 -0.6
N 10s 6.50um
E 12s 12.40um
Pg 03 52.10
DL2 8.00 118 P 03 29.40 -1.2
SNY 8.24 95 Pd 03 32.70 -1.2
N 13s 24.70um
CN2 9.41 81 P 03 48.80 -1.3
pP 03 55.00

```
                  eS    05 36.00
XAN     9.42 199 P      03 48.00  -2.3
    E  14s    19.50um
LZH     9.66 227 iPc    03 52.00  -1.7
    1.0s   260.00nm             6.4mb X
    Z  18s     7.65um           6.3Msz
                  pP    03 55.70
                  eS    05 42.50
GTA    10.26 254 iPd    03 57.00  -4.9X
    0.6s    70.00nm             6.1mb X
                  pP    04 02.00
                  PP    04 05.20
                  S     05 51.00
IRK    10.78 332 iPd    04 05.20  -3.6X
                  e     04 39.00
                  e     04 54.00
                  eS    06 06.00
                  e     06 18.50
                  e     06 37.00
                  eSg   07 03.00
NJ2    12.04 153 Pd     04 26.00   0.1
    Z  16s     2.60um
    E  10s     3.70um
                  pP    04 32.00
                  S     06 41.80
MDJ    12.41  77 eP     04 31.00   0.2
    Z  10s     5.70um
WHN    12.55 173 eP     04 35.00   2.3
    N  10s     3.20um
SSE    13.75 147 P      04 51.00   2.4
    1.0s    15.00nm             4.8mb
    N  14s     2.10um
    E  13s     4.70um
CD2    13.99 213 eP     04 50.00  -1.8
    E  10s     9.30um
GYA    17.22 198 P      05 35.00   1.5
    1.0s    40.00nm             4.5mb
WMO    18.06 281 Pc     05 41.70  -2.1
    1.5s   100.00nm             4.7mb
    Z  20s     3.90um           4.3Msz
                  S     08 55.50
KMI    19.60 207 Pc     06 05.00   2.5
    2.5s   160.00nm             4.9mb
YAK    21.56  22 iP     06 22.20   0.2
                  epP   07 08.00
                  ePP   07 53.00
                  ePPP  08 24.00
                  eS    12 24.00
                  iPS   12 46.00
                  isS   13 20.00
                  iSS   15 14.00
                  iSSS  15 48.00
                  eScS  16 23.00
LSA    21.70 239 P      06 21.60  -2.7
    1.0s    80.00nm             5.1mb
OIZ    24.04 186 eP     06 51.00   4.3X
GUN    26.31 244 P      07 07.04  -1.5
KKN    26.78 244 P      07 11.78  -1.0
PKI    26.84 244 P      07 13.08  -0.4
    1.0s    60.00nm             5.2mb
DMN    27.02 244 P      07 14.52  -0.5
GKN    27.07 245 P      07 15.24  -0.1
HYB    38.50 239 eP     08 55.50   0.8
POO    40.74 245 eP     09 16.00   2.8
MAIO   40.82 279 iPd    09 16.20   2.4
    1.0s    10.00nm             4.5mb
GBA    42.09 237 Pc     09 28.60   4.3X
    0.6s     3.10nm             4.2mb
KOD    44.72 234 eP     09 46.60   0.6
KEV    48.91 333 eP     10 15.00  -2.9
TAB    49.40 288 eP     10 24.00   1.7
MBC    56.50  13 eP     11 14.50   0.1
    1.0s    12.00nm             4.9mb
NB2    58.41 326 P      11 26.80  -1.3
    0.9s    11.80nm             5.0mb
VRI    58.42 305 iPc    11 28.00  -0.4
INK    58.62  23 eP     11 29.00  -0.4
MLR    59.09 305 eP     11 30.50  -2.7X
MOX    64.17 316 iPc    12 07.30   0.2
    1.4s    17.00nm             5.0mb
GRF    64.95 315 ePc    12 12.90   0.8
    0.8s    27.00nm             5.4mb
                  e     12 18.00
CDF    67.77 316 iPc    12 30.30   0.1
    0.8s    13.45nm             5.1mb
OIS    68.00 153 iPd    12 30.60  -1.1
BSF    68.40 316 eP     12 34.00  -0.2
```

```
       0.8s     9.15nm            4.9mb
HAU    68.51 316 eP     12 34.70   0.0
       0.7s     5.50nm            4.7mb
CTAO   70.05 146 eP     12 44.00  -0.3
LOR    70.26 317 iPc    12 45.20  -0.2
       0.7s    10.45nm            5.0mb
LBF    70.39 316 iPc    12 46.00  -0.3
       0.7s     4.95nm            4.7mb
SSF    70.57 317 iPc    12 47.40   0.1
       0.7s     3.85nm            4.6mb
SBF    70.66 312 eP     12 47.90  -0.1
       0.6s    21.65nm            5.4mb
PGF    70.67 310 iPc    12 48.50   0.4
       0.6s    11.70nm            5.1mb
SMF    70.69 316 iPc    12 47.90  -0.2
       0.7s    13.25nm            5.1mb
AVF    70.84 317 eP     12 48.90   0.0
FRF    71.29 312 iPc    12 52.20   0.5
       0.8s    10.75nm            4.9mb
LDF    71.29 320 iPc    12 51.50  -0.1
       0.7s    12.15nm            5.1mb
FLN    71.34 320 eP     12 51.60  -0.3
       0.7s     6.60nm            4.8mb
LMR    71.52 312 eP     12 53.30   0.2
       0.8s    14.80nm            5.1mb
LRG    71.52 312 eP     12 53.90   0.8
       0.8s    13.45nm            5.0mb
MAF    71.62 317 eP     12 54.10   0.4
       1.1s    26.85nm            5.2mb
TCF    71.75 317 eP     12 54.70   0.2
       0.6s     5.40nm            4.7mb
GRR    71.78 320 eP     12 54.50  -0.1
       0.7s    11.00nm            5.0mb
MFF    72.70 318 eP     13 00.80   0.7
       0.7s    11.00nm            5.0mb
CAF    72.77 316 iPc    13 01.50   0.9
       0.9s     9.00nm            4.8mb
LPO    73.39 316 iPc    13 05.20   1.1
       0.7s    12.15nm            5.0mb
LFF    73.43 317 iPc    12 57.10  -7.2X
EPF    74.99 315 eP     13 13.70   0.2
       0.7s     7.70nm            4.8mb
STK    79.16 155 eP     13 40.10   3.6X
       0.4s     2.50nm            4.6mb
SES    79.48  27 ePd    13 39.00   0.8
LRM    82.90  30 eP     13 56.60   0.0
ALQ    94.61  31 eP     14 54.00   1.3
       1.0s     3.25nm            4.7mb
SIV   152.50 347 PKP    21 28.00   6.8X
ZOBO  153.32   1 PKP    21 24.00   1.0X
        S.D. = 1.2  on  64 of  73 obs.
-------------------------------------------
  SEP 30, 1991  01h 37m 11.37± 0.39s
  13.212 N ± 6.9km   89.848 W ± 5.1km
  DEPTH =  56.5km  (  6 depth phases)
  4.5mb ( 11 obs.)
 EL SALVADOR                         ( 73)
       Felt (II) at San Salvador.

CUSS    0.70 352 iPd    37 26.00   0.4
VSS     0.79  48 iPd    37 28.50   1.7
SJAS    0.80  56 iPd    37 28.20   1.3
OZA     0.88  69 iPd    37 29.50   1.6
LFU     0.89  53 iPd    37 29.70   1.7
VSM     1.55  82 iPc    37 39.20   2.0
TPX     2.88 306 iP     37 55.50  -0.4
                 (S)    38 24.00
LVVM    9.06 317 (P)    40 00.50  38.3X
IISM    9.24 309 eP     39 24.50  -0.1
IIT     9.97 306 eP     39 35.50   0.6
PPM    10.25 306 iP     39 40.50   1.6
ACX    10.33 292 (P)    39 43.50   3.9X
III    10.59 300 eP     39 44.50   1.3
MRX    12.65 302 iP     40 11.50   0.8
CLMC   16.07 124 ePc    40 57.72   2.3
HOBC   16.15 122 eP     40 56.34   0.0
PURC   17.18 128 eP     41 14.00   4.3X
SDV    19.34 101 eP     41 33.30  -2.1
TOV    19.94  98 eP     41 40.60  -1.0
PWLA   21.73   4 P      42 00.50   0.9
PRM    21.86  17 P      42 00.40  -0.5
OLY    22.24 357 P      42 05.30   0.6
                 pP     42 18.80  57km
JSC    22.38  19 P      42 06.00   0.0
LHS    22.71  20 P      42 08.00  -1.2
MEO    22.89 341 iPc    42 09.10  -2.0
GBTN   22.93  12 P      42 12.80   1.4
```

```
                  pP    42 25.80  54km
TKL    23.01  13 P      42 11.90  -0.3
                  pP    42 25.80  59km
LST    23.21   0 P      42 15.20   1.1
TUL    23.23 348 eP     42 12.90  -1.4
       0.8s    15.60nm            4.5mb
ELC    23.98   1 P      42 20.70  -0.9
                  pP    42 35.60  63km
FVM    24.68 359 P      42 29.10   0.8
       0.7s    13.61nm            4.6mb
                  pP    42 42.00  52km
ACO    24.83 342 iPc    42 30.10   0.3
ALQ    26.34 328 eP     42 44.00  -0.1
       0.9s     2.52nm            3.8mb
                  e     46 09.00
GLD    29.71 336 P      43 13.50  -1.0
       1.0s    26.00nm            4.9mb
GOL    29.72 335 eP     43 13.20  -1.6
       1.1s     7.69nm            4.3mb
GLA    30.15 315 eP     43 19.00   0.6
PV09   30.45 329 P      43 21.20   0.0
BAR    31.24 313 eP     43 29.00   1.1
PLM    31.74 314 eP     43 33.00   0.5
MSU    32.05 326 P      43 35.80   0.6
PEC    32.24 314 eP     43 35.50  -1.2
       1.0s     6.67nm            4.4mb
RVR    32.44 314 eP     43 39.00   0.6
SSK    32.78 314 P      43 42.40   0.8
GSC    32.79 317 eP     43 42.00   0.5
DAU    32.97 329 P      43 43.60   0.3
MWC    33.04 314 eP     43 45.00   1.2
PAS    33.08 314 eP     43 45.00   1.0
RSSD   33.12 341 eP     43 42.20  -2.2
       1.0s     6.51nm            4.4mb
SBB    33.13 315 eP     43 50.00   5.5X
CLC    33.61 317 eP     43 49.00   0.4
SYP    34.56 313 eP     43 58.00   1.2
BCH    34.97 314 P      44 01.00   0.7
BONR   35.32 319 P      44 04.60   1.1
PTI    35.38 331 P      44 04.70   0.9
ZOBO   36.32 143 P      44 13.60   1.2
HPI    36.37 331 P      44 11.60  -0.6
CMB    36.71 318 eP     44 15.10   0.2
LRM    37.72 334 eP     44 23.40  -0.1
                  e     46 40.40
ORV    38.28 319 eP     44 29.50   1.4
CCH    38.37 142 P      44 31.70   2.4
SIV    40.64 135 iPc    44 49.60   1.8
SES    40.92 339 eP     44 49.00  -0.8
FFC    42.50 350 iPc    45 01.30  -1.3
       0.5s     7.00nm            4.7mb
LON    42.86 328 P      45 06.20   0.5
                  pP    45 20.50  55km
PNT    43.54 332 eP     45 10.00  -1.1
       0.8s    11.00nm            4.7mb
MCW    44.64 329 P      45 19.30  -0.8
SCH    45.27  19 eP     45 22.00  -3.0X
SOB1   53.47 112 eP     46 27.10  -1.3
INK    61.79 343 eP     47 21.00  -5.3X
MBC    64.95 353 eP     47 44.00  -2.9X
       1.0s     6.00nm            4.6mb
LIC    83.58  85 P      49 33.70  -1.7
KIC    83.83  85 P      49 34.80  -1.9
NB2    83.83  29 P      49 33.50  -2.4
       0.8s     1.70nm            4.1mb
KRI   121.61 102 iPKPd  56 03.00   1.6
                  i     56 18.90
MTD   123.48 101 iPKPd  56 02.90  -2.0
                  i     56 18.90
GKN   138.68   7 PKP    56 31.90  -1.8
GUN   138.91   6 PKP    56 32.44  -1.9
       0.6s    17.00nm
KKN   138.97   7 PKP    56 32.24  -2.0
DMN   139.13   7 PKP    56 32.18  -2.4
PKI   139.20   6 PKP    56 33.72  -1.1
CHTO  147.02 345 iPKP   56 48.20   0.1
       0.8s     5.49nm
HYB   147.48  21 ePKP   56 47.00  -1.9
GBA   150.53  26 PKPd   56 53.60   0.0
       0.8s     7.10nm
       S.D. = 1.3  on  76 of  83 obs.
-------------------------------------------
  SEP 30, 1991  02h 32m 15.04± 0.89s
  15.213 S ±17.2km   71.964 W ±13.9km
  DEPTH = 150.5 ± 10.8 km
  4.0mb (  1 obs.)
 SOUTHERN PERU                       (117)
```

30d 02h

ARE	1.32	160	iPd	32 43.70	0.2
			iS	33 05.50	
ZOBO	3.84	106	iPc	33 14.70	0.2
LPB	3.95	110	iPc	33 17.00	1.3
	1.0s	176.00nm			
CNCB	4.15	113	iPc	33 19.70	1.2
NNA	5.72	303	iPc	33 37.00	-2.1
	0.8s	82.09nm			5.0mb X
			eS	34 37.50	
CCH	5.99	112	Pc	33 43.10	0.2
SIV	10.52	96	P	34 40.20	-2.9
ITB1	18.98	122	Pc	36 28.00	0.5
HOOC	19.13	346	eP	36 30.28	0.9
ANCC	19.23	345	eP	36 31.71	1.5
HOBC	19.88	348	eP	36 36.75	-0.1
PPD	20.70	112	eP	36 44.50	-0.5
BAO	23.11	94	ePc	37 08.30	-0.5
SDV	23.98	3	eP	37 17.50	0.3
VAO	24.83	112	eP	37 25.50	0.4
BMA	27.30	110	eP	37 47.80	0.2
KIC	69.95	77	P	43 10.30	-2.1
SPA	74.88	180	eP	44 00.00	19.3X
	1.0s	6.00nm			
YKA	84.33	342	eP	44 32.20	1.3
	0.7s	1.60nm			4.0mb
GBA	150.33	89	PKPc	51 53.10	7.9X
	0.4s	2.70nm			
GUN	155.88	55	PKP	52 00.00	6.8X
	S.D. = 1.4	on	18 of	21 obs.	

? SEP 30, 1991 02h 33m 16.14± 5.24s
22.181 S ±31.4km 170.169 E ±35.3km
DEPTH = 53.0 ± 35.8 km
4.3mb (2 obs.)
LOYALTY ISLANDS REGION (189)

DZM	3.46	271	iPd	34 08.40	-0.5
			iS	34 55.00	
COO	18.37	239	eP	37 30.00	1.2
CTAO	22.40	271	eP	38 13.00	1.6
CMS	23.57	242	iPc	38 21.70	-1.1
OLP	24.01	254	eP	38 26.50	-0.5
STK	27.16	243	eP	38 57.20	0.7
	0.9s	2.60nm			3.9mb
ASPA	33.38	260	eP	39 49.70	-2.1
	0.9s	13.30nm			4.8mb
CHG	80.66	295	eP	45 26.00	0.7
KSP	144.87	331	ePKP	52 45.00	-3.7X
BRG	145.88	333	ePKP	52 49.20	-1.2
	1.0s	16.00nm			
			i	52 59.20	
CLL	145.93	334	ePKP	52 51.00	0.6
PRU	146.27	331	PKPd	52 50.40	-0.6
KHC	147.32	331	PKP	52 52.50	-0.3
			e	53 03.50	
GRF	147.91	334	e(PKP)	52 55.00	1.3
WTTA	149.58	331	e(PKP)	53 02.00	5.4X
	S.D. = 1.3	on	13 of	15 obs.	

? SEP 30, 1991 03h 00m 54.27± 1.36s
40.422 N ±11.2km 27.489 E ±10.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

KGT	0.14	282	iPg	00 57.50	-0.1
MFT	0.40	337	iPg	01 02.50	0.1
			iSg	01 07.00	
CTT	1.02	44	iPn	01 13.50	0.0
EZN	1.07	237	ePn	01 14.50	0.1
	S.D. = 0.2	on	4 of	4 obs.	

SEP 30, 1991 04h 06m 42.81± 0.67s
40.108 N ±11.6km 25.412 E ± 4.3km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

EZN	0.76	112	iPg	06 57.20	-0.4
ALN	0.92	31	iPc	06 59.01	-1.4
			iS	07 13.13	
OUR	1.12	282	iPd	07 03.41	-0.3
PAIG	1.34	263	iPd	07 06.50	-1.0
KGT	1.49	76	iPn	07 08.50	-1.1
MFT	1.58	64	ePn	07 11.50	0.5
SRS	1.71	307	ePd	07 14.24	1.4
SOH	1.72	295	ePd	07 14.24	1.2
			iS	07 40.05	
EDC	1.89	82	ePn	07 16.50	1.1
KNT	2.18	300	iPc	07 19.05	-0.7
DMK	2.47	45	ePn	07 28.00	4.3X
CTT	2.52	65	iPn	07 27.00	2.5X
YLV	3.06	80	ePn	07 33.00	0.8
IZI	3.12	84	ePn	07 33.00	0.0
	S.D. = 1.1	on	12 of	14 obs.	

? SEP 30, 1991 05h 09m 47.19± 7.11s
4.557 N ±52.8km 76.724 W ±36.0km
DEPTH = 33.0km (normal)
COLOMBIA (103)
MD 3.7 (UVC).

HOBC	0.62	109	iPd	09 59.68	0.1
CLMC	0.69	167	iPd	10 01.48	0.8
			eS	10 11.30	
BUGC	0.81	145	iPd	10 01.93	-0.3
			eS	10 12.10	
ANCC	1.04	188	iPd	10 05.71	0.1
			eS	10 18.70	
HOOC	1.09	175	iPc	10 05.56	-0.8
			eS	10 18.40	
PURC	2.25	171	ePc	10 23.47	0.2
			eS	10 49.70	
	S.D. = 0.7	on	6 of	6 obs.	

SEP 30, 1991 05h 34m 20.28± 0.39s
43.478 N ± 2.8km 110.235 W ± 3.0km
DEPTH = 5.0km (geophysicist)
WYOMING (460)
ML 3.2 (GS), 3.2 (BUT).

HAYW	0.18	336	iPc	34 24.31	0.3
LOHW	0.30	297	iPc	34 26.34	0.0
ANGW	0.36	5	ePd	34 27.15	-0.3
			eS	34 31.51	
BEAW	0.36	231	ePc	34 28.13	0.6
TRXW	0.36	319	ePc	34 27.49	-0.1
SNOW	0.38	268	ePc	34 28.28	0.3
AVOW	0.44	288	ePc	34 28.87	-0.3
			eS	34 34.21	
MOOW	0.46	306	ePd	34 29.00	-0.5
PACW	0.46	337	ePd	34 29.21	-0.4
			eS	34 35.24	
REDW	0.46	256	ePc	34 29.77	0.2
TPAW	0.52	272	ePc	34 30.56	-0.2
COLW	0.58	325	ePc	34 31.38	-0.6
			eS	34 38.55	
TARW	0.62	298	ePc	34 31.93	-0.8
			eS	34 39.74	
MUDI	0.63	283	ePc	34 32.43	-0.4
			eS	34 40.48	
STEW	0.66	331	ePd	34 32.68	-0.8
			eS	34 41.24	
RAMW	0.66	309	ePc	34 33.00	-0.5
			eS	34 41.59	
CHOI	0.73	257	ePc	34 34.45	-0.5
			eS	34 44.23	
PINI	0.81	272	ePc	34 35.75	-0.8
			eS	34 46.57	
BW06	0.86	144	eP	34 36.00	-1.5
GRAI	0.86	293	ePc	34 36.87	-0.7
PTI	1.68	249	eP	34 50.78	0.2
LTMT	1.71	308	ePnc	34 51.40	0.2
HPI	2.09	277	eP	34 57.05	0.3
BGMT	2.18	324	ePn	34 58.60	0.7
MEMT	2.19	346	ePn	34 59.10	1.1
MCMT	2.31	307	ePn	35 02.10	2.2X
HVU	2.53	229	eP	35 03.95	1.1
LCCM	2.63	334	ePn	35 05.60	1.3
SXM	2.76	346	ePn	35 06.90	0.7
LRM	2.83	327	ePn	35 08.60	1.4
HBMT	2.87	325	ePn	35 09.60	1.8X
BUT	3.03	328	(Pg)	35 10.00	0.1
DAU	3.16	194	eP	35 16.12	4.2X
HRY	3.43	341	iPnc	35 15.70	0.2
RSSD	4.53	80	eP	35 30.00	-1.4
GOL	5.25	134	eP	35 42.50	1.0
	S.D. = 0.7	on	33 of	36 obs	

• SEP 30, 1991 05h 49m 05.67± 2.28s
37.508 N ±16.3km 16.606 E ±15.0km
DEPTH = 10.0km (geophysicist)
IONIAN SEA (399)

SOI	0.71	322	Pd	49 20.70	1.0
			eSg	49 26.80	
ATN	1.12	306	Pd	49 26.30	-0.3
			eSg	49 39.90	
MEU	1.40	254	Pc	49 31.70	0.4
			iSg	49 47.40	
MNO	1.57	286	P	49 33.50	-0.4
			eSg	49 51.70	
CZI	1.75	348	P	49 35.20	-1.0
ACI	1.87	350	P	49 38.20	0.3
ROI	2.06	359	P	49 40.70	-0.1
TDS	2.16	354	P	49 43.20	1.1
CSI	2.28	354	P	49 45.40	1.5
MMN	2.43	349	P	49 47.40	1.5
MGR	2.75	343	P	49 49.00	-1.6
LCI	3.01	20	P	49 53.60	-0.6
SGO	3.21	342	P	49 55.00	-2.0
BRT	3.40	8	P	49 57.20	-2.6X
LIT	5.27	59	iPc	50 32.85	6.4X
	S.D. = 1.2	on	13 of	15 obs.	

& SEP 30, 1991 08h 46m 55.90s
38.793 N 122.722 W
DEPTH = 2.0km
NORTHERN CALIFORNIA (36)
<BRK>. ML 3.1 (BRK).

NWRM	0.36	201	eP	47 03.10	0.0
ZSP	0.92	156	eP	47 13.50	-0.8
			iS	47 28.00	
BKS	0.99	157	eP	47 14.50	-1.0
			eS	47 29.00	
MHC	1.68	149	eP	47 25.50	-1.1
ARN	1.72	147	eP	47 25.40	-1.7
CMB	1.99	112	eP	47 29.70	-1.2
BONR	3.57	102	e(P)	47 52.50	-1.3
	7 obs. associated				

& SEP 30, 1991 08h 57m 40.78s
58.956 N 153.897 W
DEPTH = 100.7km
3.7mb (1 obs.)
KODIAK ISLAND REGION (13)
<AEIC>.

CDD	0.13	101	iPc	57 54.45	0.9
MCNL	0.32	316	iPc	57 54.93	-0.9
			eS	58 05.73	
AUI	0.45	32	iPc	57 55.71	-0.8
			eS	58 07.14	
AUW	0.47	28	iPc	57 55.97	-0.7
AGU	0.47	30	iPc	57 55.98	-0.8
AUH	0.47	30	iPc	57 56.03	-0.7
AUP	0.48	31	iPc	57 55.98	-0.8
AUE	0.49	34	iPc	57 56.13	-0.6
AUL	0.49	29	iPc	57 56.07	-0.7
OPT	0.78	26	iPd	57 58.36	-0.9
			eS	58 10.83	
SYI	0.86	113	ePc	57 58.99	-1.0
			eS	58 13.49	
IVS	1.14	21	eP	58 01.90	-1.4
INW	1.18	19	iPd	58 02.04	-1.7
			eS	58 18.92	
INE	1.19	21	iPd	58 02.22	-1.6
			eS	58 19.36	
XLV	1.23	65	iPc	58 02.59	-1.5
			eS	58 20.22	
HOM	1.35	58	ePc	58 04.44	-1.2
			eS	58 22.76	
KDC	1.42	148	ePc	58 05.30	-1.1
CNPM	1.48	66	iPc	58 05.48	-1.8
			eS	58 24.85	
RED	1.57	21	iPd	58 06.47	-2.0
			eS	58 26.82	
RS1	1.62	20	iPd	58 07.23	-1.9
RSO	1.62	20	iPd	58 07.20	-2.0
			eS	58 28.19	
RS2	1.62	20	iPd	58 07.25	-1.9
RDW	1.63	19	iPd	58 07.36	-1.9
REF	1.65	21	iPd	58 07.61	-2.0
			eS	58 28.33	
RDN	1.67	20	iPd	58 07.75	-1.9
			eS	58 28.43	
NCT	1.68	16	iPd	58 07.93	-2.0
			eS	58 28.57	
NNL	1.72	49	iPd	58 08.95	-1.2
BRLK	1.74	61	ePd	58 08.43	-2.1
			eS	58 30.06	
DFR	1.75	20	iPd	58 08.71	-2.0

eS 58 30.38
RDT 1.79 24 iPd 58 08.85 -2 4
eS 58 31.28
NKA 2 24 36 ePd 58 16.16 -0.9
SVW 2.33 339 iPd 58 16.30 -2.0
CKL 2.38 19 iPd 58 16.79 -2.3
SLKM 2.43 49 eP 58 17.02 -2.6
eS 58 45.66
BGL 2.43 17 iPd 58 17.73 -2.0
CGLM 2.54 21 iPd 58 18.68 -2.5
SEW 2.54 61 eP 58 18.23 -2.8
eS 58 46.64
NCG 2.61 19 iPd 58 19.73 -2.3
eS 58 52.95
SUA 2.97 31 ePd 58 24.33 -2.7
eS 58 58.66
PMS 3.16 42 iPd 58 26.72 -2.8
SKT 3.25 20 ePd 58 27.71 -3.1
LTI 3.27 68 ePc 58 28.18 -2.8
MTU 3.35 69 iPc 58 29.45 -2.6
PWA 3.36 35 ePc 58 29.50 -2.7
KNIM 3.42 63 ePc 58 29.37 -3.7
PLRM 3.55 40 iPd 58 30.80 -4.0
PMR 3.55 40 ePd 58 31.30 -3.5
KNK 3.67 45 iPd 58 32.58 -3.9
GHO 3.75 39 ePd 58 33.62 -4.0
CUT 3.89 26 eP 58 35.90 -3.6
MID 3.92 80 eP 58 33.92 -5.9
GLI 3.93 58 ePc 58 35.56 -4.5
SML 3.98 42 ePd 58 36.55 -4.2
TTA 4.12 346 ePd 58 40.10 -2.6
FID 4.15 61 ePd 58 38.42 -4.7
VZW 4.25 57 ePc 58 40.23 -4.2
SCM 4.35 46 eP 58 42.13 -3.8
VLZ 4.38 57 eP 58 42.17 -3.9
CVA 4.42 65 ePc 58 42.87 -3.8
HUR 4.54 25 eP 58 45.13 -3.3
SGAM 4.66 67 eP 58 46.46 -3.7
KLU 4.72 54 iPd 58 46.91 -4.1
KTH 4.83 16 eP 58 48.56 -3.9
TRF 4.84 20 eP 58 48.33 -4.3
RAGM 4.89 69 ePc 58 49.55 -3.7
KAIM 4.94 75 eP 58 51.24 -2.6
TOA 4.95 47 ePd 58 50.90 -3.3
HMT 5.08 70 ePd 58 52.23 -3.7
RND 5.09 27 ePd 58 51.50 -4.6
SDN 5.10 228 eP 58 53.80 -2.3
TZL 5.21 50 eP 58 53.78 -3.9
MCK 5.35 24 eP 58 55.73 -4.0
SDG 5.44 45 eP 58 57.85 -3.1
GLB 5.61 59 ePd 58 58.99 -4.3
CROM 5.71 67 eP 59 01.06 -3.8
PAX 5.75 42 eP 59 01.10 -4.1
SNH 5.75 73 eP 59 02.02 -3.2
WAX 5.79 70 ePd 59 01.70 -4.1
TGL 5.86 67 ePd 59 02.96 -3.8
CYK 5.92 74 eP 59 04 48 -2.9
THY 5.96 38 eP 59 04.36 -3.7
NEA 6.09 20 ePd 59 04.27 -5.5
BALA 6.14 236 ePc 59 07.02 -3.5
WRH 6.18 24 iPc 59 05.76 -5.3
YAH 6.32 72 ePc 59 09 95 -3.2
HDA 6.39 28 eP 59 08.50 -5.4
CCB 6.40 24 eP 59 08.15 -5.8
DJE 6.43 34 eP 59 10 63 -3.8
MDM 6.59 21 ePd 59 10.91 -5.8
FBA 6.62 23 ePc 59 11.56 -5.5
CTGM 6.62 67 eP 59 14.11 -3.2
GLM 6.78 24 eP 59 13.78 -5.6
IMA 7.14 1 ePd 59 20.80 -3.5
FYU 8.60 24 eP 59 38.95 -5.1
INK 12.95 35 P 00 37.00 -4.9
YKA 19.32 63 eP 01 55.20 -4.9
0.5s 2.00nm 3.7mb
96 obs. associated

• SEP 30, 1991 09h 20m 48.03± 1.21s
34.935 N ±12.6km 23.804 E ± 9.1km
DEPTH = 59.3 ± 12.1 km
CRETE (370)
MD 3.6 (ATH).

NPS 1.52 77 ePn 21 17.50 4.2X
VLI 1.91 339 ePn 21 21.00 2.2
VLS 4.14 322 ePn 21 52.00 1.8
YER 4.24 58 iP 21 52.70 1.0
AGG 4.25 344 iPc 21 51.69 0.0
LIT 5.26 349 iPd 22 05.62 -0.4
ELL 5 28 68 iPn 22 06.50 0.2
KEK 5.74 327 ePn 22 11.00 -1.6
GRG 6.11 350 ePd 22 17.58 -0.3
FNA 6.15 343 ePc 22 16.94 -1.4
KNT 6.26 354 iPd 22 19.89 0.0
OHR 6.61 340 eP 22 23.00 -1.8
0.4s 46.00nm 5.4mb X
MGR 8.36 311 P 22 49.20 0.2
SGO 8.76 312 P 22 55.00 0.5
JVI 10.10 104 eP 23 12.00 -1.0
PRNI 10.49 113 eP 23 17.20 -1.0
MBH 10.69 116 eP 23 21.40 0.5
GKN 51.66 80 P 29 51.54 0.3
DMN 52.20 80 P 29 55.30 -0.1
KKN 52.27 80 P 29 56.36 0.5
PKI 52.46 80 P 29 57.30 -0.1
GUN 52.70 79 P 29 59.68 0.4
S.D. = 1.1 on 21 of 22 obs.

SEP 30, 1991 09h 44m 42.15± 0.36s
22.535 N ± 2.4km 121.479 E ± 3.1km
DEPTH = 24.3 ± 2.5 km
5.5mb (64 obs.) 5.2Msz (9 obs.)
TAIWAN REGION (243)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 30C
Centroid Location:
Origin Time 09:44:46.1 0.5
Lat 22.79N 0.06 Lon 121.82E 0.07
Dep 18.8 3.4 Half-duration 1.8
Moment Tensor; Scale 10**17 Nm
Mrr= 0.96 0.07 Mtt= 0.14 0.09
Mff=-1.11 0.09 Mrt= 0.10 0.18
Mrf=-0.51 0.21 Mtf=-0.83 0.08
Principal Axes:
T Val= 1.19 Plg=62 Azm= 43
N 0.40 26 201
P -1.59 9 295
Best Double Couple:Mo=1.4*10**17
NP1:Strike= 53 Dip=42 Slip= 131
NP2: 184 59 59

TWG 0.47 307 iPc 44 51.40 -0.4
eS 44 56.80
TWF1 0.83 348 iPd 44 57.10 -0.7
TWK 1.17 309 iPd 45 03.60 0.5
TWD 1.54 4 ePc 45 08.80 0.5
eS 45 29.30
TWC 2.09 9 ePc 45 16.80 0.5
eS 45 43.30
TWZ 2.55 2 eP 45 23.60 0.7
QZH 3.57 313 iPnd 45 36.50 -0.8
Z 14s 28.50um
Sn 46 15.00
BAG 6.15 188 eP 46 14.00 0.0
HKC 6.77 269 eP 46 22.30 -0.2
iS 47 34.80
GZH 7.53 276 iPc 46 31.60 -1.5
Z 16s 15.40um
N 20s 18.20um
E 20s 23.90um
S 47 51.00
SSE 8.53 358 P 46 44.80 -2.3X
Z 20s 13.30um
N 12s 7.30um
E 11s 6.30um
S 48 15.00
NJ2 9.76 347 Pd 47 02.00 -2.1
0.8s 200.00nm 6 5mb
Z 15s 9.90um 4 1Msz
N 12s 10.80um
sP 47 13.00
WHN 10.21 323 Pc 47 07.50 -2.8X
1.0s 100.00nm 6.1mb
Z 16s 6.00um 4.4MszX
N 10s 6.60um
E 10s 7.70um
QIZ 11.43 254 eP 47 26 60 -0.4
0.8s 20.00nm 5.4mb
N 12s 8.80um
E 12s 6.70um
GYA 14.04 289 P 48 02.00 0.1
1.0s 100.00nm 5.5mb
Z 16s 7.10um 3.5MszX
N 11s 5.10um
E 11s 7.30um
S 50 30.60
DAV 15.86 165 eP 48 33.00 7.5X
XAN 15.91 319 P 48 25.70 -0.5
4.0s 800.00nm 5.2mb X
N 10s 5.30um
E 11s 5.30um
SS 51 34.00
DL2 16.32 0 eP 48 33.00 1.7
Z 16s 3.90um
N 10s 4.00um
E 12s 2.00um
S 51 34.00
TIY 17.02 335 Pd 48 40.00 -0.1
1.0s 60.00nm 4.7mb
Z 14s 24.30um 4.3Msz
N 12s 15.80um
KKM 17.16 198 ePd 48 45.50 3.3X
1.1s 116.90nm 4.9mb
e 48 55.50
KMI 17.34 282 P 48 43.00 -1.5
2.5s 200.00nm 4.8mb
Z 18s 8.40um 5.0Msz
pP 48 55.00
CD2 17.88 302 P 48 51.00 0.0
1.0s 200.00nm 5.2mb
Z 16s 7.90um 3.8Msz
E 14s 10.70um
S 52 08.00
BJI 18.02 347 eP 48 54.00 1.4
1.5s 110.00nm 4.8mb
Z 14s 8.23um 4.7MszX
N 13s 5.32um
eS 52 14.00
TSM 18.47 191 ePd 49 02.20 3.9X
SNY 19.32 5 Pc 49 07.00 -1.4
1.2s 40.00nm 4.6mb
Z 14s 6.00um 4.7Msz
N 12s 3.60um
E 11s 1.30um
PP 49 26.50
HHC 20.09 338 eP 49 17.00 0.1
1.2s 150.00nm 5.2mb
Z 18s 12.10um 5.3Msz
N 13s 6.00um
E 10s 2.30um
sP 49 33.50
eS 52 58.00
LZH 20.42 315 iPd 49 21.50 1.0
1.5s 440.00nm 5.6mb
Z 12s 8.84um 5.3MszX
E 10s 5.41um
pP 49 32.00 43kmX
PP 49 41.30
eS 52 57.00
sS 53 11.00
BTO 20.45 334 P 49 20.50 -0.2
CN2 21.46 8 eP 49 29.60 -1.3
Z 16s 15.90um 5.5MszX
N 11s 2.30um
E 11s 2.50um
eS 53 18.00
KHT 22.99 254 eP 49 50.00 3.8X
MDJ 23.01 15 eP 49 46.00 -0.2
1.0s 60.00nm 5.1mb
Z 24s 2.00um 4.5MszX
N 12s 3.10um
E 12s 2.00um
pP 49 58.00 48kmX
eS 53 54.00
GTA 24.96 317 P 50 05.80 0.5
3.1s 430.00nm 5.5mb X
Z 16s 6.30um 5.2MszX
E 13s 4.40um
pP 50 16.00 38kmX
sP 50 20.00
PcP 53 41.00
S 54 27.00
sS 54 40.00
SS 55 24.00
ScP 57 16.00
IPM 26.65 231 ePd 50 22.80 1.7
1.0s 40.20nm 5.0mb
AAI 26.87 165 eP 50 22.50 -0.6
KGM 26.97 223 ePd 50 25.20 1.2
MKS 27.65 184 iPd 50 31.40 1.2
LSA 28.10 291 P 50 33.40 -1.3

30d 09h

			S	55 18.00	
PSI	29.46	231	ePd	50 47.60	1.1
			e	53 52.00	
			e	17 40.00	
IRK	32.50	340	eP	51 11.80	-1.1
			e	51 31.00	
			e	53 06.30	
GUN	32.57	287	P	51 15.00	0.7
PKI	32.98	286	P	51 16.86	-1.0
KKN	33.10	287	P	51 18.98	0.3
DMN	33.25	286	P	51 20.16	0.1
GKN	33.67	287	P	51 23.52	-0.1
WMQ	35.00	315	P	51 35.50	0.7
	1.0s	20.00nm			5.0mb
	Z 16s	2.60um			5.1MszX
	N 12s	1.30um			
			pP	51 45.00	32kmX
			PcP	54 06.00	
			S	57 07.00	
			sS	57 20.00	
			ScP	57 48.50	
			PcS	57 54.50	
MTN	36.41	164	iPd	51 45.10	-1.7
	0.5s	55.00nm			5.7mb
KNA	38.71	169	eP	52 05.10	-1.0
YAK	39.86	6	eP	52 16.00	0.8
			e	54 16.00	
			e	58 00.00	
NDI	40.21	288	iPd	52 18.50	0.0
PMG	40.51	139	iPd	52 21.00	-0.1
HYB	40.56	271	eP	52 22.00	0.4
GBA	42.67	266	Pc	52 39.60	0.7
	0.8s	6.80nm			4.4mb X
MBL	43.46	182	eP	52 44.00	-1.1
KOD	43.80	261	eP	52 50.10	1.7
WR2	44.06	162	iPd	52 49.00	-1.0
	0.8s	100.60nm			5.7mb
			i	54 35.50	
POO	44.64	274	iPd	52 56.50	1.6
OIS	46.34	156	iPc	53 07.80	-0.4
	0.8s	112.00nm			5.9mb
			i	54 43.00	
WARB	48.69	174	iPc	53 26.40	-0.1
	0.5s	116.00nm			6.2mb
CTAO	48.78	148	iPc	53 28.10	0.8
	1.0s	340.00nm			6.3mb
			i	53 36.00	
			i	54 52.50	
			e(S)	00 40.00	
HNR	49.29	126	eP	53 33.00	1.6
MRWA	51.72	186	eP	53 48.50	-1.1
	0.4s	17.00nm			5.3mb
BAL	53.03	185	eP	53 58.00	-1.5
COOL	53.11	180	eP	53 58.50	-1.5
FORR	53.46	173	eP	54 01.60	-0.9
	0.4s	47.00nm			5.8mb
QLP	53.57	154	iPd	54 03.40	0.0
	0.9s	167.00nm			6.0mb
			i	55 11.00	
KLB	53.94	184	iPc	54 05.00	-1.0
	0.6s	69.00nm			5.9mb
MUN	54.44	186	eP	54 09.00	-0.7
MAIO	54.87	299	iPc	54 14.30	1.1
	0.9s	12.79nm			5.0mb
			eS	02 04.00	
NWAO	55.30	184	eP	54 15.00	-1.0
RKG	56.95	184	eP	54 27.30	-0.5
BRS	58.12	147	iPd	54 36.00	-0.3
			i(pP)	55 12.00	153kmX
ADE	59.48	164	iPc	54 45.00	-0.6
	0.9s	134.45nm			6.1mb
COO	60.34	150	iPd	54 51.20	-0.4
	0.8s	81.00nm			5.9mb
BWA	62.17	155	eP	55 05.20	1.3
DZM	62.33	132	iPc	55 05.60	0.4
BFD	62.62	161	eP	55 05.00	-1.8
	1.0s	109.00nm			5.9mb
CAN	63.18	155	eP	55 10.90	0.4
CNB	63.32	155	iPc	55 12.50	1.0
	0.9s	89.00nm			5.9mb
TOO	63.92	159	iPc	55 16.20	0.8
	0.9s	68.00nm			5.8mb
TAB	65.10	303	eP	55 24.00	0.6
MSL	67.92	301	ePd	55 41.00	-0.2
RSO	68.61	32	eP	55 43.00	-2.2
TAU	69.34	160	iPd	55 51.00	1.4
FBA	70.15	27	eP	55 54.20	-0.1
	1.0s	22.50nm			5.3mb
PMR	70.16	31	eP	55 54.00	-0.4
	1.0s	35.00nm			5.4mb
KEV	70.60	338	iP	55 56.00	-1.0
	0.6s	18.30nm			5.4mb
BALM	73.47	30	eP	56 14.50	0.1
KAS	73.82	308	iPc	56 17.40	0.7
HRI	74.60	300	eP	56 22.10	0.6
INK	74.65	22	eP	56 20.00	-0.9
	1.0s	37.00nm			5.4mb
MBC	74.80	13	eP	56 21.00	-0.7
	0.5s	6.00nm			4.9mb
DSI	75.39	298	eP	56 26.30	0.4
CSS	76.00	302	eP	56 29.20	-0.1
MBH	76.35	297	eP	56 31.50	0.0
CLI	76.76	315	ePc	56 33.50	0.2
VRI	77.35	314	iPd	56 37.50	0.9
UPP	77.45	330	iP	56 35.80	-1.0
MLR	77.99	314	ePc	56 40.00	-0.3
ELL	78.07	305	iP	56 40.50	-0.4
HFS	79.13	331	eP	56 45.20	-0.8
	0.8s	45.60nm			5.6mb
	Z 18s	2.55um			5.6Msz
			LR	33 29.00	
RUZ	79.36	140	eP	56 48.30	0.7
DIW	79.64	142	eP	56 49.30	0.2
THZ	79.72	144	eP	56 49.30	-0.3
NB2	79.80	332	P	56 48.30	-1.4
	0.7s	29.10nm			5.4mb
EWZ	79.83	146	P	56 51.10	1.1
BWZ	80.06	147	eP	56 52.00	0.8
KIW	80.25	142	eP	56 52.10	-0.2
MNG	80.41	141	eP	56 53.00	-0.2
KHZ	80.51	144	eP	56 53.20	-0.4
	0.8s	98.00nm			5.9mb
MTW	80.78	142	P	56 55.00	-0.1
MOW	80.80	142	eP	56 55.20	-0.1
PGZ	80.87	141	P	56 55.70	0.1
	0.7s	182.00nm			6.2mb
BLW	80.90	142	eP	56 55.70	0.0
OUR	81.17	310	iPd	57 00.53	3.2X
SOH	81.43	311	ePd	56 58.68	-0.1
KNT	81.62	311	ePc	56 59.44	-0.3
NPS	81.86	305	eP	57 00.80	-0.2
GRG	82.05	311	ePd	57 01.82	-0.1
SKO	82.32	312	eP	57 03.20	-0.1
LIT	82.32	310	iPc	57 02.53	-0.8
KZN	82.74	311	eP	57 05.00	-0.6
FNA	82.83	311	ePc	57 05.64	-0.4
AGG	82.85	309	iPd	57 08.50	2.3X
VKA	83.00	319	iPd	57 08.10	1.4
OHR	83.10	312	eP	57 06.70	-0.7
BRG	83.20	323	iPc	57 07.20	-0.5
	1.4s	36.00nm			5.3mb
			i	57 09.10	
VLI	83.31	307	eP	57 07.00	-1.5
CLL	83.53	323	iPc	57 09.00	-0.3
	1.2s	32.00nm			5.4mb
	Z 17s	2.00um			5.6MszX
IGT	84.07	310	iPd	57 17.69	5.4X
KHC	84.22	321	P	57 13.50	0.5
	Z 20s	0.90um			5.1Msz
	N 20s	0.50um			
	E 20s	0.80um			
			e	57 19.20	
			e	07 36.00	
PTJ	84.26	317	ePc	57 13.30	0.0
MOX	84.62	323	iPc	57 14.80	0.0
	1.9s	35.00nm			5.3mb
	Z 18s	2.60um			5.7Msz
	N 18s	1.20um			
	E 18s	1.30um			
			eS	07 45.00	
VBY	84.88	317	e(P)	57 17.00	0.8
LJU	85.08	318	e(P)	57 17.30	0.0
CEY	85.29	318	eP	57 18.30	0.0
GRF	85.30	322	iPc	57 19.20	0.9
	1.8s	93.00nm			5.7mb
	Z 19s	0.80um			5.1Msz
			e	57 27.30	
VOY	85.48	318	e(P)	57 19.10	-0.3
WTTA	86.26	320	iPd	57 22.80	-0.5
	0.7s	12.30nm			5.2mb
ROI	86.68	312	P	57 27.50	2.1
TDS	86.80	312	P	57 27.40	1.5
PGD	87.87	317	P	57 32.70	1.5
CDF	88.19	323	eP	57 32.30	-0.2
	0.9s	14.75nm			5.3mb
BSF	88.78	322	eP	57 35.00	-0.4
HAU	88.93	323	iPc	57 35.40	-0.6
	0.8s	6.70nm			5.0mb
	Z 21s	0.90um			5.2Msz
CSY	88.94	184	eP	57 36.70	1.4
	0.7s	8.00nm			5.2mb
EKA	89.29	332	P	57 37.00	-0.5
	1.7s	64.30nm			5.6mb
PNT	90.25	35	ePd	57 43.00	0.8
	0.9s	16.00nm			5.3mb
PGF	90.26	317	iPc	57 42.80	0.4
	0.7s	49.60nm			5.9mb
SBF	90.54	319	iPc	57 43.40	-0.3
	0.9s	37.65nm			5.7mb
LOR	90.74	323	eP	57 44.20	-0.3
	1.1s	30.50nm			5.5mb
	Z 21s	0.93um			5.2Msz
LBF	90.84	323	iPc	57 44.70	-0.2
	1.1s	35.15nm			5.6mb
SSF	91.05	323	eP	57 45.80	-0.1
	1.1s	22.00nm			5.4mb
SMF	91.11	322	iPc	57 46.00	-0.1
	1.2s	46.60nm			5.7mb
FRF	91.18	319	iPc	57 46.60	0.1
	1.1s	19.55nm			5.4mb
AVF	91.30	323	iPc	57 47.00	0.0
	1.2s	46.10nm			5.7mb
LMR	91.39	319	eP	57 47.80	0.3
	1.1s	24.40nm			5.5mb
LRG	91.41	319	eP	57 48.00	0.4
	1.1s	36.65nm			5.7mb
	Z 21s	0.73um			5.1Msz
BGF	91.72	323	iPc	57 48.90	0.0
MAF	92.07	323	iPc	57 51.00	0.4
	1.2s	46.10nm			5.8mb
NEW	92.20	35	eP	57 55.00	3.8X
	1.0s	8.75nm			5.1mb
TCF	92.23	323	eP	57 51.60	0.2
	1.1s	24.15nm			5.5mb
LSF	92.63	323	eP	57 53.00	-0.2
RJF	93.21	322	iPc	57 56.70	0.9
	1.1s	68.35nm			6.0mb
	Z 20s	0.80um			5.2Msz
SES	93.86	31	eP	57 58.00	-0.8
LFF	93.86	322	eP	57 59.70	0.9
	1.4s	61.00nm			5.8mb
LRM	96.22	35	eP	58 10.50	0.5
CMB	96.34	44	eP	58 11.20	0.8
ALQ	106.95	40	ePKP	03 08.00	0.0
KIC	120.07	292	PKP	03 32.86	-0.4
TIC	120.17	293	PKP	03 32.82	-0.7
LIC	120.38	292	PKP	03 33.34	-0.5
TOV	146.03	20	ePKP	04 22.30	0.6
SDV	146.59	22	ePKP	04 23.00	0.3
HOBC	148.21	35	ePKPc	04 24.22	-1.1
CLMC	148.37	36	ePKP	04 25.21	-0.4
ANCC	148.51	37	ePKP	04 25.06	-0.6
HOOC	148.68	37	ePKPc	04 25.94	-0.3
PURC	149.77	37	ePKPc	04 28.85	0.6
CUMC	149.98	41	ePKPc	04 29.47	0.9
SO81	158.52	305	ePKP	04 39.90	0.5
			e	05 13.90	
BAO	167.91	303	ePKPd	04 49.00	0.7
			e	05 56.40	
ZOBO	169.01	57	PKP	04 50.60	1.1
	1.5s	51.08nm			
CCH	171.19	56	PKP	04 51.70	1.4
SIV	173.06	21	PKPc	04 52.50	1.8

S.D. = 0.9 on 174 of 184 obs.

• SEP 30, 1991 10h 36m 20.10± 0.96s
32.104 N ± 8.7km 50.456 E ±14.2km
DEPTH = 33.0km (normol)
NORTHERN IRAN (348)

SHI	3.03	143	eP	37 07.00	0.0
IR5	3.10	2	eP	37 08.00	0.0
IR4	3.15	7	eP	37 09.00	0.4
IR1	3.31	3	eP	37 11.00	0.1
IR7	3.59	2	eP	37 14.50	-0.4
KER	3.59	310	eP	37 15.00	0.0
BHD	5.25	284	eP	37 46.00	7.7X
			e	38 49.00	

S.D. = 0.3 on 6 of 7 obs.

• SEP 30, 1991 11h 00m 12.50± 1.24s

14.419 N ±11.2km 92.998 W ± 8.7km
DEPTH = 37.5 ± 10.7 km
4.7mb (7 obs.)
NEAR COAST OF CHIAPAS, MEXICO (69)

TPX	0.86	56	iP	00 28.50	0.3
			iS	00 40.00	
IISM	6.18	318	eP	01 41.50	-2.3
			(S)	02 51.00	
LVVM	6.23	329	iP	01 40.50	-4.0X
			iS	02 47.50	
IIT	6.84	313	eP	01 53.50	0.2
			(S)	03 10.00	
ACX	7.04	291	iP	01 56.00	0.1
PPM	7.10	311	eP	01 57.50	0.3
III	7.35	303	(P)	02 01.50	1.1
			(S)	03 12.00	
UNM	7.68	310	(P)	02 10.00	5.0X
MRX	9.43	305	eP	02 28.50	-0.6
CGX	11.30	299	(P)	02 58.00	3.2X
MEO	20.89	347	e(P)	04 51.20	-2.9X
SIO	21.44	353	eP	05 01.00	1.4
TUL	21.55	354	eP	05 01.00	0.3
	1.0s		47.60nm		4.9mb
			e	09 06.60	
ACO	22.86	347	iPc	05 14.50	0.8
ALQ	23.77	332	eP	05 23.00	0.3
	0.8s		22.39nm		4.7mb
MSU	29.38	328	eP	06 17.00	2.3
BW06	31.65	336	e(P)	06 36.00	1.3
	1.0s		5.00nm		4.3mb
LRM	35.34	336	eP	07 06.30	-0.3
SES	38.76	342	eP	07 35.00	-0.1
ZOBO	39.16	140	eP	07 40.00	0.6
			i	07 51.20	
FFC	40.82	352	eP	07 56.50	4.5X
	0.5s		5.00nm		4.5mb
PNT	41.07	333	eP	07 54.00	-0.1
	0.7s		9.00nm		4.6mb
SIV	43.68	133	P	08 16.00	0.2
			i	08 28.00	
			i	29 03.40	
YKA	50.40	347	eP	09 06.90	-1.1
	0.5s		5.90nm		4.9mb
SOB1	56.75	111	eP	09 54.40	-1.2
			e	10 05.80	
INK	59.77	344	eP	10 14.00	-1.8
FBA	62.48	337	eP	10 33.00	-1.2
MBC	63.38	353	eP	10 38.50	-1.5
	0.5s		7.00nm		5.0mb
BDT	146.38	339	ePKP	19 50.90	0.3
HYB	147.29	15	ePKP	19 53.00	0.9
GBA	150.59	19	PKPc	20 01.70	4.5X
	0.6s		6.00nm		

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

? SEP 30, 1991 11h 28m 17.28± 0.99s
18.541 S ±26.2km 176.456 E ±13.8km
DEPTH = 13.3 ± 5.0 km
4.8mb (2 obs.)
FIJI ISLANDS REGION (181)
ML 4.7 (SVA).

SGE	1.69	56	iP	28 46.20	-0.4
			eS	29 09.80	
SVA	1.95	78	eP	28 50.20	-0.1
			eS	29 20.40	
VUN	1.98	75	eP	28 51.20	0.4
			eS	29 23.40	
OVA	2.37	69	eP	28 52.90	-3.5X
MBU	2.66	55	eP	29 00.10	-0 6
			eS	29 32.80	
KRO	3.05	67	eP	29 05.40	-0.7
NDE	3.35	55	eP	29 09.20	-1.2
TVI	3.71	65	eP	29 14.30	-1.2
UOU	4.14	56	eP	29 21.90	0.3
ASPA	39.92	255	eP	35 51.80	-1.2
	1.1s		6.60nm		4.2mb
LZH	87.46	309	eP	41 06.50	0.4
	1.8s		38.00nm		5.4mb
	Z 24s		0.39um		4.7MszX
CLL	144.77	342	iPKPc	47 54.10	-1.2
MOX	145.76	343	iPKPc	47 58.20	1.2
	2 0s		62.00nm		
SRO	145.79	333	ePKP	47 57.50	0.4
ZST	145.99	335	ePKP	47 58.10	0.7
			i	48 06.20	
			e	15 00.60	
KHC	146.50	339	ePKP	48 00.00	1.7X
			e	48 01.80	
			e	48 14.00	
GRF	146.73	342	e(PKP)	48 01.00	2.4X

S.D = 0.9 on 14 of 17 obs.

% SEP 30, 1991 11h 31m 17.38± 1.19s
40.337 N ±35.9km 28.202 E ± 5.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

EDC	0.26	272	ePn	31 22.50	-0.4
KGT	0.70	280	iPn	31 31.50	0.4
YLV	0.92	75	ePn	31 35.00	-0.1
IZI	0.97	90	ePn	31 36.00	0.1
HRT	1.22	66	ePn	31 40.00	-0.1

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

SEP 30, 1991 12h 08m 50.64± 0.96s
6.751 S ± 3.3km 130.442 E ± 4.1km
DEPTH = 64.8 ± 9.3 km
5.2mb (22 obs.)
BANDA SEA (280)

AAI	3.78	324	ePd	09 53.30	5.6X
			eS	11 05.70	
MTN	6.10	174	eP	10 20.40	0.1
KUPT	7.56	243	eP	10 49.50	8.9X
KNA	9.09	190	eP	11 00.50	-1.2
	0.3s		277.00nm		6.7mb X
MKS	11.02	277	iPc	11 39.00	11.1X
MNDI	13.15	88	eP	11 56.00	-0.4
WR2	13.66	164	iPd	11 58.80	-4.2X
	0.4s		224.30nm		6.1mb
			iS	14 23.40	
QIS	16.35	148	eP	12 34.00	-3.5X
			i	12 40 00	
			iS	15 22.70	
PMG	16.76	100	eP	12 44.00	1.3
MBL	17.62	215	eP	12 52.50	-0.9
	0.3s		41.00nm		5.1mb
			eS	15 57.00	
KKM	19.06	312	ePd	13 11.80	1.0
	0.7s		46.60nm		4.8mb
WARB	19.66	190	eP	13 17.00	-0.2
	0.4s		41.00nm		5.1mb
			eS	16 44.00	
CTAO	20.28	132	iPc	13 24.10	0.5
	1.0s		140.00nm		5.2mb
			i	13 26.50	
			i	13 38.00	
QLP	23.70	148	eP	13 58.00	0.5
			eS	18 17.00	
FORR	24.07	185	eP	14 01.30	0.2
	0.4s		57.00nm		5.4mb
			e	14 11.00	
COOL	25.54	199	eP	14 15.30	0.2
MRWA	26.18	210	eP	14 21.00	0.1
	0.4s		33.00nm		5.2mb
			e	14 46.00	
			eS	19 09.00	
BAL	27.01	207	eP	14 29.00	0.5
STK	27.08	159	iPc	14 32.90	3.7X
	0.8s		21.70nm		4.8mb
			eS	19 46.10	
KLB	27.41	204	eP	14 33.00	0.8
	0.4s		23.00nm		5.1mb
MUN	28.40	206	eP	14 41.00	-0.1
			e	15 11.00	
CMS	28.51	152	eP	14 42 00	0.0
			e	20 14.60	
NWAO	28.79	204	eP	14 45.00	0.4
ADE	29.09	166	iPc	14 47.60	0.2
	0.9s		127 73nm		5.6mb
HNR	29.33	97	eP	14 49.00	-0.6
BRS	29.51	137	iPc	14 49.90	-1.3
	0.6s		14.00nm		4.8mb
			i	15 12.00	
COO	31.09	142	eP	15 03.00	-2.1
BWA	32.15	151	iPc	15 15.80	1.4
BFD	32.23	162	iPd	15 14.80	-0.1
			e	19 33.00	
			e	21 31.00	
CAN	33.16	152	iPc	15 23.70	0.6
CNB	33.33	151	eP	15 25.00	0.4
TOO	33.59	158	iPd	15 28.50	1 7
	0.7s		22.00nm		5.2mb
DZM	37.92	117	iPc	16 04.50	0.8
CHTO	40.12	310	iP	16 22.60	0.6
	0.9s		22.38nm		5.0mb
NJ2	40.14	345	Pd	16 23.00	1.1
WHN	40.16	338	P	16 23.00	0.9
GYA	40.27	326	eP	16 24.00	0.8
	1.0s		30.00nm		5.1mb
KMI	41.60	321	Pc	16 35.00	0.7
CD2	45.33	327	eP	17 03.50	-0.7
XAN	45.40	335	P	17 04.00	-0.7
			ScP	22 27.50	
TIY	47.32	341	Pd	17 20.00	0.2
	Z 20s		0.50um		4.5Msz
BJI	48.38	345	eP	17 27.50	-0.5
	1.0s		13.00nm		4.9mb
SNY	48.75	353	Pd	17 30.60	-0.1
LZH	49.39	331	eP	17 36.60	0.6
	1.5s		37.00nm		5.2mb
HHC	50.45	341	P	17 44.30	0.4
CN2	50.52	355	eP	17 44.00	-0.2
EWZ	50.93	143	eP	17 48.00	0.6
BWZ	50.94	144	eP	17 46.80	-0.7
THZ	51.27	140	eP	17 50.10	-0.1
LTZ	51.40	141	P	17 51.00	-0.1
KHZ	52.01	140	P	17 55.10	-0.6
	0.5s		53.00nm		5.8mb
MNG	52.42	137	P	17 57.70	-1.1
URZ	52.52	134	eP	17 58.50	-1.0
GTA	53.97	331	P	18 10.60	0.3
	0.8s		10.00nm		4.9mb
GUN	55.12	311	Pc	18 18.82	-0.4
	0.5s		241.00nm		6.5mb X
PKI	55.30	310	Pc	18 19.64	-0.8
	0.6s		84.00nm		5.9mb
KKN	55.51	310	Pc	18 21.40	-0.5
	0.6s		143.00nm		6.2mb
DMN	55.55	310	Pc	18 21.78	-0 4
	0.5s		98.00nm		6.1mb
GKN	56.11	310	Pc	18 25.56	-0.5
	0.5s		204.00nm		6.4mb X
GBA	56.37	291	P	18 28.00	0.1
HYB	56.60	296	eP	18 28.00	-1.6
CSY	61.03	189	eP	18 59.50	0.0
	0.5s		13.20nm		5.3mb
POO	61.19	295	eP	19 01.50	0.1
YAK	68.56	360	iPc	19 47.40	-0.8
GAR	71.80	315	eP	20 08.20	-0.4
MAW	75.34	201	eP	20 29.00	0.5
MAIO	78.87	309	iPc	20 49.50	0.7
INK	98.47	22	ePc	22 21.50	-1.1
ALO	120.81	53	ePKP	27 37.90	0.1
	0.9s		2.94nm		
KIC	135.49	272	PKP	28 06.02	-0.1
LIC	135.76	272	PKP	28 06.42	-0.3
NNA	147.09	124	iPKPc	28 29.80	3.1X
UPA	150.23	84	ePKPc	28 36.50	5.0X
ZOBO	150.66	141	PKP	28 34.00	1.2
	0.9s		54.07nm		
			i	28 39.70	
CCH	150.96	146	PKP	28 40.70	7.8X
CUMC	151.18	100	ePKPc	28 35.30	1.6X
ANCC	152.62	95	iPKPc	28 41.96	6.8X
HOOC	152.84	96	ePKPc	28 43.29	7.5X
PURC	152.93	98	ePKP	28 44.71	8.5X
HOBC	153.44	94	ePKP	28 43.65	7.2X

S.D. = 0.8 on 66 of 80 obs.

% SEP 30, 1991 13h 14m 42.36± 3.39s
15.353 N ±11.3km 61.383 W ±29.2km
DEPTH = 137.8 ± 33.0 km
LEEWARD ISLANDS (92)

BBL	0.19	332	eP	15 01.63	-0.8
MGG	0.57	6	eP	15 03.00	0.1
			S	15 21.00	
FDF	0.66	160	iPd	15 04.03	0.5
			S	15 21.60	
PAG	0.73	337	eP	15 04.50	0.4
			S	15 23.00	
CRM	0.75	143	eP	15 04.22	0.1
			S	15 21.00	
BIM	0.88	160	iPd	15 05.29	0.0
			S	15 24.80	
MVM	0.92	149	iPd	15 05.32	-0.3
DEG	1.00	18	eP	15 06.20	-0.1
			S	15 24.80	

30d 13h

SEG	1.05	354	eP	15 07.22	0.5
			S	15 27.00	
BPA	1.74	345	eP	15 13.80	-0.4
			S	15 38.30	

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

? SEP 30, 1991 13h 16m 03.75± 5.74s
4.813 N ±75.6km 76.235 W ±57.4km
DEPTH = 110.0km (geophysicist)
COLOMBIA (103)
MD 3.4 (UVC).

HOBC	0.47	168	iPd	16 20.70	-0.1
BUGC	0.91	181	eP	16 24.28	-0.2
CLMC	0.98	199	eP	16 25.79	0.6
			eS	16 42.10	
HOOC	1.39	197	eP	16 30.18	0.2
			eS	16 49.80	
ANCC	1.44	206	ePc	16 29.68	-0.5
			eS	16 48.90	

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

* SEP 30, 1991 14h 16m 31.87± 0.55s
40.803 N ± 9.6km 73.755 E ±14.5km
DEPTH = 33.0km (normal)
4.3mb (6 obs.)
KYRGYZSTAN (716)

MAIO	12.03	253	eP	19 37.00	12.9X
			eS	21 17.00	
NDI	12.42	166	eP	19 30.00	0.8
GKN	15.59	142	P	20 09.06	-1.9
KKN	16.08	140	P	20 15.16	-2.1
DMN	16.15	141	P	20 14.74	-3.4X
GUN	16.27	138	P	20 19.62	-0.3
PKI	16.32	140	P	20 16.18	-4.3X
POO	22.19	180	eP	21 35.00	8.1X
HYB	23.67	169	eP	21 43.00	1.7
GBA	27.29	172	Pd	22 16.60	1.4
	0.8s		6.20nm		4.3mb
YAK	39.25	38	iPd	23 59.70	1.2
HFS	41.13	319	eP	24 13.00	-1.1
	0.5s		1.30nm		3.9mb
NB2	42.35	320	P	24 23.00	-1.1
	0.7s		1.00nm		3.7mb
MBC	62.93	3	eP	26 57.00	0.3
	0.5s		4.00nm		4.8mb
INK	69.30	10	eP	27 38.00	0.7
YKA	76.83	4	eP	28 21.50	0.0
	0.5s		1.50nm		4.3mb
KIC	77.17	267	P	28 24.00	-0.2
TIC	77.20	268	P	28 24.00	-0.4
WR2	82.55	124	iPd	28 54.00	1.2
	0.5s		2.80nm		4.6mb

S.D. = 1.3 on 15 of 19 obs.

& SEP 30, 1991 14h 26m 11.25s
59.935 N 141.677 W
DEPTH = 5.8km
SOUTHEASTERN ALASKA (19)
<AEIC>. ML 2.6 (AEIC).

WRG	0.21	300	iP	26 15.60	0.1
YAH	0.43	356	iP	26 20.36	0.4
			eS	26 27.50	
CYK	0.43	290	eP	26 20.32	0.4
			eS	26 28.73	
SNH	0.63	293	eP	26 23.64	-0.3
			eS	26 34.24	
WAX	0.78	312	iP	26 25.74	-1.2
			eS	26 36.21	
TGL	1.00	326	iP	26 29.55	-1.2
			eS	26 44.06	
CTGM	1.05	9	eP	26 30.26	-1.2
			eS	26 45.16	
YKU	1.06	110	eP	26 30.75	-0.8
CROM	1.10	319	eP	26 30.83	-1.6
			eS	26 46.88	
HMT	1.35	288	eP	26 35.39	-1.3
			eS	26 54.84	
KAIM	1.38	271	eP	26 37.02	0.0
RAGM	1.57	288	eP	26 38.71	-1.0
GLB	1.84	326	eP	26 42.30	-1.4
SGAM	1.85	289	eP	26 43.38	-0.4
FID	2.52	291	eP	26 54.79	1.3
KLU	2.61	309	eP	26 53.84	-0.9
VZW	2.66	297	eP	26 54.65	-0.9

17 obs. associated

? SEP 30, 1991 14h 44m 37.92± 6.64s
39.694 N ±58.4km 28.837 E ±19.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZI	0.81	37	ePn	44 53.50	-0.1
YLV	0.96	25	ePn	44 56.50	0.2
KGT	1.40	303	ePn	45 03.50	0.1
CTT	1.48	348	ePn	45 04.50	-0.1

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

? SEP 30, 1991 14h 59m 39.17± 1.51s
15.177 S ±18.6km 66.932 E ±30.1km
DEPTH = 10.0km (geophysicist)
4.7mb (2 obs.)
MID-INDIAN RIDGE (429)

DMN	46.04	23	PKP	08 05.98	0.8
PKI	46.12	23	PKP	08 06.82	0.9
GKN	46.22	22	PKP	08 06.96	0.4
KKN	46.27	23	PKP	08 05.96	-1.0
GUN	46.60	23	PKP	08 08.26	-1.5
ASPA	63.24	109	eP	10 09.90	-0.7
	1.0s		4.20nm		4.6mb
WR2	64.10	105	iPd	10 16.20	0.0
	0.8s		5.70nm		4.8mb
			e	10 22.20	
CTAO	75.11	107	e(P)	11 24.00	0.3
KHC	79.49	328	eP	11 52.90	5.4X
			e	12 04.50	
PRU	79.53	329	eP	11 47.50	-0.1
MAT	84.53	50	eP	12 15.00	1.1

S.D. = 1.0 on 10 of 11 obs.

& SEP 30, 1991 16h 32m 32.50s
42.940 N 71.512 W
DEPTH = 4.0km
SOUTHERN NEW ENGLAND (476)
<WES-P>. MD 2.7 (WES). Felt (III) at Auburn, Manchester, Merrimack and Nashua, New Hampshire. Felt (II) at Goffstown, New Hampshire.

BNH	1.66	6	eP	33 01.50	-1.0
MIM	2.91	37	eP	33 18.00	-2.4
		2 obs. associated			

SEP 30, 1991 16h 33m 06.28± 1.36s
37.766 N ± 3.9km 101.323 E ± 3.1km
DEPTH = 20.4 ± 10.3 km
5.3mb (47 obs.) 4.5Msz (4 obs.)
QINGHAI, CHINA (325)
ML 4.9 (BJI). Felt in Qinghoi and Gonsu Provinces.

GTA	2.02	325	iPgc	33 41.40	1.5
			Sg	34 09.00	
LZH	2.62	129	iPnc	33 50.50	2.0
	Z 10s		25.60um		
			Pg	33 54.00	
			Sn	34 25.00	
			Sg	34 30.00	
CD2	7.13	163	Pn	34 53.20	1.1
XAN	7.20	119	Pn	34 50.20	-2.9X
			Sg	36 55.00	
BTO	7.32	65	ePn	34 50.70	-4.1X
			Pg	35 16.20	
			Sg	36 52.50	
HHC	8.51	66	P	35 09.00	-2.5X
	Z 14s		10.20um		
			S	36 42.70	
TIY	8.80	87	P	35 12.70	-2.8X
	Z 10s		18.80um		
	E 10s		13.20um		
LSA	11.67	229	P	35 52.00	-3.2X
BJI	11.79	74	eP	35 56.00	-0.3
	Z 10s		8.96um		
	N 10s		7.79um		
WMO	11.96	305	eP	35 57.00	-1.7X
	Z 11s		6.00um		
			S	38 07.00	
GYA	12.14	157	iPc	36 01.00	-0.2
	1.0s		80.00nm		5.9mb
	Z 14s		2 40um		4.7MszX
	N 10s		4.40um		
	E 10s		7.10um		
			S	38 15.60	
KMI	12.66	174	Pc	36 07.00	-1.2
	2.0s		150.00nm		5.8mb
	Z 10s		4.10um		4.1Msz
			pP	36 18.50	
			S	38 33.00	
			sS	38 50.00	
TIA	12.73	92	Pc	36 05.00	-3.9X
	Z 14s		6.00um		
	E 10s		4.90um		
WHN	12.96	120	P	36 12.00	0.0
	0.6s		40.00nm		5.7mb
IRK	14.66	7	ePc	36 33.80	-0.4
			e	36 50.00	
			e	38 29.00	
			e	38 55.00	
			e	39 14.60	
			e	39 48.20	
			e	40 30.00	
			e	40 36.00	
			eS	40 44.80	
NJ2	15.46	106	eP	36 41.00	-3.8X
	Z 11s		4.00um		
			eS	39 35.00	
DL2	15.98	80	eP	36 52.00	0.6
	1.0s		200.00nm		5.2mb
	Z 14s		3.00um		4.5Msz
	E 10s		3.10um		
GUN	16.26	237	P	36 53.74	-1.7
KKN	16.74	238	P	36 59.06	-2.3X
PKI	16.80	237	P	36 59.88	-2.3X
DMN	16.97	238	P	37 03.36	-1.0
GKN	17.04	240	P	37 04.24	-0.8
SNY	17.57	70	Pd	37 11.00	-0.4
	1.6s		100.00nm		4.7mb
	Z 14s		5.20um		4.7MszX
	N 10s		3.10um		
			S	40 23.00	
SSE	17.67	106	Pc	37 13.20	0.5
	Z 14s		3.90um		
	N 12s		2.70um		
	E 13s		1.60um		
CN2	19.21	64	eP	37 30.00	-1.5
	Z 13s		6.80um		
			pP	37 34.00	15kmX
			S	41 02.00	
KSH	19.86	283	P	37 40.00	0.9
			pP	37 47.00	27kmX
			S	41 18.00	
			sS	41 30.00	
OIZ	20.10	156	eP	37 45.60	4.1X
	N 11s		1.30um		
NDI	22.06	253	iPc	38 01.00	-0.4
MDJ	22.28	63	eP	38 04.50	1.0
	Z 12s		3.20um		5.0MszX
			eS	42 04.00	
GAR	24.28	283	eP	38 23.30	0.0
			e	42 58.00	
			eSS	44 09.00	
			eSSS	44 53.00	
HYB	28.47	231	eP	39 00.00	-2.1
			eS	43 52.00	
YAK	29.93	27	iPd	39 13.00	-1.8
			e	42 43.00	
			e	44 47.00	
			e	47 26.00	
			e	48 24.00	
			e	49 22.00	
			e	50 34.00	
			e	51 39.00	
			e	00 51.00	
POO	30.71	239	iPd	39 34.50	12.4X
GBA	32.10	228	Pc	39 34.70	0.4
	1.0s		33.20nm		5.2mb
MAIO	33.23	281	iPc	39 46.40	2.3
			eS	45 12.00	
TAB	42.84	288	eP	41 07.00	2.3
MSL	45.78	287	ePd	41 28.50	0.3
KEV	49.74	334	eP	41 58.00	-0.6
BBTK	52.25	295	eP	42 19.00	0.7
HRI	52.60	286	iPc	42 21.70	0.8
DSI	53.60	284	eP	42 28.80	0.6
CSS	53.71	289	eP	42 30.00	1.0
MBH	54.78	283	eP	42 37.30	0.2
MLR	54.96	304	ePc	42 38.50	0.3

```
UPP     55.22 322 iP      42 37.80  -1.9
CMP     55.63 304 ePd     42 42.00  -1.0
BMR     55.78 307 ePd     42 46.00   2.1
HFS     57.02 323 eP      42 51.50  -1.1
        0.8s     31.80nm            5.4mb
      Z 17s      0.35um             4.5MszX
                  LR      06 40.00
SPC     57.26 310 eP      42 55.20   0.5
NB2     57.86 325 P       42 57.00  -1.6
        0.9s     19.80nm            5.1mb
BUD     58.66 308 eP      43 04.00  -0.3
SRO     58.97 309 iP      43 07.20   0.8
UZD     59.29 307 eP      43 09.60   0.9
SKO     59.33 301 eP      43 08.80  -0.2
VKA     60.01 310 iPc     43 14.10   0.5
        2.0s    164.00nm             5.8mb
                  i       43 17.80
BRG     60.34 313 iP      43 15.80  -0.1
        1.2s     12.00nm            4.9mb
PRU     60.36 312 Pc      43 15.80  -0.2
        1.5s     34.90nm            5.3mb
      Z 14s      0.60um             4.9MszX
      N 12s      0.40um
      E 13s      0.40um
                  e       43 18.80
                  e       43 40.50
CLL     60.70 314 iPc     43 17.60  -0.7
        1.3s     43.00nm            5.4mb
                  e       43 49.00
PTJ     61.23 307 e(P)c   43 21.70  -0.4
KHC     61.29 312 iP      43 22.50   0.1
                  e       43 25.80
                  e       06 22.00
WET     61.70 312 iPc     43 25.40   0.2
HOF     61.78 313 iPc     43 25.40  -0.3
MOX     61.78 314 iPd     43 25.90   0.2
        1.8s     54.00nm            5.4mb
VBY     61.85 307 e(P)    43 26.20   0.0
BHG     62.33 310 iPc     43 29.80   0.4
GRF     62.43 313 iPc     43 30.50   0.5
        1.3s     91.00nm            5.8mb
      Z 18s      0.30um             4.5Msz
                  e       43 33.40
FUR     63.09 311 iPc     43 35.10   0.7
WTTA    63.29 310 iPd     43 34.20  -1.7
        1.1s     51.40nm            5.6mb
MBC     63.37  10 eP      43 35.00  -0.8
        1.0s     12.00nm            5.0mb
TDS     63.82 301 P       43 39.80   0.5
OGA     63.84 310 eP      43 39.00  -0.6
        1.2s     42.00nm            5.5mb
CTI     63.85 309 P       43 38.80  -0.7
WTS     63.85 317 eP      43 39.00  -0.3
        3.0s   1154.00nm            6.5mb X
OSS     64.46 310 ePd     43 43.60   0.0
SFI     64.73 307 P       43 46.20   1.1
SLE     64.93 312 ePd     43 46.30  -0.1
ENN     64.93 316 eP      43 46.50   0.2
        1.0s     29.00nm            5.4mb
RSO     65.04  32 eP      43 46.00  -1.2
ZLA     65.13 312 ePd     43 47.70  -0.1
WR2     65.28 146 iPd     43 47.80  -1.1
        0.9s     15.70nm            5.2mb
CDF     65.32 313 eP      43 48.80  -0.2
        1.2s     23.80nm            5.2mb
MME     65.33 308 P       43 50.00   0.7
TMA     65.51 310 ePd     43 49.70  -0.7
BSF     65.89 313 eP      43 52.30  -0.4
        0.9s     16.10nm            5.2mb
HAU     66.06 313 eP      43 53.30  -0.4
      Z 19s      0.28um             4.5Msz
MMK     66.09 310 ePd     43 54.30   0.1
DIX     66.41 311 ePd     43 56.40   0.1
INK     66.64  19 eP      43 55.50  -1.5
EKA     67.22 323 Pd      44 00.20  -0.7
        0.7s     7.80nm             5.0mb
PGF     67.22 307 eP      44 01.60   0.3
        1.3s     86.65nm            5.7mb
BNI     67.38 310 Pd      44 02.20  -0.1
SBF     67.53 309 eP      44 03.10   0.0
        1.0s     40.00nm            5.5mb
LOR     67 89 313 eP      44 04.50  -0.8
        1.2s     17.85nm            5.1mb
      Z 20s      0.28um             4.5Msz
SSF     68 20 313 eP      44 06.70  -0.5
        1.0s      8.00nm            4.8mb
SMF     68.23 313 eP      44 07.00  -0.4
        1.1s     28.10nm            5.3mb
OIS     68.28 141 iPd     44 07.00  -0.9
LMR     68.38 309 eP      44 08.40   0.0
        1.3s     46.95nm            5.5mb
LRG     68.41 309 eP      44 08.60   0.1
        1.3s     36.10nm            5.4mb
AVF     68.43 313 eP      44 08.40  -0.2
        1.3s     37.90nm            5.4mb
BALM    68.80  28 eP      44 10.60  -0.2
BGF     68.85 313 eP      44 10.80  -0.5
MAF     69.20 313 eP      44 13.50   0.1
        1.1s     37.85nm            5.5mb
TCF     69.37 313 eP      44 14.50   0.0
        1.1s     29.30nm            5.3mb
LDF     69.41 316 eP      44 14.20  -0.4
        0.8s     16.10nm            5.2mb
FLN     69.51 316 eP      44 14.90  -0.4
        1.1s     43.95nm            5.5mb
      Z 20s      0.45um             4.7Msz
GRR     69.93 316 eP      44 17.50  -0.3
        1.0s     48.00nm            5.6mb
CAF     70.21 312 eP      44 20.00   0.4
        1.1s     23.20nm            5.2mb
LPF     70.24 316 eP      44 19.60   0.0
        1.4s     52.30nm            5.5mb
RJF     70.32 312 eP      44 20.70   0.5
        0.9s     16.40nm            5.2mb
MFF     70.55 314 eP      44 21.80   0.2
        0.9s     50.80nm            5.7mb
LPO     70.86 312 eP      44 23.90   0.4
        1.3s     28.90nm            5.2mb
LFF     70.98 312 eP      44 24.30   0.1
        0.8s     16.10nm            5.2mb
CTAO    71.39 136 iP      44 26.00  -1.0
        1.2s     16.89nm            5.0mb
TOL     76.83 310 iPc     44 59.00   0.7
        1.0s     60.00nm            5.6mb
STK     78.82 146 eP      45 12.70   3.6X
        0.5s      2.90nm            4.6mb
BFD     83.73 148 eP      45 34.60  -0.2
BWA     84.10 143 eP      45 38.10   1.3
MTD     84.96 244 iPd     45 40.00  -1.5
CAN     85.10 143 eP      45 42.50   0.7
PGC     85.22  28 eP      45 43.00   0.7
DZM     85.33 122 iPd     45 44.90   1.6
PNT     86.02  25 iPd     45 47.50   1.1
        0.8s     21.00nm            5.4mb
KRI     86.40 246 iPd     45 50.70   1.9
NEW     87.77  25 iP      45 55.20   0.3
        1.0s      8.75nm            5.0mb
BUL     89.28 244 iPd     46 02.00  -0.6
LRM     91.42  23 ePc     46 12.70   0.3
ORV     93.59  32 eP      46 21.20  -1.0
BW06    95.06  22 eP      46 28.50  -0.7
RSSD    95.32  18 iP      46 30.10  -0.3
        1.0s     35.25nm            5.8mb
MSU     98.06  26 eP      46 44.20   1.3
PV09    99.09  24 eP      46 48.00   0.4
GOL     99.11  21 eP      46 50.00   2.4
SIV   153.32 320 ePKP     53 05.00   8.1X
ZOBO  156.65 334 PKP      53 02 00  -0.1
        S.D. = 0.9  on 120 of 134 obs.
-------------------------------------------
    SEP  30, 1991  16h 54m 31.85± 0.65s
    26.803 S ± 6.3km   26.644 E ± 7.2km
    DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA            (584)
      mbLg 3.3 (BUL).

PRY      0.75 100 eP      54 46.90  -0.1
        1.0s    760.00nm
                  S       54 55.50
SEK      1.75 150 iPd     55 03.90   0.8
                  S       55 23.60
SLR      1.81  54 iPd     55 04.00  -0.1
                  S       55 28.00
FRS      3.16 201 iPd     55 22.40  -0.7
                  S       55 57.00
JOZ      4.88  99 eP      55 57.50   9.8X
        0.8s     44.78nm
                  S       56 44.50
BUL      6.87  16 iPn     56 16.00   0.1
                  iSn     57 30.50
                  iSg     58 06 00
CER      9.12 222 iPd     57 39.00  51.8X
        0.8s     45.00nm
                  S       58 41.50
WIN      9.65 294 eP      56 55.00   0.4
        1.0s     23.00nm            5.6mb X
                  S       58 39.00
KRI     10.30  16 iPn     57 03.30  -0.2
                  iSn     58 52.00
                  iSg     59 54.00
MTD     10.98  26 iPn     57 08.90  -3.9X
                  iSn     59 04.40
                  iSg     00 09.60
        S.D. = 0.6  on  7 of  10 obs.
-------------------------------------------
%   SEP  30, 1991  17h 05m 53.60± 1.13s
    18.464 N ± 9.1km  100.324 W ±10.3km
    DEPTH =  28.1 ±  8.6 km
 GUERRERO, MEXICO                   ( 59)

III      0.82  96 iP      06 09.65   0.3
                  iS      06 20.00
MRX      1.48 327 iP      06 18.63   0.1
                  iS      06 36.56
ACX      1.65 164 iP      06 20.92  -0.1
                  (S)     06 37.32
PPM      1.72  69 iP      06 22.32  -0.2
IIA      1.72  66 iP      06 22.20   0.2
                  (S)     06 37.69
IIT      1.99  74 iP      06 25.64  -0.6
IISM     2.84  79 iP      06 38.31   0.3
                  iS      07 11.24
        S.D. = 0.5  on  7 of   7 obs.
-------------------------------------------
    SEP  30, 1991  17h 31m 11.23± 0.78s
    23.730 N ± 4.4km  121.686 E ± 6.5km
    DEPTH =  22.0 ±  5.3 km
    4.4mb ( 10 obs.)
 TAIWAN                             (244)
      ML 4.4 (BJI).

TWD      0.36 347 iPd     31 18.80  -0.1
                  eS      31 22.90
TWF1     0.52 224 iPc     31 21.50  -0.1
                  eS      31 28.40
TWC      0.89  10 ePc     31 29.00   1.2
                  eS      31 42.20
TWO      0.95 305 iPd     31 27.80  -1.1
TWG      1.07 212 ePc     31 31.90   1.1
TWK      1.19 247 ePc     31 32.90   0.2
                  eS      31 47.50
OZH      3.07 294 Pd      31 58.90  -0.6
                  S       32 34.50
SSE      7.35 357 Pd      32 59.00  -0.9
      Z 12s      1.50um
      N 10s      0.90um
      E 10s      0.90um
                  S       34 19.20
NJ2      8.66 344 Pc      33 16.40  -1.8
      Z 10s      1.30um
                  pP      33 23.50
WHN      9.42 318 eP      33 29.00   0.3
      Z 12s      1.20um
TIA     13.05 343 eP      34 21.20   3.3X
GYA     13.88 284 P       34 28.20  -0.9
        1.0s     10.00nm            4.6mb
XAN     15.17 315 eP      34 45.50  -0.3
                  pP      34 51.70
TIY     16.03 333 eP      35 02.60   5.6X
      Z 16s      1.20um
      E 15s      0.50um
BJI     16.91 345 eP      35 15.50   7.4X
        1.8s     34.00nm            4.2mb
CD2     17.45 298 P       35 17.20   2.2
HHC     19.07 336 eP      35 34.70  -0.2
BTO     19.47 332 eP      35 40.90   1.2
LZH     19.73 313 eP      35 41.50  -1.1
        1.5s     26.00nm            4.3mb
      Z 12s      0.68um             4.3Msz
      E 10s      0.56um
CN2     20.26   8 eP      35 49.00   1.1
CHG     21.74 261 eP      36 03.00  -0.2
CHTO    21.74 261 eP      36 03.00  -0.2
        1.1s     11.19nm            4.2mb
GTA     24.23 315 eP      36 29.20   1.6
        1.4s     10.00nm            4.2mb
      Z 12s      0.60um             4.3MszX
      E 10s      0.60um
                  pP      36 37.40  29kmX
LSA     27.87 289 P       37 00.40  -1.6
GUN     32.43 285 P       37 44.24   1.9
```

30d 17h

PKI 32.85 284 P 37 45.44 -0.6
KKN 32.96 285 P 37 47.04 0.2
DMN 33.12 285 P 37 47.84 -0.5
GKN 33.52 285 P 37 52.40 0.7
WMQ 34.30 314 eP 37 58.50 0.3
Z 10s 0.60um 4.6MszX
eS 43 29.00
WR2 45.14 163 iPd 39 27.20 -0.9
0.5s 7.60nm 4.9mb
OIS 47.36 157 eP 39 45.00 -0.6
ASPA 48.58 165 eP 39 55.50 0.3
0.6s 3.90nm 4.6mb
WARB 49.85 174 iPd 40 04.50 -0.4
0.5s 5.00nm 4.8mb
STK 58.48 160 eP 41 11.20 3.2X
0.7s 1.80nm 4.3mb
INK 73.47 22 eP 42 43.00 -0.5
MBC 73.60 13 eP 42 45.00 0.9
YKA 83.21 23 eP 43 35.90 -1.0
0.6s 1.90nm 4.4mb
S.D. = 1.0 on 34 of 38 obs.

? SEP 30, 1991 17h 40m 18.78± 5.49s
18.513 S ±26.9km 168.226 E ±137.km
DEPTH = 199.2 ± 43.4 km
4.9mb (3 obs.)
VANUATU ISLANDS (186)

PVC 0.77 6 iP 40 47.00 -0.3
iS 41 12.00
BKM 0.84 1 iP 40 48.00 0.3
iS 41 13.20
DZM 3.91 205 iPc 41 20.10 0.0
iS 42 16.10
WR2 31.98 262 iPd 46 27.80 -0.4
0.4s 12 30nm 4.9mb
ASPA 32.38 255 iPc 46 31.90 0.1
0 4s 80 70nm 5.7mb
FORR 38.28 243 eP 47 21.00 -0.5
WARB 39.08 251 eP 47 29.00 0.8
0.4s 4.00nm 4.4mb
S.D. = 0.6 on 7 of 7 obs.

• SEP 30, 1991 18h 08m 16.60± 0.70s
30.305 N ±15.0km 67.732 E ± 8.7km
DEPTH = 33.0km (normal)
4.5mb (10 obs.)
PAKISTAN (710)

NDI 8.42 99 eP 10 18.00 -1.3
GAR 8.93 13 eP 10 26.10 -0.4
e 12 23.00
e 13 29.00
e 14 15.00
MAIO 9.12 313 ePn 10 30.00 1.0
eSn 12 06.00
DMN 15.45 96 P 11 54.30 0.4
KKN 15.55 95 P 11 51.70 -3.6X
PKI 15.72 96 P 11 55.74 -1.8
GUN 16.04 94 P 11 58.32 -3.4X
HYB 16.19 140 eP 12 07.00 3.7X
GBA 18.88 150 P 12 46.00 9.2X
0.5s 2.50nm 3.7mb
CHG 30.51 105 eP 14 31.00 1.9
OBN 33.25 327 eP 14 53.00 0.4
0.8s ******nm 7.9mb X
e 15 02.00
MLR 35.86 307 eP 15 13.00 -2.4
KAF 41.58 332 iP 16 03.10 0.6
0.4s 6.80nm 4.7mb
SOD 44.35 339 eP 16 25.00 0.0
HFS 46.46 326 eP 16 41.40 -0.5
0 4s 1.30nm 4.2mb
Z 17s 0.07um 3.7MszX
LR 37 53.00
NB2 47.87 327 P 16 52.20 -0.9
0.7s 3.40nm 4.5mb
BSF 49.15 309 eP 17 02.80 -0.5
LBF 51.11 308 eP 17 17.80 -0.4
0.5s 2.20nm 4.4mb
LOR 51.17 308 eP 17 18.30 -0.3
SMF 51.24 307 eP 17 19.00 0.0
0.7s 5.50nm 4.6mb
SSF 51.43 308 eP 17 20.50 0.0
0 7s 4.10nm 4.5mb
MBC 73.62 2 eP 19 49.00 1.1
0.5s 9 00nm 5.0mb

INK 80 42 8 eP 20 27.00 1.1
WR2 81.23 119 iPc 20 31.80 0.8
0.6s 2.70nm 4.4mb
YKA 87.51 1 eP 21 02.90 1.0
0 5s 1.80nm 4.6mb
S.D = 1.1 on 21 of 25 obs.

SEP 30, 1991 18h 35m 44.22± 0.69s
22.728 N ± 4.0km 94.416 E ± 3.6km
DEPTH = 75.4 ± 6.7 km
4.7mb (27 obs.)
MYANMAR (296)

CHTO 5.75 132 iPnc 37 10.00 1.0
eSg 38 16.00
LSA 7.54 338 iPd 37 33.00 -1.0
S 38 51.80
KMI 7.98 71 Pc 37 45.50 5.5X
1.0s 210.00nm 5.8mb X
pP 37 55.00
KHT 8.83 153 eP 37 54.50 3.1X
GUN 9.29 306 P 37 57.58 -0.4
PKI 9.48 302 P 37 59.82 -0.7
KKN 9.68 303 P 38 01.98 -1.3
DMN 9.73 302 P 38 03.16 -0.8
GKN 10.28 303 P 38 10.20 -1.1
CD2 11.66 44 Pd 38 30.60 1.0
0.6s 60.00nm 5.7mb
OIZ 14.88 101 eP 39 13.90 2.0
LZH 15.63 30 eP 39 20.50 -1.0
2.0s 85.00nm 4.6mb
sP 39 34.50
HYB 15.81 253 eP 39 23.70 0.0
eS 42 06.00
NDI 16.59 295 iPd 39 34.00 0.5
0.4s 322.03nm 5.9mb X
XAN 17.01 45 Pc 39 38.00 -0.7
S 42 49.00
sS 42 55.00
GTA 17.25 14 P 39 42.40 0.6
1.0s 10.00nm 4.0mb
GBA 18.49 244 Pc 39 58.60 1.6
0.9s 7.60nm 3.9mb
IPM 19.14 160 ePc 40 04.00 -0.4
0.6s 21.10nm 4.6mb
WHN 19.43 62 Pc 40 10.40 3.1X
0.7s 30.00nm 4.7mb
POO 19.69 262 eP 40 14.00 3.8X
PSI 20.39 167 ePd 40 19.20 1.8
e 46 00.00
KOD 20.43 235 eP 40 20.20 2.1
TIY 21.52 42 eP 40 28.00 -0.7
WMQ 21.76 347 eP 40 32.40 1.3
0.8s 100.00nm 5.3mb
S 44 26.00
BTO 22.16 33 eP 40 33.60 -1.5
KSH 22.89 321 P 40 45.30 3.1X
HHC 23.14 35 eP 40 44.00 -0.6
NJ2 23.56 62 eP 40 49.00 0.4
Z 14s 0.40um 4.0MszX
TIA 23.83 51 eP 40 52.00 0.7
SSE 25.24 65 eP 41 04.00 -0.7
1.0s 27.00nm 4.7mb
Z 10s 0.50um 4.3MszX
BJI 25.25 42 eP 41 06.00 1.3
MAIO 33.07 302 eP 42 17.00 2.1
CN2 33.09 43 eP 42 17.00 2.2
MBL 50.17 149 eP 44 34.00 -0.3
MTN 50.43 131 eP 44 35.00 -1.4
KNA 50.92 136 eP 44 39.00 -1.0
CSS 54 14 297 eP 45 04.00 0.1
MRWA 55.67 157 eP 45 14 50 -0.4
BAL 57.18 157 eP 45 25.00 -0.7
WR2 57.62 134 iPd 45 28.20 -0.7
0 6s 79.60nm 6.0mb X
WARB 57.78 145 eP 45 30.00 0.0
0.4s 3.00nm 4.8mb
MUN 58.26 158 eP 45 32.40 -0.8
KLB 58.46 157 eP 45 34 00 -0.6
VRI 58.69 311 ePc 45 37.00 0.8
COOL 59.15 153 eP 45 38.50 -1.0
MLR 59.25 310 ePc 45 41 00 0.8
NWAO 59.47 158 eP 45 40.00 -1.6
KEV 61.08 338 iP 45 52 00 -0.2
0 8s 20.50nm 5.3mb
OIS 61.60 131 iPc 45 55.40 -0.9
UPP 64.02 327 iP 46 10.80 -0.9

HFS 65.98 327 eP 46 23.50 -0.9
0.4s 11.60nm 5.2mb
CTAO 66.11 126 iPc 46 25.20 -0.6
PRU 66.54 316 P 46 28.40 0.3
e 46 55.40
NB2 67.12 328 P 46 30.70 -1.0
0.6s 6.60nm 4.7mb
KHC 67.28 315 eP 46 33.00 0.1
e 46 47.50
STK 70.61 139 iPd 46 56.60 3.1X
0.9s 5.80nm 4.5mb
CDF 71.51 315 eP 46 58.60 -0.3
0.6s 5.40nm 4.7mb
HAU 72.21 315 eP 47 02.60 -0.4
MTD 72.92 243 iPd 47 05.80 -1.9
LOR 74.03 315 eP 47 13.20 -0.4
0.7s 3.30nm 4.4mb
LBF 74.03 315 eP 47 13.40 -0.2
0.5s 2.20nm 4.3mb
SMF 74.21 314 eP 47 14.30 -0.4
0.8s 10.75nm 4.8mb
SSF 74.32 315 eP 47 15.40 0.1
0.7s 7.70nm 4.7mb
AVF 74.49 315 eP 47 16.00 -0.3
0.5s 2.20nm 4.3mb
TCF 75.40 314 eP 47 21.90 0.4
0.7s 5.50nm 4.6mb
EKA 75.78 324 P 47 24.00 0.6
0.6s 4.80nm 4.6mb
RJF 76.16 313 eP 47 26.50 0.7
0.8s 8.05nm 4.7mb
LDF 76.19 317 eP 47 25.70 -0.2
0.7s 6.60nm 4.7mb
FLN 76.36 317 eP 47 26.60 -0.2
LPO 76.58 313 eP 47 28.80 0.6
0.7s 8.80nm 4.8mb
GRR 76.72 317 eP 47 28.90 0.1
LFF 76.80 313 eP 47 30.10 0.8
0.3s 10.75nm 5.3mb
LPF 76.95 317 eP 47 30.40 0.3
0.7s 8.80nm 4.8mb
BUL 77.05 242 iPd 47 31.00 -0.3
MBC 79.09 8 eP 47 43.00 1.7
INK 82.73 16 eP 48 01.00 0.4
pP 48 27.00 99kmX
WIN 87.66 244 iPd 48 28.00 1.9
0.6s 10.00nm 5.1mb
SDV 145.34 333 ePKP 55 15.60 -0.4
ZOBO 162.34 288 PKP 55 40.00 0.7
S.D. = 1.0 on 73 of 79 obs.

• SEP 30, 1991 19h 24m 04.96± 1.14s
31.782 N ±10.0km 50.240 E ±15.5km
DEPTH = 33.0km (normal)
NORTHERN IRAN (348)

SHI 2.90 137 eP 24 50.00 0.0
IR5 3.43 5 eP 24 57.00 -0.6
IR4 3.49 9 eP 24 59.00 0.6
IR1 3.64 6 eP 25 01.00 0.5
KER 3.67 315 eP 25 01.00 0.1
IR7 3.92 4 eP 25 04.00 -0.5
S.D. = 0.6 on 6 of 6 obs.

• SEP 30, 1991 19h 25m 33.07± 0.59s
19.349 N ± 7.6km 121.194 E ±10.5km
DEPTH = 33.0km (normal)
4.5mb (6 obs.)
PHILIPPINE ISLANDS REGION (248)

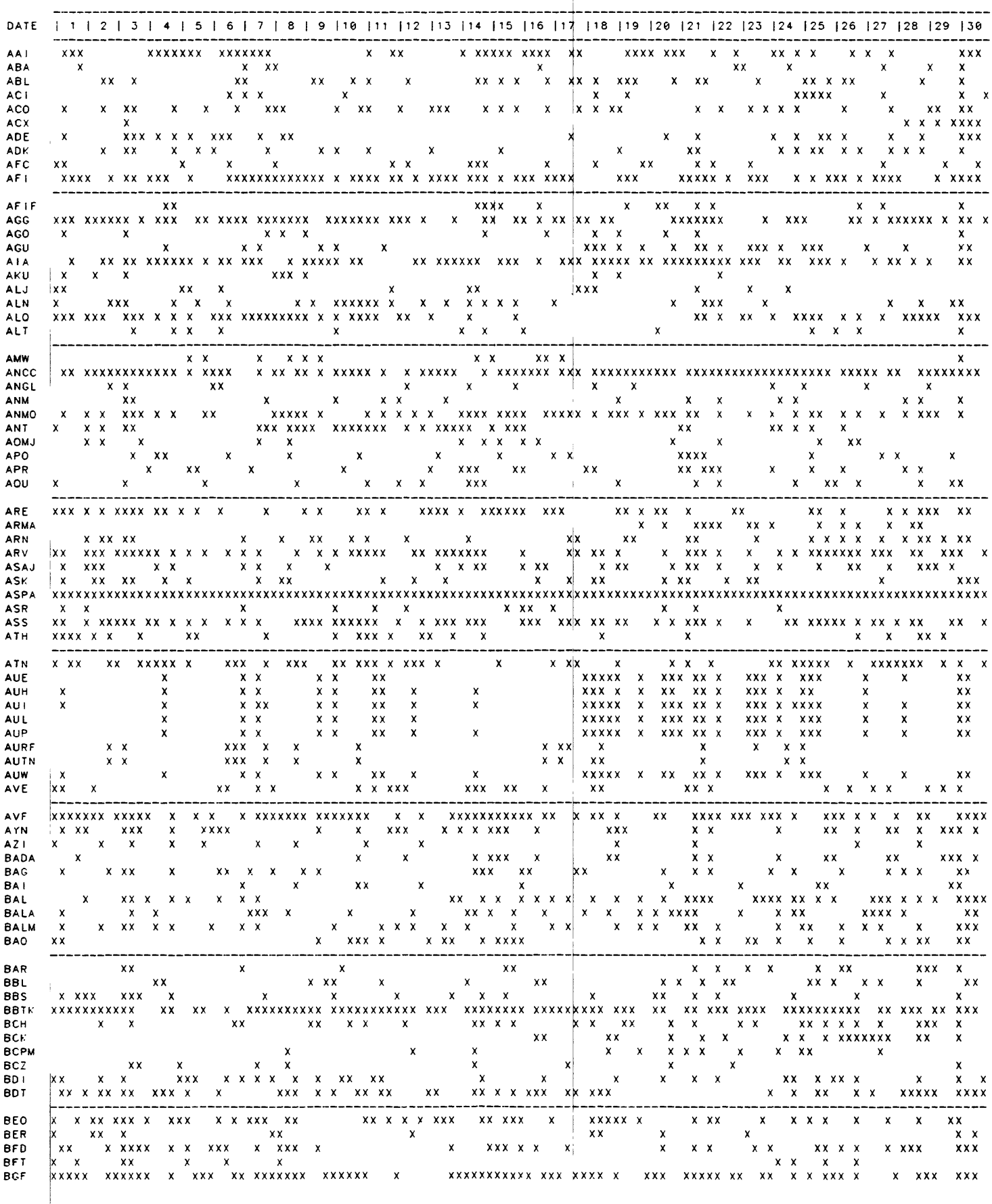
HKC 7.20 295 eP 27 14.90 -3.8X
GZH 8.21 298 P 27 28.60 -4.3X
OIZ 10.73 270 Pc 28 02.60 -5.0X
E 13s 1.30um
GYA 15.14 301 P 29 05.00 -1.3
XAN 18.26 326 eP 29 47.00 1.4
CD2 19.51 310 P 30 00.00 -0.7
Z 16s 0.80um
eS 33 35.00
TIY 19.83 339 eP 30 05.00 0.9
Z 20s 0.60um
N 15s 0.60um
CHG 21.04 272 eP 30 16.40 -0.2
CHTO 21.04 272 eP 30 16.50 -0.1
1.5s 18.02nm 4.2mb
BJI 21.07 349 eP 30 17.00 0.3
SNY 22.50 5 eP 30 30.00 -1.0

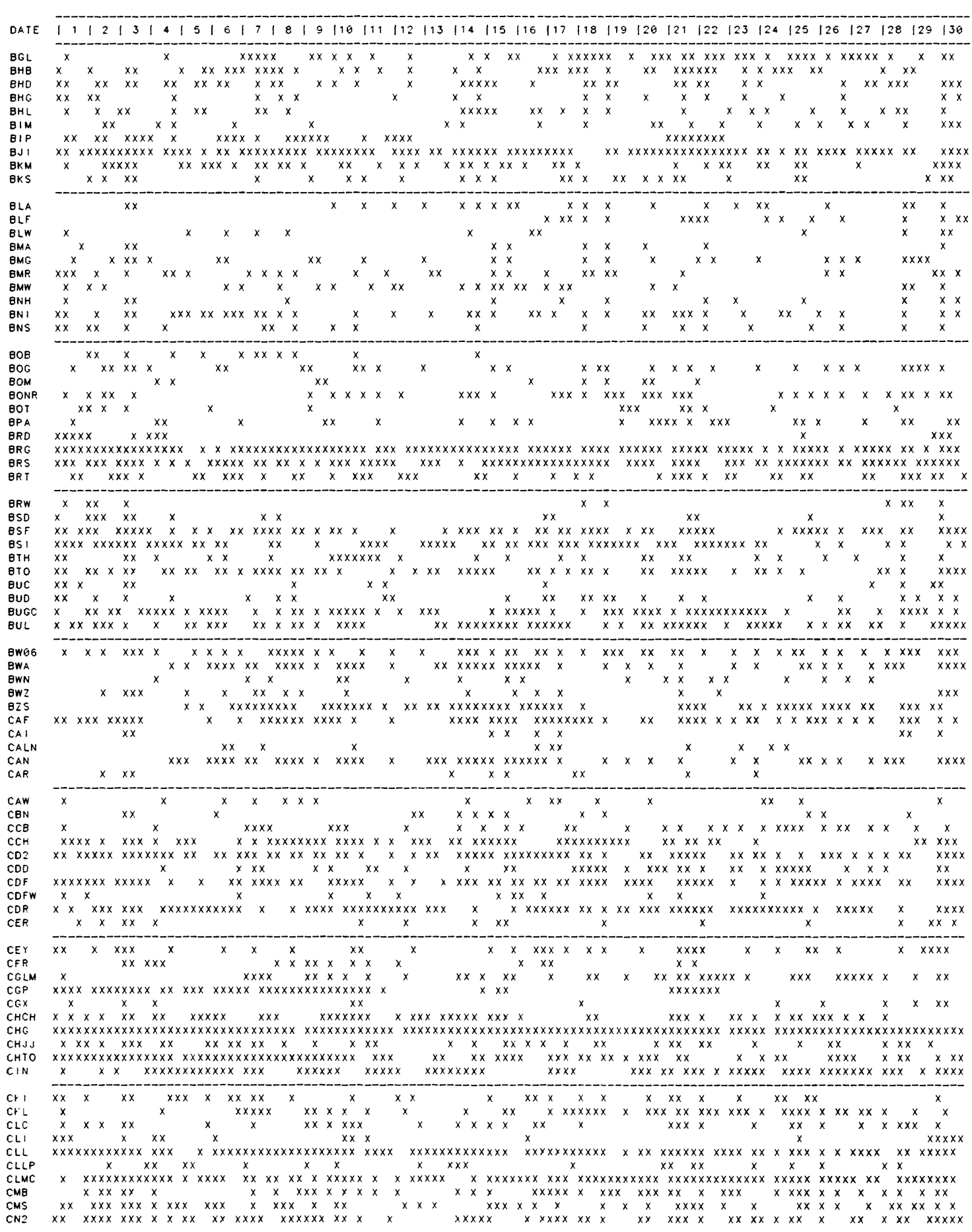
```
LZH     22.61 321 eP     30 19.00 -13.4X
        1.3s     38.00nm
      Z 16s       0.59um          4.1MszX
      N 10s       0.38um
MAT     22.73  38 eP     30 26.00  -7.4X
        0.7s      8.22nm          4.3mb
                  eS     34 41.00
HHC     22.96 341 eP     30 36.60   0.9
      Z 16s       1.00um          4.4MszX
      N 14s       0.40um
IPM     24.54 236 ePd    30 52.00   0.8
MDJ     26.15  14 eP     31 05.00  -1.0
ASPA    44.51 163 iPd    33 42.70  -0.8
        0.4s      6.30nm          4.8mb
WARB    45.57 173 iPc    33 50.70  -1.1
        0.5s      6.00nm          4.8mb
STK     54.56 159 eP     35 02.20   1.8
        0.4s      1.70nm          4.4mb
YKA     87.41  23 eP     38 18.30   0.3
        0.8s      2.60nm          4.5mb
      S.D. = 1.1  on  15 of  20 obs.
-------------------------------------
*  SEP  30, 1991  19h 49m 30.87± 2.37s
   40.732 N ±13.6km   20.405 E ±22.8km
   DEPTH =  10.0km  (geophysicist)
 GREECE-ALBANIA BORDER REGION     (392)

OHR      0.48  38 iPg    49 40.50  -0.2
        0.5s     76.00nm
                 iSg     49 49.30
                 Lg      49 52.50
FNA      0.74  86 iPc    49 44.70  -0.7
                 eS      49 57.48
IGT      1.20 183 ePc    49 53.12  -0.1
                 eS      50 11.29
GRG      1.53  81 ePc    49 59.80   1.5
KNT      1.94  76 ePc    50 03.68  -0.5
                 iS      50 30.65
      S.D. = 1.2  on   5 of   5 obs.
-------------------------------------
%  SEP  30, 1991  20h 01m 05.75± 1.74s
   44.125 N ±15.3km   11.712 E ± 9.2km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                   (545)

SFI      0.23 154 Pc     01 11.00   0.4
                 iSg     01 15.20
PGD      0.25 178 P      01 11.40   0.2
                 eSg     01 16.80
CRE      0.53 161 Pc     01 15.90  -0.5
                 eSg     01 25.70
BDI      0.81 266 P      01 21.40   0.0
                 eSg     01 36.00
ARV      1.09 125 P      01 26.20   0.0
                 eSg     01 41.50
ASS      1.26 146 P      01 29.10  -0.1
      S.D. = 0.4  on   6 of   6 obs.
-------------------------------------
   SEP  30, 1991  20h 12m 34.69± 2.18s
   45.340 S ±19.7km  167.315 E ±12.1km
   DEPTH = 149.4 ± 29.2 km
   4.6mb (  4 obs.)
 SOUTH ISLAND, NEW ZEALAND        (162)

MRW      6.78  55 P      14 12.80   0.0
                 S      15 28.00
TAU     14 56 273 eP     15 55.00   0.4
                 eS     18 17.00
CAN     17.15 299 eP     16 27.40   0.8
                 eS     19 28.30
                 eTT    32 00.10
TOO     18.07 288 eP     16 37.00  -0.4
                 e      19 45.00
BWA     18.10 300 eP     16 35.60  -2.1
                 eTT    32 24.00
STK     24.05 295 eP     17 42.70   5.6X
        0.9s      3.60nm          3.9mb
ASPA    34.64 297 iPd    19 11.90   0.5
        1.5s     12.10nm          4.4mb
WRC     37.14 302 iPd    19 33.30   0.9
        0.5s      9.80nm          4.8mb
SPA     44.85 180 iPc    20 35.10  -0.2
        0.9s     18.18nm          4.7mb
      S.D  = 1.2  on   8 of   9 obs.
-------------------------------------
%  SEP  30, 1991  21h 06m 57.73± 0.89s
   39.349 N ± 4.8km   16.509 E ± 8.6km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN ITALY                   (390)

ROI      0.23  12 P      07 03.10   0.5
ACI      0.24 270 P      07 03.40   0.6
CZI      0.32 246 P      07 05.70   1.4
TDS      0.34 337 Pd     07 04.70   0.0
                 eSg     07 10.80
CSI      0.46 338 P      07 06.50  -0.6
MMN      0.67 324 P      07 11.20   0.1
                 eSg     07 24.20
MGR      1.08 317 P      07 17.20  -0.8
                 eSg     07 32.70
SOI      1.32 196 P      07 22.10   0.0
                 eSg     07 40.10
ATN      1.44 215 P      07 22.50  -1.4
SGO      1.52 323 P      07 24.30  -0.6
                 eSn     07 43.50
BRT      1.62  19 P      07 27.20   0.8
      S.D. = 0.9  on  11 of  11 obs.
-------------------------------------
%  SEP  30, 1991  23h 42m 02.02± 2.85s
   39.020 N ±21.8km   23.370 E ±15.2km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                       (365)

AGG      0.81 270 iPc    42 16.70  -1.0
                 eS      42 27.78
PAIG     0.94  15 ePd    42 18.70  -1.2
                 iS      42 32.50
LIT      1.28 328 iPc    42 24.17  -1.5
                 iS      42 41.57
OUR      1.40  20 ePd    42 26.10  -1.4
                 iS      42 44.70
GRG      2.07 339 ePd    42 37.10  -0.2
SRS      2.10   5 ePc    42 37.38  -0.3
KNT      2.17 351 iPd    42 37.50  -1.2
                 eS      43 03.74
      S.D. = 0.6  on   7 of   7 obs.
```

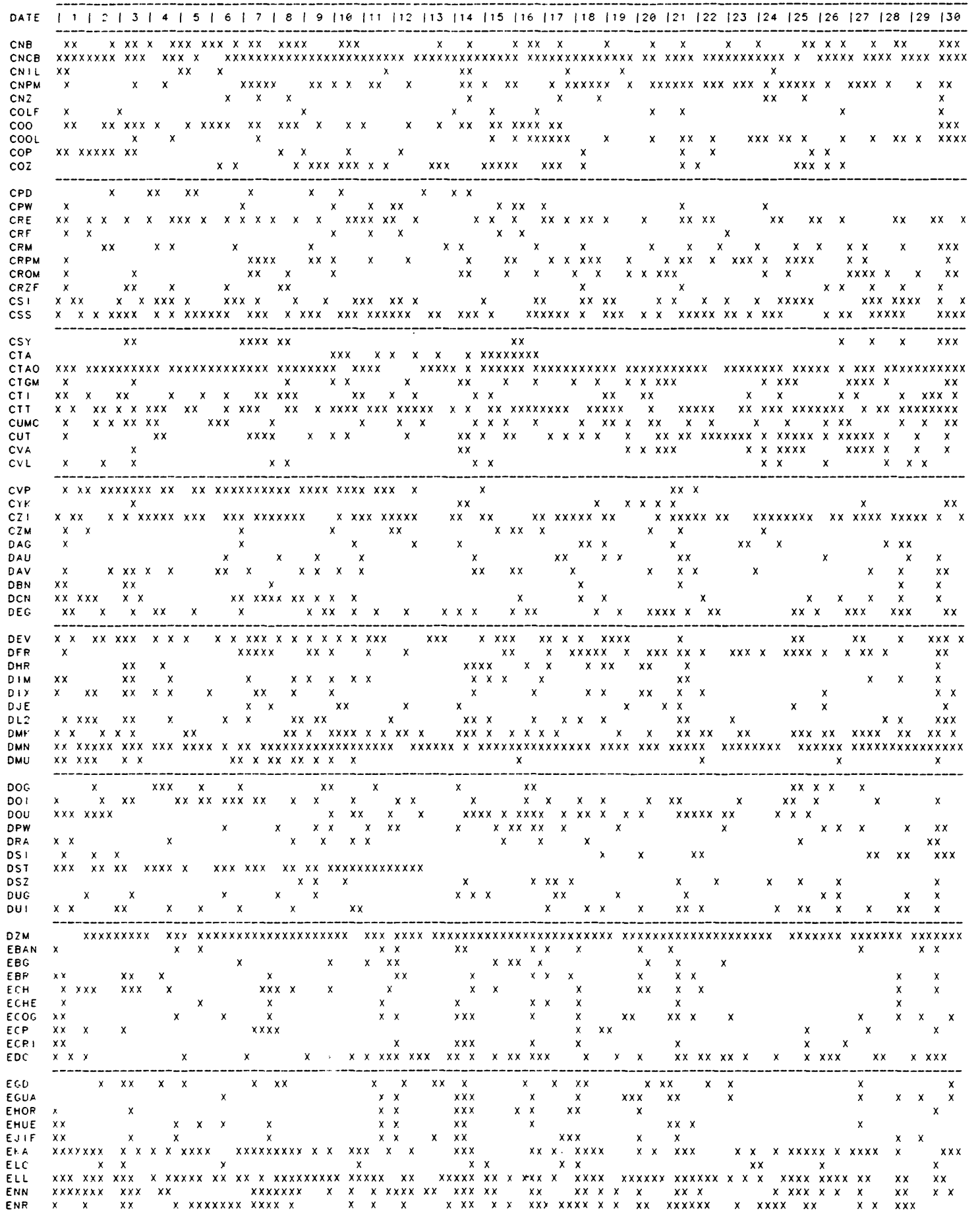
STATION DATA REPORT FOR SEPTEMBER, 1991

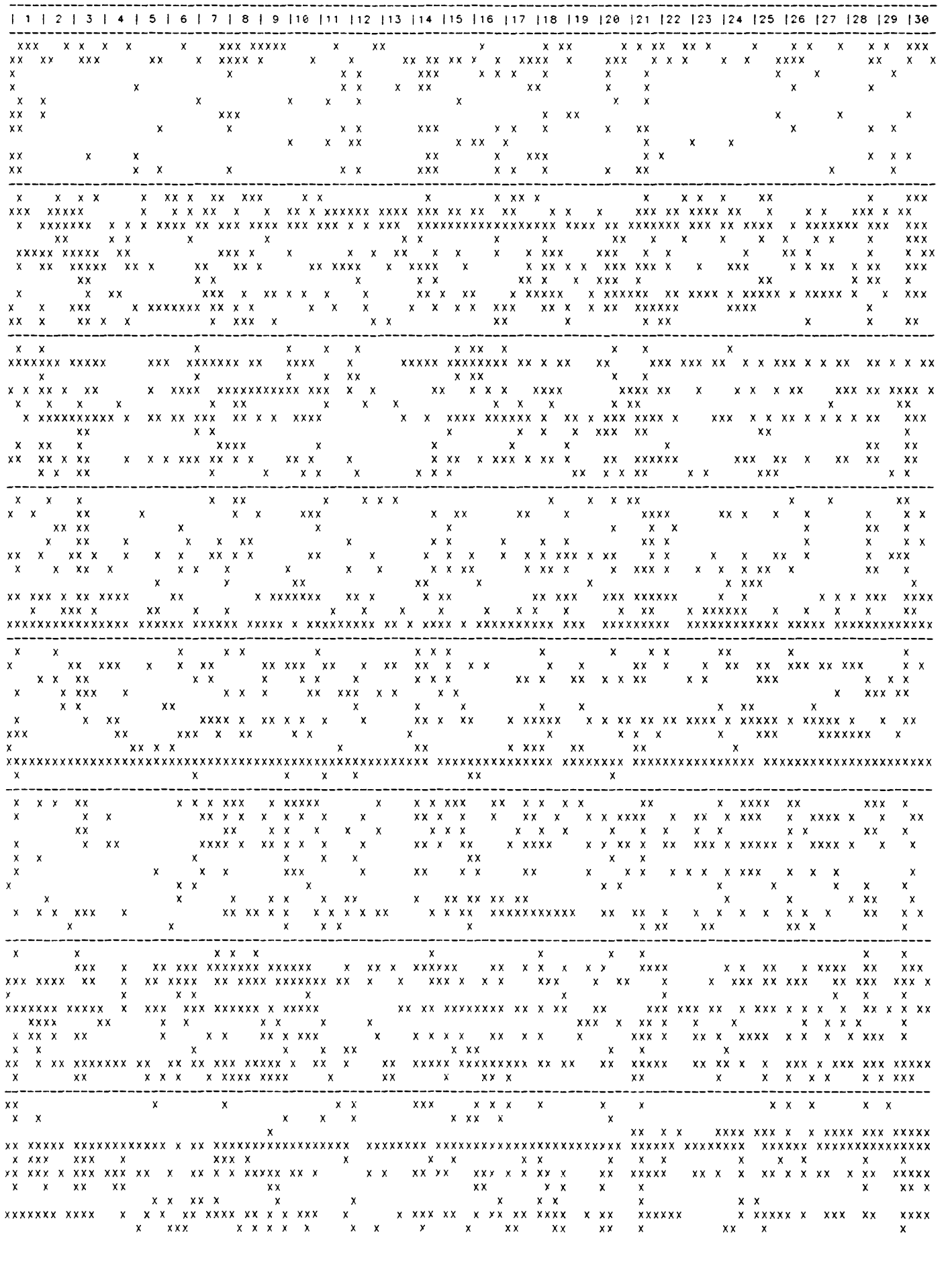
1390 stations reported 55727 reading arrival groups

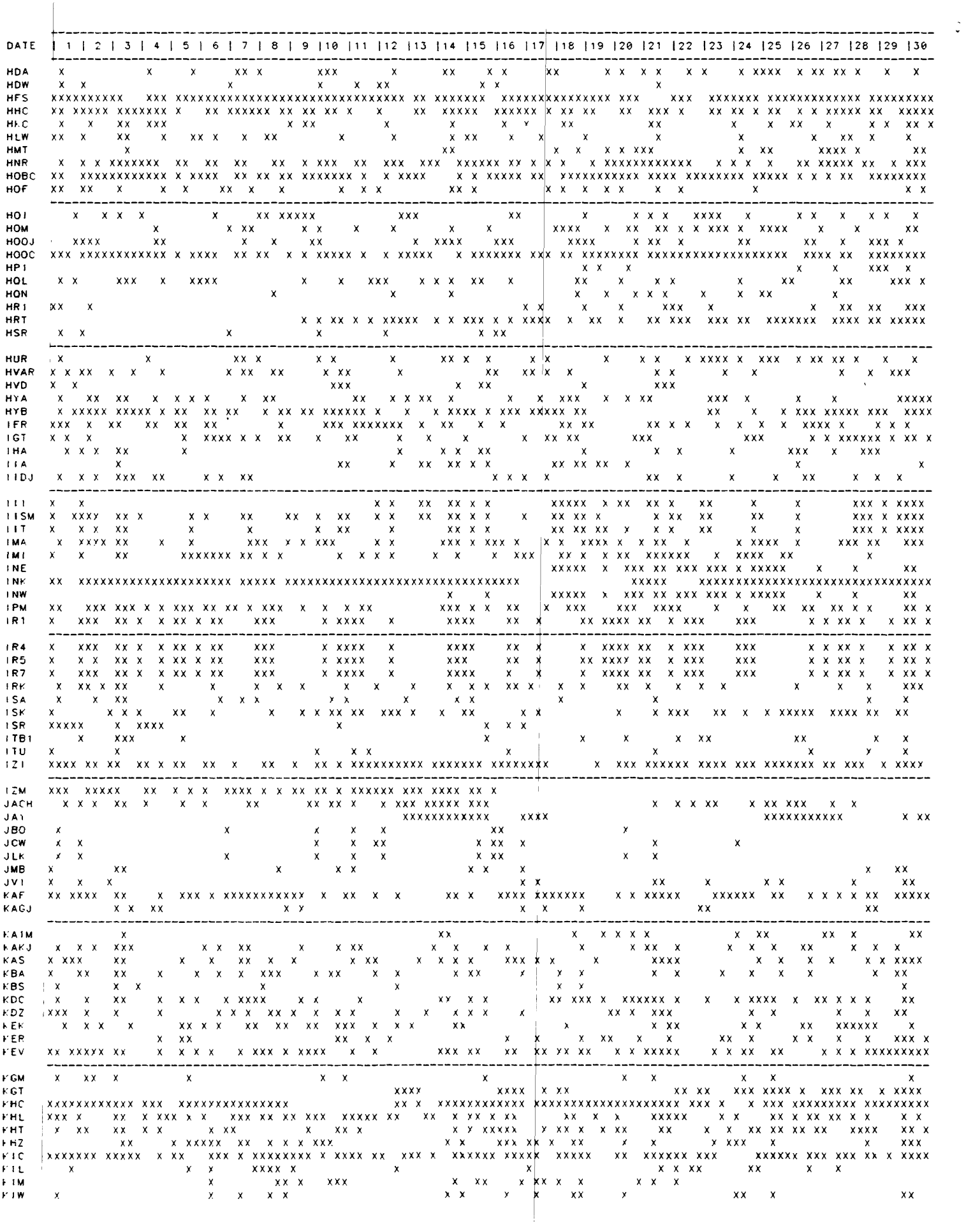
X = data received for this 6-hour time period

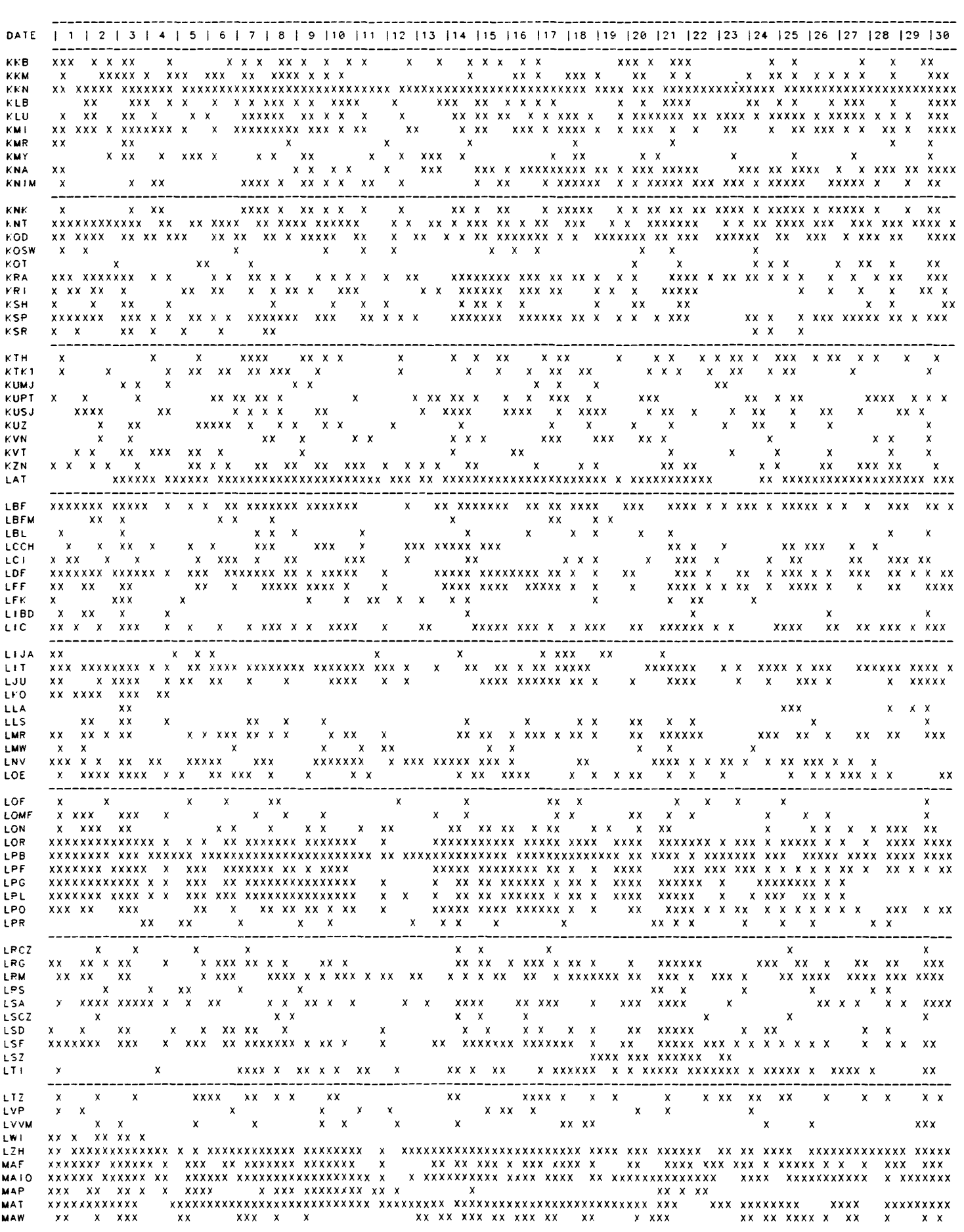


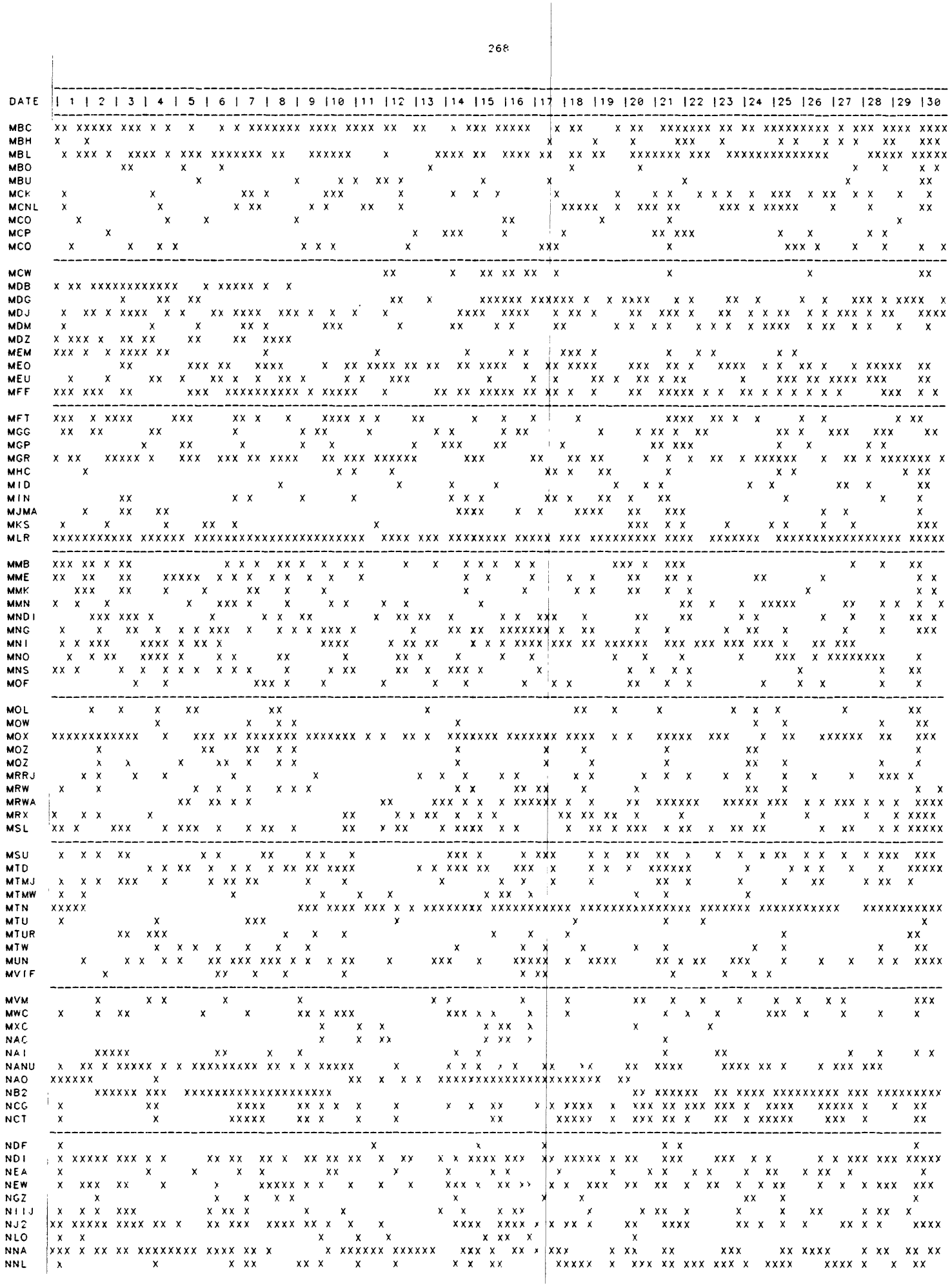

DATE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30
BGL
BHB
BHD
BHG
BHL
BIM
BIP
BJI
BKM
BKS
BLA
BLF
BLW
BMA
BMG
BMR
BMW
BNH
BNI
BNS
BOB
BOG
BOM
BONR
BOT
BPA
BRD
BRG
BRS
BRT
BRW
BSD
BSF
BSI
BTH
BTO
BUC
BUD
BUGC
BUL
BW06
BWA
BWN
BWZ
BZS
CAF
CAI
CALN
CAN
CAR
CAW
CBN
CCB
CCH
CD2
CDD
CDF
CDFW
CDR
CER
CEY
CFR
CGLM
CGP
CGX
CHCH
CHG
CHJJ
CHTO
CIN
CFI
CFL
CLC
CLI
CLL
CLLP
CLMC
CMB
CMS
CN2

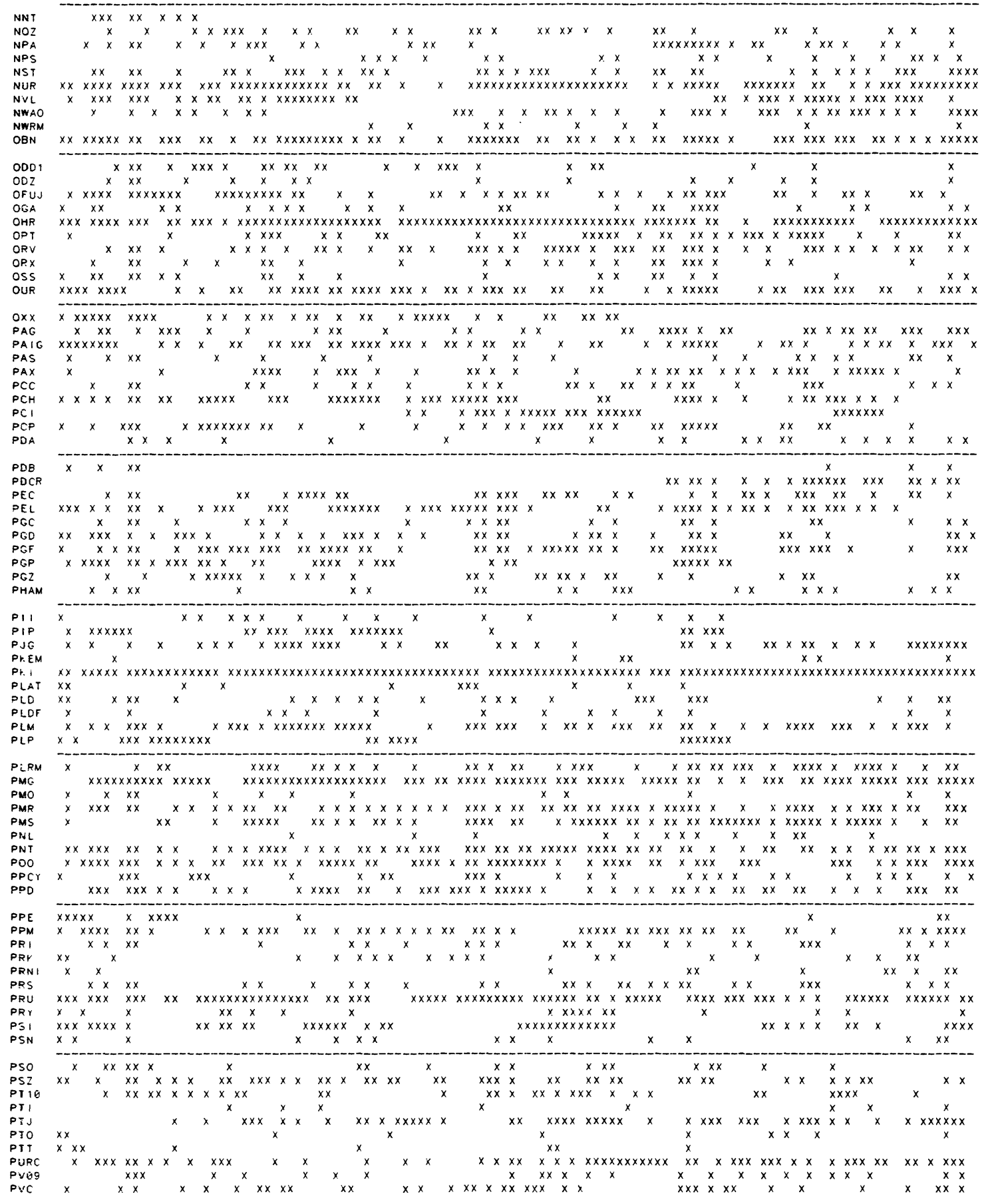

DATE
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30
CNB
CNCB
CNIL
CNPM
CNZ
COLF
COO
COOL
COP
COZ
CPD
CPW
CRE
CRF
CRM
CRPM
CROM
CRZF
CSI
CSS
CSY
CTA
CTAO
CTGM
CTI
CTT
CUMC
CUT
CVA
CVL
CVP
CYK
CZI
CZM
DAG
DAU
DAV
DBN
DCN
DEG
DEV
DFR
DHR
DIM
DIX
DJE
DL2
DMF
DMN
DMU
DOG
DOI
DOU
DPW
DRA
DSI
DST
DSZ
DUG
DUI
DZM
EBAN
EBG
EBP
ECH
ECHE
ECOG
ECP
ECRI
EDC
EGD
EGUA
EHOR
EHUE
EJIF
ELA
ELC
ELL
ENN
ENR

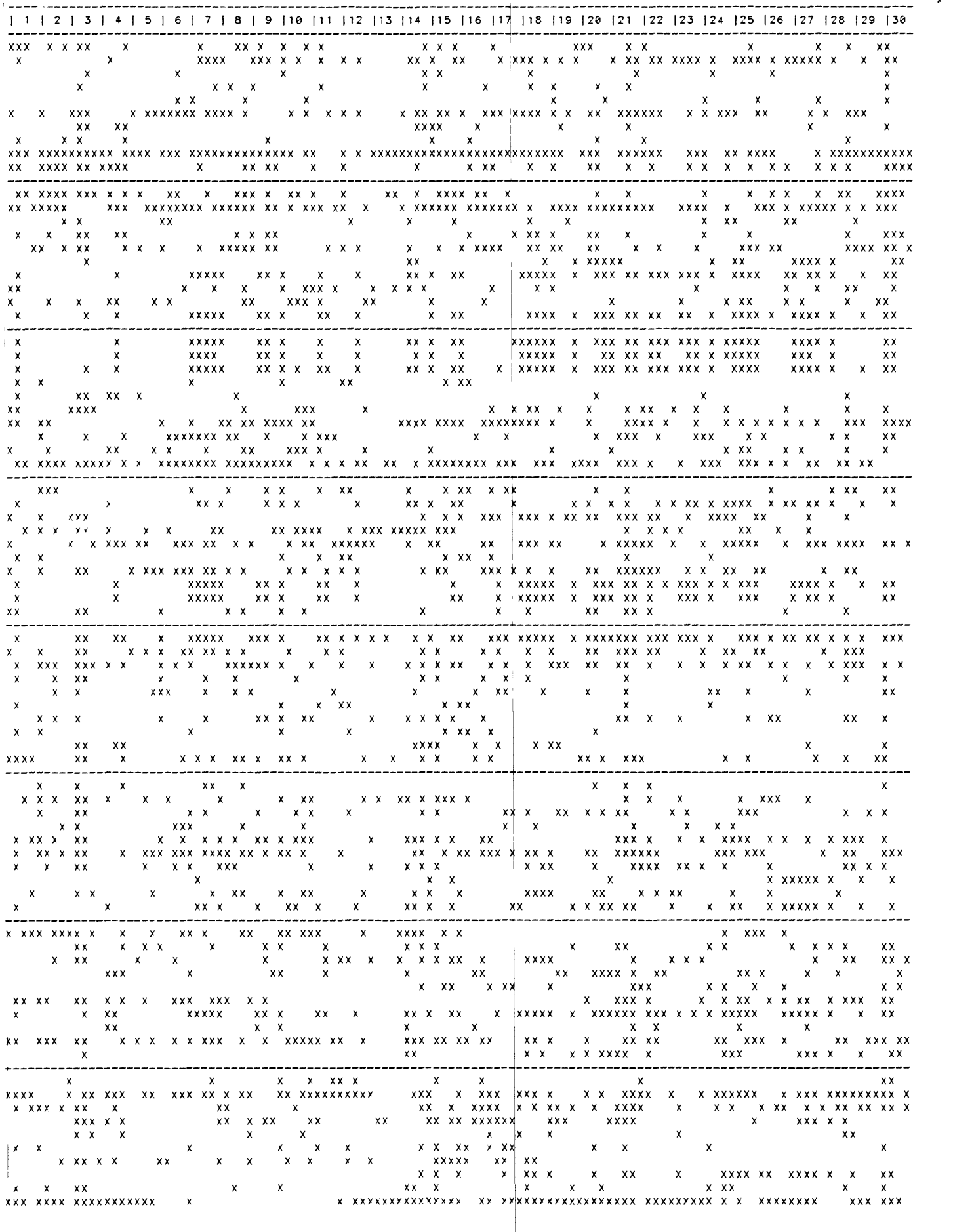

DATE
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
ENT
EPF
EPLA
EPRU
ESD
ETA
ETOR
ETW
EVAL
EVIA
EWZ
EZN
FBA
FDF
FEL
FFC
FHC
FID
FIN
FIR
FL2
FLN
FMW
FNA
FOO
FORR
FOX
FRB
FRF
FRI
FRO
FRS
FUO
FUR
FVI
FVM
FYU
GAR
GAZ
GBA
GBTN
GBZT
GCC
GDH
GGP
GHO
GIB
GIBL
GKN
GL2
GLA
GLB
GLD
GLI
GLK
GLM
GMB
GMW
GOL
GPA
GRC
GRF
GRG
GRI
GRR
GRW
GSC
GSM
GTA
GUA
GUD
GULW
GUMO
GUN
GWF
GYA
GZH
GZR
HAU
HBZ

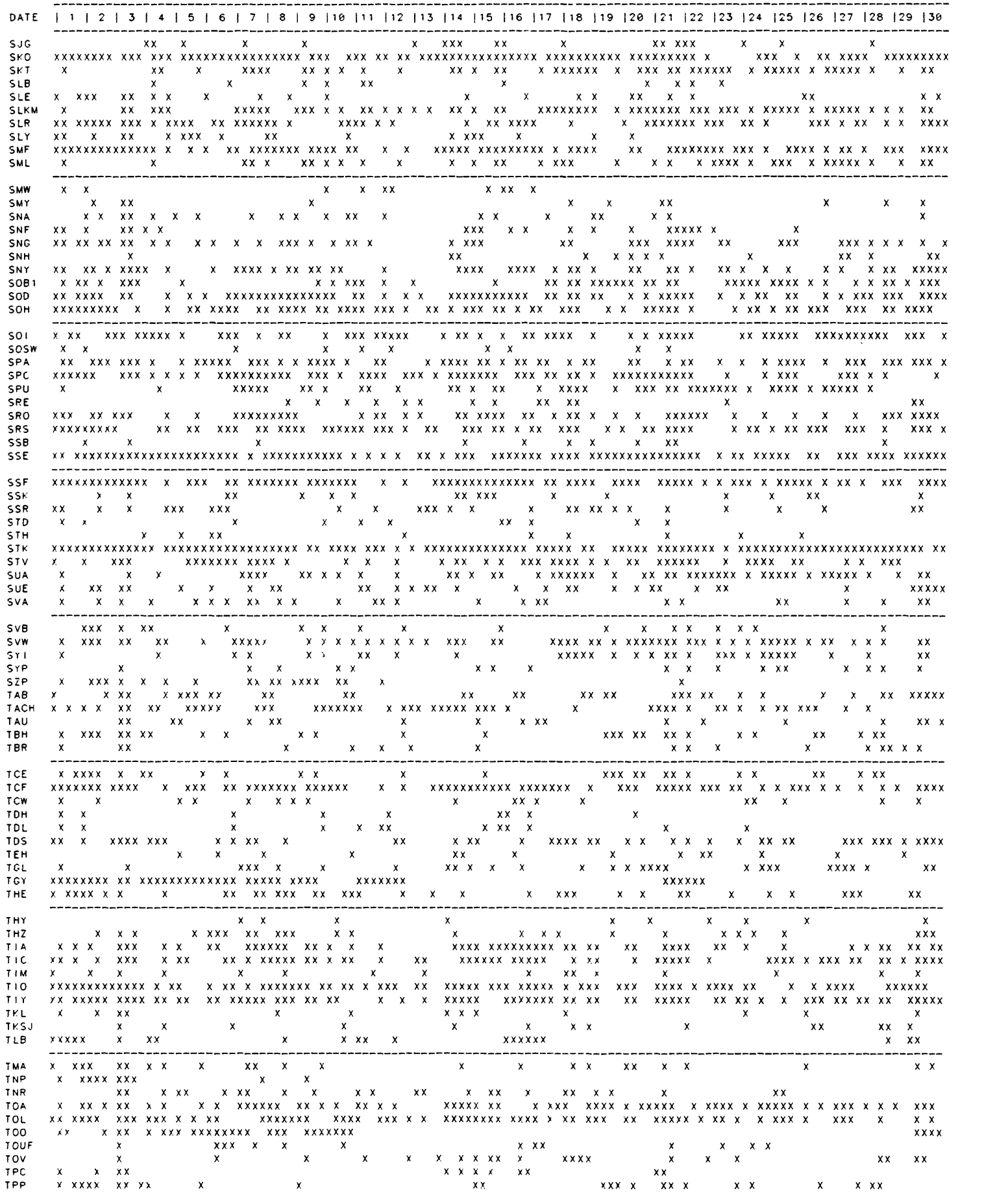

DATE
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
HDA
HDW
HFS
HHC
HLC
HLW
HMT
HNR
HOBC
HOF
HOI
HOM
HOOJ
HOOC
HPI
HOL
HON
HR1
HRT
HSR
HUR
HVAR
HVD
HYA
HYB
IFR
IGT
IHA
IIA
IIDJ
III
IISM
IIT
IMA
IMI
INE
INK
INW
IPM
IR1
IR4
IR5
IR7
IRK
ISA
ISK
ISR
ITB1
ITU
IZI
IZM
JACH
JAI
JBO
JCW
JLK
JMB
JVI
KAF
KAGJ
KAIM
KAKJ
KAS
KBA
KBS
KDC
KDZ
KEK
KER
KEV
KGM
KGT
KHC
KHL
KHT
KHZ
KIC
KIL
KIM
KIW

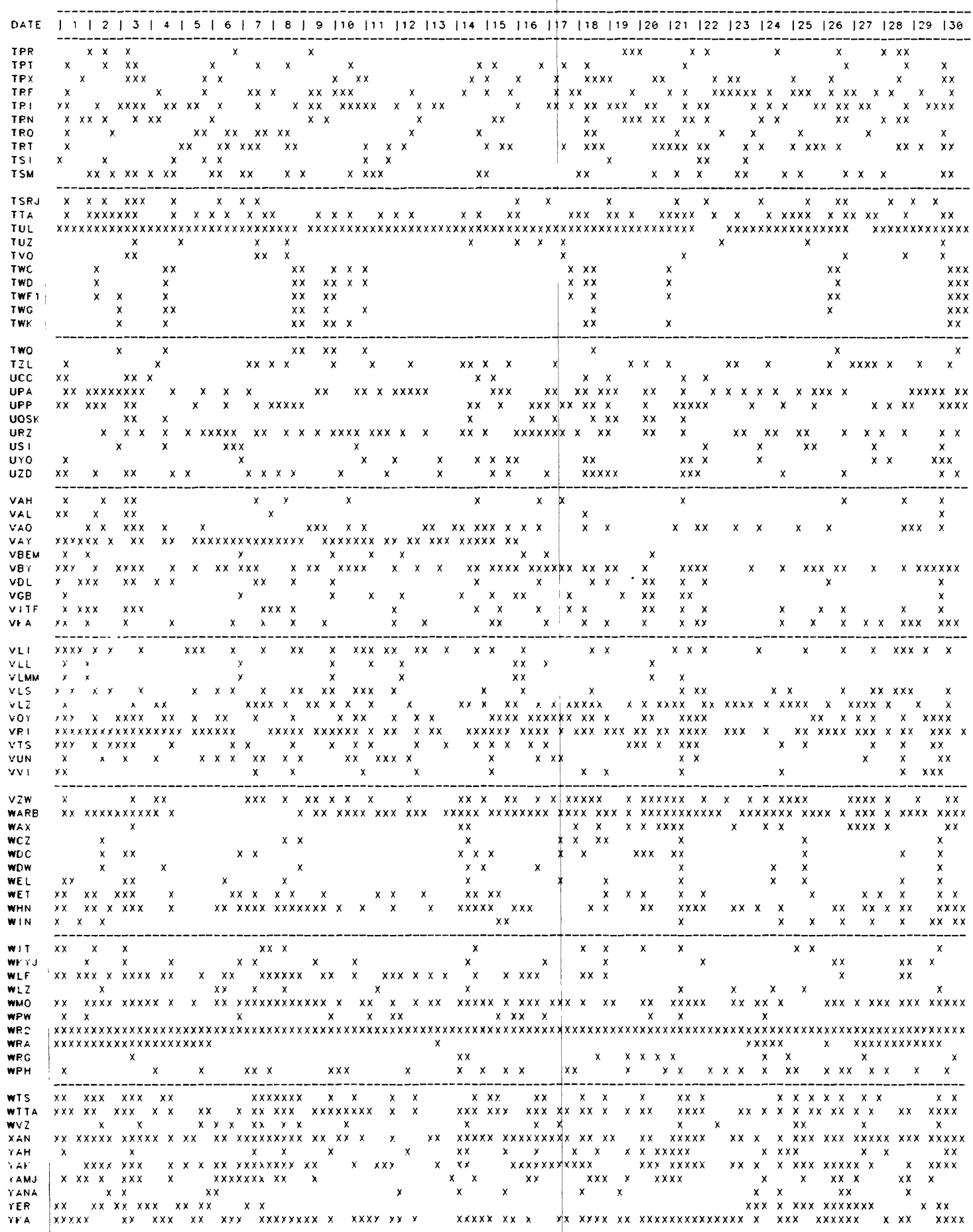

DATE
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30
KKB
KKM
KKN
KLB
KLU
KMI
KMR
KMY
KNA
KNIM
KNK
KNT
KOD
KOSW
KOT
KRA
KRI
KSH
KSP
KSR
KTH
KTK1
KUMJ
KUPT
KUSJ
KUZ
KVN
KVT
KZN
LAT
LBF
LBFM
LBL
LCCH
LCI
LDF
LFF
LFK
LIBD
LIC
LIJA
LIT
LJU
LKO
LLA
LLS
LMR
LMW
LNV
LOE
LOF
LOMF
LON
LOR
LPB
LPF
LPG
LPL
LPO
LPR
LRCZ
LRG
LRM
LRS
LSA
LSCZ
LSD
LSF
LSZ
LTI
LTZ
LVP
LVVM
LWI
LZH
MAF
MAIO
MAP
MAT
MAW


DATE
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
MBC
MBH
MBL
MBO
MBU
MCK
MCNL
MCO
MCP
MCO
MCW
MDB
MDG
MDJ
MDM
MDZ
MEM
MEO
MEU
MFF
MFT
MGG
MGP
MGR
MHC
MID
MIN
MJMA
MKS
MLR
MMB
MME
MMK
MMN
MNDI
MNG
MNI
MNO
MNS
MOF
MOL
MOW
MOX
MOZ
MOZ
MRRJ
MRW
MRWA
MRX
MSL
MSU
MTD
MTMJ
MTMW
MTN
MTU
MTUR
MTW
MUN
MVIF
MVM
MWC
MXC
NAC
NAI
NANU
NAO
NB2
NCG
NCT
NDF
NDI
NEA
NEW
NGZ
NIIJ
NJ2
NLO
NNA
NNL


DATE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30
NNT
NOZ
NPA
NPS
NST
NUR
NVL
NWAO
NWRM
OBN
ODD1
ODZ
OFUJ
OGA
OHR
OPT
ORV
OPX
OSS
OUR
OXX
PAG
PAIG
PAS
PAX
PCC
PCH
PCI
PCP
PDA
PDB
PDCR
PEC
PEL
PGC
PGD
PGF
PGP
PGZ
PHAM
PII
PIP
PJG
PkEM
PkI
PLAT
PLD
PLDF
PLM
PLP
PLRM
PMG
PMO
PMR
PMS
PNL
PNT
POO
PPCY
PPD
PPE
PPM
PRI
PRK
PRNI
PRS
PRU
PRY
PSI
PSN
PSO
PSZ
PT10
PTI
PTJ
PTO
PTT
PURC
Pv09
PVC


DATE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30
PVL
PWA
PWLA
PYM
PZI
PZZ
OASM
OCP
OIS
OIZ
OLP
OUE
OUR
OZH
RA8
RAGM
RDN
RDO
RDP
RDT
RDW
RED
REF
REMR
RIV
RIY
RJF
RKG
RMP
RMQ
RMW
RND
ROB
ROCH
ROI
RPW
RRL
RS1
RS2
RSL
RSO
RSP
RSSD
RUV
RUZ
RVC
RVR
RVW
RYD
RZN
SAL
SAN
SAO
SAOF
SBB
SBF
SCH
SCM
SCX
SDG
SDI
SDN
SDV
SEG
SEK
SES
SEW
SFG
SFI
SGAM
SGE
SGO
SHI
SHL
SHNJ
SHW
SILC
SIO
SIT
SIV


DATE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30
SJG
SKO
SKT
SLB
SLE
SLKM
SLR
SLY
SMF
SML
SMW
SMY
SNA
SNF
SNG
SNH
SNY
SOB1
SOD
SOH
SOI
SOSW
SPA
SPC
SPU
SRE
SRO
SRS
SSB
SSE
SSF
SSK
SSR
STD
STH
STK
STV
SUA
SUE
SVA
SVB
SVW
SYI
SYP
SZP
TAB
TACH
TAU
TBH
TBR
TCE
TCF
TCW
TDH
TDL
TDS
TEH
TGL
TGY
THE
THY
THZ
TIA
TIC
TIM
TIO
TIY
TKL
TKSJ
TLB
TMA
TNP
TNR
TOA
TOL
TOO
TOUF
TOV
TPC
TPP


DATE
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
TPR
TPT
TPX
TRF
TRI
TRN
TRO
TRT
TSI
TSM
TSRJ
TTA
TUL
TUZ
TVO
TWC
TWD
TWF1
TWG
TWK
TWO
TZL
UCC
UPA
UPP
UOSK
URZ
USI
UYO
UZD
VAH
VAL
VAO
VAY
VBEM
VBY
VDL
VGB
VITF
VPA
VLI
VLL
VLMM
VLS
VLZ
VOY
VRI
VTS
VUN
VVI
VZW
WARB
WAX
WCZ
WDC
WDW
WEL
WET
WHN
WIN
WIT
WKYJ
WLF
WLZ
WMO
WPW
WRC
WRA
WRG
WPH
WTS
WTTA
WVZ
XAN
YAH
YAF
YAMJ
YANA
YER
YFA

```
      ------------------------------------------------------------------------------------------------------------------------
DATE  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |10 |11 |12 |13 |14 |15 |16 |17 |18 |19 |20 |21 |22 |23 |24 |25 |26 |27 |28 |29 |30
      ------------------------------------------------------------------------------------------------------------------------
YKU                                 X               X      XX        X       X   X X X X           X            X           X
YLV   XXXX XX XXX XX X XXX XX  XX  XX  X  XXXX X XX XXXXX XXXXXXX XXXXXXXX X   XX  XX  XXXXXX XXXX XXX XXX XXX XXXXXXXXXXXXXX
YONJ      X    X     X        X         X    X                        X     X X            X                XX       XX  X
YYYY           X    X X XX X  X     X X  XX   XX XX XX XX      XXXX X XX X   X     XXXXX X        X XX  XX   X   XXXXXXX XXX
ZAG   XX      XXX    X          X    X        X      XX        X X   XX  X XXX     X    X  X     X   X   X   X       X   XX
ZLA   X  XXX   XX    X           X   X    X                  X              X X    XX   X  X              XX              X X
ZOBO  XXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXX XXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXX  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
ZON   X         XXXX         X  X X  X X XX    X  X    X  XXXX XXX X           XX X    X     X X     X XX  XXX  X      X XX
ZSP            XX               X           X X    X         X X        XX     X   X   XX     X        XXX           X  X XX
ZST   XXXXXXXXXXXX X XXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX        XXXXXXXXXXXXXXXX XXXXXXXXX
      ------------------------------------------------------------------------------------------------------------------------
```

The following stations each reported less than 10 readings:

AAE	ABF	ABH	ABHA	ACU	ADH	ADI	AFR	AGMR	AGX	AHA	AIN	AKSR	ALB	AMAN	ANGW	ANTN	APM
ARO	ASW	ATE	ATZ	AVOW	BAC	BBG	BBJ	BDBC	BDH	BDNM	BDV	BEAW	BERF	BGMT	BHT	BHW	BIB
BJA	BLH	BLN	BMNM	BNM	BOH	BRK	BRLK	BRN	BRTN	BRVW	BRY	BST	BSZ	BTB	BUC1	BUT	BVD
BVW	BWD	CALA	CAYA	CBB	CBSW	CCM	CCS	CCW	CEH	CEI	CEOS	CFTV	CGL	CHOI	CIR	CIS	CLE
CLK	CLNB	CLP	CMCZ	CMP	CMW	COL	COLW	COR	COTA	CPB	CPE	CPH	CPK	CRNM	CROR	CRTN	CTFE
CUSS	CVT	CWB	CWC	CXM	DBO	DCP	DES	DHH	DHW2	DIW	DLA	DLB	DLF	DOMF	DRV	DRZ	DWY
EAB	EALH	EAU	EBH	EBL	EDB	EDI	EDR	EDU	EGRA	ELF	ELO	ELYF	EMEL	EMM	EMS	ENIJ	ENSF
EPH	ERC	ERK	EROO	ERUA	ESCF	ESEL	ESK	ESR	ESY	ET3	ETB	ETER	ETT	EYL	EZAM	FAM	FCV
FG3	FRU	FUG	GBL	GCG	GDR	GELF	GGC	GHW	GIO	GLH	GMO	GMTN	GRAI	GRB1	GRB5	GRBF	GRFO
GRN	GRT	GT2	GUAN	GWJ	HAY	HAYW	HBH	HBMT	HBO	HCY	HIA	HIN	HKL	HLP	HMH	HNB	HOJ
HON	HOR	HPO	HPU	HRV	HRY	HSO	HTC	HTW	HUH	HUL	HVU	HYT	IAS	IIC	IIS	IKP	ILT
IMW	ISSF	ITB	ITB7	IVA	IVS	JAT	JAU	JNW	JOZ	JSC	KAE	KBR	KFH	KHKI	KHU	KIP	KKH
KKU	KLL	KLM	KMOR	KNH	KOH	KONO	KPO	KRO	KUH	LAV	LAZ	LCCM	LDN	LESF	LFU	LHE	LHS
LLAV	LNOR	LOCW	LOHW	LPA	LPM	LRV	LSPF	LST	LTCM	LTMT	LVNJ	LVV	MADF	MAJO	MAO	MBW	MCMT
MCT	MDW	MEMT	MEP	MEW	MGB	MGH	MGZ	MHA	MHZ	MIM	MJ2	MKA	MKT	MLH	MLS	MLX	MMCZ
MML	MMR	MNB	MOH	MOMI	MOOW	MOR7	MORO	MRS	MSCZ	MSI	MSS	MSZ	MTHF	MUB	MUD	MUDI	MVH
MWH	MYV	MZX	NA2	NAB	NAV	NC2	NDE	NED	NEV	NKA	NKC	NKY	NLW	NPH	NRZ	OBC	OBH
OD2	OFK	OHW	OLLA	OLY	ONR	OOW	OPA	ORT	OSD	OSP	OT2	OTR	OUT	OUZ	OVA	OZB	PACW
PAE	PAF	PAHZ	PATW	PATZ	PCA	PCG	PCHF	PCJ	PCM	PCT	PCY	PERF	PET	PFB	PFO	PGB	PGO
PHC	PICO	PIG	PINI	PLBC	PLE	PLL	PML	PNJ	POF	POW	PPL	PPN	PPR	PPT	PRAF	PRM	PRW
PTH	PTS	PUE	PUH	PUYF	PVY	PWH	OTO	OUIL	OZA	RAC	RAMW	RAO	RAR	RBL	RC1	RDJ	REDW
REMW	REVF	REY	RGS	RIM	RKT	RMN	RSM	RSW	RUP	SAGI	SALF	SAP	SAW	SBC	SBCZ	SBG	SCE
SCI	SCP	SEO	SGS	SHB	SIM	SIZ	SJAS	SJI	SLA	SLEB	SLP	SLW	SMNM	SNB	SNOW	SOA	SOF
SONG	SPJ	SPT	SPW	STEW	STR	STS	STW	SURF	SWH	SXM	TAC	TARW	TATO	TAVF	TAZ	TBI	TBM
TCO	TCT	TEHZ	TER	TIK	TLC	TMI	TMP	TMW	TNS	TOD	TPAW	TREF	TRGS	TRH	TRXW	TTG	TTH
TUH	TUNG	TVI	TWM1	TWW	TWZ	UDD	UDU	ULC	UME	UNM	UTU	UWE	UZH	VAI	VC1	VDB	VDCF
VFP	VGZ	VHO	VIB	VILF	VIPM	VSM	VSS	VTG	VTHM	VVO	WAH2	WAHZ	WAL	WATA	WG3	WHA	WHB
WHC	WHH	WIH	WIW	WMTN	WOB	WOH	WPB	WRD	WSI	WSSR	WTV	WTX	XLV	YAKW	YHJ	YPE	YSS
ZNT																	