

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

EARTHQUAKE DATA REPORT

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by

U.S. Geological Survey
NATIONAL EARTHQUAKE INFORMATION CENTER¹

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1991

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EARTHQUAKE DATA REPORT

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

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

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

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

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

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

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

Hypocenter Symbols

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

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

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

References

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- 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.

& OCT 01, 1991 00h 40m 02.60s
40.572 N 124.935 W
DEPTH = 21.0km
NEAR COAST OF NORTHERN CALIF. (35)
<BRK>. ML 3.1 (BRK).

FOX	0.72	94	iPc	40	15.92	-0.4
			iS	40	25.22	
FHC	0.76	72	iPc	40	16.07	-1.0
			iS	40	26.37	
WDC	1.82	89	iPc	40	31.38	-1.8
			eS	40	45.00	
LTCM	2.18	99	eP	40	36.80	-1.5
LBFM	2.43	70	eP	40	41.20	-0.9
MIN	2.55	94	iPc	40	41.49	-2.2
ORV	2.82	110	iPd	40	45.31	-2.1
PCC	3.66	146	iPc	40	56.78	-2.5
8 obs. associated						

& OCT 01, 1991 00h 47m 15.70s
36.983 N 121.950 W
DEPTH = 8.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.5 (BRK).

GCC	0.06	321	iPc	47	17.12	-0.6
			iS	47	18.34	
MHC	0.43	34	ePd	47	24.60	0.1
			iS	47	31.20	
SAO	0.46	118	iPd	47	24.33	-0.7
PCC	0.62	326	iPc	47	27.31	-0.8
PRS	0.80	144	iPc	47	31.16	-0.3
			iS	47	42.12	
LLA	0.89	114	iPc	47	31.98	-0.9
BKS	0.92	346	eP	47	32.60	-0.9
ZSP	0.99	346	iPc	47	34.42	-0.2
PRI	1.33	129	iPd	47	41.27	0.7
CMB	1.63	49	iPc	47	45.27	0.5
PHAM	1.70	132	eP	47	44.20	-1.6
11 obs. associated						

& OCT 01, 1991 01h 03m 06.69s
58.006 N 142.457 W
DEPTH = 10.0km (geophysicist)
GULF OF ALASKA (15)
<AEIC>. ML 2.6 (AEIC).

PNL	2.30	42	eP	03	40.15	-5.2
			S	04	06.05	
HON	2.36	51	eP	03	40.80	-5.3
			S	04	07.98	
PCA	2.39	28	eP	03	41.28	-5.2
			S	04	08.29	
YAH	2.39	9	iP	03	41.49	-5.3
			S	04	08.01	
BCPM	2.44	36	iP	03	42.03	-5.2
			S	04	08.60	
BALM	3.04	1	eP	03	50.40	-5.4
6 obs. associated						

% OCT 01, 1991 02h 57m 02.40 ± 0.85s
37.645 N ± 6.7km 15.031 E ± 8.6km
DEPTH = 10.0km (geophysicist)

SICILY (398)						
MNO	0.39	317	P	57	10.70	0.2
			eSg	57	14.20	
MEU	0.55	188	P	57	13.50	0.0
			eSg	57	24.30	
ATN	0.62	33	P	57	14.30	-0.5
			eSg	57	24.30	
SOI	0.92	62	P	57	20.50	0.6
			eSg	57	35.90	
CZI	1.79	29	P	57	33.30	-0.3
S.D. = 0.6 on 5 of 5 obs.						

OCT 01, 1991 03h 06m 33.58 ± 0.47s
43.803 N ± 4.8km 26.731 E ± 6.1km
DEPTH = 15.6 ± 5.6 km
BULGARIA (359)

BUC1	0.74	317	eP	06	54.00	6.4X
PSN	1.06	96	iPgc	06	53.00	-0.1
PVL	1.17	241	iPgc	07	13.00	18.0X
CFR	1.72	36	iPd	07	03.00	0.0
BRD	1.73	7	eP	07	07.00	3.8X

MLR	1.78	342	iPc	07	03.40	-0.6
MTUR	1.86	321	ePd	07	13.00	7.9X
CMP	1.90	321	ePc	07	04.00	-1.7
DIM	1.96	207	eP	07	08.00	1.5
DRA	1.98	297	iPc	07	08.00	1.2
VRI	2.07	360	iPc	07	09.00	0.9
DMK	2.12	159	ePn	07	08.70	-0.2
PGB	2.26	237	iPg	07	13.00	2.1
KDZ	2.36	205	eP	07	13.00	0.7
RZN	2.58	216	iP	07	15.00	-0.6
CLI	2.77	8	ePc	07	17.50	-0.7
VTS	2.85	246	iPg	07	23.00	3.7X
CTT	2.94	154	ePn	07	21.00	0.5
ALN	2.95	190	ePn	07	21.04	0.4
MFT	3.04	172	ePn	07	31.00	9.0X
MMB	3.13	226	iPg	07	29.00	5.8X
KGT	3.38	173	ePn	07	26.00	-0.7
SRS	3.55	222	ePn	07	28.40	-0.8
			eSn	08	21.92	
KNT	3.87	228	ePn	07	32.84	-0.9
SOH	3.89	221	ePn	07	33.72	-0.3
OUR	4.03	211	ePn	07	34.48	-1.4
BZS	4.07	298	ePc	07	31.50	-5.0X
PAIG	4.49	212	ePn	07	41.08	-1.5
S.D. = 1.1 on 20 of 28 obs.						

% OCT 01, 1991 03h 12m 06.71 ± 1.94s
17.896 N ± 17.2km 66.801 W ± 6.4km
DEPTH = 10.0km (geophysicist)
PUERTO RICO REGION (90)

CLLP	0.28	49	P	12	12.20	-0.4
			S	12	17.40	
MGP	0.30	292	P	12	12.80	-0.1
			SS	12	18.80	
MEP	0.30	325	P	12	13.10	0.1
LRS	0.40	354	P	12	14.80	0.0
SJG	0.66	71	iP	12	18.80	-1.0
LPR	0.98	65	P	12	26.70	1.4
S.D. = 1.0 on 6 of 6 obs.						

? OCT 01, 1991 03h 51m 15.05 ± 3.09s
7.414 S ± 37.4km 126.641 E ± 20.2km
DEPTH = 473.4 ± 24.9 km
BANDA SEA (280)

KUPT	4.05	228	eP	52	33.00	0.2
			eS	53	29.50	
SLKI	4.65	97	iPc	52	37.80	-0.4
			iS	52	53.20	
MTN	6.98	141	eP	53	02.10	0.8
			0.3s	128.00nm	5.6mb	
KNA	8.54	166	eP	53	17.20	-0.8
WR2	14.54	150	eP	54	21.80	-0.1
			0.2s	5.40nm	4.8mb	
MBL	15.17	205	eP	54	22.00	-6.3X
QIS	18.12	137	iPc	54	57.80	0.2
S.D. = 0.9 on 6 of 7 obs.						

% OCT 01, 1991 04h 38m 04.93 ± 1.12s
39.347 N ± 5.6km 16.511 E ± 10.7km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

ROI	0.23	11	P	38	10.30	0.4
ACI	0.24	271	P	38	10.60	0.6
TDS	0.34	337	P	38	11.50	-0.4
			eSg	38	18.40	
CSI	0.46	338	P	38	14.40	0.1
MMN	0.67	324	P	38	18.40	0.1
			eSg	38	31.40	
MGR	1.08	317	P	38	24.70	-0.5
SOI	1.32	196	P	38	29.10	-0.2
S.D. = 0.5 on 7 of 7 obs.						

& OCT 01, 1991 04h 43m 48.38s
61.851 N 150.725 W
DEPTH = 60.3km
SOUTHERN ALASKA (2)
<AEIC>. ML 2.7 (AEIC).

SUA	0.39	181	iPd	43	59.55	0.0
			eS	44	08.72	
SKT	0.40	289	ePd	43	58.75	-0.8
			eS	44	07.48	
PWA	0.45	116	iPc	43	59.82	-0.1
			eS	44	09.03	

CUT	0.60	21	iPd	44	00.86	-0.6
			eS	44	10.51	
PLRM	0.80	108	iPc	44	03.18	-0.8
			eS	44	15.62	
NCG	0.82	237	iPd	44	03.50	-0.8
			eS	44	16.16	
PMS	0.83	137	iPc	44	03.68	-0.7
			eS	44	16.67	
GHO	0.86	94	iPc	44	04.42	-0.4
			eS	44	16.34	
CRP	0.90	230	iPd	44	04.85	-0.6
			eS	44	18.20	
BGL	0.99	234	ePd	44	05.91	-0.7
CKL	1.01	230	eP	44	06.25	-0.6
			eS	44	20.24	
SML	1.14	91	iPc	44	07.62	-0.8
			eS	44	22.98	
NKA	1.14	193	eP	44	10.09	1.7
KNK	1.17	111	iPc	44	08.25	-0.6
HUR	1.24	24	iPd	44	08.83	-1.0
			eS	44	25.26	
SLKM	1.37	170	eP	44	10.82	-0.8
			eS	44	29.51	
RDT	1.52	213	eP	44	13.28	-0.4
			eS	44	32.96	
DFR	1.58	218	eP	44	14.10	-0.5
SCM	1.61	89	ePc	44	14.05	-1.0
			eS	44	35.18	
TRF	1.62	7	eP	44	13.65	-1.6
RDN	1.67	217	ePd	44	15.05	-0.8
REF	1.67	216	ePd	44	15.50	-0.4
			eS	44	37.72	
RDW	1.70	217	ePd	44	15.94	-0.5
RS2	1.71	216	eP	44	16.03	-0.4
RSO	1.71	216	eP	44	15.93	-0.5
RS1	1.71	216	ePd	44	16.04	-0.4
			eS	44	38.21	
KTH	1.71	357	eP	44	15.23	-1.2
RED	1.75	216	eP	44	16.55	-0.4
RND	1.78	28	eP	44	16.03	-1.4
SEW	1.86	160	eP	44	18.13	-0.2
GLI	2.00	118	iPc	44	18.11	-2.3
MCK	2.06	23	eP	44	20.20	-1.0
KNIM	2.09	135	ePc	44	18.61	-3.0
INW	2.14	214	eP	44	21.69	-0.7
TOA	2.16	81	eP	44	21.62	-1.1
VLZ	2.23	107	eP	44	21.17	-2.3
LTI	2.29	141	eP	44	21.45	-3.0
KLU	2.32	97	ePc	44	23.04	-1.9
FID	2.33	116	eP	44	22.25	-2.7
CNPM	2.35	186	eP	44	26.11	0.9
TZL	2.51	83	eP	44	26.62	-0.9
SDG	2.52	72	eP	44	26.96	-0.7
TTA	2.69	296	iPc	44	27.90	-2.2
PAX	2.69	63	ePd	44	28.90	-1.3
HDA	3.08	32	e			

01d 05h

GLK	5.08	50	P	05 09.98	-7.5
LON	5.08	47	P	05 10.11	-7.4
REMR	5.11	46	P	05 10.60	-7.4
RVC	5.12	45	P	05 10.84	-7.3
WPW	5.19	49	P	05 11.31	-7.8
GL2	5.23	59	P	05 11.32	-8.3
FMW	5.27	46	P	05 12.79	-7.6
GSM	5.39	43	P	05 14.22	-7.7

28 obs. associated

* OCT 01, 1991 05h 12m 07.47±1.93s
6.207 S ± 7.6km 151.206 E ±12.3km
DEPTH = 54.8 ± 26.2 km
4.4mb (5 obs.)
NEW BRITAIN REGION, P.N.G. (192)

RAB	2.22	26	eP	12 44.00	1.5
			iS	13 16.00	
LAT	4.20	264	eP	14 17.20	66.6X
PMG	5.12	231	eP	13 33.00	9.4X
			eS	14 22.00	
HNR	9.23	111	eP	14 19.00	-1.7
OIS	18.17	217	eP	16 17.00	-0.6
GUA	20.59	342	eP	16 44.10	-0.4
	0.8s	101.49nm		5.2mb	
GUMO	20.65	342	eP	16 45.00	-0.1
PJG	20.65	342	eP	16 44.50	-0.6
MTN	20.86	250	eP	16 46.00	-1.2
BRS	21.12	176	iPd	16 50.30	0.4
	1.0s	6.50nm		3.9mb	
WR2	21.31	229	iPd	16 51.60	-0.3
	0.6s	12.60nm		4.5mb	
			eS	20 46.30	
OLP	21.33	197	eP	16 52.60	0.7
DZM	21.58	138	iPc	16 55.20	0.6
ASPA	24.05	222	iPd	17 20.50	1.8
	0.8s	27.50nm		4.8mb	
STK	27.08	198	eP	17 56.00	9.1X
	1.0s	3.90nm		4.0mb	

S.D. = 1.2 on 12 of 15 obs.

OCT 01, 1991 06h 36m 49.81±0.37s
55.759 S ± 6.4km 27.943 W ± 8.9km
DEPTH = 33.0km (normal)
5.0mb (2 obs.)
SOUTH SANDWICH ISLANDS REGION (153)

SNA	18.41	152	iPc	41 04.00	0.4
	1.0s	70.00nm		4.8mb	
AIA	19.95	227	e(P)	41 21.00	-0.4
NVL	22.74	147	eP	41 50.00	0.4
SPA	34.42	180	iPc	43 35.40	-0.5
	0.7s	23.44nm		5.2mb	
MAW	40.64	144	iPd	44 27.60	0.0
SIV	47.07	314	P	45 20.30	0.2
SOB1	47.54	343	eP	45 23.60	-0.3
CNCB	49.34	306	P	45 39.00	0.6
LPB	49.63	306	P	45 41.20	0.7
ZOBO	49.87	306	P	45 42.00	-0.5
LIC	64.61	25	P	47 25.90	-0.1
KIC	64.81	26	P	47 27.20	-0.2
TIC	65.02	25	P	47 28.40	-0.3
GKN	125.25	91	PKP	55 45.70	-2.7X
PKI	125.36	92	PKP	55 46.10	-2.7X
KKN	125.45	92	PKP	55 46.20	-2.7X
YKA	135.67	318	ePKP	56 04.20	-2.8X
	0.6s	2.80nm			
MBC	143.54	336	ePKP	56 16.00	-4.8X
	0.5s	8.00nm			
INK	145.31	321	ePKP	56 21.00	-3.0X

S.D. = 0.5 on 13 of 19 obs.

* OCT 01, 1991 07h 20m 46.55s
65.575 N 144.477 W
DEPTH = 16.0km
NORTHERN ALASKA (676)
<AEIC>. ML 3.1 (AEIC).

PRP	0.44	263	iP	20 55.51	-0.1
			eS	21 00.73	
FYU	1.04	343	eP	21 06.62	0.9
			eS	21 20.06	
GLM	1.36	246	eP	21 10.82	0.0
			eS	21 29.13	
FBA	1.55	246	eP	21 13.28	-0.3
			eS	21 34.90	
HDA	1.58	223	eP	21 14.17	0.3

DJE	1.64	199	eP	21 15.73	1.0
CCB	1.69	238	eP	21 14.97	-0.5
			eS	21 39.17	
MDM	1.70	250	eP	21 14.98	-0.7
			eS	21 39.10	
WRH	1.89	236	eP	21 18.00	-0.5
			eS	21 43.26	
NEA	2.19	245	eP	21 21.91	-0.9
			eS	21 51.33	
BWN	2.55	239	eP	21 26.21	-1.7
PAX	2.65	190	eP	21 29.14	-0.3
MCK	2.66	228	eP	21 29.31	-0.3
RND	2.89	223	iP	21 32.81	0.1
TRF	3.29	232	eP	21 38.03	-0.6
KTH	3.44	237	eP	21 39.16	-1.5
			eS	22 25.85	
CUT	4.08	221	eP	21 49.24	-0.3
SML	4.15	206	eP	21 51.65	1.0
KNK	4.54	205	eP	21 57.66	1.5

19 obs. associated

* OCT 01, 1991 07h 38m 47.23±0.69s
9.764 S ±11.0km 111.767 E ±13.4km
DEPTH = 33.0km (normal)
4.4mb (7 obs.)
SOUTH OF JAWA, INDONESIA (282)

TRT	2.22	23	ePc	39 22.30	-0.1
			iS	39 54.30	
NANU	13.23	165	eP	41 56.50	1.2
			eS	44 19.00	
MBL	13.73	147	eP	42 00.00	-2.0
	0.3s	5.00nm		4.9mb	
			eS	44 21.00	
MTN	19.23	101	eP	43 11.00	-0.7
WARB	21.57	141	eP	43 41.00	4.8X
	0.4s	2.00nm		3.9mb	
			eS	47 31.00	
WR2	24.04	117	iPd	44 02.40	1.9
	0.6s	15.00nm		4.7mb	
			eS	48 16.70	
ASPA	25.25	126	iPd	44 15.00	2.9X
	0.6s	8.10nm		4.5mb	
			eS	48 56.80	
CHG	31.09	336	eP	45 59.50	54.6X
CHTD	31.09	336	e(P)	45 06.90	2.0
	1.0s	2.50nm		4.0mb	
STK	35.31	133	iPc	45 44.68	3.3X
	0.5s	2.60nm		4.4mb	
			e	46 02.80	
GBA	41.23	304	Pc	46 30.80	-0.2
	0.4s	3.00nm		4.4mb	
PKI	45.05	326	P	47 01.70	-0.6
GUN	45.06	327	P	47 02.60	0.1
GKN	45.81	326	P	47 06.50	-1.7
POO	46.80	307	eP	47 16.00	0.1

S.D. = 1.5 on 11 of 15 obs.

? OCT 01, 1991 09h 11m 17.37±5.69s
11.653 N ± 9.4km 62.423 W ±77.0km
DEPTH = 180.0km (geophysicist)
WINDWARD ISLANDS (95)
MD 3.1 (TRN).

GRW	0.90	56	eP	11 36.84	-0.2
TCE	1.16	145	eP	11 40.68	0.8
			eS	11 54.17	
TRN	1.41	135	eP	11 42.43	-0.5
			eS	11 57.03	
TPP	1.64	144	eP	11 44.75	-1.0
			eS	12 02.20	
TBH	1.77	131	eP	11 48.11	0.7
			eS	12 06.30	
SVB	1.97	35	eP	11 50.25	0.1
			eS	12 13.88	

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

* OCT 01, 1991 09h 26m 06.82±2.49s
40.072 N ±26.0km 28.818 E ± 8.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZI	0.57	62	iPg	26 18.50	0.1
			iSg	26 27.50	
YLV	0.65	40	iPg	26 18.30	-1.6
			eSg	26 25.80	

EDC	0.78	291	ePg	26 22.00	0.0
HRT	0.99	41	iPg	26 27.00	1.4
			eSg	26 41.00	
ISK	1.01	10	ePg	26 26.00	0.1
KGT	1.22	289	ePn	26 29.50	0.0

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

OCT 01, 1991 10h 18m 48.70±0.48s
40.264 N ± 4.2km 29.365 E ± 4.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZI	0.11	48	iPg	18 51.70	0.1
GBZT	0.53	7	ePg	19 00.20	0.8
			iSg	19 08.80	
HRT	0.60	22	iPg	19 00.50	-0.4
GPA	0.72	88	iPg	19 02.50	-0.4
ISK	0.83	344	iPg	19 05.50	0.7
			eSg	19 15.50	
ITU	0.88	343	iPg	19 05.00	-0.6
			iSg	19 18.00	
CTT	1.13	321	iPg	19 10.00	0.1
EDC	1.15	275	iPn	19 09.50	-0.7
KGT	1.59	277	iPn	19 17.50	0.6
MFT	1.67	289	ePn	19 17.00	-1.2
KHL	1.94	176	iPn	19 22.30	0.2
DMK	1.98	323	iPn	19 22.60	0.1
EZN	2.37	260	iPn	19 29.30	1.0
IZM	2.48	222	ePn	19 30.00	0.2
BBTK	2.64	98	eP	19 37.00	4.8X
			eS	20 16.00	
JMB	3.04	317	eP	19 38.00	0.4
PSN	3.53	346	eP	19 37.00	-7.6X
RZN	3.80	294	eP	19 48.00	-0.7
KKB	5.01	291	eP	20 09.00	3.3X

S.D. = 0.7 on 16 of 19 obs.

* OCT 01, 1991 10h 24m 24.54±0.85s
31.518 S ±17.6km 178.812 W ±14.4km
DEPTH = 33.0km (normal)
5.3mb (9 obs.)
KERMADEC ISLANDS REGION (177)

HBZ	6.52	201	eP	25 45.00	-15.6X
KUZ	6.91	220	eP	25 59.80	-6.3X
WCZ	7.21	230	eP	26 10.20	-0.1
URZ	7.51	205	eP	25 58.90	-15.6X
			eS	27 20.60	
NOZ	7.54	199	eP	25 57.60	-17.3X
DZM	16.17	302	iPd	28 20.60	9.7X
BRS	25.05	272	iPd	29 49.90	2.6X
	1.8s	3.80nm		3.7mb X	
COO	25.09	264	eP	29 53.00	5.3X
CMS	30.07	261	eP	30 33.00	0.0
	0.3s	16.00nm		5.3mb	
CTAO	33.31	281	iPc	31 03.50	2.0
	1.3s	78.86nm		5.5mb	
			e	31 21.00	
STK	33.56	259	iPd	31 04.50	0.9
	0.7s	2.90nm		4.3mb	
OIS	38.72	276	eP	31 47.00	-0.4
ASPA	42.37	269	iPc	32 16.10	-1.4
	1.0s	26.50nm		4.9mb	
			eS	38 38.10	
WR2	43.43	274	iPd	32 25.10	-1.1
	0.4s	39.30nm		5.5mb	
			i	32 38.10	
			eS	38 54.30	
FORR	45.04	256	eP	32 35.00	-4.0X
	0.5s	23.00nm		5.3mb	
WARB	47.67	262	iPd	32 56.30	-3.6X
	0.3s	1.00nm		4.3mb	
SPA	58.65	180	iPd	34 20.00	-0.8
	1.0s	35.00nm		5.4mb	
SNA	78.43	179	iPc	36 24.20	1.2
	1.1s	73.42nm		5.6mb	
KAF	145.36	339	iPKP	43 55.80	-4.0X
	0.4s	5.40nm			
OBV	145.66	324	iPKPd	43 58.00	-2.5X
	1.1s	*****nm			
NUR	147.11	339	ePKP	44 00.80	-1.9
	0.7s	15.70nm			
NAO	150.00	351	PKP	44 08.00	0.7
	0.7s	4.20nm			
HFS	150.19	347	ePKP	44 08.10	0.5
	0.5s	3.10nm			
KVT	150.49	299	ePKP	44 03.00	-5.7X

HRI 150.85 283 ePKP 44 11.90 2.3X
 BHL 150.98 284 PKP 44 10.00 0.3
 PRNI 151.04 277 ePKP 44 12.00 2.2X
 ADI 151.26 282 ePKP 44 12.40 2.3X
 KIC 154.36 166 PKP 44 17.00 2.0X
 S.D. = 1.2 on 13 of 29 obs.

* OCT 01, 1991 10h 47m 52.98±3.28s
 19.358 S ±14.9km 177.592 W ±10.1km
 DEPTH = 441.2 ± 37.0 km
 4.6mb (15 obs.)

FIJI ISLANDS REGION (181)

DZM 15.18 257 iPd 51 07.10 -0.6
 URZ 19.39 193 eP 51 49.40 0.1
 CAW 22.57 195 eP 52 18.80 -0.6
 LTZ 24.87 198 eP 52 39.70 -0.6
 BRS 28.30 248 iPc 53 11.00 0.2
 0.8s 11.00nm 4.3mb
 COO 29.74 242 iPc 53 25.70 2.3
 CNB 33.19 235 iPc 53 53.80 1.0
 0.9s 22.00nm 4.6mb
 CAN 33.47 235 eP 53 55.40 0.2
 BWA 33.64 237 eP 53 54.50 -2.1
 CTAO 34.00 263 iPc 53 59.10 -0.6
 0.7s 32.92nm 4.9mb
 OLP 35.77 251 iPd 54 15.00 0.5
 TOO 36.88 233 iPd 54 24.70 1.1
 0.5s 18.00nm 4.7mb
 STK 38.64 243 iPc 54 40.70 2.6
 0.4s 6.60nm 4.4mb
 WR2 45.13 261 iPd 55 28.60 -1.5
 0.3s 19.90nm 5.0mb
 ASPA 45.17 256 iPc 55 30.00 -0.4
 0.8s 50.30nm 5.0mb
 FORR 50.07 246 eP 56 07.30 -0.3
 0.3s 22.00nm 5.0mb
 WARB 51.55 252 iPc 56 08.40 -10.2X
 0.5s 30.00nm 5.0mb
 COOL 56.04 245 eP 56 49.50 -1.2
 MBL 58.39 257 iPc 57 06.60 -0.3
 0.3s 14.00nm 4.9mb
 KLB 58.89 244 eP 57 09.80 -0.4
 NWA0 59.23 243 eP 57 12.00 -0.5
 BAL 59.87 245 eP 57 16.70 -0.2
 MUN 60.17 244 eP 57 19.00 0.2
 MRWA 60.64 247 eP 57 21.70 -0.2
 NANU 62.07 254 iPc 57 31.50 0.1
 0.7s 61.00nm 5.2mb
 PLM 78.11 48 eP 59 06.80 0.1
 ORV 78.57 41 eP 59 08.00 -0.7
 RSO 82.05 12 eP 59 28.00 1.4
 MSU 84.04 46 eP 59 37.90 0.8
 PNT 85.50 34 eP 59 44.00 0.3
 0.6s 4.00nm 4.3mb
 ANMO 86.39 51 eP 59 48.90 0.3
 1.0s 2.00nm 3.8mb
 FBA 87.05 12 eP 59 49.50 -1.3
 0.9s 0.50nm 3.3mb X
 BW06 87.88 43 e(P) 59 55.00 -0.6
 1.0s 1.50nm 3.8mb
 CHTO 90.22 290 e(P) 00 07.00 0.5
 0.7s 1.11nm 3.9mb
 RSSD 92.07 44 iPc 00 14.80 0.0
 0.9s 7.90nm 4.7mb
 S.D. = 1.0 on 34 of 35 obs.

* OCT 01, 1991 11h 44m 51.21±1.20s
 40.396 N ± 7.7km 23.344 E ±12.3km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)

SOH 0.43 1 ePg 44 59.52 -0.4
 OUR 0.49 97 ePg 45 01.20 0.0
 iSg 45 07.14
 PAIG 0.53 151 ePg 45 01.96 -0.1
 iSg 45 10.89
 SRS 0.75 15 ePg 45 06.08 0.3
 eSg 45 15.44
 KNT 0.84 336 iPg 45 07.52 0.1
 eSg 45 18.76
 S.D. = 0.4 on 5 of 5 obs.

* OCT 01, 1991 13h 23m 44.36±1.55s
 23.882 N ± 8.1km 121.840 E ±13.4km
 DEPTH = 30.7 ± 7.7 km

4.3mb (5 obs.)

TAIWAN

(244)

TWD 0.30 312 iPc 23 51.30 -0.5
 eS 23 54.50
 TWC 0.72 1 iPc 23 59.60 1.3
 eS 24 10.70
 TWF1 0.73 223 iPc 23 57.90 -0.5
 eS 24 08.30
 TWQ 1.00 293 ePc 24 03.10 0.8
 eS 24 16.00
 TWZ 1.23 349 ePc 24 07.60 2.0
 TWK 1.38 244 ePc 24 09.00 1.2
 QZH 3.14 290 Pn 24 32.40 -0.5
 Sn 25 05.50
 SSE 7.21 356 eP 25 28.50 -1.8
 Z 20s 0.80um
 S 26 45.60
 HKC 7.23 259 eP 25 29.70 -1.0
 GZH 7.84 266 eP 25 38.80 -0.4
 WHN 9.40 317 eP 25 58.00 -2.8
 QIZ 12.17 249 eP 26 39.20 0.6
 eS 28 50.70
 GYA 13.98 284 P 27 01.80 -0.9
 1.0s 10.00nm 4.5mb
 pP 27 09.40
 XAN 15.16 315 eP 27 17.50 -0.5
 BJI 16.81 345 eP 27 48.50 9.6X
 Z 14s 0.35um
 CD2 17.51 298 eP 27 52.20 4.3X
 HHC 18.99 335 eP 28 06.60 0.5
 BTO 19.40 332 eP 28 10.50 -0.5
 LZH 19.73 312 eP 28 20.00 5.3X
 2.0s 35.00nm 4.3mb
 Z 15s 0.63um
 E 12s 0.31um
 CHG 21.90 261 eP 28 39.00 2.1
 CHTO 21.90 261 eP 28 37.70 0.8
 1.1s 6.77nm 4.0mb
 i 28 44.30
 GTA 24.22 315 eP 29 01.00 1.4
 1.0s 5.00nm 4.0mb
 Z 16s 0.35um 3.9MszX
 WR2 45.24 163 eP 31 59.50 -1.4
 0.6s 4.90nm 4.6mb
 S.D. = 1.4 on 20 of 23 obs.

* OCT 01, 1991 13h 28m 49.64±1.22s
 38.210 N ± 7.8km 1.365 W ±12.2km
 DEPTH = 10.0km (geophysicist)

SPAIN

(377)

mbLg 2.6 (MDD).

EALH 0.35 187 eP 28 56.70 -0.2
 eS 29 02.00
 EVIA 0.99 296 ePg 29 08.00 -0.5
 eSg 29 22.00
 EHUE 1.05 248 ePg 29 10.00 0.5
 ECHE 1.41 13 ePn 29 15.60 0.2
 eSn 29 34.20
 ECOG 1.98 243 ePg 29 32.00 8.4X
 eSg 29 57.20
 GUD 3.25 319 ePg 29 57.50 15.7X
 eSg 30 35.00
 S.D. = 0.8 on 4 of 6 obs.

OCT 01, 1991 15h 04m 59.35±0.39s
 1.108 N ± 7.7km 124.526 E ± 7.2km
 DEPTH = 33.0km (normol)
 4.5mb (7 obs.)

MINAHASSA PENINSULA, SULAWESI (265)

AAI 6.01 142 iPc 06 38.80 10.4X
 TSM 7.36 296 eP 06 47.00 -0.3
 MKS 8.06 219 iPd 06 38.50 -18.6X
 iS 07 46.60
 KKM 9.63 301 ePd 07 21.70 2.8X
 SLKI 11.28 143 ePc 07 50.00 8.7X
 MTN 15.33 155 eP 08 35.50 0.4
 WR2 23.04 156 iPc 10 01.60 -1.3
 0.5s 9.20nm 4.5mb
 i 10 07.60
 GUMO 23.64 57 eP 10 08.90 0.2
 PJG 23.64 57 eP 10 08.20 -0.5
 GUA 23.66 58 eP 10 09.00 0.1
 0.7s 38.36nm 5.0mb
 IPM 23.72 279 ePd 10 01.70 -7.8X

OIS 26.11 146 eP 10 34.00 1.8
 ASPA 26.26 160 iPd 10 32.80 -0.8
 1.3s 9.50nm 4.2mb
 CHG 30.64 307 ePd 11 14.00 0.8
 1.0s 17.25nm 4.8mb
 CHTO 30.64 307 eP 11 13.20 0.1
 0.9s 12.57nm 4.7mb
 i 11 17.60
 STK 36.58 155 eP 12 07.00 2.8X
 0.5s 2.40nm 4.3mb
 HNR 36.80 107 eP 12 19.00 12.7X
 MAT 37.46 18 eP 12 27.00 15.4X
 LZH 39.74 333 Pd 12 38.50 7.6X
 1.2s 0.24nm 2.8mb X
 pP 12 42.00 12kmX
 COO 40.88 143 ePd 12 44.10 3.9X
 GUN 45.57 309 P 13 19.12 0.4
 PKI 45.78 309 P 13 20.02 -0.3
 KKN 45.98 309 P 13 22.50 0.7
 DMN 46.03 308 P 13 21.96 -0.2
 GKN 46.58 309 P 13 26.28 -0.2
 HYB 48.00 293 eP 13 34.00 -3.6X
 GBA 48.21 287 P 13 33.70 -5.5X
 0.2s 0.40nm 4.1mb
 YAK 60.88 3 iP 15 20.70 9.9X
 GAR 62.12 314 eP 15 18.90 -0.9
 ZOBO 160.45 141 PKP 25 02.00 3.7X
 S.D. = 0.8 on 16 of 30 obs.

* OCT 01, 1991 15h 24m 52.40s
 36.537 N 121.082 W
 DEPTH = 5.0km
 CENTRAL CALIFORNIA (39)
 <BRK>. ML 2.6 (BRK).

LLA 0.14 54 iPd 24 55.27 0.0
 iS 24 57.55
 PRS 0.31 229 iPd 24 58.40 -0.3
 iS 25 03.97
 SAO 0.37 308 iPc 24 59.20 -0.6
 eS 25 01.05
 PRI 0.52 139 iPc 25 03.11 0.3
 iS 25 14.24
 GCC 0.88 304 iPc 25 08.11 -1.7
 iS 25 21.82
 ARN 0.89 336 eP 25 09.10 -0.8
 PHAM 0.89 141 eP 25 09.80 -0.2
 PKEM 0.92 121 eP 25 10.50 0.1
 MHC 0.92 331 ePd 25 10.30 -0.2
 eS 25 24.45
 FRI 1.19 67 eP 25 16.99 1.9
 eS 25 29.24
 BCH 1.57 149 eP 25 19.20 -1.9
 CMB 1.60 20 eP 25 20.32 -1.1
 12 obs. associated

* OCT 01, 1991 16h 46m 58.80s
 36.782 N 121.542 W
 DEPTH = 7.0km
 CENTRAL CALIFORNIA (39)
 <BRK>. ML 2.8 (BRK).

SAO 0.08 102 iPd 47 00.64 -0.3
 iS 47 02.30
 GCC 0.44 304 iPc 47 07.00 -0.7
 PRS 0.47 163 iPd 47 07.76 -0.5
 LLA 0.51 109 iPc 47 08.53 -0.5
 iS 47 15.98
 MHC 0.56 352 iPd 47 10.25 0.1
 iS 47 19.10
 ARN 0.57 1 iPc 47 09.83 -0.3
 eS 47 18.50
 PRI 0.95 132 iPc 47 16.71 -0.6
 iS 47 31.35
 PCC 0.98 317 iPd 47 16.37 -1.3
 eS 47 31.19
 ZSP 1.29 334 iPc 47 21.05 -2.0
 iS 47 41.66
 PHAM 1.32 135 eP 47 21.41 -2.1
 eS 47 41.41
 PKEM 1.36 121 eP 47 23.44 -0.7
 FRI 1.48 81 iPd 47 24.87 -1.0
 CMB 1.55 36 eP 47 25.16 -1.8
 BCH 1.98 143 eP 47 30.29 -3.0
 eS 47 56.00
 ORV 2.77 1 ePn 47 42.95 -1.5
 ePg 47 53.12

01d 16h												
BONR	2.83	65	e(Pn)	47	48.55	2.9						
16 obs. associated												

& OCT 01, 1991 18h 25m 52.06s												
60.969 N 150.307 W												
DEPTH = 43.0km												
KENAI PENINSULA, ALASKA (14)												
<AEIC>. ML 2.8 (AEIC).												
PMS	0.46	52	iPc	26	02.17	-0.3						
SLKM	0.46	175	iPd	26	02.27	-0.3						
NKA	0.51	244	ePc	26	04.15	1.1						
SUA	0.54	337	iPd	26	02.75	-0.9						
PWA	0.71	17	iPd	26	05.15	-0.7						
PLRM	0.84	42	eP	26	06.76	-0.9						
CRP	0.95	289	iPc	26	08.62	-0.6						
SEW	0.97	154	iPc	26	08.50	-0.8						
NCG	1.00	297	iPc	26	09.22	-0.7						
KNK	1.00	63	iPc	26	09.09	-0.8						
CKL	1.01	284	iPc	26	09.33	-0.8						
GHO	1.05	39	iPd	26	09.60	-1.0						
NNL	1.05	208	iPd	26	10.86	0.3						
BGL	1.05	287	iPc	26	09.93	-0.8						
RDT	1.10	250	iPd	26	10.38	-1.0						
SKT	1.17	330	iPc	26	11.52	-0.8						
DFR	1.23	253	iPc	26	12.04	-1.1						
SML	1.27	48	iPc	26	12.71	-1.0						
REF	1.27	249	iPc	26	12.95	-0.9						
RDN	1.29	250	iPc	26	12.89	-1.2						
RSO	1.31	248	iPc	26	13.44	-0.9						
RS2	1.31	248	iPc	26	13.47	-0.9						
RS1	1.31	248	iPc	26	13.51	-0.9						
RDW	1.32	249	iPc	26	13.58	-1.0						
RED	1.33	247	iPc	26	13.66	-1.0						
NCT	1.35	254	iPc	26	13.97	-0.9						
KNIM	1.41	115	iPc	26	13.43	-2.2						
CUT	1.44	1	eP	26	15.22	-0.8						
HOM	1.47	207	ePd	26	16.19	-0.3						
CNPM	1.52	198	iPd	26	16.43	-0.8						
LTI	1.53	126	iPc	26	15.59	-1.7						
GLI	1.57	92	iPc	26	15.80	-2.1						
INE	1.64	237	iPc	26	18.23	-0.8						
INW	1.66	238	iPd	26	18.60	-0.7						
SCM	1.68	58	ePd	26	18.29	-1.2						
XLV	1.68	206	ePd	26	18.51	-0.9						
VZW	1.83	86	eP	26	19.79	-1.9						
FID	1.89	95	ePc	26	19.48	-2.9						
VLZ	1.94	83	eP	26	21.33	-1.8						
OPT	1.96	229	eP	26	23.68	0.1						
HUR	2.04	9	eP	26	24.19	-0.4						
KLU	2.19	74	iPc	26	24.91	-1.8						
AUP	2.24	225	eP	26	27.27	-0.3						
AUW	2.25	226	ePc	26	27.25	-0.4						
CVA	2.28	99	eP	26	28.68	0.7						
TOA	2.28	58	ePc	26	27.39	-0.8						
TRF	2.49	0	eP	26	30.99	-0.2						
RND	2.54	15	eP	26	32.80	1.0						
SYI	2.59	205	iPd	26	31.13	-1.3						

KTH	2.61	354	eP	26	33.10	0.3						
CDD	2.65	221	ePc	26	32.34	-0.9						
MCK	2.85	12	eP	26	36.34	0.2						
GLB	3.18	79	ePc	26	38.40	-2.5						
WAX	3.70	95	eP	26	44.24	-4.0						
CCB	3.87	16	ePd	26	49.29	-1.2						
BALM	3.88	86	ePc	26	47.56	-3.2						
56 obs. associated												

OCT 01, 1991 20h 30m 20.06±0.16s												
35.705 N ± 3.8km 65.512 E ± 2.4km												
DEPTH = 12.4km (7 depth phases)												
5.3mb (66 obs.) 4.5MsZ (7 obs.)												
HINDU KUSH REGION, AFGHANISTAN (718)												

MAIO	4.91	279	iPnc	31	35.00	-0.5						
GAR	5.05	48	iP	31	37.00	0.4						
QUE	5.63	167	P	31	48.50	2.7						
KSH	9.11	63	P	32	35.00	0.6						
TEH	11.49	274	eP	33	10.00	3.1X						
IR4	11.92	272	iPc	33	12.00	-0.9						
IR1	12.08	273	eP	33	15.00	0.0						
IR7	12.12	274	ePc	33	15.50	0.0						
IR5	12.19	272	eP	33	16.40	0.0						
KER	15.14	270	eP	33	57.00	1.5						
TAB	15.53	284	eP	33	59.00	-1.5						
BHD	17.58	268	ePc	34	25.00	-1.4						
GKN	17.95	110	P	34	30.34	-0.8						
MSL	18.10	279	eP	34	30.50	-2.3						
DMN	18.51	110	P	34	36.90	-1.3						
KKN	18.55	110	P	34	37.50	-1.1						
POO	18.63	154	iPd	34	43.30	3.8X						
PKI	18.76	110	P	34	39.86	-1.4						
WMO	18.84	58	P	34	41.00	-1.0						
Z	18s	2.93um										
N	11s	5.26um										
		sP	34	49.50								

VOY	39.75	301	eP	37 57.80	13km	SSF	46.75	304	iPc	38 50.30	-0.4	FFC	1.2s	10.80nm	5.0mb	43 16.00	-1.1
DUI	39.82	294	P	37 54.00	-0.1	PLDF	1.0s	31.00nm		38 51.11	-0.5	SIV	0.6s	10.00nm	5.3mb	49 29.00	-0.3
KHC	39.85	306	iPc	37 55.40	0.5	AVF	46.90	304	iPc	38 51.70	-0.1	ZOBO	134.52	283	PKP	49 40.00	-1.0
	1.1s	14.70nm		4.6mb		GRC	47.00	304	P	38 52.18	-0.5	Z	20s	0.15um	4.7Msz		
		e		39 13.50	405kmX	AGO	47.18	303	P	38 53.96	-0.1	LPB	134.65	283	ePKP	49 46.00	4.9X
		e		39 30.40		YAK	47.20	35	iP	38 53.40	-0.6	CNCB	134.71	282	PKP	49 41.00	-0.4
TRI	39.86	301	eP	37 54.40	-0.5			epP	39 25.00	139kmX					LR	10 22.00	
KEV	39.97	340	iP	37 55.80	0.3			ePP	40 52.00								
		e		38 07.00	40kmX			ePPP	41 23.00								
KBA	40.06	303	iPc	37 56.80	0.0			eS	45 23.00								
	1.0s	41.60nm		5.1mb				ePS	45 47.00								
CLL	40.25	310	iPc	37 58.20	0.2	LBL	47.25	302	P	38 54.71	-0.1						
	1.1s	40.00nm		5.0mb		BGF	47.28	303	iPc	38 54.60	-0.3						
FVI	40.48	302	P	37 59.90	-0.1			0.3s	22.85nm		5.7mb						
NKC	40.58	308	P	38 02.30	1.5	PYM	47.32	302	P	38 55.14	-0.2						
		e		38 05.80	12km	MAF	47.53	303	iPc	38 57.10	0.2						
ARV	40.67	298	P	38 01.90	0.3			1.1s	67.15nm		5.6mb						
HFS	40.99	323	eP	38 03.70	-0.3	TCF	47.76	303	iPc	38 58.90	0.2						
	0.8s	68.00nm		5.4mb		CAF	48.14	301	iPc	39 01.70	0.0						
Z	18s	1.04um		4.7Msz				1.1s	39.05nm		5.4mb						
		LR		55 35.00		LSF	48.23	303	iPc	39 02.00	-0.4						
MNS	41.02	296	P	38 04.80	0.3			1.1s	56.15nm		5.5mb						
MOX	41.12	309	iPc	38 06.20	1.0	MTHF	48.25	299	P	39 02.97	0.4						
	1.1s	73.00nm		5.3mb		RJF	48.43	302	eP	39 04.10	0.2						
		i		38 19.00	48kmX			1.2s	35.70nm		5.3mb						
WTTA	41.22	303	iPc	38 05.50	-0.8	Z	20s	0.15um		4.0Msz							
	1.0s	27.30nm		4.9mb		LPO	48.80	301	eP	39 06.80	0.1						
CTI	41.30	302	P	38 07.10	0.2	LDF	48.90	307	eP	39 07.50	0.1						
TIA	41.37	74	Pd	38 07.70	0.3			1.2s	41.65nm		5.3mb						
	0.6s	10.00nm		4.7mb		LFF	49.05	302	eP	39 07.70	-0.9						
GRF	41.38	307	iPc	38 09.00	1.6			0.9s	22.95nm		5.2mb						
	1.1s	86.00nm		5.4mb		FLN	49.10	307	iPc	39 02.50	-6.5X						
Z	18s	0.50um		4.4Msz				1.0s	26.00nm		5.2mb						
		e		38 12.60	12km	Z	20s	0.55um		4.5Msz							
SFI	41.40	298	P	38 08.70	1.2	MFF	49.30	304	iPc	39 09.90	-0.6						
PGD	41.50	298	P	38 10.30	1.7			1.0s	24.00nm		5.2mb						
OGA	41.66	303	iPc	38 09.50	-0.5	GRR	49.42	306	iPc	39 10.70	-0.7						
	0.7s	15.00nm		4.8mb				1.1s	43.95nm		5.4mb						
MME	42.18	299	P	38 15.60	1.3	LPF	49.60	306	eP	39 12.00	-0.9						
TRO	42.26	338	eP	38 14.60	0.3	EKA	49.76	316	Pd	39 13.60	-0.4						
OSS	42.28	303	ePd	38 15.00	0.0			0.9s	45.40nm		5.5mb						
QIZ	42.35	101	eP	38 12.00	-3.6X	EPF	49.79	299	eP	39 13.50	-0.9						
NB2	42.38	324	P	38 14.60	-0.8			0.8s	7.40nm		4.7mb						
	0.8s	52.30nm		5.3mb		ENSF	49.85	299	P	39 15.26	0.3						
KONO	42.93	322	eP	38 19.80	-0.1	DCN	52.45	314	eP	39 33.90	-0.5						
LLS	43.05	303	ePd	38 20.70	-0.6			1.1s	87.00nm		5.6mb						
RGS	43.15	327	eP	38 22.00	0.4	TOL	53.86	297	iPd	39 45.00	0.0						
TMA	43.22	302	ePd	38 21.90	-0.8			1.2s	93.75nm		5.7mb						
SLE	43.30	304	ePd	38 22.80	-0.3	MAT	57.36	66	eP	40 14.00	3.6X						
ZLA	43.40	304	ePd	38 23.20	-0.8	MTD	61.30	218	iPd	40 34.30	-3.5X						
PGF	43.67	297	iPc	38 25.70	-0.6	KRI	62.34	219	iPd	40 44.50	-0.3						
	1.1s	48.85nm		5.2mb		CIR	64.93	215	iPc	41 01.90	0.3						
MMK	43.85	302	ePd	38 27.70	-0.2	BUL	65.63	218	iPd	41 05.00	-1.3						
BNS	43.92	309	iPd	38 29.00	0.9			1.8s	45.45nm		5.4mb						
NJ2	43.99	79	Pc	38 31.00	2.2	MBC	68.28	1	ePc	41 22.00	-0.2						
	1.7s	0.70um		4.6MszX				1.0s	31.00nm		5.4mb						
CDF	44.05	305	iPc	38 28.60	-0.7	BFT	69.66	214	iPc	41 31.50	-0.1						
	1.0s	16.00nm		4.8mb				0.5s	21.13nm		5.5mb						
WTS	44.11	311	eP	38 30.50	1.0	KIC	70.29	264	P	41 33.30	-2.2						
	1.0s	65.00nm		5.4mb		TIC	70.35	264	P	41 33.80	-2.1						
DIX	44.23	302	ePd	38 30.80	-0.2	LIC	70.60	264	P	41 35.20	-2.2						
BSF	44.43	305	iPc	38 31.80	-0.6	KSR	71.28	216	eP	41 40.00	-1.5						
	1.2s	46.65nm		5.2mb		SEK	73.02	214	iPc	41 50.60	-1.1						
SBF	44.56	299	iPc	38 33.00	-0.5			0.7s	17.12nm		5.2mb						
	1.2s	53.55nm		5.3mb		VIR	73.17	215	iPc	41 53.00	0.5						
EMS	44.56	302	ePd	38 33.40	-0.2			0.6s	13.33nm		5.2mb						
HAU	44.71	305	iPc	38 34.00	-0.6	WIN	73.88	226	eP	41 46.50	-10.3X						
	1.1s	63.50nm		5.4mb		IMA	74.15	16	ePc	41 57.90	0.1						
Z	21s	0.40um		4.3Msz				1.0s	12.10nm		4.9mb						
ENN	44.73	309	eP	38 35.00	0.4	BLF	74.35	215	eP	41 56.00	-3.4X						
	1.0s	30.00nm		5.1mb		FRS	75.30	215	iPc	42 02.70	-1.9						
RSL	44.83	302	P	38 35.18	-0.6			0.7s	17.12nm		5.2mb						
BNI	44.90	301	P	38 34.70	-1.5	INK	75.33	7	eP	42 04.50	0.2						
SNY	44.95	64	eP	38 42.00	5.6X			0.9s	27.00nm		5.3mb						
IPM	45.05	125	ePc	38 37.70	0.1	TTA	76.24	18	eP	42 10.60	0.9						
FRF	45.18	299	iPc	38 37.50	-0.8	FBA	76.39	14	ePc	42 11.40	1.0						
	1.1s	34.20nm		5.2mb				1.1s	38.50nm		5.4mb						
SSB	46.35	301	P	38 47.32	-0.2	PWA	78.82	16	eP	42 23.90	0.0						
LBF	46.44	304	iPc	38 47.80	-0.5	TOA	79.22	15	eP	42 27.80	1.6						
	1.0s	49.00nm		5.5mb		YKA	82.14	0	eP	42 42.00	0.6						
LOR	46.48	304	iPc	38 48.00	-0.6			0.8s	10.50nm		5.0mb						
	0.7s	14.35nm		5.1mb		WR2	85.46	118	eP	42 58.40	-0.6						
Z	21s	0.45um		4.4Msz				0.6s	9.60nm		5.2mb						
SMF	46.59	303	iPc	38 49.30	-0.1	ASPA	87.54	121	iPc	43 08.80	-0.3						

* OCT 01, 1991 20h 50m 07.72± 1.07s
15.051 N ±11.7km 94.765 W ± 7.7km
DEPTH = 47.0 ± 8.7 km
4.8mb (6 obs.)

NEAR COAST OF OAXACA, MEXICO (66)

TPX	2.42	93	iP	50 44.50	-1.2												
			iS	51 17.50													
SCX	2.65	50	iP	50 49.50	0.6												
			iS	51 19.50													
OXX	2.76	317	iP	50 49.50	-1.3												
			iS	51 20.00													
IISM	4.64	328	iP	51 17.50	0.4												
			iS	52 09.00													
LVVM	4.93	341	eP	51 21.75	0.6												
IIT	5.20	320	eP	51 26.00	0.7												
			(S)	52 29.00													
ACX	5.22	291	eP	51 24.00	-1.4												
PPM	5.44	318	iP	51 30.00	1.1												
			(S)	52 25.00													
IIA	5.52	318	iP	51 29.94	0.4												
III	5.59	307	iP	51 31.50	0.8												
			iS	52 33.50													
MRX	7.68	308	iP	52 00.00	0.2												
MEO	19.95	351	iPd	54 36.10	-2.6												
SIO	20.66	356	eP	54 46.90	0.9												
TUL	20.79	358	eP	54 48.00	1.4												
	1.0s		23.00nm												4.5mb		
ACO	21.91	351	e(P)	54 58.00	-0.7												
ALO	22.43	334	eP	55 04.00	0.0												
	0.9s		6.09nm												4.0mb		
LCCM	33.90	338	eP	56 48.70	0.3												
FFC	39.99	353	eP	57 38.00	-1.3												
	1.1s		23.00nm												4.9mb		
SIV	45.37	131	P	58 24.80	1.2												
SOB1	58.58	111	(P)	00 02.00	-0.5												
INK	58.69	344	eP	00 01.00	-1.5												
MBC	62.56	354	eP	00 28.00	-0.7												
	1.0s		11.00nm												4.9mb		
EKA	78.68	36	P	02 07.00	0.6												
	0.8s		9.70nm												4.8mb		
NB2	84.49	28	P	02 37.60	0.9												
	1.1s		9.40nm												4.8mb		
HYB	147.07	12	ePKP	09 47.00	1.2												
GBA	150.50	16	PKPc	09 55.50	4.4X												
	0.3s		2.30nm														

S.D. = 1.1 on 25 of 26 obs.

01d 23h

MDG 0.48 329 iPc 06 08.50 0.2
 YYYY 0.58 186 iPd 06 09.40 -0.2
 LAT 1.38 135 eP 06 20.00 0.0
 MNDI 2.40 258 eP 06 43.00 8.4X
 WR2 18.17 218 iPc 10 06.50 -0.2
 0.3s 6.70nm 4.3mb
 ASPA 21.37 212 iPd 10 42.00 0.6
 1.3s 7.70nm 3.9mb
 GUN 66.87 303 P 16 45.40 -0.3
 KKN 67.33 303 P 16 48.40 -0.1
 DMN 67.42 303 P 16 49.20 0.1
 GKN 67.94 303 P 16 52.00 -0.2
 SIV 145.61 129 iPKPc 25 31.40 0.1
 KIC 150.92 273 PKP 25 46.00 6.4X
 TIC 151.20 273 PKP 25 46.00 5.9X
 S.D. = 0.3 on 10 of 13 abs.

& OCT 02, 1991 00h 37m 05.10s
 36.902 N 121.653 W
 DEPTH = 4.0km
 CENTRAL CALIFORNIA (39)
 <BRK>. ML 2.6 (BRK). Felt in the
 Watsonville area.

SAO 0.22 129 iPc 37 09.13 -0.3
 GCC 0.30 295 iPc 37 11.44 0.2
 IS 37 16.90
 ARN 0.46 12 iPc 37 14.56 0.3
 LLA 0.64 116 iPc 37 17.56 -0.3
 PCC 0.83 316 iPc 37 20.74 -1.0
 BKS 1.08 335 eP 37 26.40 0.5
 eS 37 41.40
 PRI 1.10 133 ePd 37 25.89 -0.5
 ZSP 1.15 335 ePd 37 27.73 0.6
 PHAM 1.47 136 eP 37 30.96 -1.4
 CMB 1.52 41 iPd 37 31.91 -1.2
 FRI 1.56 86 iPd 37 32.98 -0.7
 IS 37 53.49
 BCH 2.13 143 eP 37 40.89 -1.2
 ORV 2.65 3 eP 37 48.80 -0.6
 BONR 2.87 67 ePn 37 54.29 1.5
 14 obs. associated

OCT 02, 1991 01h 11m 37.31±0.43s
 23.986 S ± 3.8km 66.764 W ± 5.0km
 DEPTH = 199.6 ± 5.6 km
 4.8mb (7 abs.)
 JUJUY PROVINCE, ARGENTINA (128)

ANT 3.35 274 iPc 12 31.50 -0.1
 IS 13 08.00
 CCH 6.60 5 Pc 13 13.50 0.1
 RTRS 6.61 201 e(P) 13 14.50 1.3
 CNCB 7.23 351 iPd 13 23.00 1.1
 S 14 43.00
 RTLL 7.47 191 ePc 13 23.20 -1.4
 S 14 46.20
 LPB 7.52 350 iPd 13 26.30 0.6
 S 14 50.00
 RTCB 7.69 193 iPd 13 27.00 -0.5
 CFA 7.70 189 e(P) 13 27.00 -0.7
 ZON 7.72 192 eP 13 27.70 -0.2
 eS 14 53.70
 ZOBO 7.78 350 iPd 13 29.00 -0.4
 S 14 54.00
 SIV 9.58 35 iPc 13 52.00 -0.1
 (S) 15 25.00
 ITB1 11.31 96 e(P) 14 16.00 1.7
 ITB 11.47 97 e(P) 14 20.00 3.5X
 PPD 14.36 85 eP 14 53.40 0.5
 i 14 57.00
 e 14 58.90
 NNA 15.30 320 iP 15 04.30 -0.2
 1.2s 54.69nm 4.9mb
 VAO 18.19 91 iPc 15 37.60 -0.2
 e 15 44.60
 i 15 47.00
 BAO 19.50 68 ePd 15 50.50 -0.9
 BMA 20.80 91 eP 16 04.80 0.5
 e 16 06.10
 e 16 10.70
 CUMC 27.04 335 eP 17 05.33 1.7
 PURC 27.77 339 eP 17 10.63 0.4
 PDCR 28.56 71 eP 17 15.70 -1.0
 SOB1 28.74 64 eP 17 16.70 -1.7
 e 17 17.90
 HOQC 28.93 339 eP 17 19.34 -1.0

ANCC 29.05 339 eP 17 21.27 0.2
 BUGC 29.21 340 eP 17 22.10 -0.5
 CLMC 29.30 340 eP 17 22.89 -0.5
 HOBC 29.61 341 ePd 17 24.41 -1.7
 SNA 59.07 159 iPd 21 19.00 0.8
 0.9s 336.13nm 6.1mb X
 TUL 65.59 334 ePc 22 01.20 -0.5
 1.6s 66.30nm 5.2mb
 SIO 65.66 334 eP 22 02.10 0.0
 LIC 67.23 72 Pc 22 11.58 -0.9
 0.5s 3.00nm 4.3mb
 TIC 67.44 71 P 22 13.74 0.0
 KIC 67.54 72 Pc 22 13.80 -0.6
 0.5s 11.50nm 4.9mb
 ALQ 69.65 326 iPd 22 30.10 2.9X
 1.0s 16.50nm 4.7mb
 e 23 17.00
 ANMO 69.65 326 iP 22 28.20 1.0
 1.3s 29.33nm 4.9mb
 pP 29 16.00

MAW 81.39 163 iPc 23 35.60 3.1X
 BUL 86.68 110 iPd 24 01.60 1.4
 CIR 88.85 112 eP 24 14.40 4.0X
 KRI 88.91 108 iPd 24 15.30 4.4X
 MTD 90.64 109 iPd 24 19.20 0.4
 YKA 94.18 340 eP 24 34.40 0.5
 0.5s 3.70nm 4.8mb
 ASPA 128.56 204 iPKPd 30 23.10 0.5
 0.4s 6.30nm
 WR2 131.72 207 iPKPc 30 29.50 0.9
 0.3s 14.00nm
 GBA 144.66 100 PKPc 30 50.50 -1.8X
 0.7s 23.40nm
 HYB 146.96 95 ePKP 31 00.00 3.9X
 0.8s 26.90nm
 e 31 53.00
 GKN 154.01 75 PKP 31 00.00 -6.6X
 S.D. = 0.9 on 38 of 46 obs.

OCT 02, 1991 01h 23m 51.71±0.81s
 5.136 N ± 6.9km 77.228 W ± 10.9km
 DEPTH = 10.0km (geophysicist)
 NEAR WEST COAST OF COLOMBIA (102)
 MD 3.8 (UPA).

HOBC 1.34 125 iPc 24 16.54 0.1
 CLMC 1.41 152 ePc 24 18.11 0.5
 BUGC 1.57 142 ePc 24 20.33 0.5
 ANCC 1.65 167 iPc 24 20.26 -0.6
 HOQC 1.76 160 iPc 24 21.72 -1.0
 PURC 2.93 163 eP 24 40.21 0.6
 BOG 3.19 99 eP 25 03.00 19.8X
 UPA 4.45 329 (P) 25 01.00 0.2
 S 25 42.00
 BMG 4.55 65 eP 25 08.00 5.6X
 SDV 7.53 60 eP 25 44.10 -0.3
 S.D. = 0.7 on 8 of 10 abs.

& OCT 02, 1991 02h 34m 06.50s
 36.903 N 121.657 W
 DEPTH = 5.0km
 CENTRAL CALIFORNIA (39)
 <BRK>. ML 3.3 (BRK). Felt (IV)
 at Aromas. Also felt in the
 Watsonville area.

SAO 0.22 129 iPc 34 10.54 -0.4
 GCC 0.30 295 iPc 34 12.78 0.2
 MHC 0.44 2 iPd 34 16.15 0.8
 IS 34 22.05
 ARN 0.46 13 iPc 34 15.89 0.2
 PRS 0.62 158 iPd 34 18.11 -0.7
 LLA 0.64 116 iPd 34 18.86 -0.5
 PCC 0.83 316 iPc 34 22.16 -0.9
 BKS 1.08 335 eP 34 26.20 -1.0
 eS 34 44.30
 PRI 1.10 133 iPc 34 27.18 -0.6
 ZSP 1.14 336 iPc 34 27.13 -1.2
 PHAM 1.47 136 eP 34 32.09 -1.6
 PKEM 1.50 123 eP 34 35.24 1.1
 CMB 1.52 41 iPc 34 35.08 -1.3
 iS 34 49.25
 FRI 1.56 86 iPc 34 35.53 -1.4
 iS 34 54.82
 BCH 2.14 143 ePn 34 41.26 -2.1
 ORV 2.65 3 iPc 34 49.07 -1.6
 ABL 2.85 135 ePn 34 51.56 -2.1

BONR 2.87 68 ePn 34 53.90 -0.2
 MIN 3.44 1 iPc 35 01.39 -0.6
 SSK 4.20 129 ePn 35 11.19 -1.6
 LBFM 4.44 358 eP 35 16.20 -0.1
 21 obs. associated

OCT 02, 1991 03h 04m 45.85±0.34s
 6.696 N ± 5.6km 72.957 W ± 5.9km
 DEPTH = 173.4 ± 5.2 km
 4.6mb (2 abs.)
 NORTHERN COLOMBIA (99)

BMG 0.39 343 eP 05 12.00 0.9
 BOG 2.34 208 iPc 05 28.00 1.0
 iS 05 59.00
 SDV 3.17 46 iPd 05 37.40 0.4
 iSn 06 15.50
 HOBC 3.93 234 iPc 05 45.40 -1.2
 eS 06 21.00
 BUGC 4.31 230 ePd 05 50.94 -0.6
 TOV 4.39 45 ePn 05 52.70 0.2
 iPP 05 53.10
 eSn 06 41.80
 CLMC 4.55 232 eP 05 54.42 -0.3
 HOQC 4.87 229 ePd 05 58.10 -0.9
 ANCC 5.01 231 iPd 06 00.07 -0.6
 PURC 5.51 218 ePd 06 08.61 0.9
 UPA 6.90 290 (P) 06 20.80 -4.7X
 OLLA 6.93 61 eP 06 25.00 -1.0
 CUMC 7.52 221 eP 06 34.70 0.4
 GUAN 7.93 65 eP 06 38.20 -1.1
 STH 11.92 342 eP 07 31.60 0.0
 BBJ 12.35 341 eP 07 37.59 0.5
 eS 09 41.50
 ZOBO 23.31 168 P 09 41.00 0.8
 YKA 63.44 340 eP 14 58.40 -0.5
 0.5s 3.50nm 4.5mb
 LIC 67.45 86 P 15 25.40 0.0
 KIC 67.72 86 P 15 27.30 0.2
 INK 73.20 340 eP 15 59.00 0.0
 MBC 73.95 350 eP 16 04.00 0.7
 0.6s 9.00nm 4.7mb
 WR2 150.39 241 iPKPc 24 20.10 6.7X
 0.4s 3.20nm
 S.D. = 0.8 on 21 of 23 abs.

* OCT 02, 1991 03h 59m 29.24±0.71s
 11.902 N ± 11.5km 143.849 E ± 19.6km
 DEPTH = 33.0km (normal)
 4.5mb (2 abs.)
 SOUTH OF MARIANA ISLANDS (210)

GUA 1.93 32 eP 00 00.30 -0.1
 1.0s 120.00nm
 GUMO 1.95 31 eP 00 00.70 0.1
 PJG 1.95 31 eP 00 00.60 0.0
 WR2 33.00 197 iPd 06 04.00 0.4
 0.8s 3.50nm 4.3mb
 ASPA 36.66 195 iPd 06 34.50 -0.4
 0.6s 6.40nm 4.7mb
 BJI 37.18 324 eP 06 39.00 0.0
 S.D. = 0.4 on 6 of 6 obs.

OCT 02, 1991 06h 37m 27.13±0.34s
 6.120 S ± 5.3km 150.926 E ± 10.9km
 DEPTH = 10.0km (geophysicist)
 5.1mb (4 abs.) 4.6Msz (5 abs.)
 NEW BRITAIN REGION, P.N.G. (192)
 ML 4.8 (PMG).

RAB 2.28 33 eP 38 05.00 -0.4
 iS 38 36.00
 PMG 4.96 229 eP 38 50.00 6.5X
 eS 39 46.00
 CTAO 14.61 198 iPc 41 04.50 8.6X
 1.2s 43.92nm 4.9mb
 i 41 16.50
 QIS 18.07 216 eP 41 41.00 0.9
 i 43 12.00
 e 46 14.00
 GUA 20.42 343 eP 42 08.30 0.9
 1.0s 296.00nm 5.6mb
 GUMO 20.48 343 eP 42 09.10 1.1
 PJG 20.48 343 eP 42 09.40 1.4
 BRS 21.23 175 iPd 42 14.80 -0.8
 i(P) 42 18.30 13kmX
 i(S) 46 36.30

QLP	21.33	197	eP	42	17.00	0.4			0.5s	10.00nm	4.3mb							eS	06	23.71				
			i	44	25.00				FORR	23.22	179	eP	44	01.00	0.1			RDW	1.27	300	ePc	06	07.35	-1.3
COO	24.35	178	eP	42	45.90	-0.4			MRWA	24.14	205	eP	44	10.00	0.1				eS	06	24.26			
CMS	25.68	190	eP	43	00.00	1.0			BAL	25.09	202	eP	44	19.00	0.1			DFR	1.28	306	ePc	06	07.34	-1.3
STK	27.08	198	eP	43	12.00	0.1			BFD	32.55	157	eP	45	32.00	6.2X				eS	06	24.31			
	1.7s	4.30nm			3.9mb	X			CHG	38.42	313	eP	46	13.50	-2.5			INW	1.30	280	iPc	06	07.50	-1.5
		e		44	50.30				CHTO	38.42	313	eP	46	18.70	2.7				eS	06	25.27			
DAV	28.49	297	e(P)	43	28.00	3.1X				0.9s	2.77nm			4.2mb				OPT	1.36	262	ePc	06	08.78	-0.9
BAG	37.45	307	eP	44	42.00	-0.9			GUN	53.44	313	P	48	15.16	0.2				eS	06	27.10			
QIZ	47.57	303	eP	46	03.80	-1.4			PKI	53.59	312	P	48	15.68	-0.4			NCT	1.36	302	ePc	06	08.50	-1.4
NJ2	48.73	323	Pc	46	15.00	1.0				0.6s	13.00nm			5.1mb					eS	06	26.38			
	Z	18s	0.53um		4.6Msz				KKN	53.81	312	P	48	17.36	-0.1			LTI	1.38	82	iPc	06	07.63	-2.4
WHN	50.55	318	eP	46	29.00	1.0				0.8s	19.00nm			5.2mb					S	06	25.52			
TIA	52.70	326	eP	46	44.30	0.1			DMN	53.83	312	P	48	17.86	0.1			PMS	1.47	20	ePd	06	10.75	-0.6
BJI	55.99	328	eP	47	11.50	3.4X			GKN	54.40	312	P	48	21.76	0.0				eS	06	30.51			
	Z	20s	0.36um		4.5Msz					0.8s	19.00nm			5.2mb				AUE	1.51	251	iPc	06	11.05	-0.7
XAN	56.32	318	eP	47	09.50	-1.2				S.D. = 1.2	on 14 of 18 obs.							KNIM	1.51	70	iPc	06	09.54	-2.3
TIY	56.44	324	eP	47	14.00	2.4X													eS	06	28.01			
	Z	16s	0.71um		4.9MszX					* OCT 02, 1991 07h 30m 37.27±1.50s								AUL	1.53	253	iPc	06	11.50	-0.6
	N	16s	0.48um							4.519 S ±12.8km 142.688 E ±10.3km								AUP	1.53	252	iPc	06	11.59	-0.6
CD2	58.20	312	eP	47	23.20	-0.9				DEPTH = 77.4 ± 15.7 km									eS	06	31.02			
HHC	59.05	326	eP	47	29.00	-1.0				4.4mb (6 obs.)								AGU	1.53	252	iPc	06	11.63	-0.7
	Z	18s	0.73um		4.8Msz					NEW GUINEA, PAPUA NEW GUINEA (202)									eS	06	32.19			
LZH	60.90	317	eP	47	41.00	-1.7												AUH	1.54	252	eP	06	11.72	-0.6
	Z	2.0s	39.00nm		5.2mb				MNDI	1.89	149	eP	31	10.00	1.6			AUI	1.54	251	ePd	06	11.55	-0.8
	Z	18s	0.30um		4.5Msz														eS	06	31.36			
GTA	65.37	318	eP	48	15.00	2.7X			MDG	3.16	103	eP	31	25.70	-0.1			AUW	1.55	253	ePc	06	11.69	-0.7
	Z	16s	0.29um		4.6MszX				PMG	6.58	138	eP	32	11.70	-1.7			SYI	1.57	217	eP	06	11.64	-1.0
WMO	75.46	318	eP	49	13.30	-0.1												CKL	1.59	328	iPc	06	12.44	-0.7
SPA	83.92	180	eP	49	58.00	-0.5			MTN	14.10	233	eP	33	53.80	-0.9				eS	06	32.31			
	1.0s	10.00nm			5.0mb					0.3s	82.00nm			5.5mb X				SUA	1.61	357	iPd	06	12.61	-0.8
INK	90.35	21	eP	50	29.00	-0.4												CRP	1.61	332	eP	06	13.47	0.1
CLL	123.07	330	e(PKP)	56	24.00	-1.4			QIS	16.22	190	eP	34	22.00	0.1			CGLM	1.61	335	eP	06	13.94	0.6
OHR	123.62	316	ePKP	56	21.70	-5.3X					e		37	43.00				BGL	1.66	328	ePc	06	13.55	-0.6
KNC	124.07	328	ePKP	56	27.50	-0.1			WR2	17.35	207	iPc	34	36.30	0.4			NCG	1.73	334	eP	06	14.72	-0.4
GRF	124.96	329	e(PKP)	56	30.00	0.8				0.6s	33.90nm			4.8mb					iS	06	36.91			
	Z	20s	0.20um		4.8Msz				KNA	17.66	230	eP	34	39.00	-0.7			PWA	1.82	11	eP	06	16.15	-0.2
CDF	127.78	330	ePKP	56	33.80	-1.0			ASPA	20.84	203	iPd	35	15.20	0.3			CDD	1.83	240	iPd	06	15.26	-1.2
	1.0s	8.00nm								0.9s	22.40nm			4.5mb					eS	06	37.16			
BSF	128.40	330	ePKP	56	35.40	-0.6												KNK	1.87	33	iPd	06	15.80	-1.3
	1.0s	18.00nm							WARB	26.46	214	eP	36	09.00	0.0				eS	06	38.32			
HAU	128.51	330	ePKP	56	35.80	-0.3				0.4s	3.00nm			4.2mb				PLRM	1.87	22	iPd	06	15.82	-1.3
	1.0s	12.00nm							STK	27.24	182	iPd	36	15.60	-0.4			GLI	2.01	58	iPc	06	16.38	-2.7
LOR	130.23	331	ePKP	56	40.20	0.8				0.8s	2.80nm			3.9mb					eS	06	39.79			
	1.0s	12.00nm							MRWA	35.25	223	eP	37	27.00	0.5			MCNL	2.03	252	eP	06	17.72	-1.7
LBF	130.38	331	ePKP	56	41.20	1.5				0.5s	9.00nm			5.0mb				GHO	2.08	22	ePd	06	18.96	-1.2
	1.2s	14.90nm							BAL	35.68	220	eP	37	30.00	0.0			SKT	2.17	348	ePd	06	20.68	-0.7
SSF	130.55	331	ePKP	56	40.90	0.9			KLB	35.68	218	eP	37	30.00	-0.1			FID	2.23	65	iPc	06	18.92	-3.3
	1.0s	14.00nm							MUN	36.91	219	eP	37	41.00	0.6				eS	06	43.61			
BGF	131.23	331	ePKP	56	42.40	1.1			CHTO	48.92	300	eP	39	18.00	0.2			SML	2.24	29	eP	06	21.04	-1.3
	0.8s	8.05nm								1.0s	2.50nm			4.2mb				VZW	2.33	57	ePc	06	21.19	-2.4
TCF	131.73	331	ePKP	56	43.50	1.2			KKN	63.93	304	P	41	00.00	-4.9X				eS	06	48.58			
	0.8s	8.05nm							SIV	148.89	131	PKP	50	19.00	4.5X			KDC	2.35	206	eP	06	20.79	-3.0
LSF	132.08	332	ePKP	56	43.80	0.9				S.D. = 0.8	on 15 of 17 obs.							VLZ	2.46	57	ePc	06	23.21	-2.2
	1.0s	10.00nm																	eS	06	51.27			
LFF	133.42	331	ePKP	56	43.70	-1.8				& OCT 02, 1991 08h 05m 46.89s								CVA	2.51	72	iPc	06	22.70	-3.4
	1.0s	16.00nm								59.866 N 150.583 W									S	06	52.30			
ZOBO	135.42	120	PKP	56	50.00	-0.8				DEPTH = 37.6km								SCM	2.54	38	eP	06	26.01	-0.6
SIV	141.45	125	PKP	57	02.00	0.7				KENAI PENINSULA, ALASKA (14)								CUT	2.55	3	eP	06	26.25	-0.5
PPD	144.54	143	ePKP	57	10.60	4.2X				<AEIC>. ML 3.0 (AEIC).								SGAM	2.76	74	iPc	06	26.21	-3.5
BAO	151.40	139	e(PKP)	57	21.00	3.4X												KLU	2.82	53	iPc	06	28.61	-2.0
	S.D. = 1.0	on 37 of 46 obs.							NNL	0.40	297	iPd	05	56.77	0.6				eS	07	00.70			
									CNPM	0.48	224	iPc	05	56.53	-0.7			RAGM	3.00	77	ePc	06	29.42	-3.8
																		KAIM	3.11	86	eP	06	33.33	-1.3
																		TOA	3.11	42	ePc	06	33.90	-0.8
																		HMT	3.20	79	eP	06	32.08	-3.9
																		TZL	3.33	47	eP	06	36.97	-0.8
																		TRF	3.60	2	eP	06	41.62	-0.2
																		SDG	3.62	40	eP	06	40.89	-1.0
																		RND	3.65	12	ePd	06	41.84	-0.6
																		GLB	3.69	62	ePc	06	39.86	-3.1
																		KTH	3.70	358	eP	06	43.26	0.1
																		CROM	3.81	73	ePc	06	41.10	-3.7
																		WAX	3.91	78	iPd	06	41.72	-4.4
																		TGL	3.96	74	ePd	06	43.12	-3.8
																		PAX	3.97	36	eP	06	45.28	-1.7
																		TTA	4.03	322	eP	06	45.74	-2.2
																		BALM	4.25	70	ePc	06	47.04	-3.9

01d 20h

79 obs. associated
 * OCT 02, 1991 08h 21m 26.53±0.77s
 10.767 S ±13.2km 164.805 E ±13.2km
 DEPTH = 33.0km (normal)
 4.4mb (7 obs.) 4.5Msz (1 obs.)
 SANTA CRUZ ISLANDS REGION (183)

HNR 4.96 285 eP 22 42.00 1.2
 BRS 20.04 213 iPc 26 00.30 0.5
 1.0s 3.20nm 3.6mb
 i 26 14.30
 iS 29 57.30

CTAO 20.12 240 iPd 26 01.00 0.3
 1.0s 55.00nm 4.8mb
 e 26 05.00
 i 26 16.00

CMS 27.09 218 eP 27 08.00 -0.2
 WR2 30.69 249 eP 27 41.00 0.2
 1.1s 2.30nm 3.9mb

ASPA 32.10 242 eP 27 51.40 -1.7
 1.0s 8.50nm 4.6mb

WARB 39.13 242 eP 28 53.00 0.0
 0.6s 6.00nm 4.5mb

BJI 67.69 321 eP 32 23.00 0.3
 Z 20s 0.30um 4.5Msz
 eS 40 14.00

CHTO 71.27 294 eP 32 45.20 0.1
 1.0s 2.25nm 4.2mb
 LZH 73.89 313 eP 33 01.00 0.5
 2.0s 35.00nm 5.0mb

SP 33 18.00
 GUN 85.38 299 P 34 00.00 -2.7
 LRM 92.63 44 eP 34 36.20 -0.4

PDCR 146.83 134 ePKP 41 06.90 0.8
 e 41 15.20
 SOB1 147.63 127 ePKP 41 08.60 1.1
 e 41 10.90

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

? OCT 02, 1991 09h 02m 37.56±2.60s
 4.660 N ±31.6km 76.330 W ±33.7km
 DEPTH = 110.0km (geophysicist)

COLOMBIA (103)
 MD 3.8 (UVC).

HOBC 0.36 147 iPd 02 53.99 0.0
 BUGC 0.76 175 eP 02 56.52 -0.4
 CLMC 0.81 197 iPc 02 57.90 0.6
 eS 03 12.10

HOOC 1.22 194 ePd 03 01.49 -0.3
 eS 03 18.40

ANCC 1.26 205 ePc 03 01.69 -0.2
 PURC 2.32 181 eP 03 16.00 0.2

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

* OCT 02, 1991 09h 50m 14.44±3.16s
 43.629 N ±14.2km 17.446 E ±25.2km
 DEPTH = 10.0km (geophysicist)

NORTHWESTERN BALKAN REGION (383)
 ML 3.2 (ZAG), 2.5 (LJU).

HVAR 0.86 239 iPg 50 31.70 0.8
 iSg 50 42.70

ZAG 2.42 335 iPg 50 57.70 3.0X
 iS 51 24.00

VBY 2.44 321 ePn 50 54.40 -0.6
 iSn 51 20.20

PTJ 2.51 335 ePn 50 55.50 -0.4
 iSn 51 23.40

RIY 2.78 309 e(Pn) 50 59.10 -0.7
 iSn 51 29.00

CEY 3.01 315 ePn 51 02.50 -0.6
 eSn 51 36.50

LJU 3.18 320 ePn 51 07.50 2.0
 eSn 51 44.50

ARV 3.28 269 P 51 08.00 1.1
 TRI 3.35 310 P 51 10.00 2.1
 eSn 51 48.00

VOY 3.49 315 ePn 51 09.50 -0.4
 eSn 51 47.50

ASS 3.53 263 P 51 09.80 -0.7
 eSg 51 48.00

OHR 3.54 134 e(Pn) 51 58.00 47.5X
 CRE 3.99 272 P 51 16.10 -0.9
 SFI 4.06 276 P 51 16.60 -1.3
 eSn 52 00.50

FVI 4.44 314 P 51 24.00 0.8
 eSn 52 12.00
 ZST 4.57 357 eP 51 25.00 -0.2
 CTI 4.78 302 P 51 28.50 0.2
 WTTA 5.47 314 iPnd 51 36.90 -1.2
 e 52 40.00
 i 53 03.60

S.D. = 1.2 on 16 of 18 obs.

OCT 02, 1991 09h 54m 35.90±0.68s
 40.467 N ±7.3km 21.822 E ±5.3km
 DEPTH = 10.0km (geophysicist)

GREECE (364)
 MD 2.3 (THE).

FNA 0.46 313 ePg 54 44.90 -0.5
 iSg 54 50.89

LIT 0.63 125 ePg 54 47.62 -0.9
 GRG 0.66 42 ePg 54 48.02 -1.0
 eSg 54 58.02

OHR 1.01 310 e(Pn) 54 55.30 0.3
 KNT 1.07 49 ePg 54 57.22 1.1
 eSg 55 09.74

SOH 1.22 73 ePb 54 58.66 0.1
 IGT 1.48 231 ePb 55 02.82 0.3
 PAIG 1.52 110 ePb 55 03.82 0.7

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

& OCT 02, 1991 10h 22m 44.51s
 61.374 N 150.557 W
 DEPTH = 48.2km

SOUTHERN ALASKA (2)
 <AEIC>. ML 3.1 (AEIC), 3.3
 (PMR). Felt (III) at Chugiok.

SUA 0.13 315 iPd 22 52.32 1.5
 eS 22 59.29

PWA 0.43 49 iP 22 54.30 -0.5
 PMS 0.50 105 iPc 22 55.13 -0.6
 CGLM 0.70 265 iPc 22 57.82 -0.6
 eS 23 08.60

PLRM 0.72 72 iPc 22 57.37 -1.1
 eS 23 08.07

PMR 0.72 72 iPc 22 57.80 -0.7
 SKT 0.77 323 ePd 22 58.27 -0.9
 iS 23 09.61

NCG 0.77 273 iPc 22 58.73 -0.6
 eS 23 10.35

CRP 0.78 263 iPc 22 58.90 -0.6
 CKL 0.88 259 iPc 22 59.94 -0.9
 GH0 0.88 62 iPc 22 59.85 -0.9
 eS 23 12.54

SLKM 0.88 169 iPd 22 59.62 -1.2
 iS 23 12.68

BGL 0.89 264 iPc 23 00.17 -0.8
 KNK 1.01 87 iPc 23 01.85 -0.7
 eS 23 15.88

CUT 1.04 7 iPd 23 02.00 -1.0
 RDT 1.21 229 iPc 23 04.47 -0.9
 iS 23 20.78

DFR 1.30 234 iPc 23 05.85 -0.8
 REF 1.37 231 iPc 23 06.99 -0.8
 eS 23 25.54

RDN 1.38 232 iPc 23 06.80 -1.0
 eS 23 25.18

NNL 1.39 196 ePd 23 07.94 0.2
 SEW 1.39 156 ePd 23 08.79 -1.0
 RSO 1.41 231 iPc 23 07.58 -0.8
 iS 23 25.56

RS2 1.41 231 iPc 23 07.61 -0.7
 S 23 26.37

RS1 1.41 231 iPc 23 07.64 -0.7
 NCT 1.42 236 iPc 23 07.53 -0.8
 eS 23 25.79

RDW 1.42 232 iPc 23 07.67 -0.8
 iS 23 26.36

RED 1.45 229 iPc 23 07.94 -0.8
 iS 23 26.90

SCM 1.61 72 ePc 23 09.98 -1.1
 S 23 30.08

HUR 1.67 15 ePd 23 11.42 -0.4
 eS 23 31.80

KNIM 1.72 125 iPd 23 09.68 -2.9
 GLI 1.75 105 iPd 23 10.69 -2.3
 eS 23 37.33

HOM 1.80 198 eP 23 13.06 -0.6
 S 23 35.52

INE 1.80 224 ePc 23 12.92 -0.9
 eS 23 34.84
 INW 1.82 225 ePc 23 13.31 -0.7
 eS 23 35.20

CNPM 1.88 191 iPd 23 13.43 -1.4
 eS 23 36.88

VZW 1.96 98 eP 23 13.86 -2.1
 VLZ 2.06 95 ePd 23 15.17 -2.1
 FID 2.08 106 ePc 23 14.65 -3.0

TRF 2.09 3 ePd 23 17.44 -0.5
 OPT 2.17 219 eP 23 19.33 0.4
 S 23 45.33

RND 2.19 21 eP 23 18.92 -0.3
 KTH 2.19 356 ePd 23 18.89 -0.4
 eS 23 44.88

TOA 2.21 69 ePc 23 19.30 -0.2
 KLU 2.23 85 ePd 23 17.76 -2.1
 S 23 43.62

SVW 2.46 266 iPc 23 21.51 -1.6
 AUW 2.48 217 eP 23 23.39 0.2

CVA 2.49 107 eP 23 21.13 -2.2
 TZL 2.54 72 eP 23 23.20 -0.8
 SDG 2.64 62 eP 23 24.40 -1.1

PAX 2.87 54 eP 23 28.05 -0.9
 TTA 3.00 304 eP 23 29.40 -1.3
 RAGM 3.04 106 eP 23 27.75 -3.6

GLB 3.24 86 eP 23 31.52 -2.7
 WRH 3.31 19 eP 23 31.68 -3.3
 HDA 3.46 27 eP 23 35.80 -1.5

CCB 3.52 20 eP 23 36.76 -1.3
 CROM 3.66 96 eP 23 37.52 -2.7
 MDM 3.75 15 eP 23 39.95 -1.4

FBA 3.76 18 eP 23 41.00 -0.4
 KDC 3.77 196 e(P) 23 41.10 -0.4
 BALM 3.99 91 P 23 41.10 -3.7

IMA 4.91 345 eP 23 56.20 -1.6
 62 obs. associated

* OCT 02, 1991 11h 40m 06.84±0.71s
 40.397 N ±5.9km 23.283 E ±6.3km
 DEPTH = 10.0km (geophysicist)

GREECE (364)
 MD 2.2 (THE).

SOH 0.43 7 ePg 40 15.44 -0.1
 OUR 0.54 96 ePg 40 17.80 0.1
 PAIG 0.56 147 ePg 40 17.56 -0.6

LIT 0.68 244 ePg 40 21.12 0.9
 eSg 40 31.96
 SRS 0.76 18 eP 40 22.72 1.1
 eSg 40 34.04

KNT 0.82 339 ePg 40 22.04 -0.6
 GRG 0.87 310 ePg 40 23.04 -0.6

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

OCT 02, 1991 12h 36m 51.97±0.89s
 42.858 N ±7.6km 24.113 E ±6.7km
 DEPTH = 10.0km (geophysicist)

BULGARIA (359)
 MD 2.9 (THE).

PGB 0.31 173 iPg 36 58.00 -0.5
 VTS 0.72 249 iPg 37 05.00 -1.2
 PLD 0.87 150 iPg 37 08.00 -0.7

PVL 0.96 68 iPc 37 11.00 0.7
 KKB 1.25 218 iP 37 14.00 -1.2
 RZN 1.25 159 iPc 37 14.00 -1.4

MMB 1.30 193 iPc 37 16.00 -0.1
 DIM 1.33 127 eP 37 14.00 -2.4
 KDZ 1.55 141 eP 37 20.00 0.4

SRS 1.78 193 ePb 37 24.14 1.1
 KNT 1.92 209 ePbd 37 25.90 0.9
 eSb 37 48.70

SOH 2.11 196 ePbd 37 28.46 0.6
 GRG 2.29 214 ePb 37 32.02 1.6
 ALN 2.43 143 ePn 37 34.86 2.5

FNA 2.91 226 iPn 37 43.37 4.1X
 BZS 3.29 328 eP 37 44.00 -0.5
 VBY 6.89 296 ePg 39 06.00 30.5X
 iRg 39 10.90

S.D. = 1.4 on 15 of 17 obs.

& OCT 02, 1991 13h 38m 21.66s
 61.961 N 147.001 W

DEPTH = 47.8km
 SOUTHERN ALASKA (2)
 <AEIC>. ML 2.5 (AEIC).

02d 13h

SCM	0.20	231	iPc	38	29.07	-0.9	HUR	0.26	195	iPc	02	37.53	0.0	AUW	4.32	208	eP	03	39.14	0.8
			iS	38	35.95		RND	0.34	58	iPd	02	38.36	-0.6	AGU	4.32	208	eP	03	40.02	1.5
TOA	0.42	69	iPd	38	31.45	-0.5	TRF	0.42	302	iPd	02	40.17	-0.4	AUI	4.34	208	eP	03	40.69	2.0
SML	0.65	257	iPc	38	33.44	-1.4	MCK	0.56	26	iPc	02	42.63	-0.2	SNH	4.40	131	eP	03	39.86	0.3
			eS	38	43.24		KTH	0.72	297	iPd	02	45.40	-0.2	CTGM	4.46	117	eP	03	40.51	0.1
KLU	0.70	132	iPc	38	34.65	-0.8	CUT	0.90	204	iPc	02	48.57	0.0	MCNL	4.68	212	eP	03	43.55	0.0
			iS	38	45.30		BWN	0.95	1	iPc	02	49.82	0.5	CDD	4.76	207	eP	03	44.22	-0.4
TZL	0.75	83	iPc	38	35.73	-0.4	NEA	1.37	8	iPc	02	55.68	-0.6	WRG	4.79	129	eP	03	44.71	-0.3
			eS	38	46.40		WRH	1.39	26	iPd	02	56.41	-0.2	SYI	4.85	198	eP	03	45.71	-0.1
KNK	0.89	232	ePc	38	37.25	-0.7	GHO	1.49	170	iPc	02	57.34	-0.7	KDC	5.70	196	ePc	03	56.00	-1.8
			iS	38	49.84					eS	03	16.91		ANM	7.13	288	e(P)	04	13.00	-5.0
SDG	0.89	50	ePd	38	36.91	-1.1	SML	1.52	159	iPc	02	57.80	-0.7	INK	8.29	45	P	04	31.50	-2.7
			eS	38	49.19		SKT	1.57	218	iPc	02	59.19	0.1		0.9s	15.80nm			5.3mb	X
VLZ	0.89	159	iPc	38	36.65	-1.3				iS	03	19.89		SIT	9.38	125	eP	04	47.00	-2.2
			eS	38	49.67		PWA	1.59	187	iPc	02	59.30	-0.2	SDN	9.69	220	eP	04	54.90	1.4
VZW	0.93	166	iPc	38	37.43	-1.2	CCB	1.61	27	ePd	02	59.21	-0.4	YKA	15.82	77	eP	06	17.80	2.7
			eS	38	50.57		HDA	1.63	42	iPd	02	59.82	-0.2		0.6s	6.10nm			4.0mb	
GHO	0.93	259	iPc	38	37.50	-1.2	PLRM	1.65	174	iPc	02	59.90	-0.4	BMW	22.32	126	eP	07	30.00	0.0
			iS	38	50.35					eS	03	21.78		LON	22.62	124	eP	07	34.00	1.1
PLRM	1.08	251	iPc	38	39.33	-1.3	PMR	1.65	174	iPc	03	00.40	0.1	NEW	23.24	115	eP	07	39.40	0.5
			eS	38	53.56		THY	1.70	82	eP	03	01.88	0.8	BW06	30.80	113	eP	08	48.00	-0.9
GLI	1.09	182	ePd	38	40.31	-0.4	SCM	1.72	143	iPc	03	00.62	-0.8	RSSD	32.08	105	eP	08	58.80	-1.4
			eS	38	54.24		MDM	1.82	17	iPc	03	02.47	-0.4	MSU	33.34	120	eP	09	10.80	-0.4
PAX	1.24	34	ePd	38	41.81	-1.2	FBA	1.84	23	iPc	03	03.20	0.2	DAG	36.91	17	ePd	09	38.80	-2.1
			eS	38	57.95		PAX	1.85	96	ePd	03	03.18	-0.1		0.4s	19.49nm			5.3mb	
FID	1.24	168	eP	38	42.93	0.0	SUA	1.87	199	iPc	03	02.99	-0.6	ANMO	38.71	116	eP	09	56.00	-0.7
			eS	38	58.79		DJE	1.88	63	ePd	03	03.68	0.0	ALQ	38.71	116	eP	09	56.00	-0.8
PWA	1.40	258	eP	38	45.11	0.0	KNK	1.89	165	iPc	03	03.44	-0.3		1.0s	4.00nm			4.1mb	
PMS	1.42	241	ePc	38	45.21	-0.2	TOA	1.90	125	iPc	03	04.80	0.8			e	10	08.00		
			eS	39	03.83		SDG	1.94	110	iPc	03	04.60	0.0	NB2	55.19	11	P	11	59.60	-6.0
CVA	1.54	156	eP	38	47.01	-0.1	GLM	1.99	27	ePd	03	04.84	-0.5		1.6s	11.80nm			4.7mb	
HUR	1.59	311	iPc	38	46.96	-0.9	PMS	1.99	181	ePc	03	05.02	-0.3	EKA	58.91	22	P	12	35.00	3.0
			iS	39	07.61		NCG	2.21	215	iPc	03	08.10	-0.5		0.9s	9.70nm			4.9mb	
CUT	1.60	288	ePc	38	47.08	-0.8	CGLM	2.26	212	ePc	03	08.03	-1.2	MOX	65.50	13	iPd	13	13.20	-2.7
			iS	39	07.74		CRP	2.33	214	ePc	03	09.77	-0.5		1.3s	19.00nm			5.1mb	
GLB	1.61	108	ePc	38	47.46	-0.7	BGL	2.39	216	ePc	03	10.92	-0.2	HAU	67.47	17	eP	13	25.40	-3.2
			S	39	07.81		KLU	2.41	135	ePc	03	10.99	-0.3	BSF	67.70	17	eP	13	26.80	-3.3
KNIM	1.66	193	eP	38	48.37	-0.4	CKL	2.44	214	ePc	03	11.22	-0.5		1.0s	8.00nm			4.8mb	
			S	39	09.23		VLZ	2.57	143	eP	03	12.41	-1.1	LOR	67.84	19	eP	13	27.60	-3.3
RND	1.68	330	iPc	38	48.25	-1.0				S	03	45.58			0.8s	5.35nm			4.8mb	
			eS	39	09.33		VZW	2.58	146	ePc	03	13.31	-0.4	SSF	67.99	20	eP	13	28.70	-3.1
SGAM	1.70	149	eP	38	48.37	-1.0				eS	03	47.14			0.8s	4.05nm			4.6mb	
SUA	1.85	256	iPc	38	51.40	-0.2	GLI	2.61	153	iPc	03	14.73	0.5	LBF	68.13	19	eP	13	29.20	-3.6
RAGM	1.94	143	eP	38	51.49	-1.3				eS	03	48.53			0.8s	4.70nm			4.7mb	
LTJ	1.97	193	eP	38	53.06	-0.1	NKA	2.63	199	ePd	03	17.00	2.7	LBF	68.13	19	eP	13	31.40	-1.4
MCK	1.99	334	eP	38	52.94	-0.5	SLKM	2.75	188	ePc	03	16.56	0.4		0.8s	8.05nm			4.9mb	
			S	39	15.83		FID	2.87	149	iPc	03	18.29	0.6	AVF	68.23	20	eP	13	30.60	-2.7
HMT	2.10	140	eP	38	54.82	-0.3	TMW	2.94	85	eP	03	18.50	-0.2		0.8s	5.35nm			4.8mb	
TRF	2.13	316	eP	38	54.66	-0.9	TTA	2.98	267	eP	03	19.00	-0.4	SMF	68.44	19	eP	13	31.60	-3.1
SLKM	2.13	228	eP	38	55.41	-0.1	RDT	3.00	209	ePc	03	19.49	-0.2		0.8s	4.05nm			4.6mb	
SKT	2.14	273	eP	38	54.88	-0.7	KNIM	3.01	163	ePc	03	19.23	-0.5	GUN	79.20	312	P	14	35.66	-2.1
			eS	39	21.03		DFR	3.05	211	eP	03	20.19	-0.2	KKN	79.51	313	P	14	36.88	-2.4
SEW	2.21	214	eP	38	56.40	-0.2	NCT	3.13	213	ePc	03	21.38	-0.2	GKN	79.53	313	P	14	37.22	-2.1
CROM	2.22	121	eP	38	57.07	0.2	RDN	3.13	211	eP	03	21.77	0.1	PKI	79.67	312	P	14	37.78	-2.5
TGL	2.35	119	ePc	38	58.84	0.2	SEW	3.14	180	ePc	03	22.40	0.9	DMN	79.73	313	P	14	38.42	-2.1
KTH	2.41	313	eP	38	58.61	-0.9	REF	3.14	210	eP	03	22.00	0.2							
BALM	2.42	111	eP	38	58.61	-1.0	RDW	3.17	211	eP	03	22.28	0.0		121 obs. associated					
			S	39	28.25		RS2	3.18	211	eP	03	22.02	-0.3							
HDA	2.45	0	ePc	38	59.59	-0.5	RSO	3.18	211	ePc	03	22.51	0.2		OCT 02, 1991 14h 32m 55.19±0.16s					
CGLM	2.48	257	eP	39	01.03	0.6	RS1	3.18	211	ePc	03	22.63	0.3		10.402 S ± 3.1km 161.363 E ± 3.5km					
WAX	2.52	125	eP	39	00.00	-1.0	GLB	3.20	122	iPc	03	23.31	0.8		DEPTH = 91.4km (19 depth phases)					
NCG	2.52	259	eP	39	00.22	-0.9	RED	3.22	210	ePc	03	22.74	-0.1		5.4mb (40 obs.)					
WRH	2.57	349	eP	39	00.63	-1.0	CVA	3.22	145	ePc	03	22.75	0.0		SOLOMON ISLANDS (193)					
BGL	2.67	257	eP	39	02.66	-0.6	LTJ	3.29	166	eP	03	23.06	-0.8		Felt at Honiara.					
SNH	2.70	130	eP	39	04.39	0.8	NNL	3.31	196	eP	03	25.36	1.3		CENTROID, MOMENT TENSOR (HRV)					
CCB	2.72	353	eP	39	02.59	-1.3	IMA	3.37	330	ePc	03	24.90	-0.1		Data Used: GDSN					
CTGM	2.90	108	eP	39	05.32	-1.2	SGAM	3.41	142	iPc	03	24.72	-0.7		L.P.B.: 21S, 43C					
FBA	2.97	353	eP	39	06.99	-0.4	SVW	3.58	236	eP	03	27.40	-0.5		Centroid Location:					
YAH	3.01	120	eP	39	07.28	-0.9	INE	3.61	210	eP	03	27.74	-0.7		Origin Time 14:32:58.8 0.4					
GLM	3.04	357	eP	39	07.16	-1.3	INW	3.62	210	eP	03	28.87	0.4		Lot 10.34S 0.04 Lon 161.51E 0.03					
MDM	3.06	350	eP	39	07.52	-1.2	RAGM	3.65	139	eP	03	28.95	0.0		Dep 119.2 1.7 Half-duration 1.9					
REF	3.13	244	eP	39	07.87	-1.9	HOM	3.73	197	eP	03	31.54	1.5		Moment Tensor; Scales 10**17 Nm					
RDN	3.14	245	eP	39	07.63	-2.3	CNPM	3.81	193	ePc	03	31.04	-0.1		Mrr=-1.19 0.05 Mtt= 0.37 0.08					
CNPM	3.21	222	eP	39	09.09	-1.7	FYU	3.81	27	ePc	03	30.66	-0.5		Mff= 0.82 0.08 Mrt=-0.73 0.05					
							HMT	3.82	137	ePc	03	30.92	-0.4		Mrf=-0.42 0.05 Mtf= 0.58 0.06					
							CROM	3.89	127	eP	03	32.29	-0.1		Principal Axes:					
							XLV	3.94	197	ePc	03	33.42	0.5		T Val= 1.44 Plg=17 Azm=129					
							TGL	4.00	125	ePc	03	33.40	-0.5		N 0.05 12 222					

MBC 66.93 3 ePd 51 45.50 0.3
0.5s 4.00nm 4.4mb
S.D. = 0.6 on 12 of 14 obs.

? OCT 02, 1991 14h 46m 00.71± 5.16s
9.394 S ± 61.7km 123.049 E ± 18.8km
DEPTH = 243.8 ± 20.5 km
4.8mb (4 obs.)

TIMOR REGION, INDONESIA (289)

KUPT 0.93 144 eP 46 35.20 0.3
KNA 8.43 139 eP 48 00.10 -0.2
eS 49 44.00

MTN 8.64 114 eP 47 59.00 -4.0X
0.4s 86.00nm 5.2mb
eS 49 40.00

MBL 12.10 194 eP 48 47.00 0.2
e 48 52.00

NANU 14.95 208 iPd 49 21.00 -0.9
0.4s 4.00nm 4.2mb
eS 52 20.00

WR2 15.15 135 eP 49 23.70 -0.7
0.2s 7.20nm 4.8mb
eS 52 20.00

WARB 17.04 169 iPd 49 47.40 1.4
ASPA 17.58 145 iPd 49 51.60 -0.1
0.3s 10.50nm 4.8mb
eS 53 14.60

S.D. = 1.0 on 7 of 8 obs.

OCT 02, 1991 15h 20m 27.10± 0.46s
40.447 N ± 7.2km 33.294 E ± 4.2km
DEPTH = 33.0km (normal)
4.2mb (1 obs.)

TURKEY (366)

BBTK 0.73 214 eP 20 46.00 4.9X
KAS 0.99 21 ePg 20 45.00 0.2
iSg 21 03.00

KVT 2.18 72 iPn 21 01.60 -0.3
GPA 2.29 267 iPn 21 04.70 1.4
HRT 2.78 279 iPn 21 10.70 0.3

IZI 2.92 269 iPn 22 12.00 59.6X
GBZT 2.95 278 ePn 21 13.50 0.8
YLV 2.99 274 iP 21 12.60 -0.8

ISK 3.28 282 ePn 21 16.00 -1.3
ITU 3.32 283 iPnd 21 22.00 4.1X
iSg 22 14.00

KHL 3.61 235 iP 21 21.40 -0.8
CTT 3.76 282 iPn 21 24.50 0.4

IZM 5.10 248 eP 22 00.00 16.7X
YER 5.12 231 eP 21 43.80 0.2

LFK 5.16 178 eP 21 52.00 7.8X
EZM 5.38 266 eP 21 47.00 -0.1

CFR 6.06 323 eP 21 57.00 0.3
VRI 7.24 321 eP 22 12.50 -0.8

MLR 7.38 316 eP 22 17.50 2.2X
NUR 20.79 348 eP 25 26.50 18.9X
KAF 22.11 351 iP 25 25.00 4.1X

HFS 23.18 335 eP 25 41.70 10.3X
0.6s 5.80nm 4.2mb
1.0s 11.80nm

GKN 43.67 90 P 28 30.00 -0.6
DMN 44.23 90 P 28 36.00 0.7

KKN 44.27 90 P 28 35.80 0.2
S.D. = 0.8 on 16 of 25 obs.

? OCT 02, 1991 15h 37m 28.18± 3.94s
15.181 N ± 38.2km 90.323 W ± 13.3km
DEPTH = 33.0km (normal)
4.4mb (1 obs.)

GUATEMALA (70)

TPX 1.89 262 iP 37 58.50 -0.3
iS 38 22.50

OXX 6.44 288 (P) 39 09.50 6.1X
PPM 8.83 297 iP 39 37.50 0.4

MEO 20.89 341 iPc 42 09.20 -0.9
YKA 50.27 346 eP 46 23.90 0.7
0.8s 3.00nm 4.4mb

S.D. = 1.3 on 4 of 5 obs.

% OCT 02, 1991 15h 59m 49.23± 1.35s
10.557 N ± 12.7km 61.646 W ± 13.7km
DEPTH = 33.0km (normal)

TRINIDAD (98)

MD 2.9 (TRN).

TCE 0.17 323 eP 59 54.88 -0.7
eS 59 59.63

TRN 0.26 69 eP 59 55.76 -0.7
eS 00 00.78

TPP 0.31 141 eP 59 57.00 0.0
eS 00 03.25

TBH 0.57 97 eP 00 02.00 1.1
eS 00 11.50

TPR 1.06 54 eP 00 06.78 -1.0
eS 00 23.26

GRW 1.59 359 eP 00 16.86 1.3
eS 00 33.61

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

* OCT 02, 1991 16h 18m 35.10± 0.61s
46.539 S ± 17.1km 10.443 W ± 9.0km
DEPTH = 10.0km (geophysicist)
5.0mb (3 obs.)

SOUTHERN MID-ATLANTIC RIDGE (410)

NVL 26.58 164 eP 24 15.00 0.4
POF 29.21 65 eP 24 37.00 -1.8

FRS 32.40 72 iPc 25 07.60 0.6
0.9s 16.81nm 5.0mb

BLF 33.39 72 eP 25 15.00 -0.9
VIR 34.52 71 eP 25 29.00 3.4X

SEK 34.85 72 eP 25 30.00 1.5
0.7s 10.27nm 4.8mb

SLR 37.04 69 iPd 25 46.00 -1.0
BFT 38.22 71 eP 26 00.50 3.5X

BUL 41.29 64 iPc 26 24.10 1.7
KRI 44.42 62 iPd 26 51.10 3.1X

MTD 45.67 64 iPd 26 57.00 -0.8
SIV 51.74 289 P 27 46.00 1.2

LIC 52.75 7 P 27 56.00 3.7X
KIC 52.91 7 P 27 54.40 0.9

CNCB 55.75 282 P 28 14.00 -1.0
LPB 56.02 282 eP 28 25.00 8.2X

ZOBO 56.23 282 P 28 17.70 -0.8
ARE 58.37 280 eP 28 33.00 -0.3

INK 144.27 328 ePKP 38 12.00 0.5
S.D. = 1.2 on 14 of 19 obs.

* OCT 02, 1991 17h 41m 21.40± 3.02s
24.087 S ± 21.8km 179.705 W ± 10.6km
DEPTH = 551.5 ± 46.8 km
4.6mb (11 obs.)

SOUTH OF FIJI ISLANDS (171)

URZ 14.39 190 eP 44 24.60 0.3
THZ 18.67 197 eP 45 06.80 0.8

KHZ 19.12 195 eP 45 10.70 0.6
LTZ 19.79 198 eP 45 15.30 -1.2

EWZ 20.88 200 eP 45 26.00 -0.3
COO 26.01 249 iPc 46 15.30 2.7

0.6s 13.00nm 4.7mb
CNB 28.99 240 eP 46 40.00 1.4

CAN 29.28 240 iPd 46 41.70 0.6
BWA 29.55 242 eP 46 41.70 -1.7

PMO 31.25 79 iP 46 57.60 -0.2
0.8s 10.00nm 4.5mb

VAH 31.40 80 iP 46 58.70 -0.4
0.8s 5.00nm 4.2mb

TPT 31.50 79 iP 47 00.10 0.1
0.8s 15.00nm 4.7mb

RUV 31.64 80 iP 47 01.00 -0.1
0.8s 15.00nm 4.7mb

CTAO 31.75 270 iPd 47 02.00 -0.1
0.6s 49.36nm 5.3mb

TOO 32.57 237 iPc 47 10.00 1.1
STK 34.91 248 iPd 47 29.60 1.1

0.4s 4.20nm 4.4mb

ASPA 42.27 261 iPc 48 28.00 -0.3
0.6s 32.40nm 5.0mb

WR2 42.64 266 iPc 48 30.30 -0.9
0.3s 82.90nm 5.7mb X

i 51 00.70

FORR 46.46 250 iPc 49 00.10 -0.5

MTN 47.74 274 eP 49 09.00 -1.5

KNA 48.93 270 eP 49 18.70 -0.8

0.3s 20.00nm 5.1mb

COOL 52.40 249 eP 49 43.00 -1.7

KLB 55.16 247 eP 50 03.20 -1.0

MBL 55.51 260 iPd 50 05.70 -1.1

0.3s 5.00nm 4.3mb

BAL 56.21 248 eP 50 10.80 -0.7

MUN 56.41 247 eP 50 12.00 -0.8
MRWA 57.07 250 iPc 50 17.00 -0.4

CHG 89.99 291 eP 53 26.00 2.5
CHTO 89.99 291 iP 53 25.90 2.4

1.1s 4.42nm 4.3mb
S.D. = 1.3 on 29 of 29 obs.

OCT 02, 1991 17h 49m 10.75± 0.18s
10.272 S ± 3.4km 161.064 E ± 4.1km
DEPTH = 95.4km (9 depth phases)
5.2mb (35 obs.)

SOLOMON ISLANDS (193)

Felt at Haniara.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN

L.P.B.: 25S, 49C
Centroid Location:
Origin Time 17:49:11.5 0.3

Lat 10.24S 0.04 Lon 161.09E 0.03
Dep 67.3 4.4 Half-duration 2.5
Moment Tensor: Scale 10**17 Nm

Mrr= 0.38 0.05 Mtt=-0.12 0.11
Mff=-0.26 0.11 Mrt=-2.80 0.09
Mrf= 1.51 0.07 Mtf= 0.77 0.07

Principal Axes:
T Val= 3.07 Plg=49 Azm=198
N 0.41 9 298

P -3.48 39 35
Best Double Couple: Mo=3.3*10**17
NP1: Strike=177 Dip=10 Slip= 149

NP2: 297 85 81

HNR 1.38 307 ePc 49 34.90 -0.7
e(S) 49 42.00

RAB 10.69 304 eP 51 45.00 2.4
eS 54 08.00

PMG 13.73 272 eP 52 30.50 7.8X
1.1s 354.43nm 5.6mb

CTAO 17.29 234 iPc+ 53 10.00 2.3
1.2s 304.05nm 5.4mb

i 53 20.00
i 53 35.00

eS 56 53.00
MNDI 17.70 282 eP 53 16.00 3.1X

VUN 18.53 116 eP 53 21.20 -1.5
SVA 18.57 117 eP 53 21.80 -1.3

BRS 18.74 204 iP 53 25.00 0.0
i(PP) 53 33.80

i(S) 57 06.00
COO 21.93 202 eP 53 58.00 0.3

1.0s 107.00nm 5.1mb
i 54 18.50 97km

i 54 57.00
OLP 22.72 222 eP 54 07.00 1.7

i 54 27.00 92km
OIS 23.05 241 eP 54 09.50 0.9

i 54 27.40 80kmX
CMS 25.40 212 eP 54 31.50 0.6

1.3s 613.00nm 5.9mb
i 54 52.00 93km

BWA 26.68 204 eP 54 41.90 -0.8
e 55 02.40 91km

CNB 27.11 201 eP 54 47.00 0.3
i 55 18.30 150kmX

CAN 27.25 202 eP 54 48.00 0.1
i 55 11.10 105km

e 56 07.30
WR2 27.47 246 iPd 54 49.90 -0.2

1.2s 54.70nm 5.0mb
i 55 11.30 96km

STK 28.05 217 iPd 54 56.40 1.3
0.4s 10.00nm 4.8mb

GUA 28.57 326 eP 55 03.00 3.1X
0.8s 95.52nm 5.5mb

GUMO 28.64 326 eP 55 02.80 2.3

PJG 28.64 326 eP 55 03.70 3.2X

ASPA 29.12 239 iPc 55 03.70 -1.2
0.9s 24.20nm 4.8mb

MTN 29.43 262 eP 55 07.20 -0.4

TOO 30.59 205 eP 55 18.00 0.3

i 55 38.00 91km

URZ 31.37 155 eP 55 24.90 0.5

BFD 31.57 209 eP 55 25.00 -1.3

i 55 48.20 103km

KNA 31.91 257 eP 55 29.40 0.0

0.7s 102.00nm 5.7mb

ADE 31.94 216 e(P) 55 29.40 -0.2

	1.0s	50.00nm		3
		i		3
VOY	39.75	301 eP		3
DUI	39.82	294 P		3
KHC	39.85	306 iPc		3
	1.1s	14.70nm		
		e		3
		e		3
TRI	39.86	301 eP		3
KEV	39.97	340 iP		3
		e		3
KBA	40.06	303 iPc		3
	1.0s	41.60nm		
CLL	40.25	310 iPc		3
	1.1s	40.00nm		
FVI	40.48	302 P		3
NKC	40.58	308 P		3
		e		3
ARV	40.67	298 P		3
HFS	40.99	323 eP		3
	0.8s	68.00nm		
Z	18s	1.04um		
		LR		5
MNS	41.02	296 P		3
MOX	41.12	309 iPc		3
	1.1s	73.00nm		
		i		3
WTTA	41.22	303 iPc		3
	1.0s	27.30nm		
CTI	41.30	302 P		3
TIA	41.37	74 Pd		3
	0.6s	10.00nm		
GRF	41.38	307 iPc		3
	1.1s	86.00nm		
Z	18s	0.50um		
		e		3
SFI	41.40	298 P		3
PGD	41.50	298 P		3
OGA	41.66	303 iPc		3
	0.7s	15.00nm		
MME	42.18	299 P		3
TRO	42.26	338 eP		3
OSS	42.28	303 ePd		3
OIZ	42.35	101 eP		3
NB2	42.38	324 P		3
	0.8s	52.30nm		
KONO	42.93	322 eP		3
LLS	43.05	303 ePd		3
RGS	43.15	327 eP		3
TMA	43.22	302 ePd		3
SLE	43.30	304 ePd		3
ZLA	43.40	304 ePd		3
PGF	43.67	297 iPc		3
	1.1s	48.85nm		
MMK	43.85	302 ePd		3
BNS	43.92	309 iPd		3
NJ2	43.99	79 Pc		3
Z	17s	0.70um		
CDF	44.05	305 iPc		3
	1.0s	16.00nm		
WTS	44.11	311 eP		3
	1.0s	65.00nm		
DIX	44.23	302 ePd		3
BSF	44.43	305 iPc		3
	1.2s	46.65nm		
SBF	44.56	299 iPc		3
	1.2s	53.55nm		
EMS	44.56	302 ePd		3
HAU	44.71	305 iPc		3
	1.1s	63.50nm		
Z	21s	0.40um		
ENN	44.73	309 eP		3
	1.0s	30.00nm		
RSL	44.83	302 P		3
BN1	44.90	301 P		3
SNY	44.95	64 eP		3
IPM	45.05	125 ePc		3
FRF	45.18	299 iPc		3
	1.1s	34.20nm		
SSB	46.35	301 P		3
LBF	46.44	304 iPc		3
	1.0s	49.00nm		
LOR	46.48	304 iPc		3
	0.7s	14.35nm		
Z	21s	0.45um		
SMF	46.59	303 iPc		3

GRF 3.68 241 iPnc 32 50.80 0.1
ePg 33 03.90
eSg 33 48.40
WTTA 5.25 216 eP 34 07.00 54.0X
e(Sg) 34 37.00

S.D. = 0.5 on 9 of 12 obs.

& OCT 02, 1991 18h 42m 21.30s
33.880 N 117.770 W
DEPTH = 8.0km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 3.4 (PAS).

SSK 0.34 11 iPd 42 28.20 0.0
MWC 0.42 325 eP 42 28.70 -1.1
eS 42 35.20
PEC 0.51 88 iPc 42 30.80 -0.7
CIS 0.71 228 eP 42 33.80 -1.7
SBB 0.81 357 eP 42 36.20 -1.0
PLM 0.92 124 iPc 42 37.90 -1.3
ABL 1.54 309 eP 42 48.30 -1.0
BCH 2.31 305 eP 42 59.00 -1.4
8 obs. associated

& OCT 02, 1991 18h 58m 57.50s
36.892 N 121.643 W
DEPTH = 2.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.7 (BRK).

SAO 0.20 129 iPd 59 01.38 -0.2
GCC 0.32 296 iPc 59 04.05 0.3
iS 59 09.69
MHC 0.45 0 iPd 59 07.20 0.7
iS 59 13.45
ARN 0.46 11 eP 59 06.60 -0.2
PRS 0.60 158 iPd 59 08.98 -0.5
LLA 0.63 116 iPd 59 09.84 -0.2
PCC 0.85 316 eP 59 13.93 -0.5
PRI 1.09 133 iPc 59 18.10 -0.7
eS 59 37.89
ZSP 1.16 335 iPc 59 20.41 0.5
eS 59 36.86
PHAM 1.46 136 eP 59 23.50 -1.4
CMB 1.52 41 iPc 59 26.75 1.0
iS 59 43.43
FRI 1.55 86 iPc 59 25.24 -1.0
eS 59 42.90
BCH 2.12 143 eP 59 31.70 -2.8
BONR 2.86 67 e(P) 59 48.00 2.6
14 obs. associated

OCT 02, 1991 19h 03m 54.71 ± 0.49s
37.375 N ± 6.0km 36.047 E ± 7.2km
DEPTH = 10.0km (geophysicist)
4.3mb (8 obs.) 4.0Msz (2 obs.)
TURKEY (366)

BHL 3.48 185 Pn 04 48.00 -2.0
Sn 05 48.00
BBTK 3.56 315 iP 05 01.00 9.7X
eS 05 58.00
HRI 4.10 184 eP 04 59.10 0.2
KAS 4.37 337 eP 05 16.50 13.9X
ATZ 4.59 188 eP 05 06.40 0.7
eS 05 56.40
MML 4.96 186 eP 05 12.00 1.0
MSL 5.78 98 ePn 05 23.00 0.5
eP* 05 37.00
eSn 06 39.00
iS* 07 01.50

KER 9.47 105 e(P) 07 00.00 45.8X
MAIO 18.79 86 eP 08 16.00 -0.4
PRU 19.93 316 eP 08 29.00 -0.4
e 13 47.50
e 14 05.80
Sg 14 25.50

LPG 23.32 300 eP 09 07.40 3.4X
1.2s 8.95nm 4.2mb
LPL 23.33 300 eP 09 07.90 3.9X
1.0s 6.00nm 4.1mb

CDF 23.65 307 eP 09 07.10 0.2
1.2s 11.90nm 4.3mb
BSF 23.80 305 eP 09 08.40 0.0
0.8s 8.05nm 4.4mb

HAU 24.14 306 eP 09 11.50 0.0
0.8s 5.35nm 4.2mb

Z 22s 0.52um 4.0Msz
SMF 25.51 302 eP 09 25.20 0.5
1.2s 11.90nm 4.5mb
LOR 25.61 303 eP 09 25.00 -0.7
0.6s 2.70nm 4.1mb
Z 22s 0.68um 4.1Msz
AVF 25.87 302 eP 09 28.50 0.5
0.8s 5.35nm 4.3mb
S.D. = 0.8 on 13 of 18 obs.

? OCT 02, 1991 19h 11m 00.02 ± 0.78s
46.409 N ± 7.8km 8.906 E ± 7.0km
DEPTH = 10.0km (geophysicist)
SWITZERLAND (544)

TMA 0.30 184 ePc 11 06.30 -0.1
VDL 0.40 79 ePd 11 08.30 0.1
LLS 0.46 8 ePc 11 14.10 4.6X
MMK 0.74 242 ePd 11 15.30 0.5
OSS 0.90 72 ePc 11 06.20 -11.2X
SLE 1.39 348 ePc 11 25.40 0.0
EMS 1.41 257 ePc 11 25.50 -0.4
S.D. = 0.5 on 5 of 7 obs.

OCT 02, 1991 19h 11m 30.60 ± 0.31s
44.966 N ± 4.1km 11.414 E ± 3.9km
DEPTH = 26.2 ± 4.8 km
NORTHERN ITALY (545)
ML 3.8 (GRF), 3.5 (VIE), 3.2
(LDG), 3.0 (ZAG), MD 3.2 (TRI).

SAL 0.90 316 P 11 48.30 1.0
eSn 11 59.90

MME 0.93 214 P 11 48.30 0.2
eSn 12 05.00

BDI 1.08 213 P 11 51.70 1.6
eSn 12 08.00

SFI 1.09 163 P 11 50.00 -0.2
eSn 12 07.10

CTI 1.09 9 P 11 50.10 -0.2
eSn 12 06.30

PGD 1.11 168 P 11 50.50 -0.2
eSn 12 07.00

VVI 1.24 35 P 11 52.20 -0.1
eSn 12 10.00

CRE 1.39 164 P 11 55.20 0.6
eSn 12 15.40

TRI 1.82 65 e(Pn) 11 59.10 -1.5
i 12 21.20
iSg 12 27.00

ARV 1.83 143 P 12 02.40 1.5
FVI 1.89 30 P 12 01.60 0.0
eSn 12 26.00

DGA 1.92 352 ePn 12 05.00 2.7
VOY 2.04 58 ePn 12 02.80 -1.2
ePg 12 05.50
eSn 12 26.90

SCE 2.08 6 ePn 12 05.80 1.2
iPg 12 08.80

ASS 2.10 154 P 12 05.10 0.3
RIY 2.14 79 eP 12 06.70 1.5
CEY 2.26 69 e(Pn) 12 10.50 3.5X
eSn 12 37.00

CKI 2.30 257 P 12 09.00 1.5
WTTA 2.30 4 i(Pn) 12 11.10 3.4X
iPg 12 12.70
i 12 36.70
iSg 12 43.50

LJU 2.44 63 ePn 12 13.50 3.9X
eSn 12 40.00
eSg 12 48.00

KBA 2.50 32 iPnd 12 11.70 1.1
iPg 12 16.10
iSg 12 47.80

MNS 2.74 160 P 12 12.80 -1.0
VBY 2.77 77 ePn 12 19.40 5.2X
eSn 12 47.60

BHG 2.94 20 ePn 12 24.90 8.4X
PGF 2.98 217 Pn 12 17.80 0.5
Sn 12 52.00

SBF 3.06 250 Pn 12 18.60 0.2
PTJ 3.33 72 ePn 12 23.80 1.5
eSn 12 58.60
LPG 3.34 281 Pn 12 23.60 1.1
Sn 13 01.60

LPL 3.35 281 Pn 12 23.80 1.1
FRF 3.70 249 Pn 12 28.80 1.4

Sn 13 10.40
LMR 3.89 247 Pn 12 29.60 -0.4
LRG 3.94 249 Pn 12 31.50 0.8
BSF 4.29 314 Pn 12 36.40 0.5
Sn 13 25.20
KHC 4.42 19 ePn 12 38.00 0.3
ePg 12 43.50
e 12 50.60
Sg 13 53.00

CDF 4.47 322 Pn 12 38.40 -0.1
Sn 13 28.00

HAU 4.63 313 Pn 12 40.60 -0.1
Sn 13 33.00

GRF 4.73 358 e(Pn) 12 49.80 7.8X
e(Sn) 13 43.80
eSg 14 00.50

SMF 5.55 290 Pn 12 53.00 -0.7
Sn 13 55.40

LBF 5.56 294 Pn 12 53.60 -0.2
Sn 13 56.00

LOR 5.73 296 Pn 12 55.40 -0.8
Sn 13 59.00

SSF 5.89 294 Pn 12 57.80 -0.7
AVF 5.92 291 Pn 12 57.80 -1.0
BGF 6.20 288 Pn 13 01.20 -1.6
Sn 14 12.00

MAF 6.33 285 Pn 13 03.00 -1.7
S.D. = 1.1 on 38 of 44 obs.

OCT 02, 1991 19h 27m 22.87 ± 0.31s
44.360 N ± 2.6km 7.360 E ± 3.3km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.3 (GEN), 2.2 (LDG).

STV 0.12 192 P 27 25.68 -0.2
S 27 27.32

ENR 0.14 162 P 27 26.20 -0.1
S 27 28.25

DOI 0.17 330 P 27 27.20 0.5
eSg 27 30.00

PZZ 0.24 308 P 27 27.83 -0.2
S 27 31.42

ROB 0.37 100 P 27 31.22 0.7
S 27 36.45

BHB 0.49 352 P 27 31.84 -0.9
S 27 38.92

SBF 0.50 174 Pg 27 32.90 -0.1
Sg 27 39.60

IMI 0.59 140 P 27 34.40 -0.4
S 27 42.39

FIN 0.63 104 P 27 35.42 -0.1
S 27 44.03

RRL 0.69 324 P 27 36.35 -0.4
S 27 45.38

RSP 0.79 355 P 27 38.51 0.1
S 27 48.15

PCP 0.87 77 P 27 39.53 -0.1
S 27 51.84

FRF 0.95 213 Pg 27 41.60 0.6
Sg 27 52.40

LRG 1.16 219 Pg 27 44.50 0.0
Sg 27 59.40

LMR 1.20 211 Pg 27 45.00 -0.2
Sg 27 59.80

LPL 1.24 339 Pg 27 46.80 0.7
Sg 28 02.00

S.D. = 0.5 on 16 of 16 obs.

* OCT 02, 1991 20h 04m 56.94 ± 2.91s
51.561 N ± 20.0km 16.183 E ± 16.3km
DEPTH = 10.1 ± 2.9 km
POLAND (548)
ML 3.5 (VIE), 3.3 (GRF).

KSP 0.72 174 iPd 05 11.00 -0.1
0.4s 135.00nm iS 05 20.10

BRG 1.57 245 ePn 05 24.60 -0.2
iPg 05 25.80
iSg 05 45.80

PRU 1.89 214 Pn 05 29.40 -0.1
0.7s 38.40nm Pg 05 31.10
e 05 33.10
Sn 05 48.10

02d 20h

[illegible]

& OCT 02, 1991 23h 13m 02.50s
63.378 N 151.294 W
DEPTH = 12.0km
CENTRAL ALASKA (1)
<AEIC>. ML 3.4 (AEIC).

KTH	0.24	43	ePc	13	07.72	-0.1
TRF	0.46	80	iPd	13	11.66	-0.3
HUR	0.85	117	iPd	13	18.48	-0.3
CUT	1.08	154	iPd	13	22.74	0.1
RND	1.10	87	iPd	13	22.76	-0.3
			S	13	37.61	
MCK	1.11	70	ePc	13	23.30	0.1
			S	13	39.19	
BWN	1.14	45	ePc	13	24.22	0.6
SKT	1.41	185	ePc	13	27.45	-0.5
			eS	13	46.27	
NEA	1.55	38	ePc	13	28.52	-1.4
			S	13	50.91	
WRH	1.79	51	iPc	13	32.07	-1.3
PWA	1.85	159	eP	13	34.30	0.0
SUA	1.94	172	ePc	13	35.63	0.0
			eS	14	03.10	
GHO	1.95	145	iPc	13	35.58	-0.2
			eS	14	00.26	
CCB	2.00	49	iPc	13	34.82	-1.5
NCG	2.02	192	ePc	13	35.99	-0.9
PLRM	2.05	150	ePc	13	37.02	-0.2
PMR	2.05	150	eP	13	37.40	0.2
MDM	2.08	39	iPc	13	35.99	-1.6
SML	2.09	138	ePd	13	37.24	-0.5
CGLM	2.10	189	eP	13	37.87	-0.2
CRP	2.16	191	eP	13	38.92	0.0
FBA	2.17	44	eP	13	37.80	-1.0
HDA	2.18	60	ePc	13	37.52	-1.5
BGL	2.18	194	eP	13	39.24	0.0
TTA	2.19	260	eP	13	40.10	0.8
CKL	2.24	193	ePc	13	39.86	-0.2
PMS	2.29	159	eP	13	40.44	-0.2
GLM	2.35	45	ePc	13	39.89	-1.7
KNK	2.37	145	ePc	13	42.14	0.3
SCM	2.40	128	eP	13	42.11	-0.2
NKA	2.65	179	eP	13	48.11	2.5
PAX	2.67	96	eP	13	46.58	0.4
TOA	2.68	116	eP	13	47.40	1.1
SDG	2.76	105	ePd	13	47.88	0.5
RDT	2.86	191	eP	13	49.47	0.6
DFR	2.87	194	eP	13	49.22	0.2
SLKM	2.93	170	eP	13	49.58	-0.1
NCT	2.93	196	eP	13	49.97	0.2
RDN	2.96	194	ePc	13	50.55	0.3
REF	2.97	194	ePc	13	51.16	0.7
RDW	2.99	195	eP	13	51.08	0.3
RS2	3.01	194	eP	13	52.50	1.5
RSO	3.01	194	eP	13	51.25	0.3
RS1	3.01	194	eP	13	51.77	0.8
TZL	3.02	114	eP	13	51.52	0.6
SVW	3.05	224	eP	13	50.30	-1.1
RED	3.05	194	eP	13	51.56	0.1
KLU	3.13	125	eP	13	53.02	0.4
GLI	3.19	140	eP	13	54.04	0.6
VZW	3.22	134	eP	13	54.15	0.3
VLZ	3.24	132	ePd	13	54.29	0.3
NNL	3.35	180	eP	13	57.37	1.7
SEW	3.40	164	eP	13	57.40	1.0
INE	3.43	195	eP	13	57.61	0.6
INW	3.44	196	eP	13	57.82	0.8
KNIM	3.48	149	eP	13	56.52	-0.9
FID	3.48	137	ePd	13	57.77	0.3
LTI	3.73	152	eP	14	00.27	-0.8
CVA	3.86	135	eP	14	02.62	-0.3
CNPM	3.87	180	eP	14	03.27	0.2
GLB	3.99	116	eP	14	05.38	0.7
SGAM	4.07	132	eP	14	05.34	-0.6
FYU	4.11	36	eP	14	05.44	-0.9
RAGM	4.34	131	eP	14	09.79	0.1
HMT	4.52	129	eP	14	11.48	-0.8
CDD	4.61	195	eP	14	14.46	0.9
CROM	4.65	121	eP	14	14.70	0.4
TGL	4.77	120	eP	14	15.97	0.0
BALM	4.80	115	eP	14	15.81	-0.6
WAX	4.95	123	eP	14	17.89	-0.6
CTGM	5.26	113	eP	14	22.07	-0.8
YAH	5.44	119	eP	14	25.08	-0.4
INK	8.78	48	P	15	09.00	-3.0

73 obs. associated

OCT 02, 1991 23h 22m 16.32±1.12s
39.872 N ± 8.3km 24.076 E ± 7.0km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
MD 2.7 (THE).

PAIG	0.31	280	ePgd	22	22.26	-0.5
			eSg	22	24.18	
OUR	0.47	351	iPgc	22	26.54	0.7
SOH	1.10	330	ePgc	22	36.74	-0.2
			eSg	22	49.38	
THE	1.14	312	ePg	22	37.66	0.0
			eSg	22	50.10	
LIT	1.24	281	ePgc	22	39.34	0.0
			iSg	22	54.54	
SRS	1.30	344	ePb	22	40.62	0.3
			eSb	22	56.54	
KNT	1.57	326	ePb	22	44.30	0.0
			eSb	23	02.74	
AGG	1.60	238	ePb	22	45.14	0.5
			eSb	23	04.50	
GRG	1.68	311	ePb	22	46.06	0.2
			eSb	23	05.34	
MMB	1.74	351	iPc	22	46.00	-0.7
ALN	1.82	55	ePb	22	53.42	5.5X
RZN	1.88	15	P	22	49.00	0.1
KDZ	2.05	29	iPc	22	51.00	-0.2
PLD	2.28	12	iPc	22	56.00	1.4
DIM	2.44	26	iP	23	04.00	7.2X
PGB	2.68	1	ePg	22	32.00	-28.3X
PVL	3.47	15	eP	23	10.00	-1.4

S.D. = 0.7 on 14 of 17 obs.

OCT 02, 1991 23h 58m 05.22±0.41s
40.655 N ± 4.1km 23.169 E ± 3.8km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 2.7 (THE).

THE	0.16	262	iPgd	58	07.98	-0.9
			eSg	58	09.70	
SOH	0.22	40	ePgc	58	09.82	-0.1
KNT	0.55	338	iPgc	58	14.98	-1.3
			eSg	58	21.46	
SRS	0.56	35	ePg	58	15.98	-0.7
			eSg	58	22.38	
GRG	0.66	298	ePg	58	18.18	-0.1
OUR	0.70	117	ePgd	58	19.18	0.2
LIT	0.76	223	ePgd	58	19.70	-0.4
			eSg	58	27.82	
PAIG	0.83	152	ePg	58	20.94	-0.2
			eSg	58	32.94	
MMB	1.02	24	iPc	58	24.00	-0.6
KZN	1.12	252	eP	58	26.80	0.5
			eS	58	42.50	
RZN	1.56	48	iPc	58	34.00	0.8
AGG	1.75	202	ePb	58	35.98	0.1
SKO	1.85	316	ePn	58	39.50	2.2
PLD	1.85	38	iP	58	39.00	1.7
			S	59	03.00	
RDO	1.86	74	eP	58	37.50	-0.4
			eS	59	06.50	
VTS	1.94	1	iP	58	39.00	0.4
			Pg	58	40.00	
			S	59	04.00	
			Sg	59	08.00	
KDZ	1.97	59	iP	58	39.00	0.0
PGB	2.04	21	P	58	39.00	-1.0
ALN	2.20	83	ePn	58	42.00	-0.2
DIM	2.26	51	iP	58	49.00	5.8X
PVL	3.03	32	eP	59	00.00	6.0X

S.D. = 0.9 on 19 of 21 obs.

% OCT 03, 1991 00h 52m 00.91±0.68s
43.090 N ± 8.9km 0.849 W ± 6.0km
DEPTH = 10.0km (geophysicist)
PYRENEES (378)
ML 1.0 (STR).

MADF	0.06	21	Pg	52	03.60	0.4
			Sg	52	05.59	
ISSF	0.07	148	Pg	52	03.73	0.3
			Sg	52	06.42	
ATE	0.11	92	Pg	52	03.90	0.1
			Sg	52	06.16	
BOH	0.12	276	Pg	52	04.21	0.2

Sg 52 06.68
ELYF 0.13 307 Pg 52 04.27 0.1
ESCF 0.20 93 Pg 52 05.48 0.1
Sg 52 08.35
S.D. = 0.1 on 6 of 6 obs.

? OCT 03, 1991 01h 05m 45.77±2.51s
48.006 N ± 14.2km 8.030 E ± 20.2km
DEPTH = 10.0km (geophysicist)
GERMANY (543)
ML 2.2 (LDG).

FEL	0.13	185	ePg	05	49.05	0.0
CDF	0.65	309	Pg	05	58.80	0.0
			Sg	06	08.00	
BSF	0.85	259	Pg	06	02.20	0.0
			Sg	06	13.60	
HAU	1.13	271	Pg	06	07.00	0.1
			Sg	06	21.60	

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

OCT 03, 1991 02h 17m 10.08±0.39s
6.710 N ± 5.2km 72.968 W ± 5.6km
DEPTH = 171.3 ± 5.4 km
4.7mb (9 obs.)
NORTHERN COLOMBIA (99)

BMG	0.38	344	iPc	17	37.00	2.0
FUD	1.45	212	eP	17	38.50	-3.0X
BOG	2.34	208	iPc	17	52.50	1.3
			iS	18	22.00	
SDV	3.17	47	iPnd	18	01.30	0.2
			iSn	18	39.00	
HOBC	3.93	234	iPd	18	09.42	-1.3
			eS	18	48.00	
BUGC	4.31	230	eP	18	14.75	-0.9
TOV	4.38	46	iPnd	18	16.50	-0.1
			iSn	19	04.80	
CLMC	4.55	232	eP	18	17.82	-1.1
HOQC	4.87	229	ePc	18	21.77	-1.4
ANCC	5.01	231	ePd	18	23.72	-1.1
PURC	5.52	218	ePd	18	32.67	0.7
UPA	6.88	290	iPd	18	44.50	-5.1X
	1.0s	110.00nm			5.1mb	
OLLA	6.93	61	iP	18	49.00	-1.3
LLAV	7.15	58	eP	18	52.10	-1.1
CUMC	7.52	221	eP	18	58.92	0.4
GUAN	7.93	65	iP	19	02.10	-1.5
			eS	20	30.50	
YHJ	11.63	343	eP	19	53.15	1.1
			eS	21	49.70	
PCJ	11.71	340	eP	19	47.59	-5.4X
GWJ	11.88	342	eP	19	55.87	0.5
STH	11.91	342	eP	19	56.25	0.6
BBJ	12.34	341	eP	20	02.73	1.5
ZOBO	23.33	168	P	22	06.80	2.1
SIV	25.44	153	P	22	26.00	2.1
			i	23	00.00	
TUL	35.81	327	ePc	23	54.00	-0.7
	0.6s	5.30nm			4.4mb	
SIO	35.97	327	ePc	23	55.30	-0.7
ALO	41.69	317	eP	24	44.00	0.2
	0.9s	2.10nm			3.7mb	
LRM	51.75	326	eP	26	02.20	-0.2
FFC	53.24	339	iPc	26	12.20	-0.6
	0.4s	7.00nm			4.8mb	
PNT	57.73	326	eP	26	45.00	-0.1
	0.6s	4.00nm			4.4mb	
YKA	63.42	340	eP	27	22.30	-1.0
	0.5s	13.60nm			5.1mb	
TIC	67.43	86	P	27	49.50	-0.3
LIC	67.46	86	P	27	49.80	-0.1
	0.7s	6.00nm			4.5mb	
KIC	67.73	86	P	27	51.50	-0.1

03d 02h

DEPTH = 43.2km
4.9mb (1 obs.)

HAWAII (613)
<HVO-P>. ML 4.4 (HVO). Felt at
Glenwood and Ocean View Estates.

KUH	0.44	89	iPd	29	45.29	-1.0
CPH	0.46	60	iPd	29	45.13	-1.3
KKH	0.51	38	iPc	29	46.23	-0.8
KIH	0.60	65	iPd	29	47.18	-1.3
DAH	0.64	81	iPd	29	47.49	-1.7
KHU	0.68	91	iPd	29	47.82	-1.8
SPT	0.69	113	iPd	29	47.83	-1.7
			eS	29	56.86	
SWH	0.72	74	iPd	29	48.43	-2.0
MWH	0.74	72	iPd	29	48.67	-1.6
WIH	0.74	74	iPd	29	48.79	-2.0
HPO	0.76	103	iPd	29	49.21	-1.3
TRH	0.76	78	iPd	29	48.97	-1.9
WOB	0.77	69	iPd	29	49.11	-1.9
WOH	0.79	90	iPd	29	49.05	-1.9
PPL	0.83	97	iPd	29	49.53	-1.9
AIN	0.84	82	iPd	29	49.85	-1.9
			eS	30	00.16	
PLL	0.87	72	iPd	29	50.04	-2.4
WKH	0.88	47	iPd	29	50.81	-1.4
HMH	0.88	67	iPd	29	50.72	-1.7
KFH	0.88	79	iPd	29	50.48	-1.9
HTC	0.89	91	iPd	29	50.43	-1.8
DES	0.90	85	iPd	29	50.48	-2.1
MLH	0.93	75	iPd	29	51.09	-2.0
			eS	30	02.44	
MLX	0.96	78	iPd	29	51.61	-1.8
CPK	0.96	82	iPd	29	51.35	-2.1
HLP	0.97	87	iPd	29	51.60	-1.9
HPU	0.98	58	iPd	29	51.86	-2.1
KNH	0.99	85	iPd	29	51.75	-2.1
UWE	1.00	80	iPc	29	52.10	-1.9
OUT	1.01	82	iPd	29	51.80	-2.2
NPH	1.01	81	iPd	29	51.81	-2.3
			eS	30	03.49	
MHA	1.01	24	iPc	29	52.86	-1.1
			eS	30	05.18	
KOH	1.01	31	iPd	29	52.13	-2.0
RIM	1.01	82	iPd	29	51.96	-2.2
AHA	1.02	83	iPd	29	52.06	-2.2
			eS	30	03.88	
ESR	1.05	82	iPd	29	52.30	-2.4
PWH	1.05	88	iPd	29	52.72	-1.9
PUH	1.07	83	iPd	29	52.45	-2.4
			eS	30	04.57	
MKA	1.12	84	iPd	29	53.13	-2.4
KAE	1.14	88	iPd	29	53.89	-1.9
WHA	1.22	86	iPd	29	54.66	-2.3
MVH	1.23	78	iPd	29	55.03	-2.1
HIL	1.27	69	iP	29	56.00	-1.6
			eS	30	10.20	
HUL	1.30	83	iPd	29	55.51	-2.5
			iS	30	09.88	
POH	1.42	82	iPd	29	57.25	-2.5
KPO	1.43	80	iPd	29	57.41	-2.6
DHH	2.43	326	e(P)	30	23.23	9.1
HON	2.58	323	ePn	30	19.20	2.9
OPA	2.88	327	eP	30	23.40	2.8
			e(S)	30	51.89	
INK	51.09	11	eP	38	35.00	-1.0
MBC	60.07	10	eP	39	40.00	-0.7
	0.6s				6.00nm	4.9mb
51 obs. associated						

% OCT 03, 1991 02h 33m 21.68±1.72s
44.653 N ± 7.3km 6.785 E ±15.4km
DEPTH = 10.0km (geophysicist)

FRANCE (538)
ML 2.1 (GEN).

RRL	0.27	360	P	33	27.46	0.0
			S	33	31.84	
PZZ	0.27	123	P	33	27.46	0.0
			S	33	31.84	
BHB	0.39	61	P	33	29.54	-0.1
			S	33	34.73	
STV	0.56	136	P	33	32.77	-0.4
			S	33	40.15	
ENR	0.62	133	P	33	34.50	0.2
			S	33	42.92	
ROB	0.86	114	P	33	38.48	0.3

S 33 49.73
S.D. = 0.3 on 6 of 6 obs.

OCT 03, 1991 02h 40m 26.86±0.37s
38.882 N ± 3.5km 15.116 E ± 4.2km
DEPTH = 10.0km (geophysicist)

SICILY (398)
ML 3.2 (ROM).

ATN	0.77	159	P	40	41.60	-0.3
			eSg	40	51.00	
CZI	0.86	67	P	40	44.00	0.6
ACI	0.97	61	P	40	46.50	1.3
MNO	1.01	199	P	40	46.70	0.6
			eSg	41	00.60	
GRI	1.02	93	P	40	45.91	-0.3
SOI	1.09	137	P	40	46.30	-1.1
			eSn	40	59.10	
TDS	1.23	50	P	40	48.70	-0.9
GIB	1.24	224	P	40	49.60	-0.3
CSI	1.27	45	P	40	51.40	0.9
			eSg	41	08.20	
MGR	1.30	15	P	40	50.80	-0.1
GIO	1.31	180	P	40	53.40	2.3
ROI	1.32	58	P	40	51.00	-0.3
USI	1.52	264	P	40	53.80	-0.3
SGO	1.68	5	P	40	56.70	0.3
MEU	1.78	185	P	40	57.40	-0.6
			eSn	41	20.00	
PZI	1.86	185	P	40	58.70	-0.3
ERC	2.16	248	P	41	03.00	-0.4
BRT	2.56	38	P	41	09.10	0.0
BAI	2.61	30	P	41	10.00	0.3
LCI	2.63	56	P	41	10.50	0.5
OHR	4.90	61	ePn	41	42.00	-0.4
AGG	5.63	86	eP	41	52.40	-0.2
SKO	5.73	55	ePn	41	52.80	-1.2
			eSg	42	51.00	

S.D. = 0.8 on 23 of 23 obs.

% OCT 03, 1991 02h 48m 12.68±2.58s
38.782 N ± 9.1km 15.377 E ±28.9km
DEPTH = 10.0km (geophysicist)

SICILY (398)

ATN	0.62	174	P	48	25.00	-0.2
			eSg	48	34.50	
CZI	0.73	53	P	48	26.80	-0.2
SOI	0.89	143	P	48	30.00	0.3
			eSg	48	42.70	
ROI	1.22	49	P	48	35.00	-0.4
CSI	1.22	35	P	48	35.90	0.5

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

* OCT 03, 1991 02h 52m 29.30±0.39s
12.913 S ±12.2km 167.447 E ±11.9km
DEPTH = 33.0km (normal)

SANTA CRUZ ISLANDS (184)

DZM	9.16	186	iPc	54	58.10	15.8X
			iS	56	37.00	
CTAO	21.52	248	iPc	57	22.00	4.2X
	1.3s				27.60nm	4.5mb
COO	22.71	217	iPd	57	33.20	3.7X
BWA	27.51	216	iPc	58	14.00	-0.9X
CAN	27.85	214	eP	58	18.60	0.6
STK	30.33	227	eP	58	40.40	0.2
	0.5s				14.70nm	5.0mb
TOO	31.42	215	eP	58	50.00	0.2
WR2	32.45	253	iPc	58	50.10	-0.8
	0.6s				6.40nm	4.7mb
ASPA	33.52	247	iPc	59	07.10	-1.1
	0.6s				16.90nm	5.1mb
KNA	37.55	261	eP	59	42.00	-0.5
WARB	40.48	245	iPc	00	07.20	0.3
	0.4s				13.00nm	5.0mb
MBL	46.12	253	eP	00	52.70	0.2
CHG	74.50	294	eP	04	09.80	2.9X
CHTO	74.50	294	eP	04	07.90	1.0
	0.9s				4.90nm	4.5mb
GUN	88.67	299	P	05	21.74	0.3
PKI	88.99	298	P	05	23.08	0.1
KKN	89.16	299	P	05	23.96	0.4
DMN	89.26	298	P	05	24.64	0.5
GKN	89.76	299	P	05	26.38	0.0
KEY	118.02	345	ePKP	11	15.00	1.3

KAF	123.57	339	iPKP	11	24.20	-0.4
	0.7s				7.70nm	
NUR	125.26	339	ePKP	11	28.30	0.5
	0.5s				8.70nm	
NB2	128.92	345	PKP	11	35.20	0.2
	0.7s				2.40nm	
HFS	129.04	343	ePKP	11	34.50	-0.7
	0.5s				1.50nm	
FLN	142.88	347	ePKP	11	59.40	-1.8X
	1.0s				16.00nm	
LOR	143.09	341	ePKP	12	01.10	-0.6
	0.6s				1.80nm	
LBF	143.30	341	ePKP	12	01.30	-0.8
	1.0s				4.00nm	
GRR	143.32	347	ePKP	11	59.90	-2.1X
	0.8s				8.05nm	
SSF	143.38	342	ePKP	12	01.30	-0.8
	0.8s				7.40nm	
LPL	143.61	337	ePKP	12	01.60	-1.3
	1.0s				6.00nm	
LPG	143.62	337	ePKP	12	01.80	-1.2
	0.8s				4.05nm	
LPF	143.70	347	ePKP	12	01.50	-1.1
	0.6s				8.10nm	
BGF	144.04	342	ePKP	12	02.40	-0.9
	1.0s				14.00nm	
SOB1	144.29	127	(PKP)	12	02.00	-2.7X
MAF	144.42	342	ePKP	12	04.00	0.0
	1.0s				10.00nm	
TCF	144.47	342	ePKP	12	04.00	-0.1
	0.8s				8.05nm	
SBF	144.70	335	ePKP	12	04.20	-0.4
	0.8s				26.85nm	
LSF	144.70	343	ePKP	12	04.50	0.1
	0.8s				12.75nm	
MFF	144.83	345	ePKP	12	05.10	0.5
	0.8s				24.20nm	
PGF	145.06	332	ePKP	12	05.40	0.1
	1.0s				26.00nm	
FRF	145.27	335	ePKP	12	06.10	0.6
	1.0s				18.00nm	
LRG	145.48	335	ePKP	12	06.10	0.3
	0.8s				10.75nm	
LMR	145.52	335	ePKP	12	06.90	1.0
	1.0s				20.00nm	
RJF	145.57	342	ePKP	12	07.70	1.8
	0.8s				8.05nm	
CAF	145.74	341	ePKP	12	09.00	2.7X
	1.2s				20.85nm	
LFF	146.13	343	ePKP	12	09.10	2.3X
	0.8s				10.75nm	
LPO	146.23	342	ePKP	12	09.60	2.6X
	0.8s				5.35nm	

S.D. = 0.8 on 36 of 47 obs.

% OCT 03, 1991 02h 52m 59.05±2.15s
38.844 N ± 6.7km 15.109 E ±20.7km
DEPTH = 10.0km (geophysicist)

SICILY (398)

ATN	0.74	158	P	53	14.50	1.0
CZI	0.88	65	P	53	16.40	0.4
SOI	1.07	136	P	53	17.90	-1.3
			eSg	53	32.50	
TDS	1.25	49	P	53	22.20	-0.2
CSI	1.31	44	P	53	24.40	1.2
MGR	1.34	15	P	53	23.00	-0.7
ROI	1.35	57	P	53	23.40	-0.5
S.D. = 1.1 on 7 of 7 obs.						

? OCT 03, 1991	03h	42m	47.06±12.73s			
58.953 N ±92.4km				5.757 E ±15.2km		
DEPTH = 10.0km				(geophysicist)		
SOUTHERN NORWAY						(535)
MD 1.5 (BER).						

KMY	0.37	315	iP	42	54.55	-0.1
			iS	42	59.75	
ODD1	1.06	24	iP	43	06.96	-0.1
			eS	43	20.22	
EGD	1.35	349	iP	43	11.95	0.1
			eS	43	29.74	
ASK	1.56	350	iP	43	14.99	0.1
			eS	43	34.73	
S.D. = 0.2 on 4 of 4 obs.						

& OCT 03, 1991	04h	09m	59.50s			

03d 04h

36.882 N 121.638 W
 DEPTH = 6.0km
 CENTRAL CALIFORNIA (39)
 <BRK>. ML 2.8 (BRK).

SAO	0.19	127	iPd	10 03.02	-0.5
GCC	0.32	297	iPc	10 06.07	0.0
MHC	0.46	360	iPd	10 09.25	0.5
			eS	10 16.70	
ARN	0.47	10	eP	10 09.00	0.0
PRS	0.59	158	iPd	10 10.55	-0.8
LLA	0.62	115	iPc	10 11.53	-0.3
PCC	0.86	316	iPc	10 15.51	-0.8
			iS	10 29.74	
BKS	1.10	335	eP	10 19.80	-0.7
			eS	10 35.60	
ZSP	1.17	335	iPc	10 22.51	0.8
			iS	10 39.62	
PHAM	1.45	136	eP	10 25.00	-1.3
CMB	1.52	41	iPc	10 27.48	0.1
			iS	10 45.19	
FRI	1.55	85	iPd	10 27.06	-0.6
			iS	10 46.66	
BCH	2.11	143	eP	10 33.50	-2.4
BONR	2.86	67	eP	10 48.00	1.1

14 obs. associated

OCT 03, 1991 05h 05m 34.11±0.43s
 43.132 N ± 5.6km 0.413 W ± 3.2km
 DEPTH = 10.0km (geophysicist)
 PYRENEES (378)
 ML 3.0 (LDG).

OGE	0.06	309	Pg	05 36.97	0.6
JAU	0.10	161	Pg	05 36.71	-0.3
			Sg	05 38.30	
ESCF	0.13	246	Pg	05 37.25	0.0
			Sg	05 39.29	
ATE	0.22	258	Pg	05 38.93	0.1
			Sg	05 42.11	
LHE	0.27	215	Pg	05 39.25	-0.5
MADF	0.30	273	Pg	05 40.72	0.4
			Sg	05 45.21	
ISSF	0.30	250	Pg	05 40.31	-0.1
			Sg	05 44.84	
BOH	0.44	266	Pg	05 42.96	-0.1
EPF	0.56	100	Pg	05 45.00	-0.5
			Sg	05 53.80	
ENSF	0.64	121	Pg	05 46.30	-0.7
SALF	1.23	107	Pg	05 57.90	0.8
GRBF	1.46	101	Pg	06 02.44	1.9
TRGS	1.86	109	Pg	06 10.24	3.8X
LPO	1.93	36	Pg	06 11.20	3.9X
			Sg	06 36.20	
LFF	1.99	24	Pg	06 12.40	4.3X
			Sg	06 39.20	
CAF	2.53	44	Pg	06 22.00	6.1X
			Sg	06 55.20	
RJF	2.58	32	Pg	06 22.40	5.8X
			Sg	06 57.20	
LSF	3.41	23	Pg	06 38.80	10.4X
			Sg	07 22.60	
MFF	3.47	3	Pg	06 39.60	10.3X
			Sg	07 25.00	
TCF	3.67	30	Pg	06 43.20	11.1X
			Sg	07 31.20	
MAF	3.75	34	Pn	06 32.20	-1.0
			Pg	06 45.00	
BGF	4.14	33	Pn	06 38.20	-0.4
			Pg	06 52.00	
			Sg	07 45.60	

S.D. = 0.8 on 14 of 22 obs.

* OCT 03, 1991 05h 57m 48.97±0.94s
 37.615 N ± 10.8km 118.859 W ± 8.8km
 DEPTH = 5.0km (geophysicist)
 CALIFORNIA-NEVADA BORDER REGION (40)
 ML 2.3 (GS).

BONR	0.56	52	iPd	57 59.81	-0.3
CMB	1.28	290	eP	58 12.36	-0.8
KVN	1.55	22	eP	58 18.05	0.6
ARN	2.14	264	eP	58 26.76	0.9
			eS	58 55.37	
BCH	2.62	203	eP	58 32.54	-0.2
ABL	2.77	186	eP	58 38.50	3.4X

ORV 2.83 314 ePn 58 37.02 1.3X
 ePg 58 42.33
 eSg 59 17.36
 S.D. = 1.0 on 5 of 7 obs.

? OCT 03, 1991 06h 07m 01.80±3.22s
 2.951 N ± 15.3km 78.339 W ± 31.7km
 DEPTH = 33.0km (normal)
 NEAR WEST COAST OF COLOMBIA (102)
 MD 4.2 (UVC).

ANCC	1.57	69	eP	07 27.75	0.0
			eS	07 46.70	
HOQC	1.78	73	eP	07 30.73	-0.2
			eS	07 51.80	
CLMC	2.00	62	eP	07 34.38	0.3
CUMC	2.03	167	ePc	07 34.84	0.0
PURC	2.07	107	eP	07 35.51	0.1
HOBC	2.60	58	ePc	07 42.57	-0.1
			eS	08 12.30	

S.D. = 0.2 on 6 of 6 obs.

& OCT 03, 1991 06h 15m 37.20s
 36.783 N 121.543 W
 DEPTH = 7.0km
 CENTRAL CALIFORNIA (39)
 <BRK>. ML 2.8 (BRK).

SAO	0.08	103	iPd	15 39.13	-0.2
GCC	0.44	304	iPc	15 45.46	-0.6
PRS	0.47	163	iPd	15 46.27	-0.4
LLA	0.51	109	iPc	15 47.08	-0.4
			iS	15 54.58	
MHC	0.56	352	iPd	15 48.65	0.1
			eS	15 56.95	
ARN	0.57	1	iPc	15 48.50	-0.1
PCC	0.98	317	iPd	15 54.92	-1.2
			iS	16 08.29	
ZSP	1.29	334	iPc	15 59.35	-2.0
			iS	16 19.84	
PHAM	1.32	135	eP	16 00.10	-1.8
FRI	1.49	81	iPd	16 03.47	-0.8
			iS	16 22.14	
CMB	1.55	36	iPc	16 06.79	1.5
BCH	1.99	143	eP	16 09.50	-2.2

12 obs. associated

? OCT 03, 1991 06h 32m 23.87±4.36s
 20.077 S ± 49.6km 177.971 E ± 30.6km
 DEPTH = 110.3 ± 40.2 km
 4.4mb (1 obs.)
 SOUTH OF FIJI ISLANDS (171)

SVA	2.00	13	iPc	32 57.50	0.1
			eS	33 31.20	
VUN	2.11	13	eP	32 57.90	-0.9
			eS	33 31.30	
OVA	2.50	18	eP	32 50.30	-13.6X
			eS	33 31.30	
KRO	3.06	26	eP	33 11.20	-0.3
			eS	33 57.70	
MBU	3.17	13	eP	33 14.10	1.1
			eS	34 03.00	
TVI	3.66	31	eP	33 18.80	-0.8
NDE	3.70	20	eP	33 20.90	0.7
UDU	4.36	27	eP	33 29.40	0.3
YYYY	33.97	289	eP	38 58.30	-0.9
ASPA	40.94	257	eP	39 57.90	0.7
	1.0s		7.10nm		4.4mb

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

& OCT 03, 1991 06h 36m 47.10s
 36.190 N 120.040 W
 DEPTH = 6.0km (geophysicist)
 CENTRAL CALIFORNIA (39)
 <PAS-P>. ML 3.3 (PAS).

PKEM	0.14	204	iPd	36 49.66	-0.4
PHAM	0.46	220	eP	36 55.43	-0.9
BCH	1.00	182	eP	37 04.51	-2.0
ABL	1.49	153	eP	37 11.80	-2.9
ARN	1.67	314	eP	37 14.28	-2.7
CMB	1.86	352	eP	37 18.94	-0.9
CLC	2.02	100	eP	37 21.90	-0.2
BONR	2.24	38	eP	37 24.18	-1.4
			eS	37 55.70	
SSK	2.76	135	ePn	37 30.81	-2.0

KVN 3.24 28 ePg 37 47.75 8.0
 ORV 3.55 341 ePn 37 42.27 -1.6
 PLM 3.85 136 ePn 37 45.33 -3.1
 12 obs. associated

OCT 03, 1991 06h 39m 25.06±0.49s
 48.023 N ± 3.9km 7.111 E ± 5.2km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 2.7 (LDG). 2.4 (STR).

MOF	0.17	175	Pg	39 28.84	-0.2
			Sg	39 31.58	
ECH	0.20	9	Pg	39 28.47	-0.9
			Sg	39 30.93	
BSF	0.29	228	Pg	39 31.03	-0.1
CDF	0.40	16	Pg	39 32.40	-1.0
HAU	0.51	268	Pg	39 35.50	0.0
			Sg	39 42.60	
BBS	0.62	154	Pg	39 37.75	0.2
FEL	0.62	103	Pg	39 37.58	-0.1
LOMF	0.70	196	Pg	39 38.97	0.0
			Sg	39 49.24	
VITF	0.78	285	Pg	39 39.71	-0.5
GW	1.01	19	Pg	39 43.67	-0.6
			Sg	39 57.85	
RUP	1.68	359	ePg	39 56.14	1.5
ABH	1.88	9	ePg	39 59.25	1.7
LOR	2.32	252	Pg	40 08.30	4.3X
			Sg	40 38.60	
LBF	2.36	245	Pg	40 10.20	5.6X
			Sg	40 39.80	
SMF	2.62	239	Pg	40 15.00	6.9X
			Sg	40 48.60	
SSF	2.62	250	Pg	40 14.50	6.3X
			Sg	40 48.00	
AVF	2.83	246	Pg	40 19.00	7.8X
			Sg	40 55.40	

S.D. = 0.9 on 12 of 17 obs.

& OCT 03, 1991 07h 46m 03.72s
 60.127 N 153.543 W
 DEPTH = 169.8km
 SOUTHERN ALASKA (2)
 <AEIC>.

INW	0.21	106	eP	46 25.58	0.4
			S	46 42.89	
INE	0.25	105	eP	46 25.54	0.2
OPT	0.50	161	iP	46 26.66	-1.0
			eS	46 44.81	
RDW	0.51	45	eP	46 26.98	-0.9
			eS	46 44.65	
RS1	0.51	49	eP	46 26.68	-1.2
			eS	46 45.45	
RS2	0.52	49	eP	46 26.72	-1.2
			eS	46 45.18	
RSO	0.52	49	eP	46 27.13	-0.8
			eS	46 44.83	
RDN	0.55	45	eP	46 26.84	-1.1
REF	0.55	49	eP	46 27.18	-0.9
DFR	0.63	42	eP	46 27.42	-0.9
RDT	0.72	51	eP	46 27.86	-1.0
MCNL	1.03	203	eP	46 29.32	-1.6
HOM	1.07	115	eP	46 30.60	-0.6
			eS	46 50.65	
NNL	1.13	93	eP	46 32.00	0.3
XLV	1.14	125	eP	46 30.41	-1.4
CDD	1.20	182	eP	46 30.75	-1.7
BGL	1.27	26	eP	46 32.73	-0.4
CNPM	1.31	116	eP	46 32.37	-1.0
			eS	46 54.29	
CGLM	1.41	32	eP	46 33.34	-1.0
NCG	1.45	27	eP	46 33.28	-1.5
SYI	1.63	158	eP	46 34.64	-1.8
SLKM	1.70	76	eP	46 36.28	-0.9
			eS	47 00.07	
SUA	1.92	44	eP	46 37.33	-2.4
SEW	2.05	89	iP	46 40.08	-0.9
			eS	47 06.62	
PMS	2.26	58	eP	46 41.89	-1.6
			eS	47 11.93	
PLRM	2.61	54	eP	46 45.03	-2.5
CUT	2.78	33	eP	46 48.77	-0.9
GHO	2.79	52	eP	46 47.66	-2.3
			eS	47 22.21	
KNK	2.81	60	eP	46 47.92	-2.1

03d 07h

LTI	2.85	89	iP	46	49.37	-1.2
KNIM	2.90	83	iP	46	49.46	-1.7
			eS	47	24.21	
SML	3.05	54	eP	46	50.72	-2.3
SCM	3.48	58	eP	46	56.56	-1.9
FID	3.56	77	eP	46	57.58	-1.8
			eS	47	37.98	
VZW	3.57	72	eP	46	58.24	-1.4
TRF	3.68	23	eP	47	00.16	-1.0
VLZ	3.69	71	eP	47	00.49	-0.6
			eS	47	42.55	
RND	3.97	32	eP	47	02.86	-2.0
KLU	3.98	67	eP	47	03.35	-1.6
			eS	47	49.88	

39 obs. associated

* OCT 03, 1991 08h 38m 55.06±0.97s
 24.397 S ± 7.9km 70.593 W ± 17.1km
 DEPTH = 71.7 ± 12.2 km
 4.2mb (1 obs.)

NEAR COAST OF NORTHERN CHILE (122)

ANT	0.71	13	iPc	39	11.00	0.6
			iS	39	27.60	
RTCB	7.24	168	eP	40	35.00	-5.4X
ARE	7.94	354	eP	40	49.00	-1.4
			eS	42	21.00	
ZOBO	8.41	16	P	40	58.80	1.7
Z	20s					
			LR	44	12.00	
PEL	8.72	181	eP	41	00.00	-0.7
LNV	9.55	184	eP	41	12.50	0.4
SIV	12.23	49	P	41	46.70	-1.6
VAO	21.68	91	(P)	43	42.00	0.5
ALO	68.11	329	eP	49	49.50	-0.1
			0.8s	2.24nm	4.2mb	
GBA	148.00	104	PKPc	58	31.90	0.7
			0.4s	1.20nm		

S.D. = 1.3 on 9 of 10 obs.

OCT 03, 1991 08h 50m 59.99±0.86s
 43.034 N ± 8.4km 25.958 E ± 7.9km
 DEPTH = 10.0km (geophysicist)

BULGARIA (359)

PVL	0.49	292	iPg	51	09.00	-1.0
JMB	0.73	141	ePg	51	13.00	-1.3
PLD	1.31	225	eP	51	24.00	-0.2
PGB	1.40	250	eP	51	25.00	-0.7
VTS	2.07	259	eP	51	36.00	0.6
ISR	2.15	11	eP	52	01.50	25.2X
TLB	2.16	43	ePc	51	38.00	1.5
MMB	2.20	230	eP	51	39.00	1.9
			eS	56	23.00	
KKB	2.43	242	ePg	51	45.00	4.7X
MLR	2.46	360	eP	51	40.00	-0.9
VRI	2.89	11	eP	51	50.50	3.6X
			e	56	38.00	

S.D. = 1.4 on 8 of 11 obs.

OCT 03, 1991 08h 55m 11.09±0.68s
 43.068 N ± 6.1km 25.933 E ± 5.7km
 DEPTH = 10.0km (geophysicist)

BULGARIA (359)

PVL	0.46	289	iP	55	20.00	-0.5
JMB	0.77	141	ePg	55	26.00	-0.1
DIM	1.06	196	ePg	55	31.00	0.0
PLD	1.32	224	eP	55	35.00	-0.5
PGB	1.40	249	iP	55	37.00	0.3
DMK	1.84	132	ePn	55	43.00	0.1
VTS	2.06	258	eP	55	47.00	0.7
MLR	2.42	0	ePd	55	51.50	0.0
KKB	2.43	241	eP	55	55.00	3.6X

S.D. = 0.5 on 8 of 9 obs.

& OCT 03, 1991 08h 56m 22.66s
 60.694 N 152.062 W
 DEPTH = 80.6km
 SOUTHERN ALASKA (2)
 <AEIC>

RDT	0.21	235	iPd	56	34.31	1.1
			eS	56	44.23	
DFR	0.32	252	iPd	56	34.76	-0.7
REF	0.38	237	iPd	56	35.38	-0.5

RDN	0.39	243	iPd	56	35.25	-0.7
NKA	0.41	83	iPc	56	37.26	1.4
RSO	0.41	236	iPd	56	35.66	-0.5
			eS	56	46.58	
RS2	0.41	236	iPd	56	35.68	-0.5
RS1	0.42	236	iPd	56	35.67	-0.5
RDW	0.43	240	iPd	56	35.60	-0.7
RED	0.45	232	iPd	56	35.65	-0.7
			eS	56	46.65	
NCT	0.45	253	eP	56	35.03	-1.3
			eS	56	46.36	
CKL	0.52	345	iPc	56	36.37	-0.6
CRP	0.58	356	ePc	56	37.06	-0.5
			S	56	48.16	
BGL	0.59	344	ePc	56	37.04	-0.6
CGLM	0.62	2	iPc	56	37.26	-0.6
			S	56	48.98	

NCG 0.71 356 ePc 56 38.28 -0.6
 >NNL 0.76 149 ePc 56 39.66 0.5
 INE 0.81 218 iPd 56 38.79 -1.1
 INW 0.82 221 iPd 56 39.03 -1.0

SLKM 0.93 101 ePc 56 40.10 -1.1

SUA	1.00	39	iPc	56	41.71	-0.5
			eS	56	57.31	
HOM	1.06	168	ePd	56	42.53	-0.2
			eS	56	57.30	
OPT	1.20	210	iPd	56	43.86	-0.6
			S	57	00.64	
CNPM	1.24	160	ePd	56	44.12	-1.0
			eS	57	01.55	
XLV	1.26	172	iPd	56	44.32	-0.9
			S	57	01.87	
SKT	1.32	11	iPd	56	44.78	-1.2
PMS	1.34	65	iPc	56	45.71	-0.6
			S	57	03.30	
SEW	1.43	113	ePc	56	45.50	-1.9
			S	57	05.49	

PWA 1.43 47 eP 56 47.50 0.1
 AUL 1.49 208 eP 56 47.51 -0.7
 AUE 1.49 207 eP 56 47.21 -1.1
 AUP 1.50 208 eP 56 48.28 -0.2
 AUH 1.50 208 ePc 56 47.83 -0.7
 AGU 1.50 208 eP 56 47.97 -0.6
 AUW 1.50 209 iPd 56 47.72 -0.7

PLRM 1.68 56 ePd 56 49.05 -1.8
 PMR 1.68 56 eP 56 49.80 -1.0
 SVW 1.79 285 ePd 56 50.80 -1.5
 GHO 1.86 53 ePd 56 51.73 -1.6

KNK	1.90	66	ePd	56	51.96	-1.8
			eS	57	15.05	
MCNL	1.90	218	iPd	56	52.38	-1.4
			eS	57	15.48	
CUT	1.92	26	ePd	56	53.10	-0.9
CDD	1.94	205	eP	56	53.41	-1.0
SYI	2.10	185	ePc	56	55.42	-1.0
			eS	57	20.15	

SML 2.12 57 ePd 56 54.87 -1.9

KNIM 2.17 97 iPc 56 54.12 -3.3
 LTI 2.19 106 ePc 56 54.98 -2.7
 GLI 2.44 83 ePc 56 57.59 -3.6
 SCM 2.56 61 eP 57 00.68 -2.2
 HUR 2.56 26 ePd 57 02.18 -0.7

			eS	57	32.28	
VZW	2.72	80	ePd	57	02.13	-2.9
			eS	57	34.42	
FID	2.74	86	ePd	57	01.26	-4.1
			S	57	32.90	
VLZ	2.83	79	ePc	57	03.58	-2.9
			eS	57	36.20	

TRF	2.89	16	ePd	57	05.59	-1.9
KTH	2.92	10	ePd	57	06.00	-1.8
TTA	2.92	322	eP	57	05.80	-2.1
KDC	2.96	184	eP	57	05.80	-2.5
KLU	3.09	72	iPc	57	07.34	-2.8
			eS	57	43.97	

RND	3.11	28	ePd	57	08.52	-2.0
CVA	3.12	90	eP	57	06.92	-3.5
TOA	3.17	61	eP	57	10.10	-1.2
MCK	3.38	24	eP	57	12.29	-1.9
SGAM	3.39	90	eP	57	09.82	-4.4
TZL	3.47	64	eP	57	14.16	-1.2
SDG	3.62	57	eP	57	15.76	-1.7
BWN	3.69	18	eP	57	16.22	-2.3

PAX	3.87	51	ePd	57	18.81	-2.3
GLB	4.08	76	ePc	57	20.64	-3.3
NEA	4.13	18	eP	57	21.38	-3.3
WRH	4.21	24	ePc	57	22.71	-3.1
CROM	4.38	85	eP	57	24.54	-3.8
HDA	4.41	30	eP	57	26.07	-2.5
CCB	4.43	24	eP	57	25.31	-3.4
TGL	4.53	85	eP	57	27.49	-2.9
WAX	4.55	89	eP	57	25.50	-5.1
MDM	4.63	21	eP	57	28.41	-3.2
FBA	4.65	23	eP	57	29.20	-2.7
BALM	4.76	82	eP	57	29.53	-4.1
GLM	4.81	24	eP	57	31.07	-3.1
YAH	5.11	89	eP	57	33.98	-4.5

80 obs. associated

* OCT 03, 1991 10h 07m 51.20±1.65s
 30.059 S ± 6.7km 73.141 W ± 22.2km
 DEPTH = 33.0km (normol)
 OFF COAST OF CENTRAL CHILE (134)
 MD 4.3 (SAN).

IHA	3.22	157	eP	08	42.00	1.4
			iS	09	14.00	
JACH	3.40	141	iP	08	43.50	0.1
			iS	09	18.00	
ROCH	3.43	148	eP	08	43.50	-0.3
			iS	09	18.40	
LCCH	3.66	159	iPc	08	46.50	-0.4
			iS	09	23.50	
PEL	3.72	146	iPc	08	47.50	-0.3
			iS	09	25.00	
SAN	3.99	149	eP	08	51.50	-0.1
			iS	09	31.80	
TACH	4.04	153	eP	08	52.70	0.3
			iS	09	34.00	
ZON	4.12	112	eP	08	54.50	1.1
LNV	4.15	160	eP	08	53.00	-0.9
			iS	09	35.00	
PCH	4.20	148	iPd	08	54.50	-0.1
CHCH	4.40	152	eP	08	57.60	0.1
			iS	09	43.00	
ZOBO	14.48	20	P	11	17.00	0.8
PPD	21.16	73	eP	12	34.10	-1.7

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

? OCT 03, 1991 11h 16m 13.77±3.20s
 44.139 N ± 45.7km 11.399 E ± 19.4km
 DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)

PGD	0.35	139	P	16	20.70	-0.4
			eSg	16	25.30	
SFI	0.39	124	P	16	21.20	-0.6
			eSg	16	28.10	
MME	0.51	276	P	16	24.90	0.8
			eSn	16	35.10	
BDI	0.58	263	P	16	24.60	-1.0
			eSg	16	35.10	
CRE	0.65	142	P	16	28.00	1.2
			eSg	16	36.90	

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

OCT 03, 1991 11h 37m 37.66±0.74s
 40.811 N ± 4.5km 22.886 E ± 7.9km
 DEPTH = 10.0km (geophysicist)

GREECE (364)

MD 2.5 (THE).

THE	0.19	161	ePg	37	41.94	0.1
			eSg	37	45.02	
KNT	0.35	2	ePg	37	44.30	-0.6
			eSg	37	48.90	
SOH	0.36	88	ePg	37	45.01	0.0
			eSg	37	49.06	
SRS	0.62	60	ePg	37	49.33	-0.8
			eSg	37	57.30	
LIT	0.77	203	ePg	37	52.34	

DEPTH = 5.0km (geophysicist)
NEW MADRID, MISSOURI REGION (486)
mbLg 3.1 (GS). Felt (III) at
Blodgett, Charleston and East
Proirie. Felt (II) at New
Madrid.

DWM	0.06	232	P	46	06.70	0.3
NMNO	0.27	201	P	46	10.50	0.2
LST	0.40	217	iPd	46	12.64	-0.2
OGTN	0.42	186	P	46	13.30	0.0
LDMO	0.44	194	P	46	13.50	-0.2
BSTN	0.45	183	P	46	14.90	1.0
ELC	0.47	20	iPd	46	13.74	-0.6
ACTN	0.50	169	P	46	14.70	-0.2
DON	0.52	310	P	46	14.70	-0.6
GOIL	0.82	56	P	46	20.10	-1.0
CSIL	0.94	33	P	46	22.30	-0.9
WGAR	1.16	212	P	46	27.10	0.1
OKG	1.26	195	P	46	28.20	-0.4
FVM	1.39	326	iPc	46	29.76	-1.1
			iS	46	47.38	
NHIL	1.48	42	P	46	32.90	0.8
WDIN	1.85	47	P	46	38.30	0.9
CCMO	2.05	337	P	46	41.50	1.2
OLY	2.12	232	eP	46	41.78	0.4
			eS	47	09.23	
PWLA	2.16	149	eP	46	40.77	-1.3
			iS	47	11.46	
SPIN	2.23	40	P	46	44.60	1.6

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

* OCT 03, 1991 12h 01m 40.86±0.94s
33.221 S ± 7.8km 179.353 W ± 16.1km
DEPTH = 33.0km (normal)
5.1mb (4 obs.)

SOUTH OF KERMADEC ISLANDS (179)

HBZ	4.77	203	eP	02	52.80	0.6
			eS	03	48.80	
KUZ	5.36	228	P	03	05.50	4.9X
NOZ	5.79	201	eP	03	06.70	0.1
URZ	5.79	209	eP	03	06.30	-0.4
			eS	04	12.50	
WCZ	5.86	241	P	03	13.30	5.5X
WLZ	6.19	220	eP	03	16.40	4.1X
PAHZ	6.33	206	eP	03	15.30	0.9
WHH	6.58	210	eP	03	18.20	0.4
MOZ	7.09	202	eP	03	28.40	3.4X
RUZ	7.29	215	eP	03	28.80	1.0
TEHZ	7.43	203	eP	03	26.10	-3.5X
PGZ	8.17	204	eP	03	36.60	-3.4X
MNG	8.46	208	eP	03	39.40	-4.7X
			eS	05	11.40	
KIW	8.90	209	eP	03	45.00	-5.1X
MTW	8.92	206	eP	03	45.00	-5.4X
AMW	8.96	204	eP	03	46.70	-4.2X
MRW	9.29	209	eP	03	50.30	-5.2X
			eS	05	32.50	
WEL	9.31	208	eP	03	54.00	-1.8
			S	05	24.00	
TCW	9.46	211	eP	03	52.40	-5.4X
KHZ	10.76	209	eP	04	10.00	-5.6X
			eS	06	06.80	
LTZ	11.60	212	eP	04	20.70	-6.5X
MOZ	12.19	209	eP	04	26.50	-8.5X
			eS	06	38.30	
BWZ	14.05	213	eP	04	53.30	-6.3X
DZM	16.76	308	iPc	05	42.60	7.8X
CAN	26.18	257	eP	07	18.00	3.8X
BWA	26.75	258	eP	07	19.80	0.4
NHR	30.41	316	e(P)	07	54.00	1.6
OIS	38.48	279	eP	09	02.40	0.7
ASPA	41.90	271	iPd	09	30.10	0.1
	0.5s	22.30nm			5.1mb	
			eS	15	57.50	
WR2	43.12	276	iPd	09	40.00	0.1
	0.5s	61.00nm			5.6mb	
FORR	44.22	258	eP	09	48.60	-0.1
WARB	47.00	264	eP	10	10.00	-0.9
	0.4s	4.00nm			4.8mb	
MTN	49.37	282	eP	10	20.00	-9.3X
MBL	54.74	266	eP	11	07.00	-2.7
SPA	56.96	180	iPc	11	26.20	0.9
	1.0s	17.00nm			5.0mb	
NVL	76.00	184	eP	13	25.00	-0.8
KEY	140.59	346	ePKP	21	06.00	-1.6

KAF	146.77	338	ePKP	21	17.70	-0.7
	0.5s	15.60nm				
NUR	148.51	337	ePKP	21	23.30	2.1
	0.4s	19.10nm				
PRNI	150.74	274	ePKP	21	29.40	3.8X
MML	150.85	278	ePKP	21	30.70	4.9X
ADI	151.12	279	ePKP	21	30.40	4.3X
NB2	151.33	349	PKP	21	29.60	4.0X
	0.6s	7.40nm				
HFS	151.74	346	ePKP	21	29.80	3.7X
	0.4s	4.20nm				
KIC	152.81	168	PKP	21	35.68	6.6X

S.D. = 1.2 on 20 of 45 obs.

OCT 03, 1991 13h 09m 06.97±1.37s
3.682 S ± 7.2km 149.781 E ± 9.1km
DEPTH = 42.0 ± 13.8 km
4.4mb (7 obs.)
BISMARCK SEA (203)

RAB	2.44	102	e(P)	09	43.00	-2.2
			iS	10	24.00	
LAT	4.05	223	e(P)	10	08.40	0.4
PMG	6.26	205	eP	10	41.00	1.7
GUMO	17.84	344	eP	13	16.00	2.2
DIS	19.48	210	eP	13	32.50	-1.0
MTN	20.56	243	eP	13	43.00	-1.9
WR2	22.08	222	iPd	13	59.50	-0.7
	1.1s	13.40nm			4.3mb	
QLP	23.38	193	eP	14	09.50	-3.4X
BRS	23.75	173	iPc	14	18.10	1.6
	1.0s	8.50nm			4.2mb	
DZM	24.40	140	iPc	14	24.00	1.1
ASPA	25.10	216	iPc	14	30.10	0.6
	1.5s	15.20nm			4.3mb	
		eS	19	11.20		
COO	26.83	176	iPc	14	45.00	-0.5
BWA	30.61	182	eP	15	19.00	-0.4
CAN	31.49	181	eP	15	27.50	0.4
BJI	53.33	328	eP	18	23.50	-0.7
XAN	53.76	318	eP	18	26.40	-1.2
CHTO	54.79	296	eP	18	34.00	-1.4
	1.0s	2.00nm			4.1mb	
CD2	55.74	312	eP	18	41.70	-0.4
LZH	58.35	317	eP	18	56.00	-4.7X
	1.6s	29.00nm			5.1mb	
GTA	62.81	318	eP	19	32.40	1.5
	1.0s	5.00nm			4.6mb	
GUN	68.97	302	P	20	10.88	0.0
PKI	69.28	301	P	20	12.88	0.1
KKN	69.45	301	P	20	13.58	-0.1
DMN	69.55	301	P	20	15.18	0.9
GKN	70.05	301	P	20	17.00	-0.3
WMO	72.89	318	eP	20	32.50	-1.4
INK	88.50	21	eP	21	56.00	0.0
YKA	95.84	28	eP	22	31.70	1.7
	0.9s	3.30nm			4.8mb	

S.D. = 1.2 on 26 of 28 obs.

* OCT 03, 1991 14h 21m 32.11±0.62s
46.769 S ± 16.7km 10.543 W ± 9.0km
DEPTH = 10.0km (geophysicist)
4.9mb (5 obs.) 4.1msz (1 obs.)
SOUTHERN MID-ATLANTIC RIDGE (410)

NVL	26.38	164	eP	27	11.00	1.2
POF	29.37	65	eP	27	36.00	-1.3
FRS	32.54	71	iPd	28	05.00	-0.2
	0.8s	14.93nm			5.0mb	
WIN	32.86	52	iPc	28	09.00	0.6
	1.0s	15.00nm			4.9mb	
BLF	33.53	71	eP	28	12.00	-2.1
VIR	34.66	71	iPc	28	26.00	2.2X
	0.8s	14.93nm			4.9mb	
SEK	34.99	72	iPd	28	27.80	1.1
	0.9s	12.60nm			4.8mb	
PRY	35.84	70	eP	28	34.50	0.6
KSR	36.21	68	eP	28	28.00	-9.1X
SLR	37.19	69	iPc	28	43.00	-2.3
BFT	38.36	71	e(P)	28	55.50	0.3
	0.9s	29.41nm			5.0mb	
BUL	41.46	64	iPd	29	21.20	0.4
PDCR	41.75	315	eP	29	26.00	3.0X
CIR	42.67	68	iPd	29	32.10	1.5
KRI	44.59	62	iPd	29	47.90	1.6
SOB1	45.48	316	(P)	29	53.00	-0.3
MTD	45.83	64	iPd	29	54.00	-2.1

TACH	46.85	264	eP	30	04.00	0.0
PEL	46.97	264	iPc	30	06.10	1.1
LNV	47.00	263	eP	30	05.00	-0.1
LIC	52.99	7	P	30	52.70	1.7
KIC	53.15	7	P	30	53.70	1.5
ZOBO	56.21	283	P	31	13.00	-2.3
	Z	22s	0.16um		4.1msz	
			eLR	48	08.00	
INK	144.42	328	ePKP	41	08.00	-0.8

S.D. = 1.4 on 21 of 24 obs.

? OCT 03, 1991 14h 58m 42.49±1.56s
5.878 S ± 33.9km 151.095 E ± 28.2km
DEPTH = 87.7 ± 26.3 km
4.7mb (1 obs.)
NEW BRITAIN REGION, P.N.G. (192)

RAB	1.99	33	iPd	59	15.00	0.0
			iS	59	47.50	
LAT	4.14	259	eP	59	44.80	0.1
PMG	5.25	228	eP	00	00.00	-0.1
			eS	00	56.00	
WR2	21.45	228	iPd	03	24.50	-0.8
	0.3s	22.60nm			5.0mb X	
ASPA	24.22	221	iPd	03	53.20	0.8
	0.8s	26.70nm			4.7mb	

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

OCT 03, 1991 15h 46m 14.34±1.37s
10.147 S ± 4.8km 160.867 E ± 6.3km
DEPTH = 45.1 ± 12.1 km
5.1mb (24 obs.) 4.7msz (3 obs.)
SOLOMON ISLANDS (193)

HNR	1.15	308	eP	46	35.00	0.7
			e	46	53.00	
DZM	13.01	156	iPd	49	17.70	-1.4
PMG	13.54	272	eP	49	29.00	3.1X
CTAO	17.21	233	iPc	50	13.20	0.0
	2.0s	111.61nm			4.6mb	
			i	50	17.00	
COO	21.98	201	iPc	51	08.10	1.9
			i	51	37.80	
OLP	22.68	222	eP	51	13.00	-0.1
OIS	22.94	241	iPd	51	16.60	0.9
	0.7s	62.00nm			5.2mb	
CMS	25.41	211	eP	51	40.00	0.6
BWA	26.72	203	eP	51	50.40	-1.1
CNB	27.16	201	eP	51	55.00	-0.6
CAN	27.29	202	eP	51	56.70	-0.1
WR2	27.35	246	iPc	51	57.40	0.0
	0.6s	7.90nm			4.5mb	
			i	55	24.90	
WRA	27.37	246	P	51	57.40	-0.2
STK	28.04	217	eP	52	04.30	0.8
	0.5s	4.40nm			4.4mb	
ASPA	29.02	239	P	52	11.80	-0.7
TOO	30.62	204	iPd	52	27.00	0.5
BFD	31.59	209	eP	52	34.00	-1.0
WARB	36.07	239	eP	53	03.00	-10.8X
	0.6s	17.00nm				
MBL	40.89	249	eP	53	53.00	-1.0
PCI	41.81	280	ePd	54	06.50	4.9X
BAG	47.80	303	eP	54	51.00	1.1
PMO	50.15	101	iP	55	15.40	7.6X
	1.2s	55.00nm			5.5mb	
CHJJ	50.36	337	eP	55	18.10	

03d 15h

Z	20s	0.60um	4.8Msz	eS	36 29.00	e(S)	17 27.00				
GYA	63.98	306 P	56 49.00	3.2X	PMG	4.14 157 iPd	36 26.40 -0.9	CNB	24.89 258 eP	13 03.20	3.1X
ADK	64.74	15 P	56 48.80	-1.3	WR2	17.96 216 eP	39 26.60 -1.5	CAN	25.19 258 eP	13 05.50	2.7X
	1.0s	68.00nm	5.7mb			0.5s 31.70nm	4.9mb	BWA	25.77 260 eP	13 07.90	-0.4
BJI	64.84	323 eP	56 50.00	-1.0	ASPA	21.20 211 iPc	40 01.90 0.0	TAU	26.71 241 eP	13 19.00	2.2
Z	20s	0.48um	4.7Msz			0.4s 12.00nm	4.6mb	TOO	27.84 253 eP	13 30.00	2.8X
XAN	66.02	314 eP	56 58.40	-0.4	STK	26.44 188 iPc	40 52.60 0.9	BFD	30.21 253 eP	13 48.00	-0.4
		pP	57 04.50	20kmX		0.4s 8.50nm	4.7mb	STK	31.87 263 eP	14 05.30	2.2
KMI	66.59	303 Pd	57 03.00	0.2	CHG	51.90 299 eP	44 23.50 0.5		1.6s 3.00nm		3.9mb X
	1.4s	40.00nm	5.3mb		CHTO	51.90 299 eP	44 22.50 -0.5	CTAO	32.61 286 iPd	14 12.50	2.8X
CHG	67.49	295 eP	57 07.90	-0.4		1.0s 2.50nm	4.0mb		0.9s 12.98nm		4.8mb
CHTO	67.49	295 eP	57 08.00	-0.3	KIC	150.43 273 PKP	55 04.80 6.4X	ADE	33.59 256 iPd	14 19.00	1.0
	1.0s	5.50nm	4.6mb		LIC	150.71 273 PKP	55 05.32 6.5X		1.3s 365.38nm		6.1mb
MHC	68.10	322 eP	57 12.50	0.6		0.6s 12.50nm		QIS	37.76 280 eP	14 53.00	-0.5
CD2	68.28	309 eP	57 14.80	1.7		S.D. = 1.3 on 9 of 11 obs.		ASPA	41.06 272 iPd	15 20.60	-0.4
	1.2s	23.00nm	5.1mb						1.0s 51.20nm		5.2mb
BTO	68.91	321 eP	57 18.00	1.1		OCT 03, 1991 18h 15m 47.93±0.38s		WR2	42.35 277 iPc	15 31.20	-0.4
LZH	70.64	314 eP	57 27.00	-0.7		43.919 N ± 3.1km 7.493 E ± 3.4km			0.8s 54.00nm		5.3mb
	1.5s	28.00nm	5.0mb			DEPTH = 10.0km (geophysicist)					
Z	18s	0.45um	4.8Msz			NEAR SOUTH COAST OF FRANCE (379)		WARB	46.08 265 iPc	16 00.70	-0.8
		pP	57 33.50	21kmX		ML 3.0 (LDG), 2.9 (GEN).			0.4s 7.00nm		4.9mb
GTA	75.02	315 eP	57 55.60	2.3	SBF	0.07 217 Pg	15 50.30 -0.1	KNA	49.06 279 eP	16 24.00	-0.9
	1.0s	5.00nm	4.4mb			Sg	15 51.60	SPA	56.23 180 iPd	17 17.70	-0.3
		pP	58 00.00	14kmX	IMI	0.29 92 P	15 54.56 0.6		1.0s 45.00nm		5.5mb
YAK	75.93	345 iP	57 56.60	-1.2		S	15 59.28	NANU	56.79 264 eP	17 21.50	-0.8
		i	58 03.00			S	15 54.66 0.2	PCI	64.72 287 ePd	18 10.00	-6.2X
SVW	78.83	20 P	58 16.00	2.0	ENR	0.31 350 P	15 54.66 0.2	SNA	76.03 179 iPc	19 23.20	-0.7
		pP	58 24.00	25kmX		S	15 59.07		1.0s 42.00nm		5.4mb
PMR	81.43	22 P	58 27.00	-0.7	STV	0.35 340 P	15 55.07 -0.1	MAT	80.06 327 eP	19 45.00	-1.5
	0.7s	20.35nm	5.2mb			S	16 00.10	BAR	89.32 49 eP	20 34.00	0.9
GKN	82.79	300 P	58 37.10	1.3	ROB	0.46 36 P	15 57.84 0.5	PLM	89.65 49 eP	20 35.00	0.2
BALM	83.71	24 P	58 39.60	-0.1		S	16 04.51	RVR	89.76 48 eP	20 36.00	0.9
		pP	58 49.30	31kmX	FIN	0.59 60 P	16 00.00 0.1	SBB	89.95 47 eP	20 36.00	0.0
MAW	83.73	202 eP	58 40.00	0.4		S	16 08.51	GLA	90.73 50 eP	20 38.00	-1.6
	1.0s	26.00nm	5.2mb		DOI	0.61 343 P	16 00.00 -0.3	CLC	90.85 46 eP	20 41.00	0.9
FBA	84.03	20 P	58 39.80	-1.3		eSg	16 08.00	GSC	90.98 47 eP	20 41.00	0.2
	0.7s	13.08nm	5.1mb		PZZ	0.65 334 P	16 00.82 -0.2	CHTO	92.90 291 eP	20 52.10	2.3
WMO	85.09	316 eP	58 45.00	-1.9		S	16 09.74		0.9s 1.49nm		4.4mb
ORV	87.02	49 P	58 58.50	2.1	FRF	0.71 240 Pg	16 02.00 0.1	OBN	146.78 321 ePKP	27 17.00	0.5
CMB	87.46	51 P	59 07.20	8.6X		Sg	16 11.20	KAF	147.12 337 ePKP	27 15.00	-1.9
MWC	88.36	55 eP	59 04.00	0.8	CKI	0.76 48 P	16 03.00 0.2		0.7s 3.90nm		
SBB	88.66	55 eP	59 06.00	1.5		eSg	16 10.00	NUR	148.84 336 ePKP	27 20.50	0.8
		e	59 14.00		LMR	0.92 231 Pg	16 05.90 0.3		1.1s 33.10nm		
RVR	88.86	55 eP	59 06.00	0.6		Sg	16 18.20	NB2	151.87 348 PKP	27 28.10	3.8X
		e	59 15.00		BHB	0.94 350 P	16 04.71 -1.1		1.0s 4.20nm		
PEC	89.01	55 P	59 07.00	0.8		S	16 17.22	LIC	152.08 170 PKP	27 31.68	5.7X
CLC	89.09	54 eP	59 07.00	0.5	LRG	0.94 241 Pg	16 06.40 0.5	KIC	152.25 171 PKP	27 31.82	5.6X
		e	59 16.00			Sg	16 19.30	TIC	152.49 170 PKP	27 32.48	5.9X
PLM	89.14	56 eP	59 07.00	0.0	PCP	0.98 50 P	16 06.97 0.4		S.D. = 1.1 on 34 of 49 obs.		
BAR	89.15	57 eP	59 07.00	0.2		S	16 21.43				
GSC	89.61	54 eP	59 09.00	0.0	RRL	1.12 333 P	16 09.12 0.0	? OCT 03, 1991 19h 18m 03.10±4.58s			
		e	59 18.00			S	16 24.09	43.988 N ± 34.0km 12.627 E ± 22.3km			
INK	90.65	20 eP	59 12.00	-1.0	RSP	1.24 352 P	16 09.43 -1.7	DEPTH = 10.0km (geophysicist)			
GLA	90.74	57 eP	59 15.00	0.8		S	16 24.40	CENTRAL ITALY (381)			
		e	59 24.00		BNI	1.28 333 P	16 12.00 0.3				
NEW	92.22	41 P	59 20.20	-0.5	LPG	1.66 342 Pn	16 18.20 0.7	ARV	0.54 155 P	18 14.40	0.4
	0.7s	18.00nm	5.6mb			Sg	16 44.00		eSg	18 22.30	
MSU	93.87	52 P	59 30.00	31kmX	LPL	1.69 342 Pn	16 18.40 0.6	SFI	0.56 263 P	18 14.10	-0.4
		pP	59 28.00	-0.8		Pg	16 22.40		eSg	18 24.60	
YKA	96.40	28 eP	59 38.70	33kmX	PGF	1.76 141 Pn	16 17.20 -1.5	CRE	0.61 234 P	18 15.80	0.4
	0.7s	2.00nm	4.7mb			Sn	16 38.00		eSg	18 20.00	
BW06	96.49	48 P	59 41.00	0.3	HAU	4.16 349 Pn	16 53.50 0.6	PGD	0.66 261 P	18 16.70	0.3
ALO	97.91	56 eP	59 47.00	-0.2		Sn	17 40.00		eSg	18 26.00	
	1.0s	4.50nm	5.0mb			S.D. = 0.7 on 21 of 21 obs.		ASS	0.92 178 P	18 20.10	-0.6
		e	59 55.00						S.D. = 0.7 on 5 of 5 obs.		
ANMO	97.91	56 P	59 46.80	-0.3		OCT 03, 1991 19h 07m 38.79±0.41s		? OCT 03, 1991 19h 22m 00.90±5.45s			
	0.9s	4.20nm	5.0mb			33.948 S ± 6.3km 179.622 E ± 7.5km		24.095 N ± 11.0km 122.310 E ± 44.1km			
MTD	123.16	242 iPKPc	05 05.40	-3.3X		DEPTH = 33.0km (normal)		DEPTH = 10.0km (geophysicist)			
		i	05 14.90			5.2mb (8 obs.)		TAIWAN REGION (243)			
BUL	124.20	237 iPKPd	05 09.90	-0.9	H8Z	3.80 196 eP	08 34.80 -1.5	TWD	0.65 269 ePc	22 14.10	0.2
		i	05 19.00		KUZ	4.24 228 eP	08 42.40 -0.2		eS	22 22.20	
PDCR	149.97	138 ePKP	05 59.60	2.3X	URZ	4.76 205 P	08 49.80 -0.2	TWC	0.66 321 iPd	22 14.10	0.0
SOB1	151.04	131 ePKP	06 02.60	3.6X	WCZ	4.77 244 P	08 48.90 -1.3	TWF1	1.19 232 iPc	22 22.70	-0.3
		e	06 13.30		NOZ	4.83 195 eP	08 50.80 -0.3		eS	22 39.40	
		S.D. = 1.0 on 62 of 78 obs.			MOZ	5.99 219 eP	09 08.70 1.3	TWO	1.36 278 eP	22 25.50	-0.4
					CNZ	6.18 211 eP	09 10.70 0.4	TKW	1.86 244 ePc	22 33.70	0.5
* OCT 03, 1991 16h 35m 24.88±0.90s					RUZ	6.21 212 P	09 11.30 0.7		S.D. = 0.5 on 5 of 5 obs.		
5.567 S ± 12.8km 145.535 E ± 13.5km					PGZ	7.17 201 eP	09 19.70 -4.3X				
DEPTH = 126.1 ± 9.9 km					MNG	7.43 205 eP	09 22.70 -4.9X	% OCT 03, 1991 19h 22m 46.17±2.44s			
4.7mb (4 obs.)					WEL	8.27 206 e(P)	09 32.00 -7.4X	43.943 N ± 17.1km 7.463 E ± 12.5km			
EASTERN NEW GUINEA REG., P.N.G. (207)						S	11 06.00	DEPTH = 10.0km (geophysicist)			
MDG	0.40	38 iPc	35 42.10	-1.1	KHZ	9.71 208 eP	09 55.30 -3.9X	NEAR SOUTH COAST OF FRANCE (379)			
LAT	1.81	127 iPd	35 58.10	1.3	DZM	16.57 312 iPc	11 30.10 -0.3	ML 2.0 (GEN).			
MNDI	1.96	253 eP	36 00.00	1.2	COO	23.66 271 eP	12 55.00 6.8X				
					BRS	23.96 279 eP	12 55.00 4.0X	ENR	0.29 354 P	22 52.27	0.1

03d 19h

IMI	0.31	96	P	S	22 56.37		PCI	49.96	284	ePd	29 13.90	7.2X	MAW	80.01	202	e(P)	32 26.00	5.0X
			S		22 52.68	0.0	BAG	57.30	303	eP	29 58.00	-3.1X		1.1s		16.00nm		4.9mb
			S		22 57.09		CHJJ	59.47	333	P	30 16.50	0.8	LZH	80.34	312	P	32 26.50	3.0X
STV	0.32	342	P	S	22 52.88	0.1	IIDJ	59.48	332	P	30 15.40	-0.5		2.0s		74.00nm		5.3mb
			S		22 57.39		MAT	60.23	333	eP	30 21.00	0.0	Z	28s		3.29um		5.5MszX
ROB	0.46	40	P	S	22 55.45	-0.1		1.2s		23.44nm		5.2mb	N	15s		1.33um		
			S		23 02.11			Z	20s	2.13um		5.3Msz				pP	32 33.50	22kmX
PZZ	0.62	335	P	S	22 58.62	-0.1	MTMJ	60.45	332	P	30 22.00	-0.5	YAK	84.38	343	eP	32 44.70	1.1
			S		23 07.13		NIJJ	60.48	334	P	30 23.00	1.2	TTA	84.54	16	P	32 46.00	1.5
S.D. = 0.1 on 5 of 5 obs.						OZH	63.66	310	eP	30 44.00	-0.1	GTA	84.72	314	eP	32 48.00	2.0	
OCT 03, 1991 20h 20m 10.21± 0.18s							Z	20s	2.49um		5.4Msz	Z	22s		2.18um		5.5Msz	
17.029 S ± 4.8km 167.941 E ± 4.5km							N	16s	1.92um			N	15s		0.96um			
DEPTH = 10.0km (geophysicist)									eS	39 16.00					pP	32 57.00	28kmX	
5.0mb (25 obs.) 5.7Msz (15 obs.)						SSE	65.62	317	eP	31 04.00	7.2X				SKS	43 08.00		
VANUATU ISLANDS (186)							Z	20s	3.70um		5.6Msz	PMR	85.45	19	P	32 47.20	-1.7	
CENTROID, MOMENT TENSOR (HRV)							N	18s	1.50um			Z	20s		3.50um		5.7Msz	
Data Used: GDSN							E	16s	1.10um						eP	32 43.00	-6.9X	
L.P.B.: 24S, 55C									eS	39 40.00		ARN	85.51	49	P	32 49.10	-0.7	
Centroid Location:									PS	40 04.00		BCH	85.67	51	P	32 50.20	-0.6	
Origin Time: 20:20:15.7 0.6						IPM	69.46	282	ePd	31 24.20	2.9X	ORV	86.47	47	P	32 53.40	-1.1	
Lat 16.48S 0.06 Lon 168.43E 0.04						SMY	69.67	4	P	31 30.00	8.3X	CMB	86.62	49	P	32 55.40	0.0	
Dep 30.8 4.2 Half-duration 2.6							Z	20s	7.00um		5.9Msz		1.5s		46.19nm		5.5mb	
Moment Tensor: Scale 10**17 Nm						MDJ	70.60	332	eP	31 27.50	-0.1	LBFM	86.97	45	P	32 55.70	-1.5	
Mrr= 0.96 0.11 Mtt= 0.02 0.19							1.5s		60.00nm		5.5mb	SBB	87.17	53	eP	32 57.00	-1.1	
Mff=-0.98 0.19 Mrt= 0.78 0.31							Z	24s	3.02um		5.5MszX	RVR	87.25	53	eP	32 56.00	-2.4X	
Mrf= 0.36 0.31 Mtf=-3.49 0.12							N	16s	1.93um			PLM	87.40	54	eP	33 00.00	0.6	
Principal Axes:							E	14s	1.75um			CLC	87.78	52	eP	33 00.00	-1.0	
T Val= 3.11 Plg=10 Azm= 40						SNY	71.47	327	eP	31 42.00	51kmX	BONR	88.09	49	P	33 00.20	-2.6X	
N 1.02 77 262							Z	20s	4.20um		5.7Msz	GSC	88.18	52	eP	33 03.00	0.0	
P -4.13 9 131							N	14s	1.28um			FBA	88.34	17	P	33 03.80	0.8	
Best Double Couple:Mo=3.6*10**17							E	15s	0.60um				1.0s		10.00nm		5.1mb	
NP1:Strike=176 Dip=77 Slip= 1									S	40 50.00		SHW	88.86	41	P	33 05.90	-0.2	
NP2: 85 89 167									SS	45 28.00		GLA	88.88	55	eP	33 07.00	0.7	
PVC	0.79	153	iP	iS	20 25.00	-0.6				SS	45 28.00		LON	89.37	40	P	33 08.20	-0.2
			iS		20 38.00		TIA	71.48	319	eP	31 33.00	-0.1	RMW	89.68	40	P	33 07.30	-2.5X
DZM	5.21	195	iPc	iS	21 29.90	-0.2		Z	30s	2.52um		5.3MszX	GUN	91.07	299	P	33 00.00	-17.0X
			iS		22 31.70			E	18s	1.77um			PNT	91.79	39	eP	33 19.00	-0.4
HNR	10.84	313	eP		22 47.00	-1.5				SKS	41 26.00		DPW	92.07	40	P	33 21.00	0.2
BRS	17.40	231	eP		24 19.00	4.2X	CN2	71.94	329	eP	31 35.60	-0.1	MSU	92.79	51	P	33 25.00	0.4
			eS		27 12.00			1.0s		17.00nm		5.1mb	NEW	92.89	40	P	33 23.00	-1.5
COO	19.90	224	eP		24 47.70	2.7X		Z	25s	3.85um		5.6MszX		1.0s		10.00nm		5.2mb
RAB	20.05	308	e(P)		24 44.00	-2.5X		N	16s	0.60um			WMO	94.79	314	Pc	33 35.00	1.6X
CTAO	20.78	258	iPd		24 55.00	0.9		E	16s	1.62um				1.5s		32.00nm		5.5mb
	1.0s		30.00nm			4.6mb	SPA	73.08	180	iPc	31 45.20	2.8	Z	25s		2.97um		5.7MszX
			i		24 59.50			1.5s		38.64nm		5.3mb				SKS	44 08.00	
PMG	21.59	288	eP		25 08.00	5.6X				e	35 50.00					S	44 42.00	
QLP	23.94	243	eP		25 27.00	1.6	GYA	73.55	305	P	31 48.00	2.3X				sS	44 58.00	
BWA	24.61	222	eP		25 31.30	-0.6	BJI	74.45	321	eP	31 50.00	-0.5				SS	51 16.00	
			i		25 39.10			2.0s		38.00nm		5.1mb	ALO	96.07	55	eP	33 39.00	-0.7
CNB	24.61	219	eP		25 33.00	1.0		Z	26s	5.99um		5.8MszX		1.0s		2.25nm		4.6mb
CMS	24.70	230	eP		25 34.00	1.2		N	20s	2.46um			Z	20s		2.13um		5.6Msz
			e		29 42.00			E	20s	2.80um			ANMO	96.07	55	P	33 39.00	-0.7
CAN	24.84	219	eP		25 35.50	1.4				eS	41 28.00			0.8s		3.36nm		4.9mb
			e		25 43.90					eSKS	41 56.00		Z	22s		2.22um		5.6Msz
			i		25 54.10		TIY	75.38	318	eP	31 56.00	0.0	GOL	98.19	51	P	33 55.00	5.8X
QIS	27.04	258	eP		25 55.00	0.3		Z	23s	3.49um		5.6MszX	Z	20s		4.00um		5.9Msz
STK	28.08	233	iPc		26 04.80	0.8		N	15s	1.01um			GLD	98.32	51	P	33 55.00	5.3X
	0.7s		13.20nm			4.8mb		E	19s	2.94um			Z	20s		4.00um		5.9Msz
			i		26 11.20					S	41 28.00		RSSD	100.26	47	Pdiff	34 05.00	6.5X
BFD	30.07	223	e(P)		26 20.50	-1.4	XAN	75.71	313	eP	31 58.00	0.1	Z	20s		3.39um		5.9Msz
			e		30 28.00			N	18s	1.39um			OBN	126.97	327	ePKP	39 14.00	-1.8
ADE	31.60	230	e(P)		26 34.30	-1.2		E	20s	1.82um			KAF	127.56	338	ePKP	39 12.90	-3.8X
WR2	31.95	260	iPd		26 37.40	-1.2	KMI	76.06	302	Pd	32 03.00	2.7X		0.9s		7.40nm		
	0.7s		7.00nm			4.7mb		2.0s		60.00nm		5.3mb	NUR	129.23	338	ePKP	39 15.70	-4.2X
ASPA	32.54	253	iPc		26 42.70	-1.1		Z	32s	3.70um		5.5MszX		0.9s		23.40nm		
	1.0s		80.00nm			5.6mb				sP	32 12.50		NB2	133.00	345	PKP	39 26.50	-0.7
KNA	37.56	266	eP		27 25.00	-1.7	CHG	76.61	295	eP	32 06.10	2.8X		0.7s		1.20nm		
GUMO	38.01	322	eP		27 36.00	5.6X				e	36 15.00		SPC	138.61	328	ePKP	39 43.90	5.5X
WARB	39.32	249	iPd		27 41.60	0.1				e	55 24.40					e	43 45.40	
	0.5s		8.00nm			4.6mb				eP	32 03.70	0.5	KSP	139.37	332	ePKP	39 35.50	-3.9X
PMO	42.43	94	iP		28 07.20	0.1	CHTO	76.61	295	eP	32 03.70	0.5				e	39 42.00	
	1.2s		25.00nm			4.8mb		0.9s		2.98nm		4.4mb				e	43 48.80	
VAH	42.65	94	iP		28 09.00	0.2	SDN	76.89	18	P	32 05.00	1.0	BRG	140.35	334	e(PKP)	39 43.80	2.6X
	1.2s		25.00nm			4.8mb		Z	20s	10.00um		6.1Msz	CLL	140.40	335	ePKP	39 36.00	-5.2X
TPT	42.70	94	iP		28 09.40	0.1	HHC	77.75	320	eP	32 10.00	0.8	PRU	140.76	333	ePKP	39 42.00	0.1
	1.2s		30.00nm			4.9mb		Z	30s	4.67um		5.6MszX	ZST	140.83	329	ePKP	39 45.00	2.9X
RUV	42.89	94	iP		28 10.40	-0.4		E	11s	0.81um			SOB1	141.37	130	(PKP)	39 38.00	-6.1X
	1.2s		35.00															

03d 20b

VOY	143.91	329	e(PKP)	39	44.70	-3.0X	LFF	150.17	342	ePKP	40	00.50	2.8X	GTA	84.53	314	P	36	52.60	0.4
FVI	144.05	330	PKP	39	47.70	0.0		1.0s	16.00nm						1.2s	9.00nm			4.9mb	
WTTA	144.07	332	iPKPc	39	43.40	-4.7X	LPO	150.26	341	ePKP	40	00.30	2.4X	GCC	84.94	49	iPc	36	57.64	3.6X
	1.4s	41.30nm						1.0s	20.00nm					PRS	85.10	50	eP	36	58.58	3.6X
TRI	144.20	329	ePKP	39	45.30	-3.3X	KIC	167.21	215	PKP	40	20.70	2.5X	LLA	85.53	50	eP	37	00.69	3.6X
		e		43	54.90			S.D. = 1.0	on 106 of 173 obs.				PRI	85.54	50	eP	36	59.55	2.3	
GWf	144.34	338	PKP	39	43.64	-4.6X		OCT 03, 1991	20h 24m 17.38±0.28s				WDC	86.08	46	iPc	37	00.05	0.3	
DOU	144.39	342	PKP	39	51.60	3.4X		16.817 S ± 6.5km	167.887 E ± 7.4km				ORV	86.36	47	eP	37	04.66	3.5X	
		e		40	32.10			DEPTH = 10.0km	(geophysicist)				CMB	86.52	49	eP	37	01.67	-0.4	
CDf	144.94	337	PKP	39	44.47	-4.9X		4.9mb (11 obs.)	5.5MsZ (2 obs.)				FRI	86.59	50	eP	37	01.94	-0.3	
CTI	144.98	331	PKP	39	48.90	-0.6		VANUATU ISLANDS	(186)				SBB	87.09	53	eP	37	04.00	-0.9	
FEL	145.10	336	PKP	39	45.92	-3.8X		Ms 5.9 (BRK).				RVR	87.16	53	eP	37	04.00	-1.2		
ECH	145.14	337	PKP	39	45.80	-3.8X						PLM	87.32	54	eP	37	07.00	0.8		
MOF	145.46	337	PKP	39	46.00	-4.3X	PVC	1.00	156	iP	24	35.50	-0.9	CLC	87.69	52	eP	37	08.00	0.3
VITf	145.56	339	PKP	39	46.11	-4.2X			iS	24	49.00		GSC	88.09	52	eP	37	08.00	-1.7	
BSF	145.60	337	PKP	39	46.52	-4.0X	DZM	5.40	194	iPd	25	38.00	-2.0	GLA	88.80	55	eP	37	18.00	4.9X
HAU	145.62	338	ePKP	39	47.80	-2.7X			iS	26	40.50		NVL	91.08	188	eP	37	25.00	2.0	
	1.0s	52.00nm					BRS	17.50	230	eP	28	27.00	3.8X		e		38	00.00		
SAL	145.83	331	PKP	39	52.60	1.8	COO	20.02	224	eP	28	56.00	2.7X	PNT	91.66	39	eP	37	30.00	4.0X
LOMF	145.99	337	PKP	39	46.49	-4.7X	CTAO	20.77	258	iPc+	29	02.00	0.8		0.9s	19.00nm			5.5mb	
ARV	146.16	326	PKP	39	52.40	0.9		2.0s	178.57nm			5.1mb	WMO	94.61	314	P	37	38.50	-1.3	
SFI	146.43	328	PKP	39	51.30	-0.5			i	29	00.00		OBN	126.76	327	ePKP	43	23.00	0.4	
ROI	146.48	318	PKP	39	55.60	3.4X			i	29	16.00			e		44	32.00			
PGD	146.53	328	PKP	39	54.00	1.7			eS	35	27.00		APO	132.48	343	ePKP	43	32.20	-1.1	
TDS	146.58	318	PKP	39	58.20	5.9X	PMG	21.48	287	eP	29	11.00	2.6X		0.4s	0.60nm				
CRE	146.59	328	PKP	39	52.40	0.1	QLP	23.99	242	eP	29	35.00	1.9	HFS	132.88	343	ePd	40	28.70	-1.4
ASS	146.60	326																		

LMR	149.19	333	ePKP	44	06.00	2.5X	MTMJ	60.39	332	P	53	40.60	-1.5				LR	23	10.00				
	0.9s		18.00nm				IPM	69.63	282	ePc	54	41.50	-0.8				NB2	132.88	345	PKP	02	46.40	-0.5
CDR	149.23	334	ePKP	44	11.30	7.8X	WHN	69.99	312	eP	54	44.00	-0.1					0.8s	3.10nm				
RJF	149.38	341	ePKP	44	07.50	3.8X	MDJ	70.54	332	eP	54	46.50	-0.7				SPC	138.57	328	e(PKP)	02	57.60	-0.6
	0.6s		6.30nm					1.0s	41.00nm			5.5mb					KSP	139.30	333	ePKP	02	59.00	-0.3
CAF	149.55	340	ePKP	44	07.10	3.1X	SNG	70.90	284	eP	54	50.30	0.3					e	05	50.00			
	1.0s		9.00nm				CN2	71.89	329	P	54	54.30	-1.1				BRG	140.28	334	ePKP	03	00.60	-0.4
LFF	149.95	342	ePKP	44	08.00	3.5X		1.0s	12.00nm			4.9mb						1.5s	23.00nm				
	0.8s		10.75nm				Z	18s	2.68um			5.6Msz					CLL	140.33	336	ePKP	03	01.00	-0.1
LPO	150.05	341	ePKP	44	08.30	3.6X	N	14s	0.36um								PRU	140.69	333	ePKP	03	07.70	5.9X
	0.6s		7.20nm				E	14s	0.62um								Z	24s	1.80um			5.7MszX	
S.D. = 1.2 on 67 of 102 obs.							SPA	73.25	180	eP	55	02.00	-1.4					e	06	41.50			
OCT 03, 1991 20h 43m 31.16±0.18s								1.0s	12.00nm			4.9mb					ZST	140.79	329	ePKP	03	00.60	-1.4
16.852 S ± 5.0km 168.156 E ± 4.1km							Z	20s	3.15um			5.6Msz						e	33	30.30			
DEPTH = 15.8km (8 depth phases)							GYA	73.62	305	P	55	06.60	0.5				SOB1	141.32	130	ePKP	02	58.10	-5.9X
5.2mb (32 obs.) 5.6Msz (6 obs.)							BJI	74.44	321	eP	55	11.50	1.1				KHC	141.75	333	ePKP	03	00.50	-3.3X
VANUATU ISLANDS (186)							TIY	75.39	317	eP	55	18.50	2.5					e	03	06.50			
							XAN	75.75	313	P	55	17.50	-0.6					e	05	09.60			
									sP	55	28.00						SKO	142.08	318	ePKP	03	04.50	0.0
PVC	0.90	170	iP	43	46.00	-1.8	KMI	76.14	302	eP	55	21.50	0.7					e	06	42.50			
			iS	44	00.00			1.0s	40.00nm			5.4mb					GRF	142.30	335	ePKP	03	01.00	-3.7X
DZM	5.44	197	iPc	44	51.70	-1.9	CHTO	76.73	295	eP	55	22.10	-1.8				PTJ	142.92	327	ePKP	03	02.20	-3.7X
			iS	45	51.90			1.2s	6.94nm			4.6mb					OHR	142.94	317	ePKP	03	02.00	-4.1X
NDF	8.92	97	eP	45	43.20	0.8	HHC	77.75	320	eP	55	28.50	-0.7				BHG	143.11	332	ePKP	03	03.30	-2.8X
HNR	10.87	312	eP	46	08.00	-1.2	E	15s	0.72um								LJU	143.54	329	ePKP	03	03.80	-3.1X
BRS	17.68	231	eP	47	40.00	1.6	CD2	77.97	308	eP	55	30.90	0.3				VBY	143.55	327	ePKP	03	04.00	-2.9X
			i(pP)	47	47.00		BTO	78.57	319	eP	55	34.40	0.7				CEY	143.81	328	ePKP	03	04.60	-2.8X
AFI	19.57	84	eP	48	00.00	-1.5	MAW	80.25	202	eP	55	42.00	-0.2				VOY	143.87	329	iPKPd	03	04.70	-2.9X
COO	20.17	224	eP	48	10.00	2.1	LZH	80.37	312	iPd	55	45.00	1.3				FVI	143.99	331	PKP	03	05.60	-2.0
	0.9s		84.00nm					1.5s	48.00nm			5.3mb					WTTA	144.01	332	iPKPc	03	04.00	-3.9X
CTAO	21.02	258	iPc	48	17.50	0.9			pP	55	49.50	14km						1.4s	57.60nm				
	1.0s		50.00nm						sP	55	53.00							i	03	06.10			
			i	48	22.00	17km												i	03	34.40			
PMG	21.74	287	eP	48	24.00	0.1	RSO	83.22	18	P	55	57.00	-1.0				GWf	144.25	338	PKP	03	05.34	-2.7X
LAT	23.03	294	eP	48	38.20	1.4	YAK	84.28	343	iP	56	02.50	-0.5				DOU	144.29	342	PKP	03	07.70	-0.3
QLP	24.20	242	eP	48	49.70	1.6	GTA	84.74	314	eP	56	06.00	-0.1				OGA	144.59	333	ePKP	03	07.10	-1.8
			i	48	53.60	14km		0.8s	10.00nm			5.1mb						1.4s	95.00nm				
BWA	24.88	222	eP	48	54.00	-0.6	Z	22s	1.21um			5.2Msz					CDF	144.85	338	PKP	03	07.28	-1.9
			i	48	58.60	16km	E	12s	0.42um								CTI	144.93	331	PKP	03	07.50	-1.9
			i	49	10.90				pP	56	11.40	17km					SLE	144.93	336	ePKPd	03	08.30	-0.9
CNB	24.88	219	eP	48	55.00	0.4			sP	56	15.00						FEL	145.02	336	PKP	03	07.77	-1.7
CMS	24.97	230	iPd	48	56.70	1.2	SYP	85.21	52	eP	56	09.00	0.5				ECH	145.06	338	PKP	03	07.77	-1.7
CAN	25.10	219	eP	48	58.10	1.4	PMR	85.21	19	e(P)	56	09.00	1.3				OSS	145.11	333	ePKPd	03	09.30	-0.5
			i	49	03.20	18km		1.7s	141.90nm			5.9mb					ZLA	145.20	336	ePKPd	03	09.00	-0.7
			i	49	20.20		Z	20s	2.50um			5.6Msz					MOF	145.37	337	PKP	03	08.91	-1.1
STK	28.35	233	iPc	49	27.60	1.1	ORV	86.20	47	P	56	12.40	-0.8				LLS	145.45	335	ePKPd	03	10.30	-0.1
	0.9s		17.30nm				CMB	86.35	49	P	56	12.80	-1.2				VITF	145.48	339	PKP	03	09.33	-0.8
TOO	28.71	220	eP	49	31.00	1.2		1.0s	25.00nm			5.4mb					BSF	145.52	338	PKP	03	09.29	-1.0
BFD	30.34	223	e(P)	49	42.00	-2.3	MWC	86.55	53	eP	56	15.00	-0.2				HAU	145.53	338	ePKP	03	09.70	-0.5
			e	53	34.00		SBB	86.90	53	eP	56	17.00	0.2					1.2s	130.90nm				
ADE	31.87	230	iPd	49	58.50	0.6	RVR	86.98	53	eP	56	17.00	-0.1				VDL	145.56	334	ePKPd	03	11.00	0.4
WR2	32.18	259	iPd	49	59.60	-1.1	BAR	87.03	55	eP	56	18.00	0.6				SAL	145.77	332	PKP	03	11.30	0.7
	1.0s		11.00nm				BALM	87.07	22	P	56	18.30	1.2				LOMF	145.91	337	PKP	03	09.59	-1.4
ASPA	32.78	252	iPd	50	04.30	-1.7	PEC	87.11	53	P	56	17.00	-0.7				TMA	146.11	334	ePKPd	03	12.00	0.5
	1.3s		80.80nm				PLM	87.13	54	eP	56	18.00	-0.1				ARV	146.13	327	PKP	03	11.60	0.2
KNA	37.78	266	eP	50	46.70	-1.9	LSA	87.40	302	eP	56	19.00	-0.8				SFI	146.39	328	PKP	03	13.40	1.7
WARB	39.58	249	eP	51	03.00	-0.6	IMA	87.47	15	eP	56	21.70	2.7				PGD	146.49	328	PKP	03	13.70	1.6
	0.5s		8.00nm					1.2s	21.80nm			5.3mb					ROI	146.49	318	PKP	03	10.50	-1.6
AFR	40.13	97	iP	51	08.40	0.2	CLC	87.51	52	eP	56	20.00	0.3				MMK	146.53	335	ePKPd	03	14.00	1.8
	1.3s		60.00nm				GSC	87.91	52														

03d 21h

1.4s 65.35nm
 AVF 147.60 340 ePKP 03 15.30 1.7
 1.2s 32.75nm
 SOI 147.66 316 PKP 03 16.60 2.7X
 LPF 147.66 346 ePKP 03 15.80 2.2X
 1.0s 56.00nm
 MAO 147.82 327 PKP 03 15.80 1.7
 BNI 147.87 335 PKP 03 15.80 1.5
 BGF 147.97 341 ePKP 03 16.50 2.3X
 0.8s 22.85nm
 PLDF 148.23 339 PKP 03 18.40 3.7X
 MAF 148.35 341 ePKP 03 17.80 3.0X
 1.0s 24.00nm
 TCF 148.40 341 ePKP 03 17.90 3.0X
 1.2s 49.10nm
 SSB 148.50 338 PKP 03 19.03 3.9X
 SBF 148.51 333 ePKP 03 17.80 2.6X
 1.0s 44.00nm
 PYM 148.63 340 PKP 03 19.29 3.9X
 LSF 148.64 342 ePKP 03 12.00 -3.3X
 1.0s 35.00nm
 MFF 148.79 344 ePKP 03 18.60 3.1X
 0.9s 32.75nm
 PGF 148.81 329 ePKP 03 18.90 3.1X
 1.2s 101.15nm
 LBL 149.00 339 PKP 03 20.70 4.7X
 FRF 149.10 333 ePKP 03 19.60 3.5X
 1.2s 53.55nm
 LRG 149.31 334 ePKP 03 20.60 4.2X
 1.2s 59.50nm
 LMR 149.34 333 ePKP 03 20.20 3.8X
 1.2s 59.50nm
 CDR 149.37 334 ePKPd 03 20.80 4.3X
 RJF 149.50 341 ePKP 03 20.90 4.3X
 1.2s 41.65nm
 CAF 149.67 340 ePKP 03 21.30 4.4X
 1.2s 23.80nm
 LFF 150.07 342 ePKP 03 22.10 4.6X
 1.0s 28.00nm
 LPO 150.16 341 ePKP 03 22.70 5.1X
 1.0s 24.00nm
 EPF 151.92 341 ePKP 03 26.40 6.0X
 1.2s 20.85nm
 KIC 167.47 215 PKP 03 39.40 1.1
 S.D. = 1.2 on 137 of 180 obs.

? OCT 03, 1991 23h 19m 36.08±3.62s
 7.115 S ±31.4km 129.024 E ±33.5km
 DEPTH = 136.9 ±35.1 km
 4.4mb (3 obs.)

BANDA SEA (280)

MTN 6.06 160 eP 21 05.60 1.0
 0.2s 197.00nm 6.0mb X
 KNA 8.59 182 eP 21 39.20 0.5
 0.3s 27.00nm 5.5mb X
 WR2 13.77 158 iPd 22 44.90 -1.9
 0.2s 15.30nm 5.0mb X
 0.2s 22 51.40
 0.2s 25 07.50
 QIS 16.84 144 eP 23 25.00 -0.2
 0.2s 26 19.00
 ASPA 17.11 165 iPd 23 27.80 -0.7
 0.6s 13.60nm 4.4mb
 0.6s 26 31.20
 BWA 32.54 149 eP 26 03.60 7.5X
 CAN 33.54 150 eP 26 07.00 2.3
 CNB 33.72 149 iPd 26 05.60 -0.7
 0.8s 36.00nm 5.2mb
 CHTO 39.29 311 eP 26 54.00 0.7
 0.6s 0.56nm 3.5mb
 GUN 54.30 312 P 28 50.20 -0.8
 PKI 54.47 311 P 28 52.00 -0.2
 KKN 54.68 311 P 28 53.60 0.0
 GKN 55.28 311 P 28 57.80 0.0
 S.D. = 1.2 on 12 of 13 obs.

OCT 03, 1991 23h 57m 24.19±0.57s
 34.005 N ±9.2km 26.050 E ±6.1km
 DEPTH = 33.0km (normal)
 4.5mb (11 obs.)

CRETE (370)
 MD 4.0 (ATH).

NPS 1.31 344 ePn 57 49.00 2.8

1.4s 65.35nm
 VLI 3.71 318 ePn 58 11.30
 CIN 3.95 24 eP 58 21.10 0.5
 BCK 5.05 46 iPn 58 24.00 0.0
 HLW 6.11 131 eP 58 41.00 1.3
 0.2s 58 54.70 0.2
 0.2s 00 00.50
 LFK 6.30 76 ePn 58 59.10 1.9
 ZNT 7.74 101 eP 59 15.40 -2.0
 HRI 8.11 92 eP 59 20.40 -2.3
 SAGI 8.22 115 eP 59 23.00 -1.1
 0.2s 00 49.20
 OHR 8.23 331 eP 59 23.00 -1.2
 MBH 8.61 117 eP 59 28.50 -1.1
 SOI 9.05 299 P 59 35.10 -0.5
 ROI 9.41 309 P 59 39.90 -0.7
 CZI 9.52 306 P 59 41.40 -0.5
 ATN 9.52 299 P 59 42.00 0.0
 0.2s 01 18.00
 MEU 9.57 292 P 59 42.70 -0.1
 0.2s 01 25.00
 MGR 10.38 309 P 59 52.60 -1.2
 0.2s 01 40.00
 SGO 10.77 311 P 59 57.60 -1.5
 WTTA 17.14 325 e(P) 01 23.00 0.2
 1.0s 8.90nm 3.8mb
 0.2s 01 26.60
 KHC 17.72 332 eP 01 40.60 10.7X
 PRU 18.08 335 eP 01 35.20 0.9
 GRF 19.12 330 eP 01 46.40 -0.6
 CLL 19.72 335 iP 01 58.20 4.4X
 MEM 22.14 325 iPd 02 20.59 2.3
 DOU 22.51 322 P 02 24.00 1.9
 0.7s 13.30nm 4.5mb
 NUR 26.53 358 eP 02 58.80 -1.6
 HFS 27.37 347 eP 03 06.50 -1.5
 0.4s 1.50nm 4.0mb
 KAF 28.13 0 eP 03 13.20 -1.6
 0.6s 5.70nm 4.4mb
 NB2 28.70 345 P 03 17.50 -2.6
 0.7s 1.60nm 3.8mb
 KIC 39.60 233 P 04 56.50 2.2
 GKN 50.00 80 P 06 18.60 1.0
 0.8s 15.00nm 5.1mb
 DMN 50.53 80 P 06 23.00 1.2
 KKN 50.60 80 P 06 22.80 0.5
 0.6s 12.00nm 5.1mb
 GBA 50.64 101 Pc 06 23.30 0.9
 0.7s 2.20nm 4.3mb
 PKI 50.79 80 P 06 24.40 0.5
 1.0s 20.00nm 5.0mb
 GUN 51.05 80 P 06 26.60 0.8
 0.8s 15.00nm 5.0mb
 YKA 78.77 343 eP 09 25.60 0.9
 0.6s 2.20nm 4.3mb
 S.D. = 1.4 on 35 of 37 obs.

? OCT 04, 1991 02h 03m 38.46±1.40s
 6.108 S ±16.8km 130.028 E ±45.8km
 DEPTH = 205.4 ±33.0 km
 4.7mb (2 obs.)

BANDA SEA (280)

AAI 3.02 323 eP 04 29.00 0.0
 MTN 6.78 171 eP 05 17.40 0.8
 0.3s 125.00nm 5.7mb X
 0.3s 06 19.00
 KNA 9.66 187 eP 05 54.00 -0.2
 0.3s 14.00nm 4.8mb X
 0.3s 07 37.00
 WR2 14.39 163 eP 06 53.00 -1.2
 0.3s 17.80nm 5.0mb X
 0.3s 06 57.10
 0.3s 09 29.10
 QIS 17.11 148 iPd 07 27.30 0.2
 0.4s 14.00nm 4.7mb
 0.4s 10 31.00
 0.4s 14 29.00
 0.4s 17 11.00
 ASPA 17.85 168 iPd 07 35.50 0.5
 0.5s 12.60nm 4.6mb
 S.D. = 1.1 on 6 of 6 obs.

? OCT 04, 1991 04h 02m 45.73±9.55s
 3.685 N ±19.6km 74.847 W ±80.0km
 DEPTH = 10.0km (geophysicist)
 COLOMBIA (103)
 MD 3.5 (UVC).

DIAC 1.40 254 ePc 03 10.44 -1.1
 0.2s 03 31.20
 BUGC 1.42 278 eP 03 11.66 -0.1
 0.2s 03 33.40
 HOBC 1.45 297 eP 03 11.95 -0.1
 ANCC 2.02 265 eP 03 21.35 1.0
 PURC 2.03 228 eP 03 21.05 0.2
 0.2s 03 49.90

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

OCT 04, 1991 04h 30m 46.10±1.22s
 43.388 N ±7.7km 5.422 E ±8.4km
 DEPTH = 10.0km (geophysicist)
 NEAR SOUTH COAST OF FRANCE (379)
 ML 2.9 (STR).

GELF 0.01 136 Pg 30 46.97 -1.0
 BERF 0.21 111 Pg 30 50.35 -0.4
 TREF 0.24 353 Pg 30 50.50 -0.7
 PUYF 0.25 54 Pg 30 50.27 -1.1
 CDR 0.38 41 ePg 30 52.70 -1.2
 0.2s 30 53.10
 0.2s 30 58.90
 PRAF 0.45 336 Pg 30 55.30 -0.1
 VILF 0.51 25 Pg 30 55.90 -0.6
 TAVF 0.52 63 Pg 30 55.46 -1.1
 DOI 1.73 49 P 31 18.20 1.8
 0.2s 31 41.80
 BNI 1.89 28 Pc 31 22.20 3.3X
 0.2s 31 47.40
 SSB 1.99 342 Pn 31 19.66 -0.6
 CKI 2.31 62 P 31 25.80 1.0
 0.2s 31 57.50

S.D. = 1.1 on 11 of 12 obs.

* OCT 04, 1991 04h 55m 47.30±1.24s
 38.563 N ±7.0km 24.230 E ±17.7km
 DEPTH = 21.9 ±7.6 km
 AEGEAN SEA (365)
 MD 3.1 (ATH).

ATH 0.71 215 ePb 56 01.00 0.0
 0.2s 56 12.00
 PAIG 1.43 343 eP 56 11.70 -0.3
 AGG 1.55 288 eP 56 13.50 -0.4
 LIT 2.04 319 eP 56 25.50 4.5X
 VLI 2.11 210 ePn 56 22.00 0.1
 SRS 2.60 349 eP 56 29.90 1.0
 MMB 3.05 353 eP 56 35.00 -0.2
 KDZ 3.21 16 eP 56 37.00 -0.6
 KKB 3.41 345 eP 56 40.00 -0.4
 VTS 4.10 349 eP 56 51.00 0.7
 S.D. = 0.7 on 9 of 10 obs.

? OCT 04, 1991 05h 20m 59.77±2.49s
 7.007 S ±17.8km 129.346 E ±28.2km
 DEPTH = 107.7 ±24.0 km
 4.8mb (10 obs.)

BANDA SEA (280)

MTN 6.06 163 eP 22 28.00 -0.5
 KNA 8.71 184 eP 23 04.40 -0.2
 0.3s 30.00nm 5.6mb
 0.3s 24 35.00
 QIS 16.74 145 iPd 24 40.40 -8.8X
 0.3s 27 41.50
 ASPA 17.13 166 iPd 24 55.00 1.0
 0.4s 17.80nm 4.7mb
 0.4s 27 55.10
 0.4s 28 17.80
 WARB 19.24 187 eP 25 18.00 -0.4
 0.4s 2.00nm 3.8mb
 0.4s 28 45.00
 STK 27.26 157 iPd 26 35.90 0.1
 0.6s 2.00nm 3.9mb
 BDT 38.47 309 eP 28 14.00 0.9
 CHG 39.46 311 eP 28 22.40 1.1
 0.9s 9.66nm 4.6mb
 CHTO 39.46 311 iPd 28 21.90 0.6
 0.9s 8.31nm 4.6mb
 GUN 54.47 312 P 30 18.50 -0.5
 0.6s 50.00nm 5.7mb
 PKI 54.64 311 P 30 19.30 -0.9
 0.6s 20.00nm 5.3mb
 KKN 54.85 311 P 30 21.10 -0.5
 0.5s 23.00nm 5.4mb
 DMN 54.89 311 P 30 21.34 -0.6

GKN 55.45 311 P 30 25.22 -0.6
GBA 55.45 292 Pd 30 26.10 0.3
0.6s 1.40nm 4.1mb
S.D. = 0.8 on 14 of 15 obs.

% OCT 04, 1991 06h 49m 08.56±0.94s
60.697 N ± 7.3km 5.481 E ± 11.8km
DEPTH = 10.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 1.6 (BER).

ASK 0.26 213 iP 49 14.20 0.2
eS 49 18.58
EGD 0.45 197 eP 49 17.40 -0.2
SUE 0.50 316 iP 49 18.52 -0.2
eS 49 26.62
HYA 0.58 36 iP 49 19.12 -1.2
iS 49 26.90
MOL 2.12 27 eP 49 46.01 1.5
Lg 50 14.52
S.D. = 1.4 on 5 of 5 obs.

? OCT 04, 1991 07h 10m 29.29±11.57s
40.708 N ± 17.2km 30.077 E ± 81.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

HRT 0.33 290 ePg 10 37.00 0.8
YLV 0.55 255 iP 10 39.70 -0.9
iSg 10 45.90
IZI 0.59 231 iP 10 41.90 0.6
ISK 0.85 295 ePg 10 45.00 -0.7
CTT 1.32 290 ePn 10 54.00 0.3
MFT 2.13 273 ePg 11 54.00 48.6X
S.D. = 1.1 on 5 of 6 obs.

? OCT 04, 1991 07h 46m 51.86±5.09s
17.914 N ± 22.1km 65.764 W ± 29.1km
DEPTH = 10.0km (geophysicist)
PUERTO RICO REGION (90)

LPR 0.41 346 iP 47 00.20 0.0
S 47 07.20
SJG 0.42 298 iP 47 00.60 0.2
CLLP 0.79 282 iP 47 07.00 -0.2
APR 1.06 300 iP 47 11.90 0.0
LRS 1.10 290 iP 47 12.00 -0.5
MEP 1.18 281 iP 47 13.90 0.0
MGP 1.26 274 iP 47 15.70 0.4
MCP 1.38 292 iP 47 17.10 0.0
S.D. = 0.3 on 8 of 8 obs.

& OCT 04, 1991 07h 55m 54.71s
59.863 N 151.762 W
DEPTH = 61.7km
KENAI PENINSULA, ALASKA (14)
<AEIC>. ML 2.6 (AEIC).

HOM 0.21 164 ePc 56 04.29 -0.2
eS 56 12.40
NNL 0.30 52 ePc 56 05.72 0.7
XLV 0.41 177 ePc 56 05.04 -1.0
eS 56 13.79
CNPM 0.43 142 iPc 56 05.79 -0.5
eS 56 14.65
BRLK 0.45 102 iPc 56 06.18 -0.3
eS 56 15.27
INE 0.68 287 iPc 56 08.00 -1.1
eS 56 18.87
INW 0.72 287 ePc 56 08.49 -1.0
eS 56 19.66
RED 0.75 318 iPd 56 09.27 -0.6
iS 56 20.93
OPT 0.77 255 iPc 56 09.18 -0.9
eS 56 20.68
RS1 0.78 321 iPd 56 09.82 -0.5
eS 56 22.09
RSO 0.78 321 iPd 56 09.80 -0.5
eS 56 21.75
RS2 0.78 321 iPd 56 09.83 -0.5
eS 56 21.80
RDT 0.78 336 iPd 56 09.61 -0.6
iS 56 21.47
REF 0.78 324 iPd 56 09.80 -0.6
eS 56 21.71
RDW 0.81 320 iPd 56 10.11 -0.6
eS 56 22.65

RDN 0.82 323 iPd 56 10.14 -0.7
iS 56 22.44
DFR 0.86 328 ePd 56 10.53 -0.8
eS 56 23.26

NCT 0.91 321 iPd 56 11.35 -0.6
eS 56 24.64
NKA 0.92 16 ePd 56 13.47 1.6
AUE 0.96 239 ePd 56 11.76 -0.7
AUL 0.98 241 iPc 56 12.09 -0.6
AUP 0.98 240 ePc 56 12.14 -0.7
eS 56 25.85

AGU 0.99 240 ePd 56 12.34 -0.6
eS 56 26.21
AUH 0.99 240 ePd 56 12.40 -0.5
AUI 1.00 239 eP 56 12.01 -0.9
iS 56 25.88
AUW 1.00 241 ePc 56 12.27 -0.7
SLKM 1.01 49 eP 56 12.74 -0.3
eS 56 27.70
SEW 1.19 77 eP 56 14.78 -0.7
SYI 1.30 195 ePc 56 16.08 -0.9
CDD 1.34 227 ePd 56 16.80 -0.8
eS 56 33.49

CKL 1.37 348 iPd 56 17.77 -0.3
eS 56 33.73
CRP 1.42 352 iPd 56 18.84 0.0
BGL 1.44 348 ePd 56 18.90 -0.1
CGLM 1.45 355 iPd 56 19.14 -0.1
MCNL 1.48 244 ePd 56 18.01 -1.5
eS 56 36.36

NCG 1.56 353 iPd 56 20.72 0.0
SUA 1.68 17 ePd 56 22.77 0.4
PMS 1.76 37 iPd 56 23.92 0.5
LTI 1.97 83 eP 56 24.72 -1.6
KNIM 2.07 75 iPd 56 25.83 -1.9
SKT 2.13 3 iPd 56 28.63 0.1
PLRM 2.16 36 ePd 56 28.34 -0.6
KNK 2.25 45 ePd 56 29.58 -0.7
GLI 2.53 64 eP 56 31.95 -2.2
SML 2.57 39 eP 56 34.00 -0.8
CUT 2.65 15 eP 56 35.79 0.0
FID 2.78 69 iPd 56 34.82 -2.8
VZW 2.85 63 eP 56 36.61 -2.1
SCM 2.94 46 eP 56 39.52 -0.5
VLZ 2.97 62 ePd 56 38.53 -1.9
CVA 3.08 75 eP 56 40.49 -1.4
KLU 3.31 58 iPc 56 43.54 -1.7
52 obs. associated

* OCT 04, 1991 08h 31m 15.34±1.23s
34.279 N ± 9.7km 139.343 E ± 10.4km
DEPTH = 31.9 ± 7.1 km
4.3mb (1 obs.)
NEAR S. COAST OF HONSHU, JAPAN (230)

IIDJ 1.68 316 P 31 43.00 0.1
S 32 03.70
CHJJ 1.79 351 P 31 43.50 -1.0
S 32 04.60
KAKJ 2.04 19 P 31 48.00 -0.1
S 32 11.20
MAT 2.44 338 iPd 31 54.00 0.2
eS 32 25.00
MTMJ 2.62 332 P 31 57.50 1.0
S 32 32.80
NIIJ 2.97 355 P 32 01.50 0.2
S 32 37.40
TSRJ 3.03 295 P 32 01.70 -0.5
WKYJ 3.11 270 P 32 03.30 0.0
S 32 38.10
WR2 54.13 186 eP 40 39.70 0.1
0.4s 1.20nm 4.3mb
LPB 149.71 61 ePKP 51 12.00 12.5X
CNCB 149.97 61 PKP 51 09.00 8.9X
S.D. = 0.7 on 9 of 11 obs.

% OCT 04, 1991 08h 52m 59.40±1.21s
3.377 N ± 9.1km 76.771 W ± 14.2km
DEPTH = 33.0km (normol)
COLOMBIA (103)
MD 3.3 (UVC).

HOOC 0.16 57 iPc 53 07.60 1.6
eS 53 16.10
ANCC 0.17 325 iPc 53 06.37 0.6
eS 53 13.90
CLMC 0.54 22 ePc 53 09.92 -0.8

DIAC 0.58 98 iPd 53 11.78 0.5
eS 53 23.50
BUGC 0.72 45 eP 53 13.34 0.0
PURC 1.12 159 eP 53 18.49 -0.9
HOBC 1.16 33 eP 53 18.42 -1.1
eS 53 35.00
S.D. = 1.2 on 7 of 7 obs.

? OCT 04, 1991 09h 15m 49.75±0.93s
44.325 N ± 15.6km 7.779 E ± 6.3km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.9 (GEN).

ROB 0.07 115 P 15 51.50 -0.7
S 15 53.35
ENR 0.28 249 P 15 56.11 0.5
S 15 59.19
PZZ 0.52 291 P 15 59.81 -0.5
S 16 08.83
PCP 0.59 68 P 16 02.16 0.4
S 16 10.26
S.D. = 1.1 on 4 of 4 obs.

& OCT 04, 1991 10h 01m 17.40s
33.940 N 116.540 W
DEPTH = 10.0km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 2.7 (PAS). Felt at
Desert Hot Springs.

PEC 0.52 265 iPc 01 26.93 -1.0
eS 01 32.65
PLM 0.64 205 iPd 01 29.50 -0.9
RVR 0.70 275 eP 01 29.90 -1.3
HAY 0.79 107 eP 01 31.90 -0.8
SSK 0.99 286 eP 01 35.57 -0.8
eS 01 48.95
CPE 1.16 204 eP 01 37.70 -1.3
BAR 1.26 185 eP 01 39.80 -1.1
SBB 1.30 305 eP 01 40.60 -0.9
8 obs. associated

? OCT 04, 1991 10h 12m 13.02±6.01s
32.947 S ± 20.3km 72.148 W ± 39.4km
DEPTH = 10.0km (geophysicist)
OFF COAST OF CENTRAL CHILE (134)

LCCH 0.72 138 iPd 12 27.50 0.4
iS 12 38.00
ROCH 0.96 92 iPd 12 31.00 -0.4
iS 12 44.40
LNV 1.18 149 iPc 12 34.50 -0.5
iS 12 50.50
TACH 1.23 125 iPd 12 35.50 -0.5
iS 12 52.00
PEL 1.24 99 iPd 12 36.50 0.3
iS 12 53.50
JACH 1.34 79 iP 12 37.50 -0.2
iS 12 56.10
SAN 1.34 112 iPc 12 38.00 0.2
iS 12 57.70
PCH 1.52 117 iP 12 41.00 0.6
CHCH 1.59 129 iPc 12 41.50 0.2
iS 13 03.00
S.D. = 0.5 on 9 of 9 obs.

& OCT 04, 1991 11h 12m 16.84s
59.909 N 153.264 W
DEPTH = 117.3km
SOUTHERN ALASKA (2)
<AEIC>.

INW 0.17 22 iP 12 32.69 0.8
iS 12 45.44
INE 0.18 34 eP 12 32.71 0.8
eS 12 45.89
OPT 0.26 176 iP 12 32.91 0.9
iS 12 44.59
AUL 0.54 189 eP 12 34.19 -0.8
eS 12 47.04
AUW 0.55 191 iP 12 34.36 -0.7
eS 12 47.21
AUH 0.55 190 eP 12 34.49 -0.7
AUP 0.55 188 iP 12 34.44 -0.8
AUE 0.55 186 iP 12 34.21 -0.9
eS 12 48.11

04d 11h																	
AGU	0.56	189	eP	12 34.46	-0.8	KNIM	1.43	69	iPc	06 50.33	-2.1	NEAR SOUTH COAST OF FRANCE (379)					
RED	0.57	25	iP	12 34.50	-0.8	NCT	1.44	300	ePc	06 51.73	-1.1	ML 2.5 (STR).					
			eS	12 49.08					eS	07 10.38							
AUI	0.58	188	eP	12 34.37	-0.9	OPT	1.44	263	iPc	06 52.20	-0.5	GELF	0.06	191	Pg	15 08.35	-0.4
			iS	12 47.79					eS	07 10.93		TREF	0.19	347	Pg	15 10.31	-0.4
RS1	0.61	24	eP	12 34.95	-0.8	PMS	1.45	16	ePc	06 52.40	-0.5	PUYF	0.21	63	Pg	15 10.53	-0.5
			eS	12 49.91		AUE	1.59	253	ePc	06 54.34	-0.4	BERF	0.22	125	Pg	15 11.14	-0.1
RS2	0.61	24	iP	12 35.10	-0.7	AUL	1.61	254	eP	06 54.83	-0.3	CDR	0.33	45	e(Pg)d	15 12.20	-1.2
RSO	0.61	24	iP	12 34.96	-0.8	AUP	1.61	253	eP	06 54.99	-0.2				e(Sg)	15 18.10	
RDW	0.62	21	iP	12 35.00	-0.8	SYI	1.61	220	eP	06 55.53	0.4	PRAF	0.42	332	Pg	15 15.20	0.2
REF	0.65	26	iP	12 35.22	-0.8	AGU	1.62	253	eP	06 54.43	-0.9	VILF	0.46	26	Pg	15 15.57	-0.2
NCT	0.68	14	iP	12 35.43	-0.7	SUA	1.62	354	eP	06 55.18	-0.2	TAVF	0.48	68	Pg	15 15.94	-0.3
			eS	12 49.87		AUH	1.62	254	eP	06 55.02	-0.3	DOI	1.68	50	P	15 37.70	1.6
DFR	0.74	23	eP	12 35.89	-0.8	AUI	1.62	252	eP	06 54.46	-0.8				eSg	16 03.10	
RDT	0.79	32	iP	12 36.21	-0.9	AUW	1.63	254	eP	06 55.21	-0.2	BNI	1.84	28	P	15 43.10	4.6X
			iS	12 51.21		CKL	1.65	325	iPd	06 55.18	-0.6				eSg	16 08.50	
HOM	0.86	106	eP	12 36.90	-0.6				S	07 15.88		CKI	2.28	63	P	15 46.00	1.3
			iS	12 52.72		CGLM	1.66	332	eP	06 55.09	-0.7				eSg	16 18.00	
XLV	0.91	120	eP	12 36.76	-1.3	BGL	1.72	326	iPd	06 56.35	-0.4	S.D. = 1.0 on 10 of 11 obs.					
			eS	12 53.09		NCG	1.77	332	ePd	06 57.28	-0.3						
MCNL	0.91	217	iP	12 36.95	-1.1	PWA	1.82	8	eP	06 58.71	0.6						
			iS	12 52.77		KNK	1.83	31	eP	06 57.91	-0.4						
NNL	1.00	81	eP	12 38.82	-0.1	PLRM	1.85	19	ePd	06 57.45	-1.1						
CDD	1.00	191	iP	12 37.81	-1.2	CDD	1.90	242	eP	06 58.91	-0.4						
CNPM	1.10	110	iP	12 38.71	-1.3	GLI	1.94	57	ePc	06 57.53	-2.3						
			iS	12 55.77		GHO	2.05	20	eP	07 01.84	0.2						
NKA	1.31	49	eP	12 43.13	0.9	FID	2.15	64	iPc	06 59.86	-3.0						
CKL	1.37	19	iP	12 42.51	-0.6	SKT	2.20	346	eP	07 03.19	-0.4	MDG	1.65	123	eP	24 28.80	-0.6
			eS	13 02.96		SML	2.20	27	eP	07 04.79	1.1	MNDI	1.95	202	eP	24 41.00	7.1X
SYI	1.38	161	eP	12 41.72	-1.3	VZW	2.26	56	eP	07 02.25	-2.2				eS	25 12.00	
BGL	1.43	17	eP	12 43.34	-0.4	VLZ	2.39	56	eP	07 03.27	-2.9	YYYY	2.46	140	eP	24 45.20	4.1X
CRP	1.47	21	eP	12 43.79	-0.5	CUT	2.56	1	eP	07 09.92	1.3	LAT	3.47	132	eP	24 56.20	0.9
CGLM	1.53	23	eP	12 43.76	-1.2	KLU	2.75	51	ePc	07 09.74	-1.7	PMG	5.74	152	eP	25 27.00	-0.4
NCG	1.60	20	eP	12 45.36	-0.4	50 obs. associated								eS	26 31.00		
SLKM	1.63	67	iP	12 45.24	-0.9						WR2	18.34	211	iPc	28 15.80	-0.1	
			iS	13 06.36								0.5s		9.50nm		4.2mb	
SEW	1.93	83	iP	12 47.87	-1.8	? OCT 04, 1991 13h 14m 50.17±1.95s											
PMS	2.27	52	iP	12 53.46	-0.6	23.348 S ±18.4km 178.912 E ±28.7km											
LTi	2.72	85	eP	12 58.25	-1.8	DEPTH = 580.0km (geophysicist)											
KNIM	2.80	79	iP	12 58.75	-2.3	4.7mb (7 obs.)											
KNK	2.81	55	eP	12 59.36	-1.8	SOUTH OF FIJI ISLANDS (171)											
CUT	2.89	29	iP	13 01.57	-0.7	KUZ	13.64	191	eP	17 45.80	0.7						
SML	3.07	50	eP	13 03.04	-1.7	URZ	14.94	186	eP	17 56.60	-1.3						
FID	3.48	73	eP	13 08.05	-2.1	NOZ	15.24	183	eP	18 02.40	1.6						
41 obs. associated						RUZ	16.02	190	eP	18 08.20	-0.2						
						MNG	17.46	189	eP	18 21.10	-1.2						
									0.4s	20.00nm	5.0mb						
& OCT 04, 1991 13h 06m 28.31s						THZ	19.04	194	eP	18 38.10	0.9						
59.858 N 150.406 W						DSZ	19.29	196	eP	18 39.70	0.3						
DEPTH = 29.2km						KHZ	19.54	192	eP	18 40.80	-0.8						
KENAI PENINSULA, ALASKA (14)									0.3s	25.00nm	5.3mb						
<AEIC>. ML 2.7 (AEIC).						LTZ	20.15	194	eP	18 46.20	-1.2						
BRLK	0.26	249	iPc	06 35.05	-0.2	WVZ	20.81	197	eP	18 53.60	0.3						
			eS	06 40.67		EWZ	21.18	196	eP	18 55.80	-0.9						
NNL	0.48	293	ePc	06 38.68	0.2	MSZ	23.10	200	eP	19 15.50	1.5						
CNPM	0.54	232	iPc	06 38.33	-1.0	COO	25.10	247	iPd	19 36.00	4.0X						
			eS	06 46.19		CAN	28.57	239	eP	20 03.60	1.4						
SEW	0.54	62	iPc	06 38.37	-0.9	BWA	28.79	241	eP	20 02.50	-1.6						
HOM	0.66	253	ePc	06 40.57	-0.7	STK	34.01	247	iPc	20 50.20	2.0						
			eS	06 49.37					0.3s	3.80nm	4.5mb						
SLKM	0.66	8	iPd	06 40.57	-0.7	ASPA	41.14	260	iPc	21 46.60	0.2						
			S	06 50.32					0.3s	8.00nm	4.7mb						
XLV	0.78	239	iPc	06 41.56	-1.6	WR2	41.43	266	eP	21 47.70	-0.9						
NKA	0.98	335	ePd	06 46.71	0.7				0.2s	15.40nm	5.2mb						
RDT	1.23	307	ePd	06 48.87	-0.8					iPcP	22 49.50						
			eS	07 04.76						iScP	26 31.80						
LTi	1.30	81	eP	06 48.59	-1.9					eS	27 23.30						
RED	1.31	296	ePc	06 49.79	-1.0	WARB	47.29	255	iPc	22 33.60	-0.4						
			iS	07 06.73					0.3s	3.00nm	4.3mb						
REF	1.31	300	iPc	06 50.02	-0.9	MBL	54.39	260	eP	23 24.40	-1.3						
			eS	07 07.02		CHG	88.55	291	eP	26 43.50	0.4						
RSO	1.32	298	ePc	06 50.17	-0.9	CHTO	88.55	291	eP	26 43.50	0.4						
			eS	07 07.37					1.3s	4.49nm	4.2mb						
RS1	1.32	298	ePc	06 50.12	-1.0					pP	28 50.00	582kmX					
			S	07 07.24		KRA	148.68	334	ePKP	33 31.00	2.1X						
RS2	1.32	298	ePc	06 50.15	-1.0	KSP	149.41	338	iPKPc	33 33.60	3.6X						
			eS	07 07.36		CLL	150.03	342	iPKPd	33 34.10	3.2X						
RDN	1.35	300	ePc	06 50.31	-1.1				1.0s	22.00nm							
			eS	07 07.48		BRG	150.14	341	iPKPc	33 35.00	3.9X						
INE	1.35	280	ePc	06 50.10	-1.4				1.0s	16.00nm							
			eS	07 07.60		PRU	150.73	339	ePKP	33 36.00	4.0X						
DFR	1.36	304	eP	06 50.50	-1.0	KHC	151.78	339	ePKP	33 38.20	4.6X						
			S	07 07.70		S.D. = 1.2 on 21 of 28 obs.											
RDW	1.36	299	eP	06 50.59	-1.0												
			eS	07 08.44		OCT 04, 1991 13h 15m 06.46±0.84s											
INW	1.39	280	eP	06 50.82	-1.1	43.438 N ± 5.7km 5.442 E ± 6.7km											
			iS	07 08.98		DEPTH = 10.0km (geophysicist)											

LRG 0.94 241 Sg 46 31.60
Pg 46 19.20 -0.1
Sg 46 32.00
BHB 0.94 350 P 46 18.97 -0.4
LPG 1.67 342 Pg 46 33.40 2.3
Sg 46 56.40

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

% OCT 04, 1991 19h 05m 22.19 ± 0.62s
60.508 N ± 4.3km 4.569 E ± 5.3km
DEPTH = 7.3km (geophysicist)
SOUTHERN NORWAY (535)
MD 2.4 (BER).

ASK 0.31 94 iP 05 29.35 0.8
eS 05 33.48
BER 0.40 108 iP 05 30.38 0.1
eS 05 34.94
EGD 0.40 126 iP 05 30.85 0.5
eS 05 36.26
SUE 0.56 10 iP 05 33.68 0.3
iS 05 41.12
OSG 0.84 270 iP 05 39.27 0.7
Lg 05 53.34
HYA 1.03 50 iP 05 41.60 -0.3
iS 05 55.52
FOO 1.12 12 iP 05 42.96 -0.4
iS 05 57.86
ODD1 1.19 119 iP 05 44.70 0.1
iS 05 59.86
FRO 1.26 7 iPd 05 46.03 0.2
iS 06 01.17
KMY 1.34 165 iP 05 46.00 -1.2
eS 06 04.61
MOL 2.51 33 iP 06 03.22 -0.8
eS 06 32.90

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

* OCT 04, 1991 19h 26m 04.86 ± 1.96s
43.350 N ± 11.3km 147.091 E ± 16.6km
DEPTH = 42.7 ± 12.5 km
4.6mb (6 obs.)

KURIL ISLANDS (221)

KUSJ 1.76 263 P 26 31.70 -1.6
eS 26 49.90
HOOJ 2.96 252 eP 26 51.90 1.4
eS 27 26.50
ASAJ 3.31 285 eP 26 56.70 1.2
MRRJ 4.52 260 P 27 13.00 0.4
AOMJ 5.73 243 eP 27 30.10 0.4
eS 28 30.50
OFUJ 5.91 226 P 27 31.50 -0.7
eS 28 33.00
YAMJ 7.44 228 eP 27 52.70 -0.9
MAT 9.63 228 (P) 28 23.00 -0.8
eS 30 08.00
YAK 21.33 337 eP 30 47.50 -2.4
TIA 24.02 263 eP 31 18.20 1.6
BTO 27.55 277 eP 31 50.00 0.3
XAN 30.98 266 eP 32 19.80 -0.5
WMO 42.20 292 eP 33 55.00 -0.1
INK 46.77 30 eP 34 33.00 1.7
CHG 47.13 254 eP 34 36.00 1.2
CHTO 47.13 254 eP 34 36.00 1.2
1.1s 1.77nm 3.9mb
GUN 51.00 274 P 35 04.90 0.0
0.6s 28.00nm 5.4mb
KKN 51.50 274 P 35 08.78 0.2
PKI 51.53 274 P 35 08.64 -0.3
DMN 51.73 274 P 35 10.18 -0.2
GKN 51.85 274 P 35 10.88 -0.3
GBA 66.02 266 Pc 36 47.90 -1.4
0.6s 4.20nm 4.7mb
NB2 69.96 339 P 37 13.00 -0.4
0.8s 3.80nm 4.4mb
HFS 70.04 337 eP 37 13.20 -0.6
0.5s 2.40nm 4.4mb
CLL 77.65 333 iP 37 58.60 0.6
1.2s 14.00nm 4.9mb
S.D. = 1.1 on 25 of 25 obs.

* OCT 04, 1991 20h 01m 55.78 ± 1.19s
50.275 N ± 16.5km 18.931 E ± 7.3km
DEPTH = 10.0km (geophysicist)
POLAND (548)
ML 3.7 (WAR).

RAC 0.51 248 eP 02 07.00 0.9
iS 02 14.50
KRA 0.68 108 eP 02 09.50 0.2
iSg 02 19.30
SPC 1.38 141 iPn 02 22.50 1.3
iSg 02 42.70
Lg 02 46.00
KSP 1.78 290 ePn 02 26.70 0.0
0.4s 128.00nm

ZST 2.40 211 e(Pn) 02 42.40 6.7X
e 02 47.20
e 03 14.50
e 25 28.60
PSZ 2.44 165 iPn 02 43.00 6.6X
SRO 2.50 190 ePn 02 44.00 6.9X
i 03 06.70
i 03 23.10

BUD 2.79 179 ePn 02 49.50 8.1X
PRU 2.84 266 Pn 02 41.40 -0.6
e 02 46.70
BRG 3.23 283 iPg 02 53.00 5.5X
iSg 03 39.00
KHC 3.66 254 Pn 02 53.50 -0.1
ePg 03 00.00
eSn 03 33.00
eSg 03 51.50

UZD 3.69 184 e(P) 03 09.00 14.9X
CLL 3.90 288 ePg 03 09.00 12.0X
eSg 04 01.00
WET 4.09 256 ePn 03 10.20 10.6X
MOX 4.69 277 ePn 03 18.00 9.8X
iSg 04 27.00

BZS 5.00 158 eP 03 11.00 -1.6
GRF 5.01 266 e(Pg) 03 30.00 17.3X
eSg 04 35.90
FVI 5.51 230 P 04 17.00 57.3X
eSn 04 52.00
WTTA 5.69 241 eP 04 25.00 62.5X
iSg 04 54.60

S.D. = 1.1 on 7 of 19 obs.

? OCT 04, 1991 20h 13m 54.48 ± 2.80s
16.308 N ± 26.2km 97.789 W ± 12.1km
DEPTH = 33.0km (normal)
OAXACA, MEXICO (60)

OXX 1.28 53 iP 14 16.50 0.2
iS 14 37.00
ACX 2.06 286 (P) 14 28.00 0.5
iS 14 48.00
III 2.61 322 eP 14 34.00 -1.4
iS 15 07.50
IISM 2.69 8 eP 14 35.50 -0.9
IIT 2.74 350 eP 14 38.50 1.1
PPM 2.86 344 iP 14 40.50 1.3
iS 15 19.00

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

% OCT 04, 1991 20h 17m 27.30 ± 0.79s
46.428 N ± 10.3km 2.576 E ± 7.1km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 1.5 (LDG).

MAF 0.21 182 Pg 17 31.70 -0.1
Sg 17 34.40
BGF 0.23 55 Pg 17 32.00 -0.2
Sg 17 35.00
TCF 0.29 241 Pg 17 33.60 0.2
Sg 17 37.60
LSF 0.75 257 Pg 17 41.80 -0.1
SMF 0.90 76 Pg 17 44.80 0.3

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

OCT 04, 1991 20h 45m 50.09 ± 0.38s
3.055 N ± 6.7km 76.456 W ± 6.9km
DEPTH = 151.5 ± 3.0 km
4.7mb (7 obs.)
COLOMBIA (103)

MD 4.5 (UVC). Felt strongly in
parts of Cauca and Valle del
Cauca Departments.

SALC 0.25 251 iPd 46 11.02 -1.4
DIAC 0.35 48 iPd 46 11.44 -1.2

HOQC 0.45 337 iPd 46 11.54 -0.4
ANCC 0.61 318 iPc 46 12.63 0.1
PURC 0.73 173 iPd 46 14.90 1.1
CLMC 0.83 353 iPd 46 13.96 -0.1
eS 46 33.60
BUGC 0.86 13 iPd 46 14.17 -0.1
eS 46 34.00

HOBC 1.33 14 iPd 46 18.27 -0.2
eS 46 37.60
CUMC 2.52 214 iPc 46 33.41 0.9
BOG 2.85 57 iPc 46 39.00 2.5
iS 47 11.50

BMG 5.22 40 iPc 46 53.00 -14.4X
UPA 6.64 333 iPc 47 26.40 0.0
1.0s 80.00nm 5.0mb
SDV 8.19 45 iPn 47 47.20 -0.2
TOV 9.41 44 eP 48 02.90 -0.5

ZOBO 20.89 157 P 50 18.00 -4.6X
LPB 21.14 157 eP 50 20.00 -4.9X
CNCB 21.44 157 P 50 16.00 -12.0X
i 50 33.20
TUL 37.26 334 ePc 52 48.10 -0.7
0.6s 14.60nm 4.9mb

SIO 37.36 333 eP 52 40.40 -9.2X
e 52 44.50
SOB1 37.48 109 eP 52 51.30 0.4
ALO 42.21 322 eP 53 31.00 1.1
0.8s 14.55nm 4.7mb

LRM 52.93 329 eP 54 53.80 0.8
SES 55.47 334 eP 55 12.00 0.8
NEW 56.94 329 eP 55 21.00 -0.7
0.9s 3.07nm 4.2mb
PNT 58.89 328 eP 55 37.00 1.8
0.7s 10.00nm 4.8mb

YKA 65.70 342 eP 56 19.10 -1.0
0.6s 3.90nm 4.5mb
LIC 71.22 84 Pc 56 54.90 -0.2
TIC 71.22 84 P 56 54.60 -0.5
KIC 71.50 84 Pc 56 56.50 -0.3
INK 75.46 341 eP 57 19.00 0.3
MBC 76.91 350 ePd 57 27.00 0.4
0.5s 9.00nm 4.8mb

ASPA 144.21 232 iPKPd 05 09.00 -1.4
0.4s 23.10nm
KKN 144.65 29 PKP 05 10.94 -0.3
0.5s 8.00nm
DMN 144.71 29 PKP 05 10.86 -0.5
0.5s 13.00nm

GUN 144.83 28 PKP 05 09.04 -2.7X
PKI 144.89 29 PKP 05 10.92 -0.9
0.4s 12.00nm
WR2 145.56 238 ePKP 05 13.10 0.4
0.6s 7.20nm

MTN 151.03 249 ePKP 05 28.10 6.8X
0.4s 38.00nm
S.D. = 0.9 on 31 of 38 obs.

OCT 04, 1991 21h 09m 15.51 ± 0.50s
36.771 N ± 5.1km 30.530 E ± 4.9km
DEPTH = 30.1 ± 4.2 km
4.0mb (8 obs.)
TURKEY (366)
Felt at Antalya.

KHL 1.74 333 iPn 09 44.00 -0.2
YER 1.84 282 iPn 09 47.40 1.8
LFK 2.85 121 ePn 09 52.00 -8.0X
IZM 3.06 303 iPn 10 03.20 0.2
GPA 3.52 357 iPn 10 09.90 0.4

IZI 3.66 347 eP 10 11.40 0.0
YLV 3.90 347 ePn 10 13.90 -0.9
HRI 5.52 128 eP 10 38.60 0.7
JVI 6.26 139 eP 10 48.60 0.3
KOT 6.91 171 ePn 10 56.50 -0.8
MBH 7.87 151 eP 11 09.70 -1.2

LPG 19.86 303 eP 13 47.50 0.2
0.8s 4.05nm 3.8mb
LPL 19.88 303 eP 13 47.50 0.1
0.6s 1.70nm 3.5mb
CDF 20.61 312 eP 13 54.60 -0.2
0.8s 10.75nm 4.3mb

BSF 20.66 310 eP 13 54.10 -1.3
0.8s 5.35nm 4.0mb
HAU 21.01 310 eP 13 58.40 -0.4
0.8s 6.70nm 4.1mb

04d 21h

SMF 22.14 305 eP 14 10.70 0.5
1.0s 10.00nm 4.2mb
SSF 22.48 306 eP 14 14.00 0.5
1.2s 5.95nm 3.9mb
AVF 22.50 305 eP 14 14.10 0.4
0.8s 2.70nm 3.8mb
GKN 46.00 85 P 17 38.36 0.2
HYB 46.37 101 eP 17 41.00 0.1
DMN 46.55 85 P 17 43.02 0.4
KKN 46.61 85 P 17 43.06 0.0
PKI 46.80 85 P 17 45.28 0.6
GUN 47.03 84 P 17 46.06 -0.5
GBA 47.72 106 Pd 17 51.90 0.3
S.D. = 0.7 on 25 of 26 obs.

? OCT 04, 1991 21h 10m 55.03±1.23s
51.725 N ±20.6km 177.677 W ±18.1km
DEPTH = 33.0km (normol)
4.7mb (3 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS. (7)

ADK 0.64 75 eP 11 07.00 -0.6
TTA 16.11 37 eP 14 45.00 4.6X
PWA 18.07 46 eP 15 11.20 6.4X
1.0s 25.20nm 4.3mb
IMA 18.79 31 eP 15 13.60 -0.2
KLU 19.82 48 eP 15 27.00 1.5
INK 26.77 35 eP 16 33.00 -0.2
MBC 33.02 22 eP 17 28.00 -0.7
1.0s 13.00nm 4.8mb
ASPA 86.22 223 iPd 23 34.20 0.0
1.2s 7.50nm 4.8mb
S.D. = 1.0 on 6 of 8 obs.

% OCT 04, 1991 21h 44m 39.19±0.80s
39.278 N ±11.3km 117.996 E ±7.6km
DEPTH = 10.0km (geophysicist)
NORTHEASTERN CHINA (658)
ML 3.7 (BJI).

BJI 1.60 299 Pg 45 08.00 0.5
Sg 45 29.00
DL2 2.85 96 Pnc 45 26.30 0.8
Pg 45 37.70
eSg 46 10.00
TIA 3.14 193 Pn 45 29.40 -0.2
Pg 45 37.20
Sg 46 17.50
TIY 4.63 252 ePn 45 50.70 -0.3
Pg 46 01.40
Sg 47 00.50
SNY 4.96 57 ePn 45 54.60 -0.8
Pg 46 12.80
Sn 46 48.20
Sg 47 14.00
HHC 5.18 290 Pgc 46 14.20 15.5X
Sg 47 20.20
BTO 6.27 285 ePg 46 31.80 17.7X
Sg 47 53.00
CN2 7.19 49 Pgc 46 50.20 23.4X
eSg 48 23.00
S.D. = 0.9 on 5 of 8 obs.

OCT 04, 1991 22h 11m 39.20±1.38s
8.909 S ±7.4km 115.830 E ±9.2km
DEPTH = 101.5 ±15.0 km
4.7mb (14 obs.)

BALI REGION, INDONESIA (283)

TRT 3.38 291 iPd 12 33.20 2.3
iS 13 05.60
MBL 12.78 163 eP 14 33.20 -5.1X
0.2s 22.00nm 5.5mb
eS 16 42.00
NANU 13.58 181 eP 14 46.00 -2.8
eS 17 01.00
KNA 14.35 120 eP 14 57.30 -1.5
eS 17 29.00
KKM 14.86 1 ePc 15 12.20 6.8X
MTN 15.53 106 eP 15 12.70 -1.1
IPM 19.93 312 ePc 16 05.20 -0.3
WARB 20.01 150 eP 16 07.00 0.7
eS 19 39.50
MRWA 20.20 180 eP 16 07.00 -1.2
0.7s 16.00nm 4.5mb
WR2 21.01 123 iPc 16 16.90 0.4
0.5s 12.90nm 4.5mb

iS 20 02.70
BAL 21.60 178 iPc 16 22.00 -0.3
0.7s 31.00nm 4.7mb
COOL 22.42 168 iPc 16 30.10 -0.2
0.5s 8.00nm 4.3mb
KLB 22.64 176 eP 16 32.50 0.1
0.6s 10.00nm 4.3mb
ASPA 22.68 132 iPc 16 34.20 1.3
0.6s 23.70nm 4.7mb
iS 20 49.40
MUN 22.96 179 iPc 16 37.20 1.7
NWA0 23.94 177 eP 16 45.00 0.0
0.6s 23.00nm 4.8mb
BSI 24.98 304 eP 16 55.00 0.0
e 18 00.00
CHG 32.19 329 eP 18 00.00 0.3
CHTO 32.19 329 eP 18 00.20 0.5
0.6s 0.56nm 3.5mb X
STK 33.08 137 iPc 18 09.20 1.9
0.4s 4.20nm 4.6mb
i 19 05.20
BFD 37.10 143 iPc 18 41.00 -0.4
BWA 39.22 135 eP 19 02.30 3.1X
WHN 39.25 358 P 19 04.00 4.6X
BRS 39.42 123 iPc 19 03.90 2.9X
0.9s 4.00nm 4.2mb
COO 39.94 128 iPd 19 06.10 0.9
CAN 40.10 136 eP 19 08.20 1.7
CD2 41.25 344 eP 19 15.80 -0.1
XAN 43.21 352 P 19 31.50 -0.4
GUN 46.68 323 P 19 59.68 -0.4
0.6s 50.00nm 5.5mb
PKI 46.72 322 P 19 59.40 -0.9
0.6s 9.00nm 4.8mb
DMN 46.93 322 P 20 01.22 -0.7
0.6s 23.00nm 5.2mb
KKN 46.96 322 P 20 01.18 -0.9
GKN 47.50 322 P 20 05.36 -0.9
0.4s 15.00nm 5.2mb
GTA 50.32 344 eP 20 29.00 1.3
WMQ 58.36 336 eP 21 25.20 -1.0
SOB1 150.65 233 (PKP) 31 22.00 5.9X
S.D. = 1.2 on 30 of 36 obs.

* OCT 05, 1991 00h 14m 54.06±2.56s
31.989 S ±15.0km 71.813 W ±17.5km
DEPTH = 10.0km (geophysicist)
NEAR COAST OF CENTRAL CHILE (135)
MD 4.1 (SAN).

ROCH 1.19 146 iP 15 16.60 0.2
iS 15 35.20
JACH 1.24 124 iPc 15 16.80 -0.4
iS 15 35.50
PEL 1.49 141 iPc 15 21.00 0.0
iS 15 43.00
LCCH 1.50 172 iP 15 21.00 0.1
iS 15 43.00
TACH 1.82 156 iP 15 25.80 0.2
iS 15 51.50
PCH 1.96 146 iP 15 28.00 0.2
iS 15 55.00
LNV 1.99 170 iP 15 27.50 -0.6
CHCH 2.17 154 iP 15 31.00 0.2
ZON 2.71 81 eP 15 38.50 0.0
S.D. = 0.3 on 9 of 9 obs.

OCT 05, 1991 00h 56m 36.72±0.25s
80.465 N ±4.5km 1.207 W ±5.3km
DEPTH = 10.0km (geophysicist)
4.6mb (29 obs.) 3.6msz (1 obs.)
NORTH OF SVALBARD (641)

KBS 2.82 117 iPc 57 20.50 -2.1
eS 57 51.50
DAG 5.06 232 iPc 57 50.80 -3.5X
0.4s 21.19nm 5.1mb
iS 58 46.00
KEV 12.71 132 eP 59 50.00 10.0X
0.8s 38.10nm
SOD 14.93 135 iP 00 07.20 -1.9
NB2 19.85 162 P 01 10.00 -0.2
1.0s 3.20nm 3.6mb X
MBC 20.20 322 eP 01 15.00 1.4
1.5s 45.00nm 4.6mb
HFS 20.89 159 ePKP 01 19.90 -1.1
0.7s 5.40nm 4.0mb

NUR 21.40 144 eP 01 27.00 0.9
0.7s 29.40nm 4.8mb
INK 29.12 326 eP 02 38.00 -1.0
CLL 29.65 162 eP 02 44.00 0.0
1.7s 15.00nm 4.5mb
BRG 30.14 161 eP 02 48.60 0.3
1.4s 24.00nm 4.8mb
e 02 54.20
MOX 30.25 164 ePc 02 49.80 0.5
1.1s 15.00nm 4.7mb
i 02 56.00
PRU 31.06 160 eP 03 02.80 6.4X
GRC4 31.80 164 eP 03 03.80 0.8
1.2s 13.00nm 4.7mb
KHC 31.86 161 eP 03 05.20 1.7
e 03 10.00
SPC 32.23 153 e(P) 03 10.60 3.7X
ZST 33.00 157 eP 03 20.40 7.1X
SSF 33.57 174 eP 03 18.40 0.0
1.2s 8.95nm 4.6mb
FBA 33.65 335 eP 03 20.10 1.2
LBF 33.66 174 eP 03 19.00 -0.2
1.0s 5.00nm 4.4mb
AVF 33.84 174 eP 03 20.60 -0.1
1.2s 8.95nm 4.6mb
BGF 34.07 175 eP 03 22.60 -0.1
1.0s 12.00nm 4.8mb
TCF 34.33 176 eP 03 24.80 -0.1
0.8s 1.55nm 4.0mb
LSF 34.36 177 eP 03 24.70 -0.5
1.0s 8.00nm 4.6mb
MAF 34.40 175 eP 03 25.30 -0.2
1.0s 6.00nm 4.5mb
YAK 35.12 38 eP 03 31.50 -0.1
LPL 35.19 170 eP 03 33.70 1.1
0.8s 2.70nm 4.2mb
LPG 35.21 170 eP 03 33.90 1.1
1.1s 7.35nm 4.5mb
RJF 35.30 177 eP 03 32.30 -1.0
1.0s 8.00nm 4.5mb
Z 20s 0.10um 3.6msz
TOA 36.30 333 eP 03 42.60 1.0
SBF 36.86 170 eP 03 47.70 1.2
0.8s 10.75nm 4.7mb
PWA 37.02 336 eP 03 47.60 0.1
1.0s 34.30nm 5.1mb
EPF 37.57 178 eP 03 51.80 -0.6
1.0s 6.00nm 4.3mb
SVW 37.92 340 e(P) 03 40.70 -14.5X
FFC 38.27 293 ePd 03 57.50 -0.7
1.3s 32.00nm 4.9mb
IRK 41.37 64 eP 04 21.50 -2.3
SES 43.83 300 eP 04 44.00 0.0
1.0s 50.00nm 5.3mb
WMQ 46.95 82 P 05 09.70 0.7
0.8s 6.90nm 4.8mb
pP 05 15.00 18kmX
sP 05 21.50
LRM 48.50 300 ePd 05 21.20 -0.1
MAIO 49.68 112 eP 05 32.00 1.8
CBN 50.31 264 eP 05 35.00 0.1
GTA 53.22 72 Pd 05 56.00 -1.0
1.0s 7.00nm 4.6mb
HHC 53.60 60 eP 06 02.40 2.7
TIY 56.80 60 eP 06 21.00 -2.0
LZH 57.10 69 eP 06 26.00 0.7
2.0s 40.00nm 5.1mb
pP 06 36.50 35kmX
ALQ 58.25 291 eP 06 32.00 -1.4
1.1s 9.49nm 4.8mb
TIA 58.94 56 P 06 38.20 0.2
CLC 59.06 302 eP 06 39.00 0.1
GSC 59.45 301 eP 06 41.00 -0.6
XAN 59.89 64 eP 06 43.50 -1.1
SBB 60.20 302 eP 06 46.00 -0.7
MWC 60.69 302 eP 06 50.00 -0.2
PLM 61.37 301 eP 06 54.00 -0.9
GKN 61.89 89 P 06 58.28 -0.1
CD2 62.16 70 eP 07 02.30 2.2
GUN 62.19 88 P 07 00.82 0.2
KKN 62.20 88 P 07 00.80 0.2
1.0s 52.00nm 5.7mb X
DMN 62.35 89 P 07 01.56 0.0
PKI 62.44 88 P 07 02.76 0.5
CHTO 73.25 77 eP 08 09.00 -0.5
1.0s 2.25nm 4.2mb
GBA 74.79 99 Pd 08 18.60 0.2

1.1s 7.20nm 4.6mb
 NVL 151.22 171 ePKP 16 30.00 6.7X
 MAW 151.98 133 ePKP 16 32.00 7.5X
 S.D. = 1.1 on 55 of 63 obs.

OCT 05, 1991 00h 56m 45.96± 0.55s
 38.913 N ± 5.2km 22.573 E ± 4.9km
 DEPTH = 10.0km (geophysicist)

GREECE (364)
 ML 3.3 (ATH). MD 3.2 (THE).

AGG 0.22 300 iPg 56 49.24 -1.5
 LIT 1.19 357 ePbc 57 07.68 -0.4
 eSb 57 25.28
 ATH 1.30 136 iPnc 57 10.00 0.0
 PAIG 1.33 40 ePb 57 10.24 -0.2
 eSb 57 28.28
 KZN 1.52 336 iPnd 57 13.80 0.5
 VLS 1.72 245 iPnd 57 18.60 2.5
 THE 1.74 10 ePb 57 16.32 -0.1
 eSb 57 40.44
 OUR 1.79 37 ePbc 57 16.96 -0.1
 IGT 1.85 290 ePb 57 19.40 1.5
 eSb 57 45.84
 SOH 2.00 17 ePnc 57 20.40 0.2
 FNA 2.08 334 ePnc 57 21.72 0.3
 VLI 2.21 172 iPnd 57 22.20 -1.0
 KNT 2.26 6 ePn 57 24.28 0.3
 KEK 2.30 291 ePb 57 29.00 4.6X
 SRS 2.34 19 ePnc 57 24.56 -0.5
 eSn 57 54.16
 MMB 2.82 18 iPd 57 31.00 -0.9
 KKB 2.98 7 iPc 57 35.00 0.9
 RDO 3.19 45 ePn 57 38.20 1.2
 RZN 3.22 30 ePg 57 42.00 4.3X
 KDZ 3.49 38 eP 57 40.00 -1.4
 VTS 3.71 7 eP 57 46.00 1.4
 TDS 4.89 281 P 58 01.10 -0.2
 MGR 5.56 285 P 58 09.50 -1.3
 eSn 59 12.00
 SGO 5.84 289 P 58 13.20 -1.4
 eSn 59 20.00

S.D. = 1.1 on 22 of 24 obs.

OCT 05, 1991 01h 56m 09.12± 1.45s
 47.770 N ± 10.9km 146.597 E ± 6.6km
 DEPTH = 404.3 ± 17.6 km
 4.5mb (25 obs.)

NORTHWEST OF KURIL ISLANDS (220)

MDJ 12.20 261 iPd 58 53.70 0.1
 0.8s 64.00nm 5.1mb
 MAT 12.82 212 eP 59 00.00 -0.1
 CN2 15.27 263 iPd 59 24.70 -1.4
 0.9s 84.00nm 5.2mb
 SNY 17.35 258 iPd 59 48.00 0.6
 0.6s 80.00nm 5.2mb
 HHC 25.84 268 Pc 01 08.80 1.2
 0.8s 41.00nm 4.9mb
 XAN 31.28 258 P 01 54.70 -0.4
 LZH 33.48 265 eP 02 14.50 0.6
 1.5s 30.00nm 4.4mb
 GTA 34.45 274 Pd 02 23.60 1.6
 1.0s 20.00nm 4.4mb
 CD2 36.63 258 eP 02 38.00 -2.3
 GYA 37.74 250 P 02 49.40 -0.1
 1.0s 12.00nm 4.2mb
 FBA 38.14 39 iP 02 52.90 0.7
 0.9s 3.00nm 3.6mb
 pP 03 03.90 39kmX
 sP 03 08.50
 BALM 41.29 44 eP 03 18.90 0.8
 INK 43.17 32 iP 03 33.00 0.2
 0.4s 22.00nm 4.8mb
 MBC 45.14 20 ePc 03 48.50 0.2
 0.5s 9.00nm 4.4mb
 CHG 48.16 250 eP 04 12.50 0.3
 CHTO 48.16 250 iP 04 12.10 -0.1
 0.7s 4.61nm 3.9mb
 GUN 50.53 270 P 04 30.30 0.0
 0.3s 17.00nm 4.8mb
 KKN 51.01 270 P 04 34.84 1.1
 PKI 51.06 270 P 04 34.22 -0.1
 DMN 51.24 270 P 04 35.32 -0.2
 GKN 51.30 271 P 04 36.06 0.2
 0.3s 18.00nm 4.8mb
 YKA 52.71 35 eP 04 44.90 -0.6

0.6s 4.50nm 4.0mb
 SOD 56.61 336 eP 05 12.00 -1.2
 PNT 58.06 50 iPc 05 23.70 0.3
 0.5s 11.00nm 4.5mb
 NEW 60.01 50 iP 05 35.90 -0.8
 0.7s 4.20nm 4.0mb
 KAF 60.56 332 iP 05 39.80 -0.2
 0.3s 3.40nm 4.3mb
 SES 61.66 45 ePc 05 47.50 0.0
 NUR 62.30 332 iP 05 51.20 -0.2
 FFC 62.72 37 eP 05 53.50 -0.8
 0.5s 9.00nm 4.6mb
 LRM 64.02 50 ePc 06 03.40 0.3
 NB2 65.72 338 P 06 13.30 -0.1
 0.5s 5.50nm 4.5mb
 HFS 65.84 336 eP 06 13.60 -0.5
 0.4s 6.30nm 4.7mb
 BW06 67.63 51 iP 06 25.70 0.0
 0.9s 17.16nm 4.8mb
 ANMO 74.97 54 eP 07 09.60 0.8
 1.2s 1.95nm 3.7mb
 ALO 74.97 54 eP 07 08.80 0.0
 0.9s 1.89nm 3.8mb
 GRF 75.55 332 eP 07 12.50 1.0
 0.7s 3.00nm 4.1mb
 TUL 79.79 47 eP 07 33.80 -0.8
 0.6s 7.50nm 4.6mb
 S.D. = 0.8 on 37 of 37 obs.

* OCT 05, 1991 03h 04m 33.20± 0.85s
 28.279 S ± 6.7km 71.000 W ± 12.2km
 DEPTH = 99.5 ± 12.6 km
 4.1mb (1 obs.)

NEAR COAST OF CENTRAL CHILE (135)

RTRS 2.32 145 iPd 05 10.90 0.5
 RTCB 3.72 150 iPc 05 30.00 0.3
 RTLL 3.75 145 ePc 05 29.70 -0.4
 ZON 3.83 149 eP 05 32.50 1.4
 CFA 4.09 145 ePc 05 34.50 -0.2
 JACH 4.40 176 iP 05 41.00 1.9
 ANT 4.59 7 eP 05 34.50 -7.0X
 iS 06 44.50
 ROCH 4.68 180 eP 05 42.50 -0.5
 iS 06 40.00
 IHA 4.76 187 iPc 05 52.20 8.3X
 iS 06 52.50
 PEL 4.86 177 iPd 05 45.00 -0.3
 SAN 5.17 177 eP 05 52.50 2.9X
 iS 06 52.70
 LCCH 5.20 185 iPc 05 48.50 -1.5
 PCH 5.34 176 eP 05 52.50 0.4
 TACH 5.36 179 iP 05 51.00 -1.2
 CHCH 5.64 177 eP 05 56.00 -0.2
 LNV 5.67 183 iPc 05 54.50 -2.0X
 CNCB 11.75 14 P 07 19.00 -0.4
 ARE 11.77 358 e(P) 07 20.00 0.6
 LPB 11.99 14 P 07 27.20 4.7X
 ZOBO 12.24 13 iPc 07 29.00 3.1X
 PPD 18.87 75 eP 08 46.70 -1.6
 VAO 22.28 82 eP 09 22.40 -0.7
 e 09 35.60
 e 09 41.80
 BAO 24.72 64 ePc 09 46.50 -0.3
 BMA 24.84 83 eP 09 47.90 0.1
 TUL 67.99 338 eP 15 40.70 17.2X
 0.8s 9.40nm
 i 15 46.50
 ALO 71.25 330 eP 15 52.00 8.3X
 1.0s 3.00nm 4.1mb
 LIC 72.16 73 P 15 50.30 1.0
 KIC 72.48 73 P 15 52.30 1.1
 GBA 147.23 110 PKPd 24 10.20 5.6X
 0.6s 4.00nm
 S.D. = 1.0 on 20 of 29 obs.

* OCT 05, 1991 04h 06m 44.14± 0.92s
 21.995 S ± 7.0km 70.731 W ± 11.5km
 DEPTH = 33.0km (normal)

NEAR COAST OF NORTHERN CHILE (122)

ANT 1.73 170 iPc 07 12.00 -0.3
 iS 07 32.70
 ARE 5.55 352 iPd 08 03.00 -3.9X
 iS 09 03.40
 CNCB 5.77 27 P 08 10.80 0.5
 LPB 5.98 25 P 08 13.00 -0.1

1.0s 240.00nm 5.8mb X
 ZOBO 6.21 24 P 08 17.00
 S 08 15.20 -1.2
 CCH 6.30 44 eP 08 18.00 0.4
 NNA 11.54 329 iP 09 30.00 0.3
 0.7s 3.42nm 4.6mb X
 PPD 18.01 94 eP 10 53.20 -0.4
 VAO 21.98 97 eP 11 38.00 0.9
 S.D. = 0.8 on 8 of 9 obs.

% OCT 05, 1991 04h 38m 36.10± 0.93s
 40.108 N ± 9.1km 19.896 E ± 7.8km
 DEPTH = 5.0km (geophysicist)

ALBANIA (391)
 MD 2.7 (THE).

IGT 0.67 150 ePb 38 48.98 -0.4
 eSb 38 59.06
 FNA 1.32 59 ePb 39 00.34 -0.6
 eSb 39 19.18
 LCI 1.50 279 P 39 03.80 0.1
 eSn 39 23.00
 LIT 1.99 89 ePn 39 12.10 1.3
 AGG 2.17 119 ePn 39 13.50 0.1
 BRT 2.19 291 P 39 22.90 9.2X
 eSn 39 49.70
 KNT 2.52 64 ePg 39 17.94 -0.4
 S.D. = 0.9 on 6 of 7 obs.

* OCT 05, 1991 04h 42m 40.18± 0.89s
 56.335 N ± 9.9km 156.077 W ± 10.3km
 DEPTH = 33.0km (normal)
 4.4mb (4 obs.)

ALASKA PENINSULA (12)
 ML 3.9 (AEIC), 4.6 (PMR).

KDC 2.42 53 ePd 43 17.80 -0.4
 KDC 2.42 53 eP 43 21.79 3.6X
 S 43 53.63
 SDN 2.68 250 eP 43 24.30 2.4
 CDD 2.91 26 eP 43 25.65 0.4
 MCNL 3.01 17 eP 43 26.70 0.1
 eS 44 02.68
 SYI 3.03 40 eP 43 29.26 2.4
 AUI 3.33 24 eP 43 31.75 0.7
 AGU 3.35 24 eP 43 32.02 0.5
 AUW 3.35 23 eP 43 31.96 0.6
 AUH 3.35 24 eP 43 32.06 0.6
 AUP 3.35 24 eP 43 32.85 1.3
 AUE 3.36 24 eP 43 32.38 0.8
 AUL 3.37 24 eP 43 32.42 0.7
 OPT 3.66 23 eP 43 35.74 -0.1
 XLV 3.90 35 eP 43 39.23 0.0
 INE 4.06 22 eP 43 41.90 0.2
 CNPM 4.11 37 eP 43 41.54 -0.7
 RED 4.45 22 eP 43 47.21 0.0
 RS1 4.49 21 eP 43 47.69 -0.2
 RS2 4.49 21 eP 43 48.08 0.2
 RSO 4.49 22 eP 43 48.02 0.1
 >NNL 4.50 32 eP 43 47.44 -0.3
 RDW 4.50 21 eP 43 47.70 -0.3
 REF 4.53 22 eP 43 48.61 0.2
 RDN 4.54 21 eP 43 48.57 0.1
 NCT 4.55 20 eP 43 48.40 -0.2
 RDT 4.67 23 eP 43 49.87 -0.3
 SVW 4.79 3 eP 43 54.80 2.9X
 KNIM 5.96 44 eP 44 05.63 -2.7X
 PWA 6.22 28 eP 44 11.00 -1.0
 PMR 6.38 31 e(P) 44 14.00 -0.2
 GLI 6.54 42 eP 44 12.88 -3.6X
 TTA 6.62 0 eP 44 17.30 -0.4
 FBA 9.50 22 eP 44 54.10 -3.5X
 IMA 9.84 6 e(P) 45 03.70 1.3X
 0.9s 7.90nm 5.0mb X
 MBC 24.04 21 eP 47 52.50 0.0
 0.5s 4.00nm 4.2mb
 MSU 33.92 103 eP 49 22.50 0.3
 KAF 61.88 359 eP 52 55.10 -2.8
 0.5s 2.30nm 4.6mb
 NB2 62.54 7 P 53 00.30 -2.2
 0.9s 2.80nm 4.4mb
 NUR 63.50 360 eP 52 59.50 -9.2X
 HFS 63.59 6 eP 53 06.80 -2.5
 0.3s 1.10nm 4.4mb
 S.D. = 1.1 on 34 of 41 obs.

05d 05h

OCT 05, 1991 05h 14m 58.20 ± 0.20s					GRF 3.75 339 iPnc 15 56.50 -0.8					eSg 17 46.30				
46.207 N ± 2.3km 13.264 E ± 2.0km					ePg 16 08.70					BEO 5.24 103 ePn 16 41.00 22.6X				
DEPTH = 10.0km (geophysicist)					MNS 3.84 186 P 15 58.50 -0.2					e(Sn) 17 51.50				
AUSTRIA (546)					eSn 16 45.10					NKY 5.32 128 ePn 16 22.00 2.3				
ML 4.5 (VIE), 4.4 (FUR), 4.4					AQU 3.85 178 P 15 58.90 0.0					eSn 17 20.00				
(FEL), 4.3 (ZAG), 4.3 (LDG), MD					PRU 3.88 12 ePn 15 58.70 -0.4					VITF 5.35 295 Pn 16 20.12 0.1				
4.2 (LJU). Felt (V) in the					Pg 16 10.60					FRF 5.39 243 Pn 16 20.00 -0.6				
Spittal-Drova area. Also felt at					e 16 28.80					SPC 5.58 55 ePn 16 22.20 -1.2				
Klogenfurt. Felt at Ljubljana					Sn 16 44.40					e 16 49.60				
and in other parts of western					Sg 16 59.40					BDV 5.60 132 ePn 16 24.00 0.5				
Slovenia.					e 32 49.00					eSn 17 24.00				
					Sg 33 40.20					LMR 5.60 242 Pn 16 22.90 -0.6				
VOY 0.47 112 iPgd 15 07.40 -0.4					CKI 3.94 245 P 16 01.60 1.6					eSn 16 47.50				
eSg 15 14.30					FEL 3.96 297 Pn 16 00.84 0.5					LRG 5.63 243 Pn 16 23.40 -0.5				
FVI 0.51 319 P 15 08.20 -0.3					Sg 17 05.32					TTG 5.72 129 ePn 16 27.30 2.1				
eSg 15 16.50					NKC 4.07 353 ePn 16 01.40 -0.3					eSn 17 30.00				
TRI 0.61 145 iPgd 15 09.70 -0.8					Sg 17 09.30					IVA 5.80 123 ePn 16 30.00 3.7X				
iSg 15 19.80					DIX 4.07 270 eP 16 03.70 1.6					eSn 17 34.50				
VVI 0.63 249 P 15 11.40 0.6					MAO 4.08 203 P 16 01.85 -0.1					SGO 5.84 165 P 16 26.20 -0.6				
eSg 15 23.00					FIN 4.09 243 P 16 03.03 0.9					BZS 5.86 93 eP 16 24.50 -2.6				
KBA 0.87 4 iPgd 15 14.60 -0.5					S 16 50.25					CDR 5.89 247 ePn 16 26.90 -0.7				
i 15 23.30					BBS 4.14 290 Pn 16 03.54 0.6					e 17 25.20				
iSg 15 26.40					BUD 4.15 70 e(P) 16 05.00 2.0					e(Sn) 17 25.50				
LJU 0.90 100 iPg 15 15.10 -0.3					HOF 4.21 348 iPnd 16 02.70 -1.2					e 17 27.00				
iSg 15 26.70					ROB 4.26 245 P 16 04.67 0.0					KRA 5.90 47 eP 16 31.00 3.3X				
CEY 0.94 120 iPgc 15 15.50 -0.6					S 16 53.74					e 16 48.70				
eSg 15 28.20					LIBD 4.32 299 Pn 16 05.65 0.2					i 18 07.60				
CTI 1.13 262 P 15 20.90 1.4					LSD 4.33 262 P 16 05.29 -0.6					i 18 14.90				
eSg 15 38.60					S 16 55.05					WLF 5.90 308 iP 16 28.00 0.4				
RIY 1.17 137 ePg 15 20.10 0.1					RSP 4.34 258 P 16 03.95 -1.9					BRT 6.05 150 P 16 27.50 -2.3				
iSg 15 37.60					S 16 52.00					SSB 6.17 264 Pn 16 30.40 -1.2				
SCE 1.36 308 iPgc 15 23.90 0.6					EMS 4.40 270 eP 16 09.10 2.3					BNS 6.24 322 iPc 16 33.50 1.0				
BHG 1.54 350 iPd 15 26.90 1.2					BHB 4.43 254 P 16 06.00 -1.0					MGR 6.29 164 P 16 32.20 -1.1				
WTTA 1.54 314 iPgc 15 26.90 1.0					S 16 58.76					LBF 6.45 280 Pn 16 34.40 -1.1				
i 15 28.60					IMI 4.45 241 P 16 06.41 -0.8					SMF 6.53 277 Pn 16 35.40 -1.2				
iSg 15 49.40					S 16 57.88					Sn 17 49.90				
VBY 1.56 116 iPnd 15 27.30 1.3					RDP 4.47 185 P 16 07.00 -0.5					MEM 6.54 315 iPd 16 37.60 0.9				
iSn 15 50.40					eSn 16 58.80					LOR 6.55 283 Pn 16 35.80 -1.2				
OGA 1.68 294 iPc 15 30.60 2.6					MOF 4.50 294 Pn 16 08.26 0.2					Sn 17 49.70				
PTJ 1.90 98 iPnc 15 31.50 0.5					LOMF 4.57 287 Pn 16 09.37 0.4					ENN 6.68 316 iPc 16 39.40 0.7				
iSn 15 55.50					DOI 4.57 250 P 16 09.00 0.0					0.9s 59.00nm 5.6mb X				
ZAG 1.94 101 iPn 15 30.20 -1.2					eSn 17 03.50					PLDF 6.71 271 Pn 16 38.40 -0.9				
iSn 15 54.20					iPn 16 08.00 -1.0					COLF 6.72 268 Pn 16 37.64 -1.7				
KMR 1.94 17 iPn 15 33.30 1.7					iSn 17 00.00					SSF 6.77 281 Pn 16 39.20 -0.9				
iPg 15 35.70					ENR 4.58 246 P 16 08.16 -1.0					AVF 6.87 278 Pn 16 40.40 -0.9				
iSg 16 03.80					S 17 01.59					Sg 18 42.70				
SAL 2.00 254 P 15 34.80 2.4					LPG 4.61 263 Pn 16 10.70 1.0					TDS 6.92 160 P 16 43.40 1.3				
eSg 16 03.00					LPL 4.61 264 Pn 16 10.80 1.0					DOU 6.98 307 P 16 43.10 0.1				
OSS 2.21 284 iPc 15 38.30 2.7					Sn 17 02.50					iS 17 58.40				
FUR 2.38 326 iPnc 15 39.60 1.7					ECH 4.62 298 Pn 16 09.52 -0.2					LBL 7.08 266 Pn 16 43.20 -1.2				
iPg 15 43.00					DUI 4.63 169 P 16 11.50 1.7					WTS 7.17 326 eP 16 44.00 -1.6				
SFI 2.50 204 P 15 40.40 1.0					CDF 4.63 301 Pn 16 09.70 -0.2					BGF 7.21 277 Pn 16 44.80 -1.4				
PGD 2.58 206 P 15 41.60 0.8					STV 4.63 247 P 16 08.67 -1.3					Sn 18 05.40				
eSg 16 15.00					S 17 02.24					SNF 7.37 309 iP 16 49.93 1.6				
VDL 2.64 277 ePc 15 44.20 2.4					PZZ 4.67 251 P 16 08.05 -2.4					HYF 7.38 282 Pn 16 48.20 -0.3				
MME 2.71 223 P 15 44.60 1.8					S 17 01.37					Sn 18 10.50				
eSn 16 19.80					BRG 4.69 5 iPn 16 10.00 -0.7					MAF 7.42 274 Pn 16 47.90 -1.3				
ARV 2.72 185 P 15 43.50 0.8					iPg 16 25.00					Sn 18 11.00				
eSn 16 17.20					iSn 17 02.00					TCF 7.67 275 Pn 16 51.40 -1.2				
CRE 2.74 200 P 15 44.60 1.5					iSg 17 27.00					Sn 18 16.60				
eSn 16 21.40					BSF 4.71 292 Pn 16 11.08 -0.1					CAF 7.96 265 Pn 16 56.30 -0.5				
BDI 2.86 222 P 15 46.10 1.4					GWF 4.72 308 Pn 16 11.15 0.1					Sn 18 23.20				
eSn 16 24.10					RRL 4.73 257 P 16 10.52 -0.9					VTS 7.98 113 eP 16 56.00 -1.2				
VKA 2.93 44 iPnc 15 46.20 0.6					S 17 04.86					LSF 8.14 275 Pn 16 59.00 -0.2				
iPg 15 53.70					SBF 4.75 243 Pn 16 11.90 0.3					Sn 18 27.10				
iSg 16 32.60					Sn 17 05.80					RJF 8.27 268 Pn 17 00.20 -0.8				
KHC 2.93 4 Pn 15 46.10 0.4					BNI 4.76 258 P 16 12.30 0.4					KKB 8.30 118 iP 16 59.00 -2.4				
ePg 15 53.00					(Sn) 17 06.40					LPO 8.63 264 Pn 17 05.70 -0.3				
eSn 16 22.00					PGF 4.77 221 Pn 16 10.80 -1.1					MMB 8.85 118 eP 17 09.00 -0.1				
eSg 16 34.00					Sn 17 05.50					LFF 8.88 266 Pn 17 07.90 -1.5				
WET 2.95 355 iPnc 15 46.20 0.2					eP 16 15.30 2.4					Sn 18 46.80				
LLS 3.02 284 iPc 15 49.40 2.3					BRY 5.02 129 ePn 16 15.80 0.4					MFF 9.28 277 Pn 17 14.60 -0.3				
TMA 3.05 270 eP 15 49.30 1.7					eSn 17 12.00					Sn 18 54.20				
ASS 3.17 188 P 15 49.60 0.5					HAU 5.05 293 Pn 16 15.60 -0.2					LDF 9.39 290 Pn 17 14.90 -1.5				
eSn 16 29.40					Sn 17 14.10					RZN 9.41 115 eP 17 20.00 3.0X				
ZST 3.29 51 ePn 15 50.40 -0.3					KSP 5.06 22 ePn 16 14.80 -1.0					FLN 9.65 290 Pn 17 18.40 -1.7				
i(Pg) 15 59.10					iPg 16 33.00					EPF 9.75 256 Pn 17 20.30 -1.2				
i(Sn) 16 26.00					iSn 17 11.40					GRR 9.84 288 Pn 17 22.00 -0.7				
i 16 38.30					i 17 23.00					LPF 9.92 286 Pn 17 22.40 -1.4				
i 16 45.00					iSg 17 36.40					EKA 13.80 317 P 18 27.00 11.0X				
Lg 16 50.00					iPn 16 15.70 -0.9					1.2s 13.00nm				
ZLA 3.58 293 iP+ 15 56.10 1.2					0.5s 51.00nm 5.4mb X					HFS 13.95 1 eP 18 23.10 5.1X				
SLE 3.62 297 iPc 15 56.30 0.8										0.5s 0.70nm 3.7mb				
MMK 3.69 269 eP 15 57.60 0.9										NB2 14.91 356 P 18 35.20 4.6X				
UZD 3.70 82 eP 16 08.00 11.4X										0.8s 2.40nm 3.7mb				
ORX 3.73 263 P 15 56.37 -0.8					TNS 5.15 323 ePnc 16 16.70 -0.5									
										S.D. = 1.2 on 132 of 140 obs.				

? OCT 05, 1991 05h 30m 06.59± 4.87s
36.995 N ± 35.9km 15.401 E ± 17.1km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MEU 0.39 286 P 30 14.80 0.2
eSg 30 20.50
MNO 1.09 329 P 30 27.30 0.1
ATN 1.16 2 P 30 28.30 0.0
eSg 30 46.50
SOI 1.19 26 P 30 28.90 0.1
GIB 1.48 313 P 30 33.00 -0.3
eSg 30 52.50
S.D. = 0.3 on 5 of 5 obs.

OCT 05, 1991 05h 31m 37.50± 0.68s
46.324 N ± 8.9km 13.408 E ± 6.8km
DEPTH = 5.0km (geophysicist)
AUSTRIA (546)
ML 2.4 (VIE). MD 2.8 (LJU).

VOY 0.45 131 ePg 31 45.50 -1.0
eSg 31 52.80
FVI 0.51 302 P 31 46.40 -1.3
eSg 31 54.00
KBA 0.76 357 iPg 31 52.70 -0.1
i 32 02.40
iSg 32 04.00
LJU 0.83 109 ePg 31 53.00 -1.1
eSg 32 06.50
CEY 0.92 129 eP 31 58.00 2.4X
eSg 32 11.00
CTI 1.25 258 P 32 00.40 -0.9
eSg 32 15.60
SCE 1.37 302 iPg 32 04.10 0.7
VBY 1.53 122 e(Pn) 32 07.70 2.2
eSn 32 30.90
WTTA 1.54 308 iPg 32 06.60 0.8
iSg 32 28.50
OGA 1.73 289 eP 32 09.70 1.1
KHC 2.81 2 ePn 32 23.50 -0.5
eSg 33 10.50
S.D. = 1.3 on 10 of 11 obs.

* OCT 05, 1991 05h 56m 00.99± 1.01s
46.276 N ± 11.2km 13.337 E ± 7.5km
DEPTH = 10.0km (geophysicist)
AUSTRIA (546)
MD 2.5 (LJU).

VOY 0.46 122 ePg 56 10.50 0.2
eSg 56 17.70
FVI 0.50 310 P 56 11.00 -0.1
eSg 56 18.60
TRI 0.64 152 P 56 13.60 -0.2
eSg 56 22.80
VVI 0.70 246 P 56 14.80 0.0
eSg 56 27.00
CTI 1.19 260 P 56 23.50 0.2
eSg 56 42.60
S.D. = 0.2 on 5 of 5 obs.

? OCT 05, 1991 05h 57m 57.91± 1.24s
19.899 S ± 59.7km 173.671 W ± 34.2km
DEPTH = 33.0km (normol)
TONGA ISLANDS (173)

AFI 6.23 17 eP 00 00.00 30.0X
DZM 18.69 260 iPc 02 20.10 4.2X
URZ 19.97 202 eP 02 36.50 6.3X
LTZ 25.71 204 eP 03 37.30 10.4X
CAN 36.23 237 eP 05 00.00 0.1
e 06 01.00
CTAO 37.60 263 iPd 05 12.00 0.5
0.9s 21.63nm 5.0mb
ASPA 48.61 256 iPd 06 41.20 0.5
0.7s 13.50nm 5.1mb
WR2 48.69 261 eP 06 40.60 -0.7
0.5s 13.30nm 5.2mb
MBL 61.85 256 eP 08 16.20 -0.4
e 09 12.00
CLL 148.22 352 e(PKP) 17 38.00 -0.5
BRG 148.51 351 ePKP 17 39.30 0.3
e 17 57.20
i 18 32.00
i 18 44.60

PRU 149.27 350 ePKP 17 41.70 1.5
KHC 150.26 350 ePKP 17 40.50 -1.3
ZST 150.46 345 ePKP 17 48.90 6.9X
e 18 38.90
i 18 45.30
S.D. = 0.9 on 9 of 14 obs.

OCT 05, 1991 05h 58m 50.48± 0.34s
19.123 S ± 9.8km 172.984 W ± 7.3km
DEPTH = 33.0km (normol)
5.1mb (15 obs.) 4.7MsZ (4 obs.)
TONGA ISLANDS REGION (174)

DZM 19.48 258 iPc 03 16.10 -1.7
URZ 20.93 202 eP 03 33.70 1.0
PPT 22.27 90 eP 03 46.00 -0.4
1.2s 30.00nm 4.6mb
TBI 22.32 105 iP 03 47.60 0.8
1.5s 155.00nm 5.2mb
MNG 23.60 202 eP 04 00.20 1.0
DSZ 26.01 207 eP 04 25.10 2.9X
LTZ 26.68 205 eP 04 32.40 4.0X
EWZ 27.86 206 eP 04 43.70 4.7X
COO 33.72 243 eP 05 31.00 -0.1
RKT 35.61 103 iP 05 47.00 -0.3
1.2s 30.00nm 5.1mb
CTAO 38.34 262 iPd 06 08.00 -2.3
0.9s 30.28nm 5.1mb
i 06 15.00
STK 42.63 243 eP 06 45.40 -0.2
0.4s 3.10nm 4.4mb
ASPA 49.44 255 eP 07 38.20 -1.5
1.1s 47.10nm 5.4mb
Z 19s 0.90um 4.8MsZ
eS 14 42.50
WR2 49.46 260 eP 07 36.70 -3.1X
0.5s 14.40nm 5.3mb
GUMO 52.73 305 eP 08 09.00 4.4X
MUN 64.17 243 eP 09 24.00 -0.4
MRWA 64.73 246 eP 09 27.00 -1.1
0.5s 3.00nm 4.6mb
SYP 73.38 43 eP 10 21.00 -0.4
MWC 74.46 45 eP 10 27.00 -0.7
PLM 74.76 46 eP 10 29.00 -0.4
GSC 75.93 44 eP 10 35.00 -1.0
GLA 75.98 47 eP 10 36.00 -0.3
PMR 82.67 11 eP 11 11.10 -0.5
TTA 82.87 8 eP 11 13.10 0.4
ALO 82.89 49 eP 11 10.00 -3.7X
1.5s 34.72nm 5.2mb
PNT 82.94 32 eP 11 14.00 0.7
CNZ 84.18 320 eP 11 19.50 -0.2
1.0s 14.00nm 5.1mb
Z 15s 0.58um 5.1MsZ
eP 11 30.00 33kmX
SNY 84.28 318 eP 11 20.00 -0.2
LRM 84.69 38 eP 11 20.30 -2.3
WHN 85.50 304 eP 11 27.50 0.9
FBA 85.96 10 eP 11 28.10 -0.1
IMA 86.18 8 eP 11 29.60 0.2
1.2s 15.40nm 5.1mb
IPM 87.70 276 ePc 11 40.10 2.4X
1.0s 33.20nm 5.6mb
SES 88.03 34 eP 11 38.00 -0.5
BJI 88.31 313 eP 11 41.00 1.0
1.4s 18.00nm 5.2mb
MEO 88.60 52 iPc 11 42.20 0.6
SNG 88.94 278 eP 11 47.00 3.4X
TIY 89.94 310 eP 11 49.00 1.0
GYA 90.13 298 P 11 51.00 1.9
1.4s 21.00nm 5.2mb
INK 91.77 14 eP 11 55.00 -0.6
HHC 91.83 313 Pc 11 58.00 1.4
BTO 92.81 312 eP 12 03.00 1.9
CHG 94.26 288 eP 12 10.90 2.8X
CHTO 94.26 288 eP 12 10.00 1.9
1.0s 4.75nm 4.9mb
WIT 146.38 0 ePKP 18 31.00 3.0X
WTS 147.20 0 ePKP 18 34.00 4.6X
1.0s 11.00nm
KRA 147.45 344 ePKP 18 33.20 3.3X
KSP 147.50 349 iPKPc 18 33.10 3.2X
i 18 43.90
CLL 147.54 353 iPKP 18 33.00 3.0X
1.2s 31.00nm
e 18 51.00
MOX 148.34 354 ePKP 18 33.00 1.7

2.1s 52.00nm
ENN 148.41 1 ePKP 18 38.00 6.6X
PRU 148.62 351 ePKP 18 36.30 4.5X
e 18 46.00
PSZ 149.42 343 e(PKP) 18 39.00 5.8X
WLF 149.52 1 PKP 18 32.00 -1.1
KHC 149.60 351 PKP 18 38.80 5.4X
e 18 45.50
FLN 149.82 10 ePKP 18 38.70 5.1X
1.2s 23.80nm
Z 20s 0.10um 4.6MsZ
LDF 150.04 10 ePKP 18 39.40 5.4X
1.2s 23.80nm
BUD 150.06 344 e(PKP) 18 40.00 6.0X
GRR 150.12 11 ePKP 18 39.60 5.5X
1.2s 23.80nm
LPF 150.43 11 ePKP 18 40.40 5.9X
1.0s 24.00nm
CDF 150.78 360 ePKP 18 41.50 6.3X
1.0s 8.00nm
BZS 150.94 339 ePKP 18 40.00 4.6X
HAU 151.19 1 ePKP 18 42.40 6.7X
0.8s 5.35nm
Z 20s 0.10um 4.6MsZ
BSF 151.36 0 ePKP 18 42.60 6.5X
1.0s 8.00nm
LOR 151.81 5 ePKP 18 43.90 7.2X
1.2s 17.85nm
Z 20s 0.15um 4.8MsZ
MFF 151.97 11 ePKP 18 44.00 7.1X
1.2s 17.85nm
SSF 151.99 5 ePKP 18 44.50 7.6X
1.3s 25.25nm
LBF 152.10 4 ePKP 18 44.40 7.2X
1.3s 10.85nm
LBF 152.10 4 ePKP 18 45.30 8.1X
1.2s 11.90nm
AVF 152.24 5 ePKP 18 44.60 7.3X
0.8s 6.05nm
BGF 152.42 6 ePKP 18 45.40 7.8X
1.2s 11.90nm
SMF 152.43 5 ePKP 18 45.00 7.4X
1.0s 6.00nm
TCF 152.62 7 ePKP 18 45.50 7.6X
1.2s 8.95nm
MAF 152.73 7 ePKP 18 45.80 7.8X
1.2s 8.95nm
S.D. = 1.1 on 37 of 74 obs.

* OCT 05, 1991 06h 24m 40.00± 1.09s
47.398 N ± 11.2km 9.750 E ± 7.7km
DEPTH = 10.0km (geophysicist)
GERMANY (543)
ML 2.1 (VIE).

LLS 0.74 224 ePc 24 55.20 0.6
OSS 0.76 159 ePd 24 53.30 -1.7
SLE 0.93 294 ePd 24 56.90 -0.8
ZLA 0.93 276 ePd 24 57.90 0.1
WTTA 1.29 95 iPg 25 04.80 0.8
iSg 25 24.70
TMA 1.43 205 ePd 25 07.10 1.0
S.D. = 1.4 on 6 of 6 obs.

OCT 05, 1991 06h 29m 13.09± 0.79s
16.172 N ± 5.6km 61.328 W ± 6.9km
DEPTH = 23.5 ± 9.7 km
LEEWARD ISLANDS (92)
ML 2.4 (FDF).

SFG 0.15 57 iPc 29 17.92 0.0
MGG 0.25 178 iPc 29 19.45 0.1
S 29 22.90
SEG 0.29 323 ePc 29 20.01 0.2
S 29 24.80
DEG 0.29 61 iPc 29 19.85 -0.1
S 29 24.50
DOG 0.31 244 iPc 29 20.19 0.0
PAG 0.37 247 eP 29 20.80 -0.3
S 29 25.90
BBL 0.66 193 eP 29 26.02 0.1
S 29 35.60
BPA 1.01 330 eP 29 31.75 0.0
S 29 45.20
S.D. = 0.2 on 8 of 8 obs.

OCT 05, 1991 07h 24m 27.96± 0.25s

ADK	4.60	270	iPc	25	37.40	0.4
SDN	6.09	55	eP	25	59.60	1.6
KDC	11.13	53	eP	27	06.80	-0.9
RSO	12.34	41	P	27	23.00	-1.3
TTA	12.90	28	eP	27	33.50	2.0
SLKM	13.43	44	P	27	35.80	-2.6
PWA	14.17	40	eP	27	48.10	0.0
PMR	14.44	41	eP	27	50.10	-1.5
	0.7s	29.07nm			4.9mb	
RND	15.58	36	P	28	05.70	-0.8
KLU	15.74	44	P	28	04.40	-4.2X
TOA	15.91	42	eP	28	08.70	-2.1
IMA	16.01	23	eP	28	14.50	2.5
	1.4s	39.60nm			4.4mb	
FBA	16.87	33	eP	28	20.60	-2.1
	0.9s	35.42nm			4.5mb	
BALM	17.16	48	P	28	24.10	-2.5
INK	23.49	33	P	29	33.00	-2.1
	0.4s	3.00nm			4.2mb	X
GMW	29.90	80	eP	30	35.80	1.2
BMW	30.12	82	eP	30	36.50	-0.1
YKA	30.33	49	eP	30	38.00	-0.2
	1.1s	17.20nm			4.8mb	
MBC	30.71	21	eP	30	40.50	-0.9
	0.5s	13.00nm			5.0mb	
LON	30.86	81	eP	30	44.00	1.0
PNT	31.05	75	eP	30	45.00	0.3
DPW	32.52	77	P	30	57.60	0.0
NEW	32.99	76	ePd	31	01.00	-0.7
	0.9s	57.02nm			5.5mb	
		i				
YAK	33.36	311	iP	31	24.80	-3.5X
		ePP	31	02.20		
		PP	32	23.00		
		eS	36	49.00		
		eSS	39	10.00		
		iPcP	39	45.00		
		eSSS	39	57.00		
		ePSP	40	23.00		
		eScS	41	25.00		
LBFM	33.63	90	eP	31	08.50	1.0
SES	35.61	69	ePd	31	24.00	-0.2
	0.9s	53.00nm			5.5mb	
ARN	36.27	95	eP	31	31.00	1.1
CMB	36.55	93	ePc	31	34.10	1.9
	1.3s	32.79nm			5.1mb	
LRM	36.97	77	eP	31	35.70	-0.2
HPI	37.70	80	eP	31	43.00	0.9
BCH	38.57	96	eP	31	50.00	0.7
PTI	38.61	81	eP	31	50.05	0.5
FFC	38.77	59	eP	31	50.00	-0.6
	0.9s	12.00nm			4.7mb	
HVU	38.98	82	P	31	53.30	0.6
MAT	39.77	268	eP	31	59.00	-0.1
	1.2s	34.38nm			5.0mb	
		eS				
DUG	39.89	84	P	32	01.00	0.7
SBB	40.28	95	eP	32	04.00	0.5
		e				
			32	22.00		
BW06	40.36	79	iPd	32	03.80	-0.5
	1.0s	31.67nm			5.0mb	
		i				
			32	16.30		
MWC	40.45	96	eP	32	09.00	4.0X
GSC	40.50	93	eP	32	06.00	0.7
DAU	40.71	83	eP	32	08.00	0.8
RVR	41.02	95	eP	32	28.00	18.6X
MSU	41.31	86	eP	32	12.10	0.1
PLM	41.77	96	eP	32	16.00	0.2
BAR	42.35	96	eP	32	19.00	-1.4
		e				
			32	38.00		
RSSD	42.90	74	ePd	32	24.10	-0.9
	0.8s	20.03nm			4.9mb	
CN2	43.15	286	P	32	25.00	-1.7
	1.0s	23.00nm			4.9mb	
Z	18s	4.66				

		0.8 s	13.39 nm		32	52.60	4.9 mb
			e		32	40.90	0.6
GLD		44.79	80 ePd				5.4 mb
		1.0 s	60.00 nm				-1.0
SNY		45.42	285 Pc		32	44.00	5.1 mb
		1.2 s	32.00 nm				5.0 Msz
	Z	16 s	1.53 um				
	E	17 s	1.05 um				
ANMO		47.11	86 eP		32	58.20	-0.5
		0.9 s	13.66 nm				5.0 mb
ALQ		47.11	86 eP		32	58.00	-0.8
		1.2 s	20.70 nm				5.0 mb
	Z	18 s	0.69 um				4.7 Msz
DAG		49.99	9 iPc		33	19.00	-1.2
		1.0 s	34.00 nm				5.3 mb
ACO		50.41	79 e(P)		33	24.10	0.1
BJI		50.92	288 eP		33	27.00	-0.7
		0.7 s	7.00 nm				4.7 mb
	Z	16 s	1.75 um				5.2 Msz
			eS		40	36.00	
MEO		52.03	80 iPc		33	37.90	1.6
SIO		52.76	78 eP		33	39.20	-2.5
TIA		52.87	283 Pd		33	41.90	-0.6
TUL		52.96	77 ePc		33	40.90	-2.3
		0.6 s	2.90 nm				4.4 mb
	Z	22 s	0.39 um				4.4 Msz
			LR		45	57.00	
HHC		53.07	291 Pc		33	43.60	-0.5
		1.0 s	32.00 nm				5.2 mb
	Z	22 s	1.68 um				5.0 Msz
	N	19 s	0.75 um				
SSE		53.90	276 Pd		33	49.60	-0.5
		1.0 s	64.00 nm				5.6 mb
	Z	20 s	0.50 um				4.6 Msz
	N	14 s	0.40 um				
			pP		34	01.00	39 kmX
			S		41	24.00	
BTO		54.12	292 P		33	51.00	-0.8
	N	17 s	0.82 um				
	E	17 s	1.63 um				
			eSP		33	59.00	
TIY		54.64	288 eP		33	54.50	-1.2
	Z	20 s	1.25 um				5.0 Msz
	E	20 s	1.47 um				
			S		41	36.00	
NJ2		54.66	278 Pc		33	54.50	-1.2
		0.9 s	69.00 nm				5.7 mb
	Z	20 s	0.53 um				4.6 Msz
			ScP		38	54.00	
ELC		55.92	72 eP		34	02.40	-2.4
KEV		57.83	353 eP		34	15.00	-2.9
		0.9 s	32.10 nm				5.4 mb
WHN		58.45	280 iPc		34	22.00	-0.8
		1.0 s	78.00 nm				5.8 mb
XAN		59.24	287 P		34	26.70	-1.6
		1.0 s	22.00 nm				5.2 mb
	E	14 s	0.68 um				
			pP		34	37.00	34 kmX
			S		42	36.00	
SOD		60.21	353 iP		34	32.80	-1.6
GTA		60.65	297 Pc		34	36.00	-2.0
		0.8 s	17.00 nm				5.2 mb
			pP		34	46.00	33 kmX
LZH		60.74	292 Pc		34	37.60	-1.1
		1.5 s	90.00 nm				5.7 mb
	Z	18 s	1.73 um				5.2 Msz
	N	16 s	1.47 um				
			pP		34	44.00	21 kmX
NAV		60.74	66 eP		34	37.00	-1.5
BLA		61.03	66 ePd		34	39.00	-1.5
		0.8 s	26.85 nm				5.4 mb
CVL		61.57	64 eP		34	43.20	-0.9
NA2		61.86	63 eP		34	45.00	-1.0
CBN		62.01	63 eP		34	46.00	-1.1

			0.8s		33.70nm			5.5mb
GYA			66.05	283	iPc	35	13.00	-0.7
			1.0s		60.00nm			5.6mb
	Z		22s		0.81um			4.9MsZ
	N		18s		1.12um			
	E		18s		1.30um			
					pP	35	23.80	35kmX
					PcP	35	43.00	
					S	44	00.00	
					sS	44	13.00	
NUR			67.14	353	eP	35	18.30	-1.6
NB2			67.16	360	P	35	19.00	-1.1
			0.9s		30.00nm			5.4mb
HFS			68.05	358	eP	35	23.80	-1.8
			0.4s		10.30nm			5.3mb
	Z		18s		0.56um			4.8MsZ
					LR	02	41.00	
UPP			68.21	356	iP	35	25.10	-1.5
KMI			69.40	285	Pc	35	35.00	0.2
			1.5s		110.00nm			5.7mb
					pP	35	41.00	19kmX
EKA			72.27	8	Pd	35	51.20	-0.1
			1.1s		37.80nm			5.3mb
LSA			72.62	296	eP	35	54.00	-0.4
					eS	45	16.00	
DMU			73.30	11	eP	35	57.60	0.2
			1.0s		87.00nm			5.7mb
DCN			73.80	11	eP	36	00.60	0.3
			1.0s		75.00nm			5.6mb
GAR			75.50	316	iP	36	09.40	-1.1
WTS			76.18	3	eP	36	14.00	0.1
			1.1s		18.00nm			5.0mb
CHG			76.47	283	ePc	36	15.80	-0.3
			1.2s		23.44nm			5.1mb
					e	38	28.40	
CHTO			76.47	283	iPc	36	16.00	-0.1
			1.1s		14.72nm			4.9mb
GUN			76.90	299	P	36	18.24	-0.6
			1.0s		150.00nm			6.0mb
CLL			76.90	359	iPc	36	17.60	-0.4
			1.4s		35.00nm			5.2mb
KSP			77.28	356	iP	36	19.70	-0.4
			1.1s		29.00nm			5.2mb
UCC			77.29	4	P	36	23.70	3.6X
KKN			77.32	299	P	36	20.54	-0.5
			1.1s		88.00nm			5.7mb
BRG			77.32	358	iPc	36	19.60	-0.7
			1.4s		34.00nm			5.2mb
					i	36	31.50	
ENN			77.38	3	iPd	36	21.00	0.4
			1.1s		65.00nm			5.6mb
PKI			77.42	299	P	36	21.02	-0.7
			1.1s		112.00nm			5.8mb
GKN			77.49	310	P	36	21.22	-0.7
			0.9s		121.00nm			5.9mb
MEM			77.54	3	iPd	36	22.47	1.0
					i	38	13.92	
DMN			77.55	299	P	36	21.78	-0.6
			1.1s		96.00nm			5.8mb
SNF			77.57	4	iPd	36	23.90	2.2
MOX			77.58	359	iP	36	21.80	0.0
			1.4s		37.00nm			5.2mb
					i	36	29.00	
KRA			77.87	354	ePd	36	23.00	-0.4
			1.1s		50.00nm			5.5mb
DOU			78.00	4	Pd	36	24.50	0.4
PRU			78.19	358	P	36	25.20	0.1
			1.2s		23.00nm			

	1.1s	34.20nm		5.3mb	PZZ	83.67	3 P	36 54.79	0.4		0.690 N ± 5.0km	121.193 E ± 7.5km
LPF	79.69	8 eP	36 33.50	0.2	CKI	83.78	2 P	36 56.10	1.3		DEPTH = 104.3 ± 8.9 km	
	1.2s	59.50nm		5.5mb	ROB	83.90	2 P	36 55.20	-0.3		5.0mb (16 obs.)	
CDF	79.77	2 P	36 33.89	0.0	STV	83.94	2 P	36 54.89	-0.8		MINAHASSA PENINSULA, SULAWESI (265)	
VKA	79.85	356 eP	36 34.00	-0.2	ENR	83.96	2 P	36 54.99	-0.8			
ZST	79.89	356 iP	36 34.70	0.3	FIN	84.00	2 P	36 55.40	-0.5	PCI	2.09 221 ePc	33 16.00 0.6
VITF	79.93	3 P	36 34.74	0.1	MME	84.04	0 P	36 57.70	1.3		eS	33 41.50
ECH	79.97	2 P	36 34.66	-0.2	BDI	84.17	0 P	36 58.00	1.2	TSM	4.88 317 ePc	33 50.70 -2.7X
PSZ	80.01	354 iP	36 35.20	0.1	IMI	84.29	2 P	36 57.35	-0.1		eS	34 42.50
LIBD	80.04	2 P	36 35.29	0.1	SFI	84.31	359 P	36 58.60	1.3	MKS	6.12 196 iPd	34 21.50 11.0X
HAU	80.15	3 eP	36 35.90	0.0	SBF	84.33	2 iPc	36 59.20	1.6	KKM	7.28 317 ePd	34 25.30 -1.3
	1.2s	29.75nm		5.2mb		1.0s	68.00nm		5.8mb		0.3s	31.20nm 5.3mb
Z	20s	0.65um		5.0msz	PGD	84.35	359 P	36 59.60	1.8		e	35 44.00
FEL	80.33	2 P	36 35.24	-1.7	QUE	84.42	314 eP	36 58.20	-0.3	AAI	8.24 122 eP	34 39.50 -0.1
MOF	80.33	2 P	36 36.75	-0.1		1.9s	460.53nm		6.3mb	KHKI	10.58 212 eP	35 28.20 17.1
BSF	80.34	3 eP	36 36.80	-0.2			eS	47 33.00			e	37 10.00
	1.2s	56.55nm		5.4mb	CDR	84.46	4 eP	36 59.40	1.2	MTN	16.68 144 eP	36 30.00 0.1
SLE	80.45	2 ePd	36 38.00	0.6	SNG	84.48	275 eP	37 00.20	1.6		0.3s 73.00nm	5.4mb
BHG	80.49	359 iPd	36 38.80	1.2	KVT	84.58	341 eP	36 59.80	0.9	MBL	21.76 183 eP	37 25.00 -0.5
BBS	80.73	2 P	36 39.22	0.3	FRF	84.60	3 iPc	36 59.90	1.0	GZH	23.53 342 Pc	37 43.50 0.7
LOR	80.79	5 iPc	36 39.30	0.1		1.0s	40.00nm		5.6mb	WR2	24.24 149 eP	37 48.80 -0.8
	1.2s	52.05nm		5.4mb	BTH	84.63	8 Pd	37 07.40	8.3X		0.3s 34.10nm	5.3mb
Z	20s	0.60um		4.9msz			PcP	37 10.50		LOE	25.35 312 eP	38 00.00 -0.1
NDI	80.80	305 iPc	36 39.00	-0.6			sP	37 23.50		ASPA	27.18 154 iPd	38 16.70 -0.2
	1.0s	55.00nm		5.5mb	LRG	84.70	3 iPc	37 00.60	1.3		0.7s 15.10nm	4.7mb
LOMF	80.82	3 P	36 39.87	0.4		1.0s	28.00nm		5.4mb		e	38 47.90
WTTA	80.96	359 iPc	36 40.90	0.5	EPF	84.77	8 iPc	36 59.90	0.1		eS	42 45.60
	1.6s	99.10nm		5.6mb		1.1s	34.20nm		5.5mb	OIS	27.76 141 eP	38 20.50 -1.6
		i	36 52.40		LMR	84.83	3 iPc	37 01.10	1.1	CHTO	28.30 311 iP	38 28.00 1.0
SSF	80.97	5 iPc	36 40.40	0.2		1.0s	42.00nm		5.6mb		1.1s 35.04nm	4.9mb
	1.2s	56.55nm		5.4mb	LESF	84.85	7 P	37 01.21	1.1	MRWA	30.15 189 iPc	38 43.00 -0.4
KBA	81.13	358 iPc	36 42.10	0.9	ECRI	84.92	10 eP	37 02.00	1.4		0.6s 11.00nm	4.8mb
	1.3s	120.00nm		5.7mb	PGB	84.97	350 eP	36 58.00	-2.8	BAL	31.41 187 iPc	38 53.60 -0.8
		i	36 46.30		ENSF	85.00	8 P	37 02.48	1.4	KLB	32.27 185 iPc	39 01.20 -0.7
		i	36 54.10		VTS	85.02	351 iPd	37 02.00	0.8		0.3s 4.00nm	4.7mb
MFF	81.18	8 eP	36 41.90	0.6	MTHF	85.02	6 P	37 02.21	1.1	NWA0	33.64 186 iPc	39 13.80 0.0
	1.3s	97.50nm		5.6mb	ASS	85.15	359 P	37 01.30	-0.4		0.8s 17.00nm	4.9mb
AVF	81.24	5 eP	36 41.70	0.2	DIM	85.31	349 eP	37 05.00	2.6	CD2	34.30 333 eP	39 19.00 -0.5
	1.2s	59.50nm		5.5mb	EGRA	85.55	8 eP	37 03.50	-0.1	XAN	35.11 342 P	39 26.00 -0.4
LLS	81.35	1 ePd	36 43.60	1.2	PGF	85.67	1 iPc	37 05.20	0.8	TIY	37.72 349 eP	39 47.40 -0.9
SMF	81.41	5 eP	36 42.60	0.1		1.0s	76.00nm		5.9mb	STK	37.72 151 eP	39 50.00 1.7
	1.0s	42.00nm		5.4mb	KDZ	85.72	349 iP	37 06.00	1.5		1.0s 8.80nm	4.6mb
UZD	81.41	355 e(P)	36 41.00	-1.4	KKB	85.75	351 iPd	37 07.00	2.3	LZH	38.73 337 eP	39 58.00 1.1
BGF	81.44	6 eP	36 42.80	0.2	RZN	85.76	350 iPd	37 05.00	0.0		2.0s 35.00nm	4.9mb
	1.2s	62.50nm		5.5mb	MMB	85.96	350 iPd	37 07.00	1.2	ADE	39.07 157 eP	40 00.00 0.4
OSS	81.54	0 ePd	36 44.70	1.3	DUI	86.51	357 P	37 10.30	1.8	LSA	40.62 318 iPc	40 14.00 1.1
FVI	81.62	359 P	36 42.70	-0.8	GUD	86.68	11 eP	37 09.50	0.0	HHC	40.92 349 P	40 15.60 0.8
LSF	81.66	6 iPc	36 44.00	0.2	EPLA	87.00	13 eP	37 11.50	0.6	N	17s 0.63um	
	1.2s	84.80nm		5.6mb	MGR	88.00	356 P	37 14.60	-1.0	BTO	41.00 347 eP	40 15.50 0.0
TCF	81.67	6 iPc	36 44.00	0.1	EVIA	88.85	10 eP	37 20.80	0.9	SNY	41.01 3 Pc	40 15.00 -0.3
	1.0s	14.00nm		4.9mb	HYB	89.31	298 iPc	37 21.50	-0.8	GTA	43.20 336 Pd	40 34.30 0.8
VDL	81.74	1 ePd	36 46.00	1.6		1.0s	35.00nm		5.6mb		1.4s 19.00nm	4.7mb
MAF	81.76	6 iPc	36 44.60	0.3			e	37 33.50		Z	20s 1.83um	5.0msz
	0.8s	12.10nm		5.0mb	ASPA	90.31	230 iPd	37 28.10	1.5	E	16s 1.30um	
MLR	81.86	349 ePc	36 46.00	1.0		1.8s	10.70nm		4.8mb	BWA	43.26 147 eP	40 35.90 2.0
PLDF	82.07	5 P	36 46.90	0.9	POO	90.90	302 iPd	37 29.60	-0.1		e	41 03.00
DIX	82.11	2 ePd	36 48.10	1.6	GBA	93.04	297 Pc	37 38.40	-1.0	CAN	44.24 147 eP	40 42.40 0.5
TMA	82.11	1 ePd	36 47.30	1.0		0.8s	10.10nm		5.3mb		e	41 10.80
MMK	82.15	2 ePd	36 48.50	1.9	TIC	119.90	18 PKP	43 16.10	-0.5	MDJ	44.37 9 eP	40 42.20 -0.5
CTI	82.18	359 P	36 47.50	0.9	KIC	120.23	18 PKP	43 16.80	-0.4	Z	24s 1.51um	4.8mszX
MAIO	82.19	322 eP	36 46.00	-0.8	MTD	141.05	327 ePKP	44 04.40	7.8X	HYB	45.10 294 ePd	40 49.20 0.2
PTJ	82.23	356 eP	36 47.00	0.2	KRI	141.73	330 ePKP	44 01.70	3.8X		1.0s 60.00nm	5.4mb
PYM	82.25	5 P	36 47.50	0.5	BUL	145.15	330 iPKPd	44 03.70	0.0	GBA	45.17 289 Pd	40 49.80 0.4
RSL	82.48	3 P	36 49.22	1.0		0.9s	15.97nm				0.6s 15.50nm	5.0mb
COLF	82.52	5 P	36 49.15	0.8	BFT	149.80	324 e(PKP)	44 16.00	4.9X	WMO	52.28 330 P	41 44.80 0.8
QRX	82.57	2 P	36 49.25	0.6		1.0s	50.00nm				1.0s 15.00nm	5.0mb
RJF	82.60	7 eP	36 49.00	0.3	WIN	150.07	348 iPKPd	44 17.60	6.1X	QUE	59.21 305 eP	42 33.40 -0.7
	1.0s	18.00nm		5.1mb		1.0s	25.00nm				1.2s 531.25nm	6.5mb X
Z	20s	0.75um		5.1msz	SLR	150.47	327 iPKPc	44 25.00	13.0X	GAR	60.06 316 eP	42 39.90 0.3
LPL	82.65	3 iPc	36 50.40	1.2		1.0s	70.00nm			MAIO	67.04 309 eP	43 25.00 -0.4
	0.8s	9.40nm		4.9mb	JOZ	150.60	319 iPKPd	44 18.50	6.5X	KAF	91.69 332 iP	45 36.20 -1.4
LPG	82.67	3 iPc	36 50.80	1.4		0.8s	14.93nm				0.6s 8.40nm	5.2mb
	1.0s	16.00nm		5.0mb	KSR	151.05	329 iPKPc	44 02.50	-10.4X	NUR	92.63 331 eP	45 31.40 -10.6X
LSD	82.72	3 P	36 51.20	1.5		1.0s	30.00nm			NB2	98.96 332 P	46 09.20 -1.7
LBL	82.78	5 P	36 50.80	1.1	PRY	151.84	327 iPKPc	44 21.00	7.0X		1.1s 8.70nm	5.3mb
SSB	82.80	4 P	36 50.44	0.6	SEK	153.07	326 iPKPc	44 24.40	8.7X	ALQ	123.13 46 ePKP	51 28.00 0.3
LFF	82.91	7 eP	36 50.90	0.6		0.7s	30.82nm				0.9s 2.73nm	
	1.2s	50.60nm		5.5mb	VIR	153.11	327 iPKPd	44 25.50	9.7X	ZOBO	162.00 150 PKP	52 34.00 1.5X
CAF	83.02	6 eP	36 51.50	0.6		0.8s	22.39nm				LR	18 24.00
	1.1s	32.95nm		5.3mb	BLF	154.28	328 ePKP	44 24.00	6.6X		S.D. = 0.9 on 38 of 43 obs.	
RSP	83.03	2 P	36 52.02	0.9	FRS	155.16	329 iPKPd	44 28.70	10.4X		% OCT 05, 1991 08h 30m 59.22±0.86s	
BEO	83.05	353 eP	36 50.30	-0.7		0.8s	11.19nm				42.408 N ± 7.1km 19.322 E ± 7.5km	
BNI	83.11	3 P	36 51.10	-0.4			i	44 43.70			DEPTH = 10.0km (geophysicist)	
LPO	83.20	7 eP	36 52.20	0.4							NORTHWESTERN BALKAN REGION (383)	
	1.2s	53.55nm		5.5mb							ML 1.2 (TTG).	
RRL	83.25	3 P	36 54.28	1.9								
BHB	83.34	3 P	36 52.22	-0.3								

05d 08h

TTG 0.05 295 iPg 31 02.36 1.0
 iSg 31 05.14
 ULC 0.45 187 iPg 31 08.18 -0.2
 iSg 31 15.58
 NKY 0.47 330 iPg 31 08.58 -0.2
 iSg 31 15.70
 PVY 0.52 69 iPg 31 09.80 0.1
 iSg 31 17.86
 BRY 0.76 311 iPg 31 13.52 -0.6
 iSg 31 24.60
 S.D. = 0.8 on 5 of 5 obs.

* OCT 05, 1991 08h 56m 04.32±0.83s
 35.815 N ± 7.3km 137.508 E ± 6.9km
 DEPTH = 10.0km (geophysicist)
 EASTERN HONSHU, JAPAN (227)

IIDJ 0.47 135 iPd 56 13.70 -0.2
 S 56 20.30
 MTMJ 0.80 17 iP+ 56 19.90 -0.1
 S 56 30.10
 MAT 0.92 38 iPc 56 21.80 -0.1
 iS 56 33.50
 CHJJ 1.23 79 iP+ 56 27.50 0.3
 S 56 43.50
 TSRJ 1.27 258 iP+ 56 28.00 0.1
 S 56 44.50
 S.D. = 0.3 on 5 of 5 obs.

% OCT 05, 1991 09h 09m 39.41±0.67s
 42.380 N ± 5.4km 19.313 E ± 5.2km
 DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)
 ML 1.9 (TTG).

TTG 0.06 322 iPg 09 43.30 1.6
 iSg 09 46.24
 BDV 0.37 255 iPg 09 47.38 0.3
 iSg 09 53.20
 ULC 0.42 186 iPg 09 48.00 0.0
 iSg 09 54.84
 NKY 0.49 332 iPg 09 49.12 -0.3
 iSg 09 56.94
 PVY 0.53 66 iPg 09 50.16 -0.1
 iSg 09 58.40
 HCY 0.61 277 iPg 09 51.04 -0.6
 iSg 10 00.36
 IVA 0.65 41 iPg 09 52.32 -0.2
 iSg 10 02.66
 BRY 0.77 313 iPg 09 53.80 -0.7
 iSg 10 05.70
 PLE 0.95 4 iPg 09 57.54 -0.1
 iSg 10 11.90
 S.D. = 0.8 on 9 of 9 obs.

% OCT 05, 1991 09h 11m 19.75±0.94s
 42.386 N ± 8.3km 19.303 E ± 4.8km
 DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)
 ML 1.2 (TTG).

TTG 0.05 324 iPg 11 22.20 0.3
 iSg 11 24.08
 BDV 0.37 254 iPg 11 27.46 0.2
 iSg 11 33.18
 NKY 0.48 332 iPg 11 29.68 0.1
 iSg 11 36.36
 PVY 0.54 67 iPg 11 30.58 -0.1
 iSg 11 38.64
 HCY 0.60 276 iPg 11 31.60 -0.3
 iSg 11 33.00 0.1
 IVA 0.65 42 iPg 11 42.52
 BRY 0.76 313 iPg 11 34.56 -0.1
 iSg 11 45.66
 PLE 0.95 4 iPg 11 37.76 -0.1
 iSg 11 51.98
 S.D. = 0.2 on 8 of 8 obs.

% OCT 05, 1991 09h 52m 46.78±0.68s
 45.493 N ± 7.0km 2.270 E ± 8.8km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 2.4 (LDG).

RJF 0.56 251 Pg 52 57.80 -0.4
 Sg 53 06.00
 CAF 0.59 194 Pg 52 57.40 -1.3

MAF 0.76 16 Pg 53 04.40
 Sg 53 08.70 -0.9
 TCF 0.80 357 Pg 53 11.00
 Sg 53 01.40 -0.9
 LSF 0.92 326 Pg 53 12.40
 Sg 53 04.00 -0.3
 LPO 1.12 224 Pg 53 16.40
 Sg 53 08.00 0.3
 BGF 1.14 20 Pg 53 25.60
 Sg 53 07.60 -0.5
 LFF 1.21 243 Pg 53 22.60
 Sg 53 10.80 1.4
 AVF 1.50 30 Pg 53 26.20
 Sg 53 15.80 0.1
 SMF 1.59 43 Pn 53 33.40
 Pg 53 15.50 -1.5
 SSF 1.79 28 Pg 53 15.00
 Sg 53 18.80 0.9
 LBF 1.91 38 Pg 53 40.80
 Sg 53 20.80 1.2
 LOR 2.09 31 Pg 53 45.20
 Sg 53 24.20 1.9
 Sg 53 50.20
 S.D. = 1.2 on 13 of 13 obs.

% OCT 05, 1991 09h 57m 44.07±1.32s
 42.389 N ± 8.5km 19.859 E ± 9.1km
 DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)
 ML 2.2 (TTG).

PVY 0.22 22 ePg 57 48.70 -0.2
 eSg 57 53.00
 TTG 0.44 275 ePg 57 53.00 -0.1
 eSg 58 00.20
 IVA 0.48 3 ePg 57 54.20 0.3
 eSg 58 01.50
 ULC 0.62 227 ePg 57 56.60 0.0
 eSg 58 07.00
 NKY 0.76 304 ePg 57 59.60 0.5
 eSg 58 11.10
 BDV 0.77 262 ePg 57 59.40 0.3
 iSg 58 12.00
 HCY 1.01 274 ePg 58 03.20 0.0
 eSg 58 20.00
 BRY 1.10 298 ePg 58 04.00 -0.8
 eSg 58 22.00
 S.D. = 0.5 on 8 of 8 obs.

& OCT 05, 1991 10h 06m 13.70s
 40.740 N 121.580 W
 DEPTH = 11.0km
 NORTHERN CALIFORNIA (36)
 <BRK>. ML 3.1 (BRK). Felt (III)
 at Hot Creek.

MIN 0.40 183 iPd 06 20.88 -1.0
 eS 06 25.89
 LBFM 0.65 339 iPd 06 25.31 -1.4
 LTCM 0.67 218 eP 06 26.22 -0.8
 WDC 0.75 258 iPd 06 27.08 -1.2
 iS 06 37.19
 ORV 1.18 177 iPc 06 34.66 -1.1
 iS 06 51.69
 FHC 1.83 273 iPc 06 46.15 0.8
 eS 07 10.00
 FOX 1.85 264 iPc 06 46.57 1.0
 CMB 2.86 161 iPd 07 08.43 8.4
 8 obs. associated

& OCT 05, 1991 10h 14m 14.40s
 40.757 N 121.555 W
 DEPTH = 9.0km
 NORTHERN CALIFORNIA (36)
 <BRK>. ML 3.0 (BRK).

MIN 0.41 185 iPd 14 21.70 -1.2
 eS 14 27.72
 LBFM 0.64 337 iPd 14 26.19 -1.1
 LTCM 0.70 219 eP 14 27.10 -1.2
 WDC 0.77 257 iPc 14 27.88 -1.6
 iS 14 38.13
 ORV 1.20 178 iPc 14 35.54 -1.3
 eS 14 52.40
 FHC 1.85 272 eP 14 46.60 0.1
 FOX 1.87 264 iPc 14 49.96 3.1
 7 obs. associated

& OCT 05, 1991 10h 36m 20.52s
 41.930 N 125.557 W
 DEPTH = 5.0km (geophysicist)
 OFF COAST OF NORTHERN CALIFORNIA (34)
 <SEA>.

DBO 2.08 54 P 36 49.42 -7.2
 HSO 2.42 48 Pd 36 53.97 -7.5
 LBFM 2.81 101 eP 37 01.00 -6.2
 HBO 3.05 50 P 37 04.19 -6.3
 VBEM 4.26 41 P 37 21.04 -6.6
 VIPM 4.43 53 P 37 22.93 -7.2
 6 obs. associated

& OCT 05, 1991 10h 39m 19.40s
 50.714 N 130.384 W
 DEPTH = 10.0km (geophysicist)
 4.6mb (15 obs.) 4.1MsZ (1 obs.)
 VANCOUVER ISLAND REGION (25)
 <PGC>.

SJB 1.29 342 P 39 42.50 -0.7
 BPBC 1.76 107 Pc 39 49.28 -0.9
 S 40 08.88
 PHC 1.88 89 Pc 39 51.94 0.2
 S 40 15.72
 BBB 2.05 43 Pd 39 54.60 0.4
 S 40 19.00
 EDB 2.26 111 P 39 56.21 -1.1
 SKB 2.73 339 P 40 03.30 -0.7
 ETB 2.82 117 P 40 04.33 -0.9
 GDR 2.95 107 Pc 40 06.42 -0.6
 CBB 3.28 100 P 40 11.96 0.1
 BTB 3.37 110 Pc 40 12.66 -0.6
 OZB 3.62 117 P 40 15.38 -1.3
 ALB 3.86 110 Pc 40 19.57 -0.5
 MGB 4.06 113 P 40 21.75 -1.3
 SHB 4.33 102 Pc 40 26.68 -0.2
 NAB 4.38 107 P 40 26.33 -1.1
 PFB 4.42 117 P 40 27.22 -0.8
 WPB 4.73 100 P 40 32.25 -0.2
 OTR 4.74 121 P 40 33.53 0.9
 BIB 4.74 103 P 40 31.87 -0.7
 WHB 4.79 94 P 40 33.57 0.3
 OFK 4.81 123 P 40 34.18 0.6
 OBC 4.91 121 P 40 36.13 1.0
 PGC 4.95 112 P 40 35.00 -0.5

1.1s 14.40nm
 OOW 5.03 124 P 40 37.62 0.9
 SNB 5.06 110 P 40 37.56 0.4
 STW 5.08 118 P 40 37.47 0.2
 VGZ 5.14 114 P 40 38.35 0.2
 HNB 5.24 103 P 40 39.33 -0.2
 OSD 5.25 121 P 40 40.38 0.5
 MCW 5.31 110 P 40 41.20 0.6
 OBH 5.47 126 P 40 43.61 0.8
 BLN 5.55 116 P 40 44.89 0.9
 VDB 5.62 104 P 40 45.39 0.5
 OHW 5.65 112 P 40 46.44 1.1
 HDW 5.70 120 P 40 46.77 0.6
 MBW 5.83 106 P 40 48.66 0.6
 CMW 5.84 110 P 40 48.80 0.6
 PGW 5.86 117 P 40 49.72 1.4
 GMW 5.91 120 P 40 50.24 1.2
 JCW 6.06 111 P 40 51.35 0.1
 CPW 6.07 125 P 40 52.12 0.7
 BLH 6.18 115 P 40 53.46 0.7
 MEW 6.19 122 P 40 54.96 2.0
 RPW 6.20 108 P 40 53.52 0.4
 SPW 6.21 117 P 40 55.20 2.0
 HTW 6.35 114 P 40 55.49 0.2
 BMW 6.36 129 P 40 56.65 1.1
 RMW 6.51 117 P 40 59.30 1.7
 NLO 6.54 132 P 41 00.18 2.2
 GSM 6.66 119 P 41 01.26 1.5
 RVC 6.71 121 P 41 01.59 1.1
 CZM 6.75 126 P 41 02.25 1.2
 RVW 6.83 129 P 41 03.63 1.6
 KMOR 6.86 135 P 41 03.42 0.9
 REMR 6.86 121 P 41 03.46 0.9
 FMW 6.88 120 P 41 04.47 1.5
 KOSW 6.90 125 P 41 04.49 1.4
 LON 6.92 122 P 41 04.21 0.9
 TDL 6.96 126 P 41 04.97 1.0
 SIT 6.99 337 e(P) 41 05.50 1.3
 STD 7.03 126 P 41 06.39 1.4

LVP	7.06	128	P	41 06.96	1.7	PLM	19.99	145	eP	43 59.00	4.1	10.144 N ± 9.7km	126.266 E ± 18.3km
SHW	7.06	127	P	41 06.70	1.4	BAR	20.66	145	eP	44 04.00	2.2	DEPTH = 33.0km	(normal)
NLW	7.07	108	P	41 05.72	0.2	GOL	20.68	113	e(P)	44 01.80	-0.4	4.4mb (5 obs.)	
PNT	7.08	97	P	41 06.00	0.5		0.8s					PHILIPPINE ISLANDS REGION	(248)
	1.4s			12.60nm		GLD	20.73	112	eP	44 05.10	2.4		
ESD	7.10	126	P	41 07.08	1.2	GLA	21.03	141	eP	44 08.00	2.4	DAV	3.11 193 eP 10 56.00 13.4X
HSR	7.10	127	P	41 08.24	2.3	ANMO	23.43	123	ePc	44 32.60	3.0	GUMO	18.52 78 eP 13 42.00 -28.5X
MTMW	7.18	128	P	41 08.31	1.2		0.9s		14.71nm		4.5mb	SSE	21.37 348 eP 14 42.50 1.0
CDWF	7.20	126	P	41 08.70	1.4	ALQ	23.44	123	ePc	44 32.10	2.5	CHTO	27.79 291 eP 15 42.90 0.0
ETW	7.29	111	P	41 08.96	0.4		1.1s		20.57nm		4.6mb		1.0s 1.75nm 3.7mb
BDBC	7.30	38	P	41 09.70	1.1							QIS	33.21 157 eP 16 28.00 -2.9X
			S	42 31.00		MBC	26.00	6	eP	44 57.00	3.5		i 16 41.00
TBM	7.35	115	P	41 09.96	0.5		1.5s		39.00nm		4.9mb	MRWA	40.37 194 eP 17 31.00 -0.2
CBWS	7.37	109	P	41 09.90	0.3	SIO	28.68	108	eP	45 21.80	3.5		i 17 43.00
ASR	7.42	125	P	41 11.68	1.3	TUL	28.88	107	eP	45 21.60	1.5	MUN	42.97 193 eP 17 52.00 -0.5
DHW2	7.45	107	P	41 10.78	0.0		1.0s		14.10nm		4.7mb		i 18 04.60
PGO	7.47	132	P	41 13.40	2.5	Z	18s		0.43um		4.1msz	NWAO	43.69 191 eP 17 59.00 0.7
WTV	7.47	110	P	41 11.29	0.3				LR	57 09.00			e 18 11.00
NAC	7.47	119	P	41 12.05	1.0	YAK	51.02	323	eP	48 24.70	1.7	STK	44.29 161 eP 18 03.50 0.3
EBG	7.51	117	P	41 12.15	0.5	BUL	145.27	36	iPKPd	59 06.50	7.5		1.1s 2.00nm 3.9mb
GULW	7.57	126	P	41 14.30	1.9		1.0s		5.50nm			HYB	46.80 284 eP 18 23.80 0.4
MNB	7.65	74	P	41 15.00	1.3							GBA	47.85 279 Pc 18 31.70 0.0
APM	7.65	127	P	41 16.17	2.6								0.5s 2.90nm 4.6mb
SLEB	7.76	82	P	41 15.00	-0.2							KAF	85.74 332 iP 22 30.30 -1.2
SAW	7.80	108	P	41 15.65	0.0								0.5s 3.50nm 4.8mb
VTG	7.82	115	P	41 15.38	-0.5							NUR	86.91 331 eP 22 36.70 -0.5
VLL	7.84	129	P	41 18.54	2.2							NB2	92.87 334 P 23 08.50 3.2X
EPH	7.85	111	P	41 16.20	-0.1								1.0s 3.20nm 4.7mb
MXC	7.86	118	P	41 16.74	0.3								S.D. = 0.7 on 10 of 14 obs.
BVW	7.96	115	P	41 18.15	0.3	HUR	0.36	100	iP	56 32.69	-0.3		
BRVW	8.08	118	P	41 19.69	0.1								OCT 05, 1991 12h 47m 45.77± 0.33s
MDW	8.14	116	P	41 19.66	-0.7	TRF	0.41	7	iP	56 33.28	-0.2		43.953 N ± 4.3km 11.762 E ± 3.1km
WAH2	8.17	115	P	41 19.87	-0.9								DEPTH = 11.8 ± 2.9 km
VBEM	8.18	130	P	41 22.95	1.9	KTH	0.56	336	iP	56 34.25	-0.2		CENTRAL ITALY (381)
CRF	8.24	114	P	41 20.49	-1.2								ML 3.3 (LDG). Felt (1) at Florence.
VGB	8.27	125	eP	41 23.00	0.8	CUT	0.64	174	iP	56 34.85	-0.1	SFI	0.07 116 Pc 47 48.10 -0.3
LOCW	8.27	115	P	41 22.36	0.2	RND	0.79	62	iP	56 36.04	-0.4		eSg 47 49.00
WRD	8.31	112	P	41 21.71	-1.0	MCK	0.96	43	eP	56 38.14	0.0	PGD	0.08 201 Pc 47 48.30 -0.4
GBL	8.32	115	P	41 22.84	0.0								eSg 47 50.80
OD2	8.36	109	P	41 22.54	-0.9	SKT	1.19	207	iP	56 40.05	-0.6	CRE	0.35 157 P 47 53.30 0.1
PRW	8.41	118	P	41 25.38	1.2								eSg 47 59.50
DPW	8.46	105	P	41 24.51	-0.3	BWN	1.21	20	eP	56 40.64	-0.3	MME	0.80 288 P 48 01.40 0.0
NEW	8.98	101	eP	41 30.60	-1.4	PWA	1.42	170	eP	56 43.50	0.1		eSg 48 14.70
VIPM	9.05	130	P	41 34.25	1.1	GHO	1.45	151	eP	56 43.73	-0.2	BDI	0.85 278 P 48 01.60 -0.4
LNOR	9.41	116	P	41 37.61	-0.3	SML	1.57	141	eP	56 44.65	-0.7		eSg 48 14.00
LBFM	11.06	145	eP	42 06.00	5.2							ARV	0.97 118 P 48 04.40 0.4
SES	12.31	84	P	42 18.00	0.5	PLRM	1.57	157	eP	56 44.68	-0.6		eSg 48 20.00
	2.6s			4.00nm		PMR	1.57	157	eP	56 46.10	0.8	ASS	1.10 143 P 48 06.50 0.2
ORV	12.79	147	eP	42 27.50	3.6	SUA	1.59	186	eP	56 45.78	0.1		eSg 48 26.00
LRM	12.90	105	eP	42 25.50	-0.2	NEA	1.65	20	eP	56 45.36	-1.0	MNS	1.71 156 P 48 16.50 1.0
HPI	13.66	114	eP	42 37.12	1.4	WRH	1.77	35	iP	56 46.82	-1.0	SAL	1.87 332 P 48 18.00 0.1
KLU	13.80	327	eP	42 40.62	3.3	NCG	1.84	207	eP	56 48.31	-0.5		eSn 48 42.00
TOA	14.32	329	e(P)	42 53.10	9.0	PMS	1.85	167	eP	56 48.17	-0.7	VVI	2.08 13 P 48 20.30 -0.7
CMB	14.53	147	e(P)	42 53.30	6.4	KNK	1.87	150	eP	56 48.61	-0.6		eSn 48 47.30
	1.1s			17.65nm		SCM	1.88	129	eP	56 50.09	0.8	CTI	2.10 358 P 48 21.00 -0.2
PTI	14.60	116	e(P)	42 50.00	2.1	CGLM	1.90	204	eP	56 49.53	-0.1		eSn 48 47.40
YKA	14.60	30	eP	42 47.80	0.2	CCB	1.98	34	iP	56 49.44	-1.1	TRI	2.26 38 P 48 22.20 -1.3
	0.9s			9.30nm		BGL	2.01	208	eP	56 51.92	0.8	RIY	2.33 52 ePn 48 24.10 -0.4
ARN	14.78	151	eP	42 54.40	4.2	HDA	2.06	47	iP	56 50.49	-1.1	PGF	2.46 236 Pn 48 26.00 -0.4
PMR	15.03	324	eP	42 54.70	1.6	MDM	2.15	26	iP	56 51.81	-1.1		Sn 48 54.00
HVU	15.08	120	P	42 57.30	3.1	TOA	2.17	114	eP	56 53.10	-0.1	CKI	2.55 282 P 48 28.80 1.2
PWA	15.35	323	eP	43 06.50	9.2		0.6s		127.50nm			VOY	2.57 35 ePn 48 27.10 -0.9
	1.1s			50.10nm									eSn 49 00.90
RSO	15.89	316	eP	43 09.60	5.0	FBA	2.19	31	eP	56 52.80	-0.6	CEY	2.60 46 ePn 48 28.50 0.1
RND	16.12	329	eP	43 13.85	6.5	PAX	2.25	90	eP	56 53.69	-0.6		eSn 49 03.90
BW06	16.30	111	ePc	43 13.50	3.5	SDG	2.29	101	eP	56 54.30	-0.5	FVI	2.74 15 P 48 30.00 -0.3
	0.9s			26.84nm		DJE	2.34	63	eP	56 54.03	-1.3	LJU	2.87 42 e(Pn) 48 32.00 -0.2
DAU	16.85	120	eP	43 18.97	1.9	GLM	2.36	33	iP	56 54.70	-1.0		e 48 33.40
FBA	16.88	334	eP	43 25.20	8.3	TZL	2.52	111	eP	56 58.13	0.4	VBV	2.93 57 ePn 48 34.30 1.2
	1.3s			28.30nm		SLKM	2.55	178	eP	56 58.09	-0.1		iSn 49 08.50
BCH	17.23	150	eP	43 27.40	5.8	TTA	2.56	270	eP	56 57.60	-0.8	OGA	2.96 350 ePn 48 34.40 0.8
FFC	17.61	66	eP	43 29.00	2.9	KLU	2.61	125	eP	56 57.31	-1.8	OSS	2.96 338 ePc 48 35.50 1.9
	0.9s			29.00nm		RDT	2.65	202	eP	56 59.95	0.3	TMA	2.97 317 ePd 48 34.30 0.5
INK	17.72	356	eP	43 32.00	4.7	RDN	2.77	205	eP	57 01.16	-0.2	VDL	3.01 328 ePd 48 35.30 1.0
MSU	17.74	126	eP	43 30.00	1.8	RDW	2.81	205	eP	57 01.52	-0.4	SBF	3.13 270 Pn 48 35.40 -0.5
SYP	17.87	151	eP	43 40.00	10.4	FID	2.96	139	eP	57 01.53	-2.2		Sn 49 12.00
GSC	18.28	142	eP	43 39.00	4.3	KNIM	2.99	154	eP	57 01.77	-2.3	WTTA	3.31 359 iPnd 48 39.60 1.0
SBB	18.44	145	eP	43 44.00	7.3	LTI	3.25	157	eP	57 05.25	-2.4		i 48 49.00
TTA	18.45	321	eP	43 43.50	7.0	IMA	3.35	337 (P)		57 01.40	-7.8		iSn 49 20.60
MWC	18.78	147	eP	43 45.00	4.1	GLB	3.48	115	eP	57 09.29	-1.6		i 49 26.90
PAS	18.81	147	eP	43 44.00	3.0	CNPM	3.55	187	eP	57 10.85	-1.0		i 49 36.10
RSSD	18.95	100	eP	43 42.70	-0.3	HMT	3.99	130	eP	57 16.27	-1.6	KBA	3.32 19 iPnc 48 38.30 -0.4
	0.7s			31.14nm		BALM	4.30	114	eP	57 19.65	-2.5		iPg 48 52.20
RVR	19.23	145	eP	43 48.00	1.8	WAX	4.43	123	eP	57 21.59	-2.4		iSn 49 21.00
PEC	19.40	145	eP	43 50.00	1.7								
IMA	19.45	331	eP	43 51.60	2.9								
	1.7s			96.40nm									
					4.8mb								

05d 12h

LLS	3.51	327	ePc	48	43.20	1.8		0.9s	138.41nm	5.5mb	EKA	149.32	4	PKP	28	26.00	4.2X		
PTJ	3.56	55	eP	48	48.90	6.9X	PMO	31.65	78	iP	15	16.80	-0.4		1.1s	16.00nm			
FRF	3.73	266	Pn	48	44.20	-0.2		0.8s	30.00nm	4.9mb	KRA	150.32	334	iPKPd	28	28.60	5.2X		
DIX	3.75	306	ePc	48	46.70	1.8	VAH	31.80	79	iP	15	18.40	0.0	KSP	151.03	338	iPKPd		
BHG	3.85	11	ePn	48	47.00	0.9		0.8s	20.00nm	4.7mb				i	28	41.20	6.6X		
LMR	3.86	263	Pn	48	46.00	-0.3	TOO	32.00	238	iPd	15	21.10	1.0		e	30	41.00		
LPG	3.89	295	Pn	48	46.90	0.0		0.6s	21.00nm	4.8mb	CLL	151.61	343	iPKPd	28	32.10	6.8X		
LPL	3.91	295	Pn	48	47.00	-0.2	RUV	32.04	79	iP	15	19.90	-0.6		1.0s	26.00nm			
			Sn	49	32.80			0.8s	30.00nm	4.9mb				i	28	42.60			
LRG	3.95	265	Pn	48	45.80	-1.6	QLP	32.21	259	iPd	15	22.40	0.5	BRG	151.74	341	iPKP		
			Sn	49	30.80			0.4s	121.00nm	5.8mb			0.8s	20.00nm		28	32.20	6.7X	
EMS	4.03	303	ePc	48	51.50	2.8	TAU	32.37	228	iPd	15	24.00	0.9		i	28	43.50		
BSF	5.20	320	Pn	49	05.40	0.0	BFD	34.21	240	iPd	15	38.00	-0.6	PRU	152.34	340	ePKP		
			Sn	50	03.20			0.8s	43.00nm	5.0mb			e	28	46.20	6.6X			
KHC	5.33	13	Pn	49	04.50	-2.6	STK	34.41	249	iPd	15	43.30	3.0X	MOX	152.58	344	ePKP		
			eSn	49	39.20			0.5s	27.80nm	5.0mb			e	28	47.00	7.8X			
			Sg	50	04.80				iScP	18	05.20		ZST	152.93	334	e(PKP)	28	49.30	22.0X
CDF	5.44	327	Pn	49	07.20	-1.5	PMG	34.75	290	eP	15	43.00	-0.3	KHC	153.39	340	ePKP		
			Sn	50	08.40			1.0s	88.00nm	5.2mb			e	28	56.00	7.7X			
HAU	5.54	319	Pn	49	08.80	-1.2	ADE	37.00	244	eP	16	01.90	0.1		S.D. = 1.1	on 79 of 99 obs.			
			Sn	50	10.50			0.5s	140.85nm	5.8mb				% OCT 05, 1991	13h 09m	47.65±1.13s			
SMF	6.20	298	Pn	49	18.40	-0.9	QIS	37.40	268	iPd	16	04.90	-0.2		43.918 N ±13.0km	11.715 E ±9.6km			
LBF	6.26	302	Pn	49	20.00	-0.2	RKT	41.07	97	iP	21	12.00			DEPTH = 10.0km	(geophysicist)			
			Sn	50	29.00			1.0s	20.00nm	4.6mb				CENTRAL ITALY	(381)				
PRU	6.33	16	eP	49	40.50	19.4X	ASPA	41.89	262	iPd	16	41.40	-0.2	PGD	0.04	173	Pc		
			Sg	50	30.80			0.5s	61.00nm	5.4mb			eSg	09	49.40	-0.5			
LOR	6.46	304	Pn	49	22.40	-0.6	WR2	42.31	267	iPc	16	44.30	-0.6	SFI	0.10	88	P		
			Sn	50	33.00			0.4s	137.60nm	5.8mb			eSg	09	51.20	-1.1			
SSF	6.58	301	Pn	49	24.00	-0.7			iScP	21	32.50		CRE	0.34	149	P			
			Sn	50	36.80		FORR	45.97	250	iPd	17	12.30	-1.0		eSg	10	00.90	0.3	
BGF	6.81	296	Pn	49	26.40	-1.5	MTN	47.50	275	eP	17	23.90	-1.3	MME	0.78	291	P		
	S.D. = 1.1	on 45 of 47 obs.					KNA	48.64	270	iPd	17	33.40	-0.4		eSg	10	18.50	1.7	
							COOL	51.90	249	iPd	17	56.00	-1.8	ARV	0.98	115	P		
								0.4s	16.00nm	4.7mb			eSg	10	21.00	3.5X			
							KLB	54.66	248	iPd	18	16.00	-1.4	ASS	1.09	141	P		
								0.4s	31.00nm	5.0mb			S.D. = 1.5	on 5 of 6 obs.					
							RKG	54.84	244	iPc	18	17.70	-0.9		OCT 05, 1991	13h 10m	56.13±0.78s		
							NWAO	54.89	246	iPc	18	18.00	-1.0		33.951 N ±9.1km	117.614 W ±7.4km			
								0.9s	18.00nm	4.4mb				DEPTH = 5.0km	(geophysicist)				
							BAL	55.72	249	iPd	18	23.40	-1.4		SOUTHERN CALIFORNIA	(43)			
								0.4s	32.00nm	5.0mb				ML 2.5 (GS). Felt (IV) at					
							MUN	55.90	247	iPd	18	25.00	-1.1		Ontario and (III) at Norco.				
								0.8s	28.00nm	4.6mb				SSK	0.27	346	iPd		
							MRWA	56.59	250	iPd	18	29.80	-1.1		PEC	0.38	99	iPc	
								0.5s	16.00nm	4.6mb				PLM	0.87	133	iPc		
							SPA	65.44	180	iPd	19	29.90	1.2		ABL	1.60	304	eP	
								0.8s	18.33nm	4.8mb				BCH	2.38	302	eP		
							MAT	72.55	326	iPd	20	10.40	-0.9		GLA	2.50	110	ePn	
								0.9s	16.81nm	4.6mb				MSU	6.33	42	e(P)		
							MAW	76.99	200	iP	20	36.80	1.2		S.D. = 0.6	on 7 of 7 obs.			
							SYN	81.93	46	eP	21	03.00	0.8		% OCT 05, 1991	14h 20m	38.30±2.11s		
							MDJ	82.92	326	eP	21	07.50	0.8		46.356 N ±8.1km	8.301 E ±18.5km			
							PLM	83.32	49	eP	21	10.00	0.7		DEPTH = 10.0km	(geophysicist)			
							SBB	83.45	47	eP	21	10.00	0.3		SWITZERLAND	(544)			
							WHN	83.47	308	eP	21	10.50	0.7		ML 2.4 (LDG).				
							CLC	84.26	46	eP	21	14.00	0.3		LPL	1.38	233	Pn	
							GSC	84.49	47	eP	21	16.00	1.2			Sn	21	04.00	0.2
							CN2	84.52	324	Pd	21	15.00	0.3		LPG	1.38	232	Pn	
								1.4s	50.00nm	5.0mb					Sn	21	03.80	-0.1	
							GLA	84.56	50	eP	21	17.00	1.8		BSF	1.80	326	Pn	
							TIA	84.77	314	Pd	21	15.60	-0.5			Sn	21	09.40	-0.3
							TIY	88.72	313	Pd	21	35.80	0.9						
							XAN	89.22	308	P	21	38.50	1.2		HAU	2.12	322	Pn	
								0.8s	11.00nm	4.8mb					Sn	21	15.00	0.7	
							CHG	89.94	291	ePd	21	42.30	1.5						
								1.0s	25.00nm	5.1mb				CDF	2.17	342	Pn		
							CHTO	89.94	291	iPd	21	42.50	1.7			Sn	21	14.80	-0.3
								1.0s	21.00nm	5.0mb									
							CD2	91.50	303	eP	21	47.00	-0.8		LBF	3.04	283	Pn	
								1.0s	28.00nm	5.2mb					Sn	21	27.60	0.2	
							GTA	98.19	310	eP	22	18.60	0.4		SMF	3.09	277	Pn	
							KAF	138.60	342	iPKP	27	54.70	-8.8X		LOR	3.18	288	Pn	
								0.6s	2.80nm						Sn	21	30.00	0.6	
							NUR	140.37	341	ePKP	27	58.70	-8.0X		SSF	3.37	284	Pn	
							UPP	142.77	345	iPKP	28	06.60	-4.3X		AVF	3.44	279	Pn	
							NB2	142.87	351	PKP	28	07.10	-4.1X		BGF	3.78	275	Pn	
								0.8s	9.80nm										
							HFS	143.33	349	ePKP	28	08.40	-3.5X		S.D. = 0.6	on 11 of 11 obs.			
								0.4s	32.40nm					% OCT 05, 1991	14h 29m	11.52±3.14s			
							KAS	147.42	309	iPKPd	28	22.80	3.4X		61.472 N ±9.8km	4.223 E ±27.4km			
							HRI	147.70	294	iPKPd	28	24.10	4.0X		DEPTH = 10.0km	(geophysicist)			
							JVI	148.14	291	iPKPd	28	25.20	4.4X		SOUTHERN NORWAY	(535)			
							RMN	148.84	288	iPKPd	28	27.00	5.0X		MD 1.8 (BER).				
														SUE	0.49	148	iP		
															eS	29	21.61	0.1	
														HYA	1.00				

ASK	1.10	154	iS	29	46.11		HOF	4.19	348	ePn	57	34.80	0.1	KAF	90.99	332	iP	17	57.20	-0.6
			eP	29	31.98	-0.2	MOX	4.55	347	ePn	57	39.50	-0.4		0.6s		4.60nm			4.7mb
			eS	29	49.26				iSn	58	31.00		NUR	92.08	331	eP	17	59.90	-2.9	
EGD	1.30	157	eP	29	35.63	0.1	LPG	4.62	263	Pn	57	40.70	-0.4	NB2	98.18	334	P	18	30.80	0.0
			eSg	29	55.44		CDF	4.63	300	Pn	57	40.40	-0.7		0.7s		3.60nm			5.0mb
MOL	1.92	53	eP	29	44.50	0.0			Sn	58	33.40			S.D. = 1.0 on 32 of 34 obs.						
			eS	30	10.22		LPL	4.63	263	Pn	57	40.80	-0.4	? OCT 05, 1991 16h 05m 47.50±5.70s						
S.D. = 0.2 on 5 of 5 obs.							BRG	4.66	5	ePg	57	56.00	14.5X	37.736 N ±56.1km 71.123 E ±20.4km						
OCT 05, 1991 14h 56m 29.42±0.32s									iSn	58	33.00		DEPTH = 33.0km (normal)							
46.236 N ± 3.3km 13.278 E ± 3.2km									iSg	58	57.00		4.6mb (1 obs.)							
DEPTH = 10.0km (geophysicist)						BSF	4.71	292	Pn	57	41.20	-1.2	AFGHANISTAN-TAJIKISTAN BORD REG.(717)							
AUSTRIA (546)									Sn	58	35.60		QUE	8.29	206	eP	07	48.50	0.0	
ML 3.5 (VIE), 3.3 (LDG), 3.1						SBF	4.77	242	Pn	57	41.70	-1.4				eS	09	06.00		
(ZAG), MD 3.4 (LJU), 3.0 (TRI).									Sn	58	36.40		NDI	10.37	149	eP	08	17.00	0.0	
VOY	0.47	115	iPg	56	38.00	-1.1	PGF	4.79	221	Pn	57	40.60	-2.9X	GKN	14.92	127	P	09	17.84	-0.1
			eSg	56	45.30				Sn	58	36.00		KKN	15.48	126	P	09	24.86	-0.4	
FVI	0.50	316	Pc	56	38.70	-0.8	KSP	5.03	22	eP	58	00.00	13.4X		0.4s		19.00nm			4.6mb
			eSg	56	46.00				e	58	37.40		DMN	15.49	127	P	09	25.40	0.0	
TRI	0.63	147	iPg	56	40.40	-1.6	HAU	5.05	293	Pn	57	45.60	-1.4	PKI	15.71	126	P	09	28.54	0.2
			iSg	56	50.90				iSg	59	08.40		GUN	15.79	124	P	09	29.56	0.2	
VVI	0.65	247	P	56	42.40	0.0	CLL	5.08	358	ePn	57	47.00	-0.4	S.D. = 0.2 on 7 of 7 obs.						
			eSg	56	53.70				eSg	59	11.00		* OCT 05, 1991 16h 24m 29.80±0.55s							
KBA	0.84	3	iPg	56	45.10	-0.7	LRG	5.65	243	Pn	57	54.00	-1.4	43.949 N ± 5.9km 11.717 E ± 6.1km						
			i	56	54.00		LBF	6.45	280	Pn	58	05.20	-1.6	DEPTH = 10.0km (geophysicist)						
LJU	0.89	102	ePg	56	45.90	-0.7	SMF	6.54	277	Pn	58	06.00	-2.0	CENTRAL ITALY (381)						
			eSg	56	59.00		AVF	6.87	278	Pn	58	10.60	-2.0							
CEY	0.94	121	ePg	56	45.90	-1.5	S.D. = 1.2 on 46 of 55 obs.							PGD	0.07	178	Pc	24	31.60	-0.8
			eSg	57	00.50		OCT 05, 1991 16h 05m 12.60±2.31s									eSg	24	33.90		
CTI	1.15	261	P	56	52.40	1.4	4.084 N ± 6.0km 126.080 E ±12.8km						SFI	0.10	106	P	24	31.40	-1.1	
			eSg	57	10.00		DEPTH = 173.9 ± 21.9 km									eSg	24	33.30		
RIY	1.18	139	ePg	56	52.10	0.7	4.7mb (18 obs.)						CRE	0.36	152	P	24	36.60	-0.7	
			iSg	57	08.50		TALAUD ISLANDS, INDONESIA (263)									eSg	24	43.00		
SCE	1.35	307	ePg	56	54.60	0.3	TSM	8.19	272	eP	07	08.50	-0.9	MME	0.77	289	P	24	45.20	0.2
BHG	1.51	350	eP	56	58.60	2.1	WR2	25.23	161	iPc	10	23.10	-1.1				eSg	24	57.50	
WTTA	1.53	313	iPg	56	57.90	1.0		0.3s		12.00nm		5.0mb	BDI	0.82	278	P	24	45.60	-0.1	
			i	56	58.60				eS	14	23.40					eSg	24	57.50		
			iSg	57	19.30		ASPA	28.62	165	iPc	10	55.00	0.1	ARV	1.00	116	P	24	49.40	0.7
VBV	1.56	117	ePn	56	58.20	0.9		0.8s		10.10nm		4.6mb				eSn	25	04.70		
			iSg	57	19.20		CHG	30.29	301	eP	11	10.90	1.2	ASS	1.11	142	P	24	51.90	1.2
OGA	1.68	293	iPc	57	01.10	1.9	CHTO	30.29	301	eP	11	10.10	0.4				eSg	25	07.50	
PTJ	1.90	99	ePn	57	03.90	1.7		0.7s		6.04nm		4.4mb	MNS	1.71	155	P	25	00.50	0.6	
			iSn	57	28.10		XAN	33.81	334	P	11	39.40	-0.8	CTI	2.10	359	P	25	06.20	0.7
ZAG	1.93	102	i(Pn)	57	04.00	1.4		0.6s		3.00nm		4.2mb				eSn	25	30.60		
			iSg	57	30.80								FVI	2.75	15	P	25	14.00	-0.7	
SAL	2.02	253	P	57	05.00	1.1	MRWA	34.50	196	iPc	11	46.00	0.0				eSn	25	46.20	
			eSn	57	31.00			0.4s		4.00nm		4.5mb	S.D. = 0.9 on 10 of 10 obs.							
OSS	2.21	283	ePc	57	10.00	3.1X	FORR	34.79	177	iPd	11	48.30	-0.1	* OCT 05, 1991 17h 06m 55.42±3.88s						
SFI	2.53	204	P	57	10.90	-0.2		0.3s		12.00nm		5.1mb	33.141 S ±11.5km 71.922 W ±29.9km							
PGD	2.61	206	P	57	12.20	-0.3	COOL	35.09	187	eP	11	50.50	-0.5	DEPTH = 20.8 ± 9.1 km						
VDL	2.65	277	ePc	57	17.90	4.8X		0.4s		4.00nm		4.5mb	NEAR COAST OF CENTRAL CHILE (135)							
MME	2.74	223	P	57	15.20	0.8	BAL	35.64	194	eP	11	55.00	-0.6	IHA	0.26	64	eP	07	02.00	0.4
ARV	2.75	185	Pd	57	14.20	-0.2		0.4s		10.00nm		4.9mb				iS	07	09.00		
			eSn	57	47.70		KLB	36.35	192	eP	12	01.50	0.0	LCCH	0.45	139	iPd	07	04.90	0.4
CRE	2.77	200	P	57	15.60	0.8		0.4s		11.00nm		4.9mb				iS	07	11.00		
BDI	2.89	222	P	57	17.00	0.7	BJI	36.90	347	eP	12	06.00	0.0	ROCH	0.78	78	iPd	07	10.10	-0.3
VKA	2.90	44	iP	57	21.40	4.9X	MUN	37.07	194	iPd	12	08.00	0.4				iS	07	21.40	
			i	57	30.20			0.6s		18.00nm		4.9mb	LNV	0.92	152	iPd	07	12.20	-0.3	
KHC	2.90	4	Pn	57	16.50	-0.1	SNY	37.65	357	Pc	12	13.40	1.1				iS	07	24.60	
			e	57	25.00			1.0s		33.00nm		5.0mb	TACH	0.97	122	iPd	07	13.20	-0.2	
			eSg	58	02.50		NWAO	37.75	192	eP	12	14.00	0.7				iS	07	25.40	
WET	2.92	355	iPnd	57	17.10	0.3		0.4s		10.00nm		4.9mb	PEL	1.04	90	iPd	07	14.80	0.2	
GRC1	3.01	337	e(Pn)	57	24.90	6.9X	LZH	37.87	330	eP	12	14.50	0.0				iS	07	28.00	
			e	57	29.50			1.6s		20.00nm		4.5mb	SAN	1.10	107	iP	07	15.50	-0.1	
			e	57	32.30		STK	38.69	159	iPc	12	25.10	4.0X				iS	07	30.00	
			e(Sn)	57	52.50			0.5s		3.10nm		4.2mb	JACH	1.21	68	iPc	07	16.90	-0.3	
			e(Sg)	58	04.70				i	13	07.40					iS	07	32.80		
LLS	3.02	284	ePd	57	20.60	2.2	RKG	39.38	192	eP	12	28.80	2.0	PCH	1.27	113	iPd	07	18.10	0.0
TMA	3.06	269	ePd	57	22.20	3.3X	CN2	39.56	359	eP	12	29.00	0.9				iS	07	34.90	
ASS	3.20	188	P	57	21.20	0.5	MDJ	40.49	4	eP	12	37.70	2.0	CHCH	1.32	127	iPc	07	19.10	0.3
ZST	3.26	52	e(Pn)	57	30.50	8.9X	LSA	41.72	312	P	12	46.40	-0.2				iS	07	36.00	
			i	58	16.30		GUN	44.99	306	P	13	12.60	-0.3	S.D. = 0.4 on 10 of 10 obs.						
ZLA	3.58	292	ePd	57	27.20	1.1	PKI	45.24	305	P	13	14.80	0.0	* OCT 05, 1991 17h 09m 20.61±2.17s						
HVAR	3.80	142	ePn	57	29.80	0.5	KKN	45.43	306	P	13	16.40	0.2	37.531 N ±15.6km 72.322 E ± 8.6km						
			iSn	58	14.60			0.6s		17.00nm		4.8mb	DEPTH = 177.3 ± 28.1 km							
PRU	3.85	12	Pn	57	28.90	-1.0	DMN	45.50	305	P	13	18.00	1.2	4.4mb (5 obs.)						
	0.6s		29.00nm				GKN	46.04	306	P	13	20.60	-0.3	TAJIKISTAN (715)						
			ePg	57	41.30		DZM	47.27	125	iPc	13	40.20	9.7X	QUE	8.58	213	iPd	11	22.40	-0.2
			Sn	58	15.00		HYB	48.39	290	eP	13	39.50	0.3		0.6s		15.00nm			4.6mb
			Sg	58	29.70		WMO	52.07	325	P	14	06.10	-0.6				eS	12	54.70	
MNS	3.87	187	P	57	30.00	-0.4		1.5s		6.40nm		4.1mb	NDI	9.						

05d 17h

	0.5s	12.68nm	4.6mb	
GKN	14.04	129 P	12 32.92	-0.3
KKN	14.60	128 P	12 39.90	-0.2
DMN	14.62	129 P	12 40.64	0.2
PKI	14.83	128 P	12 42.68	-0.5
GUN	14.89	126 P	12 43.86	-0.1
HYB	20.77	163 eP	13 49.00	-0.1
HFS	42.92	321 eP	17 02.70	-0.2
	0.4s	1.80nm	4.0mb	
NB2	44.20	322 P	17 13.10	-0.2
	0.6s	2.10nm	3.9mb	
MBC	66.26	3 eP	19 51.50	0.6
	0.5s	6.00nm	4.7mb	

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

OCT 05, 1991 18h 30m 18.55±0.42s
 37.064 N ± 5.2km 29.425 E ± 5.4km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

YER	0.92	275 iPn	30 36.70	0.6
CIN	1.19	297 ePn	30 40.00	-0.8
KHL	1.26	4 iPn	30 41.10	-0.9
IZM	2.17	308 iP	30 55.70	0.4
IZI	3.27	1 eP	31 13.00	2.9X
YLV	3.50	359 ePn	31 22.00	7.9X
EZN	3.68	320 eP	31 16.70	0.1
BBTK	3.81	42 eP	31 20.00	1.3
MFT	4.08	336 ePn	32 19.00	56.7X
KDZ	5.53	327 iP	31 43.00	0.0
RZN	5.88	323 eP	31 48.00	0.0
ADI	6.20	128 eP	31 52.10	-0.2
MMB	6.32	317 iP	31 54.00	0.0
MML	6.75	131 eP	31 59.50	-0.7
HLW	7.36	167 e(Pn)	32 12.00	3.3X
		e(S)	33 23.50	
KOT	7.39	164 ePn	32 09.50	0.4
MBH	8.58	146 eP	32 25.70	-0.1

S.D. = 0.7 on 13 of 17 obs.

OCT 05, 1991 18h 35m 06.99±0.65s
 46.259 N ± 8.0km 13.343 E ± 7.1km
 DEPTH = 10.0km (geophysicist)

AUSTRIA (546)
ML 2.5 (VIE), MD 2.5 (LJU), 2.3 (TRI).

VOY	0.45	121 iPg	35 15.70	-0.4
		eSg	35 23.20	
FVI	0.51	311 P	35 16.10	-1.3
		eSg	35 23.90	
TRI	0.62	152 e(Pg)	35 18.30	-1.2
		iSg	35 28.10	
KBA	0.82	0 iPg	35 22.80	-0.2
		iSg	35 34.90	
LJU	0.86	104 ePg	35 24.00	0.5
		eSg	35 36.60	
CEY	0.92	124 eP	35 27.00	2.4X
		eSg	35 38.40	
RIY	1.17	141 ePg	35 29.70	0.9
		iSg	35 46.80	
CTI	1.20	260 P	35 29.80	0.4
		eSg	35 47.20	
VBY	1.54	119 eP	35 37.00	2.6X
		e(Sn)	35 57.50	
WTTA	1.54	311 ePg	35 36.00	1.2
		iSg	35 56.80	
OGA	1.71	292 eP	35 40.40	3.2X
KHC	2.88	3 ePn	36 01.50	7.7X
		ePg	36 05.00	
		eSg	36 39.00	
PRU	3.82	12 eP	36 11.50	4.4X
		Sg	37 09.30	

S.D. = 1.1 on 8 of 13 obs.

OCT 05, 1991 18h 48m 25.99±0.52s
 29.536 N ± 4.6km 32.591 E ± 5.9km
 DEPTH = 31.3 ± 7.0 km

EGYPT (553)
MD 4.2 (HLW).

KOT	0.77	301 ePn	48 41.00	0.5
		eSn	48 51.50	
HLW	1.13	287 ePc	48 47.50	1.8
		eS	49 03.00	
SAGI	1.92	69 iPd	48 57.70	0.5
MKT	2.62	57 iPc	49 07.60	0.4

		eS	49 40.00	
SHWJ	2.66	71 Pc	49 08.43	0.6
DHLJ	2.75	62 Pc	49 09.33	0.5
HITJ	2.84	85 Pd	49 10.52	0.3
GHZJ	3.40	71 Pd	49 18.66	0.4
ZNT	3.41	37 iP	49 19.10	0.7
		eS	50 00.00	
BURJ	3.86	45 Pc	49 24.97	0.2
ATZ	4.00	34 eP	49 27.00	0.3
		eS	50 16.00	
HRI	4.59	35 eP	49 35.00	-0.2
BHL	5.08	30 P	49 41.00	-1.0
AMAN	5.59	177 eP	49 49.50	0.4
		eS	51 17.00	
AKSR	5.89	176 eP	49 52.00	-1.3
		eS	51 26.00	
AGMR	5.97	180 eP	49 55.00	0.4
		eS	51 32.00	
ANAL	6.10	179 eP	49 56.00	-0.4
		eS	51 36.00	
YER	8.39	336 ePn	50 27.20	-1.3
UOSK	9.43	111 eP	51 17.00	34.2X
		eS	53 10.00	
MJMA	11.83	105 eP	51 27.00	11.4X
WR2	109.49	102 ePd	02 55.00	2.9X
	0.7s	5.80nm		

S.D. = 0.8 on 18 of 21 obs.

* OCT 05, 1991 19h 57m 18.35±0.80s
 6.120 S ± 11.2km 151.114 E ± 11.1km
 DEPTH = 33.0km (normol)
 4.6mb (3 obs.)
 NEW BRITAIN REGION, P.N.G. (192)
 ML 4.5 (PMG).

RAB	2.19	29 eP	57 53.00	-0.1
		iS	58 26.50	
LAT	4.12	262 eP	58 31.80	11.2X
PMG	5.11	230 eP	58 38.00	3.4X
		eS	59 37.00	
HNR	9.35	111 eP	59 34.00	0.1
QIS	18.18	217 eP	01 29.70	-0.4
GUMO	20.54	342 eP	02 06.00	9.2X
BRS	21.21	176 iPd	02 03.50	-0.2
	1.1s	5.00nm		3.8mb
WR2	21.30	228 eP	02 04.20	-0.4
	0.7s	19.80nm		4.6mb
ASPA	24.05	222 iPc	02 32.70	1.0
	0.8s	40.80nm		5.0mb
		eS	07 05.60	

S.D. = 0.7 on 6 of 9 obs.

? OCT 05, 1991 20h 16m 26.00±1.94s
 21.878 N ± 20.0km 144.279 E ± 36.3km
 DEPTH = 33.0km (normol)
 4.6mb (8 obs.)
 MARIANA ISLANDS REGION (215)

SSE	22.58	299 Pd	21 25.50	0.7
	1.0s	25.00nm		4.6mb
NJ2	24.77	300 Pc	21 47.50	1.4
	0.8s	17.00nm		4.7mb
XAN	33.34	299 eP	23 02.50	-0.7
LZH	37.82	301 eP	23 41.80	0.3
	1.5s	30.00nm		4.9mb
		pP	23 48.00	21kmX
GTA	41.60	305 P	24 13.60	0.9
	0.8s	9.00nm		4.6mb
CHG	42.50	274 eP	24 20.40	0.2
CHTO	42.50	274 eP	24 20.50	0.3
	0.9s	1.92nm		3.8mb
WR2	42.68	194 iPd	24 21.00	-0.5
	0.4s	11.10nm		4.9mb
SNG	44.54	258 eP	24 38.10	1.4
ASPA	46.38	193 iPc	24 50.70	-0.5
	1.1s	5.70nm		4.4mb
LSA	48.12	291 iPd	25 05.60	0.1
WMO	51.25	309 P	25 30.00	1.2
GUN	52.90	289 P	25 41.82	0.1
PKI	53.36	289 P	25 43.60	-1.5
KKN	53.44	289 P	25 43.86	-1.7
STK	53.52	183 iPd	25 46.90	1.3
	0.6s	1.90nm		4.3mb
DMN	53.62	289 P	25 45.54	-1.4
GKN	53.98	289 P	25 48.24	-1.1
QUE	68.79	295 eP	27 29.00	-0.5

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

* OCT 05, 1991 20h 16m 32.51±2.76s
 40.642 N ± 26.0km 19.826 E ± 14.4km
 DEPTH = 10.0km (geophysicist)

ALBANIA (391)
ML 2.4 (TTG).

FNA	1.19	83 eP	16 54.16	-0.5
ULC	1.39	342 iPg	16 57.42	-0.5
		iSg	17 13.30	
BDV	1.80	336 iPg	17 04.36	0.5
		iSg	17 24.84	
TTG	1.84	347 iPg	17 04.16	-0.1
		iSg	17 25.36	
PVY	1.95	3 iPnc	17 06.28	0.1
		iSn	17 28.92	
HCY	2.06	332 iPnc	17 07.38	-0.2
		iSn	17 30.86	
IVA	2.23	1 iPnd	17 09.84	-0.3
		iSn	17 35.90	
NKY	2.26	344 iPnc	17 10.80	0.3
		iSn	17 35.62	
KNT	2.39	76 eP	17 12.88	0.6
BRY	2.45	337 ePn	17 13.14	-0.2
		iSn	17 40.20	
PLE	2.71	353 iPnd	17 17.20	0.3
		iSn	17 46.74	

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

? OCT 05, 1991 20h 48m 28.88±0.89s
 48.113 N ± 8.1km 7.226 E ± 7.6km
 DEPTH = 10.0km (geophysicist)

FRANCE (538)
ML 1.7 (LDG).

CDF	0.30	6 Pg	48 35.20	0.0
		Sg	48 39.20	
BSF	0.41	226 Pg	48 37.20	0.0
		Sg	48 42.10	
FEL	0.58	114 ePg	48 40.72	0.0
HAU	0.60	260 Pg	48 41.00	0.0
		Sg	48 48.90	

S.D. = 0.0 on 4 of 4 obs.

% OCT 05, 1991 22h 31m 25.37±2.25s
 39.573 N ± 10.5km 16.065 E ± 16.2km
 DEPTH = 59.3 ± 28.8 km
 SOUTHERN ITALY (390)

TDS	0.23	68 P	31 35.10	0.1
		eSg	31 39.50	
CSI	0.27	40 P	31 35.50	0.2
MMN	0.32	350 P	31 35.50	-0.1
		eSg	31 42.80	
CZI	0.36	171 P	31 36.00	0.1
ROI	0.39	90 P	31 36.10	-0.2
MGR	0.69	325 P	31 39.30	-0.2
		eSg	31 49.70	
SGO	1.14	330 P	31 45.60	0.2
		eSg	32 01.00	

S.D. = 0.3 on 7 of 7 obs.

* OCT 05, 1991 22h 47m 01.26±0.89s
 54.239 N ± 17.2km 164.329 W ± 9.5km
 DEPTH = 33.0km (normol)
 4.7mb (3 obs.)

UNIMAK ISLAND REGION (10)

SDN	2.48	62 eP	47 42.20	2.1
KDC	7.51	57 eP	48 50.00	-1.1
RSO	8.83	40 P	49 13.30	3.7X
TTA	9.73	23 eP	49 23.70	1.7
SLKM	9.86	45 P	49 23.80	0.1
RND	12.16	35 (P)	49 59.00	4.0X
KLU	12.17	46 eP	49 53.30	-1.8X
IMA	12.97	20 eP	50 03.00	-2.8X
BALM	13.55	51 P	50 12.70	-0.8
INK	20.12	34 eP	51 33.00	-1.6
BONR	35.11	98 P	53 54.00	0.3
		pP	54 04.70	37kmX
NB2	65.01	2 P	57 39.00	-0.7
	0.7s	1.30nm		4.1mb
HFS	65.97	1 eP	57 44.70	-1.0
	0.4s	2.80nm		4.7mb
GUN	78.40	302 P	59 00.86	0.5
KKN	78.80	302 P	59 02.62	0.2

PK1 78.91 302 P 59 03.34 0.2
 GKN 78.94 303 P 59 03.38 0.3
 0.8s 16.00nm 5.1mb
 DMN 79.03 302 P 59 04.40 0.7
 BUL 144.55 339 ePKP 06 35.20 -0.7
 0.9s 15.97nm
 S.D. = 1.1 on 15 of 19 obs.

% OCT 05, 1991 23h 03m 03.12±3.48s
 3.826 N ±13.3km 77.042 W ±29.7km
 DEPTH = 33.0km (normol)
 NEAR WEST COAST OF COLOMBIA (102)
 MD 3.0 (UVC).

ANCC 0.35 150 iPd 03 11.22 -0.4
 eS 03 17.30
 CLMC 0.48 83 iPc 03 13.62 0.0
 HOQC 0.54 131 iPd 03 14.28 -0.3
 eS 03 22.80
 BUGC 0.79 85 eP 03 17.98 0.1
 SALC 0.92 158 eP 03 20.17 0.4
 eS 03 33.00
 DIAC 1.00 122 ePd 03 21.24 0.3
 eS 03 34.80
 HOBC 1.05 60 ePc 03 21.52 -0.1
 eS 03 35.30
 S.D. = 0.4 on 7 of 7 obs.

? OCT 06, 1991 00h 30m 53.79±2.84s
 3.823 N ±31.5km 76.898 W ±71.6km
 DEPTH = 108.8km (geophysicist)
 COLOMBIA (103)
 MD 2.4 (UVC).

ANCC 0.31 174 eP 31 10.23 0.5
 eS 31 22.70
 CLMC 0.34 80 eP 31 10.73 0.7
 HOQC 0.44 143 eP 31 10.90 0.2
 eS 31 23.90
 SALC 0.87 167 eP 31 14.04 0.0
 S.D. = 0.5 on 4 of 4 obs.

* OCT 06, 1991 01h 16m 59.97±0.43s
 17.967 S ±17.8km 178.314 W ±10.4km
 DEPTH = 500.2km (2 depth phases)
 4.7mb (17 obs.)
 FIJI ISLANDS REGION (181)

PVC 12.74 269 iPc 19 55.00 7.6X
 BKM 12.81 269 iPc 19 55.00 7.7X
 DZM 14.89 252 iPc 20 14.60 5.0X
 COO 29.82 240 iPc 22 31.00 3.7X
 0.7s 21.00nm 4.0mb
 CTAO 33.53 261 iPc 22 59.10 0.4
 0.9s 62.72nm 5.1mb
 CAN 33.74 233 eP 23 01.90 1.5
 PMG 34.56 280 iPd 23 09.00 1.6
 CMS 35.07 241 iPd 23 13.00 1.4
 0.8s 31.00nm 4.9mb
 LAT 35.63 284 eP 23 18.90 2.5
 MDG 37.28 285 eP 23 32.40 2.5
 STK 38.68 241 iPd 23 45.50 4.2X
 0.5s 11.80nm 4.7mb
 QIS 39.73 259 eP 23 49.80 -0.1
 WR2 44.69 260 iPc 24 28.50 -0.8
 0.3s 45.70nm 5.5mb
 ASPA 44.86 254 iPd 24 30.50 -0.2
 0.7s 155.60nm 5.6mb
 iS 30 23.20
 MTN 48.89 268 eP 25 00.10 -1.4
 WARB 51.35 251 iPd 25 08.60 -10.9X
 0.4s 22.00nm
 COOL 56.01 245 eP 25 50.40 -2.3X
 0.4s 10.00nm 4.5mb
 KLB 58.88 244 eP 26 10.40 -1.9
 NWA0 59.26 242 eP 26 13.00 -1.8
 BAL 59.84 245 eP 26 16.50 -2.2
 MUN 60.18 243 eP 26 19.50 -1.4
 MAT 68.01 323 eP 27 09.00 -1.3
 0.8s 5.22nm 4.2mb
 SYP 76.14 46 eP 27 58.00 0.5
 ABL 76.84 46 eP 28 00.80 -0.6
 PAS 77.19 48 eP 28 04.00 1.0
 MWC 77.31 48 eP 28 04.00 0.1
 BAR 77.50 49 eP 28 05.00 0.2
 PLM 77.70 49 eP 28 07.00 0.9

SBB 77.72 47 eP 28 06.00 0.0
 PEC 77.77 48 P 28 05.80 -0.4
 CMB 77.82 43 eP 28 06.90 0.5
 0.9s 19.91nm 4.5mb
 GSC 78.75 47 eP 28 12.00 0.5
 GLA 79.02 50 eP 28 14.00 1.1
 BONR 79.15 44 P 28 14.20 0.4
 RSO 80.84 13 P 28 20.70 -1.2
 SLKM 81.43 14 iPd 28 23.20 -1.5
 pP 30 13.90 504km
 GMW 81.98 34 P 28 28.10 0.3
 MCW 82.65 33 P 28 31.40 0.3
 MSU 83.57 46 P 28 37.10 0.8
 BALM 83.85 17 P 28 35.80 -1.2
 RND 84.31 13 P 28 37.50 -1.7
 DPW 84.68 36 P 28 40.60 -0.7
 PNT 84.73 34 ePc 28 42.00 0.6
 0.7s 19.00nm 4.8mb
 DAU 85.11 45 P 28 40.80 -3.1X
 NEW 85.51 36 ePc 28 44.60 -0.6
 0.7s 14.00nm 4.8mb
 HPI 85.51 41 P 28 46.30 0.6
 FBA 85.85 13 P 28 44.60 -1.9
 ALQ 86.06 51 eP 28 48.00 -0.4
 1.0s 7.50nm 4.4mb
 ANMO 86.06 51 ePd 28 48.40 0.0
 1.0s 8.25nm 4.4mb
 LRM 86.96 40 eP 28 52.50 -0.1
 8W06 87.34 43 iPc 28 54.00 -0.4
 0.7s 7.80nm 4.6mb
 pP 30 45.00 497km
 GOL 88.83 48 eP 29 01.80 0.3
 0.7s 2.67nm 4.2mb
 GLD 88.96 48 ePd 29 03.10 1.2
 0.8s 35.29nm 5.2mb
 SES 90.01 36 ePc 29 06.10 -0.2
 RSSD 91.54 44 eP 29 13.60 -0.2
 0.6s 6.79nm 4.8mb
 INK 91.92 15 eP 29 13.00 -1.7
 NB2 136.44 353 PKP 35 24.20 -1.3
 0.6s 1.10nm
 HFS 137.00 351 ePKP 35 12.50 -14.0X
 0.4s 1.10nm
 DMU 143.52 9 ePKP 35 34.50 -3.8X
 0.6s 50.00nm
 DCN 144.01 9 ePKP 35 36.20 -2.9X
 0.6s 25.00nm
 KRA 144.79 340 ePKP 35 38.30 -2.2X
 KSP 145.19 344 iPKPc 35 40.60 -0.6
 1.0s 41.00nm
 SPC 145.43 338 e(PKP) 35 42.30 0.4
 CLL 145.54 347 iPKPc 35 40.90 -0.8
 1.0s 37.00nm
 BRG 145.74 346 iPKPc 35 42.10 0.0
 1.0s 20.00nm
 PRU 146.43 345 PKPc 35 43.70 0.5
 0.7s 6.40nm
 e 35 46.30
 MEM 147.25 355 PKPc 35 45.90 1.4
 BUD 147.31 338 ePKP 35 46.00 1.3
 ZST 147.33 341 i(PKP) 35 46.80 2.1X
 GRF 147.43 348 iPKPc 35 46.40 1.5
 Z 22s 0.60um 5.3msz
 KHC 147.46 345 PKP 35 46.50 1.5
 e 35 50.50
 SNF 147.47 357 iPKPc 35 46.40 1.6
 DOU 147.86 356 iPKPc 35 47.50 2.0X
 WLF 148.18 354 iPKPc 35 49.00 3.0X
 FLN 149.23 3 iPKPc 35 50.60 2.9X
 0.7s 16.55nm
 CDF 149.29 353 iPKPc 35 51.00 3.1X
 0.7s 13.25nm
 LDF 149.42 2 iPKPc 35 50.90 2.9X
 0.4s 5.15nm
 GRR 149.59 3 iPKPc 35 51.60 3.4X
 0.4s 8.00nm
 WTTA 149.66 347 iPKPc 35 51.80 3.2X
 0.6s 21.80nm
 i 35 57.40
 i 36 00.20
 HAU 149.80 354 iPKPc 35 52.10 3.5X
 0.6s 6.30nm
 BSF 149.92 353 iPKPc 35 52.40 3.5X
 0.6s 8.10nm
 LJU 150.04 342 ePKP 35 52.40 3.4X
 VOY 150.24 343 ePKP 35 52.60 3.2X
 VBY 150.30 341 iPKPd 35 53.80 4.4X

LOR 150.72 357 iPKPc 35 54.50 4.5X
 0.8s 21.50nm
 SSF 150.95 357 iPKPc 35 55.10 4.8X
 0.8s 16.10nm
 LBF 151.00 357 iPKPc 35 55.00 4.5X
 0.8s 12.75nm
 AVF 151.22 358 iPKPc 35 55.20 4.5X
 0.8s 5.35nm
 MFF 151.40 3 iPKPc 35 55.80 4.8X
 0.6s 9.00nm
 BGF 151.47 358 iPKPc 35 56.10 5.0X
 0.6s 9.00nm
 TCF 151.76 359 iPKPc 35 56.70 5.1X
 0.8s 8.05nm
 MAF 151.82 359 iPKPc 35 57.30 5.7X
 0.6s 4.05nm
 LPL 152.21 352 ePKP 35 58.60 6.1X
 0.8s 5.35nm
 LPG 152.23 352 ePKP 35 58.80 6.2X
 0.8s 4.05nm
 RJF 152.74 0 ePKP 35 59.00 6.0X
 0.8s 8.05nm
 LFF 153.10 1 iPKPc 35 52.40 -1.0
 0.6s 22.55nm
 S.D. = 1.1 on 60 of 96 obs.

OCT 06, 1991 01h 46m 47.58±0.19s
 41.096 N ±3.8km 43.409 E ±2.6km
 DEPTH = 18.3km (5 depth phases)
 5.0mb (38 obs.) 4.6msz (5 obs.)
 GEORGIA-ARMENIA-TURKEY BORD REG.(367)
 Felt (VI) at Ashotsk ond (IV) at
 Steponovon, Armenia.
 CENTROID, MOMENT TENSOR (HRV)
 Doto Used: GDSN
 L.P.B.: 18S, 27C
 Centroid Location:
 Origin Time 01:46:50.9 1.6
 Lot 41.29N 0.13 Lon 43.85E 0.15
 Dep 16.5 7.7 Half-duration 1.4
 Moment Tensor; Scale 10**16 Nm
 Mrr=-0.51 0.36 Mtt=-4.30 0.55
 Mff= 4.82 0.33 Mrt=-1.65 1.29
 Mrf= 0.91 1.75 Mtf=-2.19 0.39
 Principal Axes:
 T Val= 5.58 Plg=12 Azm=256
 N -0.35 70 131
 P -5.24 16 349
 Best Double Couple: Mo=5.4*10**16
 NP1: Strike= 32 Dip=70 Slip= -3
 NP2: 123 87 -160

TAB 3.77 142 eP 47 46.00 -0.3
 e 47 49.00
 i 47 51.40
 MSL 4.71 183 ePn 47 59.50 0.0
 eP 48 12.30
 iPg 48 27.50
 iSn 49 10.50
 iS 49 29.00
 iSg 49 48.00
 KVT 5.56 272 ePn 48 06.90 -4.6X
 KAS 7.27 275 eP 48 36.50 0.9
 KER 7.34 155 eP 48 37.00 0.4
 IR7 7.80 131 iPc 48 45.00 1.9
 BHD 7.85 174 ePn 48 34.00 -9.5X
 iPg 49 17.00
 eSn 50 17.50
 eS 50 53.00
 iSg 51 15.00
 IR1 8.06 132 iPc 48 47.70 1.1
 IR5 8.15 134 eP 48 48.40 0.5
 BBTK 8.21 265 iPc 48 51.00 2.2
 iS 49 17.00
 TEH 8.23 128 eP 48 52.00 2.9X
 IR4 8.30 132 iPc 48 50.10 0.0
 BHL 9.46 223 P 49 06.00 0.0
 S 52 00.00
 LFK 9.70 236 ePn 48 47.40 -21.9X
 HRI 9.92 220 eP 49 21.70 9.4X
 IZI 10.61 270 ePn 49 12.00 -9.8X
 YLV 10.65 272 ePn 49 15.00 -7.4X
 JARJ 10.67 216 P 49 23.35 0.7
 SALJ 10.99 217 Pd 49 30.10 3.2X
 MASJ 11.21 216 P 49 30.21 0.3
 MKRJ 11.39 216 P 49 33.73 1.3
 DSI 11.49 217 eP 49 33.40 -0.4

06d 01h

PSN	11.55	288	iP	49	31.00	-3.6X	TRI	21.96	292	ePd	51	42.40	0.5	NDI	30.18	103	eP	52	58.00	-0.9	
TLB	11.81	292	ePc	49	35.00	-3.1X	PRU	21.97	304	P	51	42.20	0.2	WMO	32.50	70	P	53	19.00	-0.2	
CFR	11.87	295	eP	49	35.00	-3.8X		1.4s	38.70nm			4.6mb			1.0s	21.00nm			5.0mb		
PPE	12.52	299	eP	49	46.50	-1.1	Z	15s	1.10um			4.4MsZx			Z	16s	3.92um		5.2MsZx		
CLI	12.85	300	eP	49	53.00	1.0			e	52	50.00			N	14s	3.03um					
ISR	12.96	294	eP	49	52.00	-1.5			eS	55	49.00			TOL	35.77	284	iP	53	46.50	-0.8	
VR1	13.02	297	eP	49	52.00	-2.2	KBA	22.32	296	iPc	51	45.20	-0.5			1.2s	62.50nm		5.4mb		
MBH	13.26	214	eP	49	49.60	-7.9X		1.5s	94.30nm			5.0mb		GKN	36.06	98	P	53	49.14	-0.9	
MAIO	13.44	106	eP	49	56.00	-3.9X			i	51	48.40	12km			0.9s	43.00nm		5.3mb			
			eS	55	08.00				i	51	59.70			DMN	36.62	98	P	53	54.94	0.1	
MLR	13.46	295	ePc	50	00.00	-0.1	AQU	22.38	283	P	51	46.70	0.5	KKN	36.65	98	P	53	53.88	-1.2	
PVL	13.58	285	eP	50	03.00	1.4	AZI	22.40	282	P	51	57.61	11.3X	PKI	36.86	98	P	53	56.22	-0.8	
SHI	13.62	144	eP	50	01.00	-1.4	AZI	22.40	282	P	51	50.90	4.6X	GUN	37.03	97	P	53	57.74	-0.8	
MTUR	14.01	293	eP	50	16.50	9.2X	KHC	22.42	301	iPd	51	47.00	0.5		1.2s	142.00nm		5.6mb			
CMP	14.03	293	ePc	50	24.00	16.4X			e	52	07.40	95kmX	HYB	38.29	118	eP	54	09.20	0.4		
DRA	14.49	291	ePc	50	07.00	-6.5X			eS	56	08.00		IRK	42.06	53	eP	54	40.60	1.1		
COZ	14.53	293	eP	50	15.00	0.8	BRG	22.55	306	eP	51	47.20	-0.5			ePPP	56	20.00			
TNR	14.64	295	ePc	50	35.00	19.5X		1.8s	85.00nm			4.9mb			ePPP	56	33.00				
OBN	14.72	344	iPc	50	15.00	-1.4			eS	55	58.00				e	10	52.00				
	1.3s	135.00nm				5.3mb	ARV	22.60	286	P	51	48.50	0.2	GTA	42.44	73	eP	54	43.00	0.1	
Z	14s	7.00um					NUR	22.61	336	eP	51	48.00	-0.2		1.2s	21.00nm		4.7mb			
N	14s	8.00um						1.0s	88.00nm			5.2mb		Z	16s	1.97um		5.1MsZx			
		i	50	48.00					e	56	00.00			N	14s	1.30um					
		e	53	15.00			FVI	22.68	294	P	51	48.90	0.0	DAG	44.07	343	ePd	54	54.80	-0.7	
MMB	14.80	278	eP	50	22.00	4.4X	BHG	22.69	297	eP	51	51.00	1.8		1.1s	16.46nm		4.8mb			
SRS	14.94	277	eP	50	20.68	1.2	ASS	22.85	285	P	51	51.30	0.6	LZH	46.68	76	eP	55	18.50	1.5	
QASM	14.97	180	ePc	50	15.00	-4.9X	MNS	22.91	283	P	51	50.70	-0.6		1.5s	60.00nm		5.4mb			
PAIG	15.06	272	eP	50	09.66	-11.3X	RDP	22.97	282	P	51	52.40	0.4		Z	15s	1.26um		5.0MsZx		
VTS	15.13	282	eP	50	24.00	1.9	CLL	23.23	306	eP	51	55.00	0.6		N	14s	1.43um				
SOH	15.16	276	eP	50	19.96	-2.4		2.0s	260.00nm			5.4mb	CD2	49.00	82	P	55	36.20	1.1		
KKB	15.26	280	eP	50	24.00	0.4			eS	56	15.00			Z	16s	0.70um		4.7MsZx			
MJMA	15.28	174	iPc	50	17.00	-7.0X	FAI	23.31	270	P	51	55.40	0.2	BTO	49.24	67	eP	55	39.10	2.3	
UQSK	15.29	184	iPc	50	19.00	-5.2X	CRE	23.31	287	P	51	56.30	1.0		Z	17s	1.10um		4.9MsZx		
KNT	15.46	277	eP	50	26.08	-0.1	SFI	23.36	287	P	51	57.00	1.4		N	13s	0.53um				
THE	15.48	275	eP	50	32.52	6.1X	BSD	23.43	316	iPc	52	06.70	10.5X		E	13s	0.77um				
DEV	15.62	295	ePd	50	35.00	6.7X		1.5s	130.00nm							esP	55	48.00			
BMR	15.66	301	ePd	50	30.00	1.3	KAF	23.43	340	iP	51	57.00	0.9	HHC	50.21	66	eP	55	45.00	0.7	
DHR	15.77	157	eP	50	28.00	-2.3	CTI	23.44	293	P	51	56.10	-0.5		Z	10s	0.95um		5.1MsZx		
		eS	55	39.00		PGD	23.46	287	P	51	58.86	2.0	KMI	51.25	89	Pc	55	53.00	0.5		
CEI	16.33	301	eP	51	03.00	25.6X	WTTA	23.50	296	iPc	51	57.20	0.0	XAN	51.32	75	eP	55	53.00	0.3	
BZS	16.47	293	ePc	50	39.00	-0.1		1.5s	155.00nm			5.3mb			N	14s	1.06um				
RYD	16.55	170	iPc	50	36.00	-4.3X			i	52	12.10	63kmX	CHTO	52.05	98	iP	55	57.60	-0.8		
		eS	56	00.00		MOX	23.94	304	eP	52	02.30	1.0		1.1s	19.43nm		4.9mb				
BEO	17.20	290	eP	50	47.20	-1.1		1.6s	31.00nm			4.6mb	TIY	52.16	70	eP	55	59.40	0.3		
PSZ	18.07	300	iP	50	59.00	-0.2			e	52	11.00	31kmX		Z	17s	1.44um		5.1MsZx			
SPC	18.18	304	eP	51	01.00	0.3	MME	24.17	288	P	52	05.88	2.1		N	11s	0.58um				
BUD	18.55	298	eP	51	05.00	0.0	SAL	24.23	292	P	52	07.90	3.9X			S	03	22.00			
KRA	18.65	307	eP	51	04.10	-2.1	BDI	24.25	288	P	52	05.30	0.9	YAK	53.11	36	eP	56	05.00	-0.7	
	1.0s	43.00nm				4.6mb	UPP	24.67	328	iP	52	07.70	-0.4			i	56	18.00	47kmX		
		i	51	08.90					iS	56	36.00				e	58	08.00				
UZD	18.70	295	iP	51	08.80	2.0	PTS	24.73	270	P	52	08.90	-0.1			e	59	45.00			
ASW	19.12	211	iPd	51	12.00	-0.1	COP	24.95	316	ePc	52	14.40	3.5X			e	08	09.00			
		eS	54	25.00			2.0s	164.71nm				5.3mb	GYA	53.48	85	P	56	09.00	-0.1		
HVAR	20.07	285	eP	51	21.50	-1.1	HFS	26.44	326	eP	52	24.00	-0.8		1.2s	17.00nm		4.9mb			
ZAG	20.41	293	ePc	51	25.20	-0.9		1.0s	43.80nm			5.1mb	BJI	53.74	65	eP	56	10.00	-0.6		
PTJ	20.44	293	eP	51	25.50	-1.0		Z	17s	0.72um		4.3MsZx		Z	18s	0.77um		4.8MsZ			
VKA	20.48	300	e(P)	51	24.00	-2.9X			LR	02	23.00			N	12s	0.62um					
	3.0s	627.00nm				5.5mb	SBF	26.55	288	eP	52	25.70	-0.3	TIC	55.01	245	P	56	17.16	-3.1X	
		i	51	29.30		20km		1.2s	50.60nm			5.1mb		1.1s	15.50nm		5.0mb				
		i	51	45.70			LPG	26.89	292	eP	52	29.80	0.4	KIC	55.02	245	P	56	17.06	-3.3X	
ROI	20.49	275	P	51	27.50	0.4		1.2s	28.25nm			4.8mb		1.2s	25.50nm		5.1mb				
TDS	20.65	275	P	51	27.80	-0.8	LPL	26.90	292	eP	52	29.90	0.5	LIC	55.32	245	P	56	19.70	-2.8	
CSI	20.66	275	P	51	27.80	-1.0		1.2s	23.80nm			4.7mb			0.9s	14.00nm		5.0mb			
GAR	20.68	87	iP	51	27.60	-1.5	BNI	26.97	291	P	52	32.20	2.2		Z	20s	0.13um		4.0MsZ		
		iS	55	26.00			WTS	27.15	306	eP	52	27.00	-4.3X	WHN	57.04	76	eP	56	36.50	1.8	
		ePP	56	33.00					e	52	34.00	25km		Z	18s	0.84um		4.9MsZ			
		eSSS	57	00.00			WLF	27.30	301	P	52	33.00	0.3		N	16s	0.97um				
GR1	20.79	273	P	51	29.02	-1.1	MEM	27.47	303	Pc	52	36.09	1.8		E	14s	0.92um				
MMN	20.86	276	P	51	30.20	-0.6	ENN	27.54	303	iP	52	28.50	-6.4X	NJ2	59.53	72	eP	56	42.50	20km	
CZ1	20.90	274	P	51	30.70	-0.5	SOD	27.90	346	iP	52	43.70	5.7X		Z	18s	0.65um		4.8MsZ		
VBY	20.91	292	eP	51	32.60	1.4	NB2	27.96	326	P	52	29.20	-9.5X			67.89	206	e(P)	57	32.00	-15.2X
FG4	20.98	279	P	51	31.50	-0.6		1.4s	25.20nm			4.8mb	WIN	1.0s	17.00nm						
KSP	21.11	307	ePc	51	32.40	-0.9	DOU	28.33	302	P	52	49.00	6.9X			70.29	58	(P)	58	01.00	-0.8
	1.3s	144.00nm				5.2mb	SNF	28.56	303	P	52	45.60	1.5	MAT	73.98	5	eP	58	22.00	-0.3	
MGR	21.14	277	P	51	32.60	-1.0	LBF	28.72	295	eP	52	43.80	-1.9	FBA		0.8s	2.00nm		4.2mb		
SGO	21.24	278	P	51	34.10	-0.5		1.0s	12.00nm			4.6mb			78.12	3	e(P)	58	49.60	3.0X	
SO1	21.27	271	P	51	33.40	-1.5	LOR	28.79	296	eP	52	44.70	-1.6	BALM	86.18	344	eP	59	30.00	1.3	
GMB	21.38	271	P	51	35.56	-0.8		0.8s	8.05nm			4.5mb		SES	89.37	347	eP	59	41.50	-2.7	
LJU	21.44	293	eP	51	36.50	-0.1		Z	22s	0.55um		4.1MsZ	NEW		0.9s	13.16nm		5.2mb			
CEY	21.50	292	eP	51	37.00	-0.3	SMF	28.84	295	eP	52	45.50	-1.2			e	59	46.80	17km		
ATN	21.69	271	P	51	38.80	-0.4		1.3s	30.70nm			4.									

1.0s 4.67nm 4.9mb
MSU 97.69 341 e(P) 00 23.50 0.7
ALO 99.42 335 e(P) 00 31.00 0.4
S.D. = 1.1 on 133 of 176 obs.

OCT 06, 1991 02h 46m 24.69±0.35s
64.748 S ± 7.8km 177.705 E ± 8.4km
DEPTH = 10.0km (geophysicist)
5.3mb (9 obs.) 4.9Msz (1 obs.)
BALLENY ISLANDS REGION (702)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 33C
Centroid Location:
Origin Time 02:46:31.7 0.4
Lat 64.775 0.05 Lon 178.05E 0.11
Dep 15.0 FIX Half-duration 1.8
Moment Tensor: Scale 10**17 Nm
Mrr= 0.00 0.05 Mtt= 1.12 0.07
Mff=-1.12 0.05 Mrt=-0.20 0.14
Mrf=-0.74 0.14 Mtf=-0.49 0.05
Principal Axes:
T Vol= 1.23 Plg= 3 Azm=191
N 0.37 64 95
P -1.59 26 282
Best Double Couple: Mo=1.4*10**17
NP1: Strike=324 Dip=70 Slip=-17
NP2: 60 74 -159

DRV 15.47 246 eP 50 04.70 0.5
SPA 25.40 180 iPc 51 53.70 0.2
1.0s 102.50nm 5.5mb
Z 20s 4.05um 4.9Msz

CAN 34.15 316 eP 53 12.30 0.7
BWA 35.15 315 eP 53 20.60 0.3
STK 39.68 308 iPc 54 02.40 4.2X
1.0s 4.80nm 4.1mb X
MAW 40.06 213 eP 54 02.00 1.0
BRS 40.60 325 e(PKP) 54 09.00 3.1X
e 00 27.00
AIA 42.73 147 e(P) 54 23.00 0.1
DZM 43.31 345 iPc 54 29.10 1.0
NVL 44.40 187 eP 54 36.00 -0.4
e 54 44.00
e 55 16.00
e 55 43.00
ePcP 56 18.00
ePPP 56 57.00
e 57 21.00
e 58 08.00
eS 01 16.00
e 01 38.00
eSS 04 41.00
eSSS 05 28.00

SNA 45.21 180 iPd 54 43.00 0.2
1.2s 125.00nm 5.7mb
CTAO 49.28 320 iPd 55 15.20 -0.1
1.4s 46.04nm 5.3mb
ASPA 49.88 304 iPd 55 19.00 -0.9
1.4s 14.70nm 4.8mb
WR2 53.14 306 iPc 55 42.70 -1.9
0.8s 6.40nm 4.6mb
CHCH 68.26 124 iP 57 26.00 -1.4
PCH 68.59 124 eP 57 28.50 -1.0
PEL 68.96 123 iPd 57 31.00 -0.8
CER 80.76 198 iPd 58 38.60 -0.7
0.8s 21.25nm 5.2mb
CNCB 84.81 119 P 59 02.00 1.0
LPB 85.02 119 P 59 02.20 0.3

Z 24s 1.55um 5.3MszX
ZOBO 85.25 118 P 59 04.00 0.7
1.8s 58.92nm 5.5mb
LR 26 24.00
KSR 86.87 206 eP 58 53.50 -17.2X
SIV 88.08 125 P 59 17.20 0.8
WIN 91.68 198 iPc 59 33.90 0.5
1.4s 46.51nm 5.6mb
BUL 92.10 209 iPd 59 34.60 -0.7
0.8s 4.85nm 4.9mb
PNT 123.66 44 ePKP 05 24.00 1.3
MAIO 134.13 263 ePKP 05 42.00 -1.3
TIO 146.02 172 iPKP 06 05.50 0.6
i 06 20.00

AVE 148.37 172 ePKP 06 05.00 -3.4X
SOI 151.17 211 PKP 06 18.10 5.7X

TDS 152.62 212 PKP 06 20.30 5.7X
S.D. = 0.9 on 25 of 31 obs.

OCT 06, 1991 02h 46m 28.38±0.59s
40.881 N ± 3.9km 22.960 E ± 6.5km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 2.4 (THE).

THE 0.25 179 ePgd 46 33.62 0.0
eSg 46 37.18
KNT 0.28 350 iPgc 46 34.26 -0.1
eSg 46 37.54
SOH 0.30 101 ePgd 46 34.66 -0.1
SRS 0.53 64 ePgd 46 38.54 -0.6
eSg 46 45.42
LIT 0.86 205 ePgd 46 44.70 -0.2
MMB 0.91 39 iPg 46 46.00 0.1
KKB 0.99 5 iPgc 46 46.00 -1.2
PAIG 1.10 150 ePg 46 49.14 0.1
eSg 47 02.98
RZN 1.55 58 eP 46 57.00 0.8
VTS 1.72 6 eP 47 00.00 1.4
PLD 1.79 46 eP 47 04.00 4.5X
PGB 1.90 28 eP 47 01.00 -0.1
S.D. = 0.7 on 11 of 12 obs.

? OCT 06, 1991 03h 34m 46.43±1.02s
8.992 S ±11.1km 113.301 E ±17.8km
DEPTH = 148.9 ± 13.9 km
4.3mb (5 obs.)
JAWA, INDONESIA (277)

TRT 1.44 333 iPd 35 15.40 -0.2
iS 35 31.70
KHKI 2.36 75 ePd 35 26.50 0.2
eS 35 54.50
e 38 38.80
MBL 13.64 153 eP 37 54.00 -0.9
0.3s 3.00nm 4.1mb
eS 40 15.00
NANU 13.66 171 eP 37 56.00 0.8
eS 40 19.00
MRWA 20.28 173 eP 39 26.40 14.1X
WARB 21.28 145 eP 39 39.00 16.7X
eS 43 10.00
COOL 22.98 163 eP 40 01.00 22.2X
eS 43 54.00

WR2 23.09 120 iPc 39 44.60 4.6X
0.5s 7.00nm 4.4mb
e 40 01.60
S 44 06.40
ASPA 24.52 129 iPd 39 59.70 6.0X
0.7s 8.60nm 4.4mb
e 40 24.10
STK 34.75 135 iPc 41 32.30 8.0X
0.3s 1.50nm 4.2mb
MAT 50.98 26 eP 43 35.00 0.0
0.7s 5.48nm 4.4mb

S.D. = 1.3 on 5 of 11 obs.

? OCT 06, 1991 04h 11m 15.23±3.77s
17.544 N ±29.6km 61.907 W ±10.3km
DEPTH = 22.8 ± 9.7 km
LEEWARD ISLANDS (92)
ML 3.0 (FDF).

BPA 0.50 174 eP 11 25.63 0.3
S 11 32.20
NEV 0.75 237 eP 11 29.70 0.1
S 11 40.40
MGH 0.87 200 eP 11 31.10 -0.5
S 11 42.20
SEG 1.20 161 eP 11 36.71 0.1
S 11 53.00

DEG 1.47 146 eP 11 40.14 -0.4
S 11 58.00
PAG 1.52 172 eP 11 41.50 0.2
S 11 57.20
DOG 1.53 170 eP 11 41.46 0.1
MGG 1.71 161 eP 11 44.10 0.1
S 12 04.50
BBL 2.05 168 eP 11 49.00 0.0
S.D. = 0.3 on 9 of 9 obs.

& OCT 06, 1991 04h 16m 38.10s
35.450 N 118.280 W

DEPTH = 3.0km
CENTRAL CALIFORNIA (39)
<PAS-P>. ML 3.2 (PAS), 3.3
(BRK).

SBB 0.85 154 iPd 16 53.80 -1.2
ABL 0.98 232 eP 16 56.11 -1.3
GSC 1.21 97 iPc 17 00.50 -0.9
MWC 1.24 171 eP 17 01.30 -0.6
SSK 1.33 158 eP 17 02.13 -1.3
BCH 1.50 260 eP 17 04.46 -1.6
PKEM 1.61 293 eP 17 07.14 -0.3
RVR 1.63 153 eP 17 06.60 -1.2
PHAM 1.77 283 eP 17 08.50 -1.3
PEC 1.81 149 eP 17 08.93 -1.5
FRI 1.92 324 iPc 17 11.42 -0.6
iS 17 35.77
PRI 2.06 290 iPc 17 13.93 -0.2
PLM 2.40 150 eP 17 17.41 -1.7
e(S) 17 51.39
LLA 2.45 299 iPc 17 18.86 -0.8
BONR 2.50 360 eP 17 23.54 2.9
eS 17 56.94
PRS 2.66 290 eP 17 21.68 -0.9
SAO 2.88 298 eP 17 24.94 -0.8
GLA 3.73 129 eP 17 46.19 8.3
eS 18 34.20

18 obs. associated

& OCT 06, 1991 06h 10m 41.75s
59.469 N 151.667 W
DEPTH = 49.8km
4.2mb (4 obs.)
KENAI PENINSULA, ALASKA (14)
<AEIC>. ML 3.4 (AEIC), 3.7
(PMR). Felt (III) at Homer and
(II) at Anchorage.

XLV 0.03 243 iPc 10 48.61 0.7
eS 10 54.72
HOM 0.19 4 ePd 10 49.84 -0.2
CNPM 0.23 75 iPc 10 50.07 -0.3
eS 10 56.47
BRK 0.50 53 iPc 10 52.66 -0.4
NNL 0.60 18 iPc 10 54.95 0.6
OPT 0.82 284 iPc 10 56.51 -0.7
AUE 0.88 264 iPc 10 57.20 -0.8
AUP 0.90 264 iPc 10 57.72 -0.7
AGU 0.91 264 ePc 10 57.78 -0.7
AUL 0.91 265 ePc 10 57.68 -0.7
AUI 0.91 262 iPc 10 57.69 -0.7
eS 11 10.38

AUH 0.91 264 ePd 10 57.64 -0.9
INE 0.92 311 iPc 10 57.54 -1.2
eS 11 10.22
AUW 0.93 265 ePd 10 58.02 -0.6
SYI 0.94 204 iPd 10 57.69 -1.1
eS 11 10.95
INW 0.95 310 iPd 10 58.01 -1.1
RED 1.10 330 iPc 11 00.33 -0.9
eS 11 15.25

RS1 1.14 332 iPc 11 01.04 -0.7
RSO 1.14 332 iPc 11 01.04 -0.7
eS 11 16.11
RS2 1.14 332 iPc 11 01.02 -0.8
REF 1.15 334 iPc 11 01.19 -0.7
CDD 1.15 243 iPc 11 00.80 -1.0
RDW 1.17 331 eP 11 01.32 -0.9
RDT 1.17 342 iPd 11 01.42 -0.7
eS 11 16.97

RDN 1.18 333 iPc 11 01.62 -0.7
SLKM 1.27 34 ePd 11 03.14 -0.3
SEW 1.29 59 iPd 11 03.01 -0.7
eS 11 19.08
NKA 1.30 9 ePd 11 05.42 1.6
MCNL 1.40 259 ePc 11 03.87 -1.4
iS 11 20.92
CKL 1.77 349 iPd 11 10.34 -0.2
KDC 1.78 194 eP 11 08.90 -1.7
CRP 1.82 353 ePd 11 11.35 0.0
BGL 1.84 349 iPd 11 11.59 0.1
CGLM 1.85 355 iPd 11 11.71 0.0
eS 11 35.55
NCG 1.96 353 ePd 11 13.35 0.1
LTI 2.01 72 eP 11 13.28 -0.6
SUA 2.05 12 iPd 11 14.70 0.1
PMS 2.07 30 iPd 11 14.67 0.0

06d 06h

KNIM	2.17	64	eP	11 14.68	-1.4
PWA	2.36	21	eP	11 18.73	-0.1
PLRM	2.47	29	iPd	11 19.65	-0.7
PMR	2.47	29	Pn	11 19.50	-0.9
	0.5s	289.26nm			
KNK	2.52	38	iPd	11 20.22	-0.8
SKT	2.52	1	iPd	11 21.26	0.2
		eS	11 49.77		
SVW	2.57	312	Pn	11 20.00	-1.8
	0.3s	110.45nm			
GHO	2.68	29	iPd	11 22.71	-0.7
GLI	2.69	56	ePd	11 21.37	-2.1
		eS	11 52.41		
SML	2.86	34	ePd	11 25.15	-0.9
FID	2.90	61	ePd	11 23.88	-2.6
		eS	11 56.25		
VZW	3.01	56	eP	11 26.16	-1.9
CUT	3.02	12	ePc	11 28.17	-0.1
VLZ	3.14	56	eP	11 28.22	-1.6
		eS	12 04.53		
CVA	3.16	67	ePd	11 28.23	-2.0
SCM	3.19	40	ePc	11 29.79	-1.0
SGAM	3.41	70	eP	11 31.55	-2.2
KLU	3.49	52	iPd	11 33.55	-1.5
RAGM	3.64	72	eP	11 35.50	-1.5
HUR	3.66	15	eP	11 37.60	0.4
KAIM	3.70	80	eP	11 37.17	-0.7
TOA	3.77	43	ePd	11 38.12	-0.8
HMT	3.83	74	eP	11 37.69	-2.0
		eS	12 21.55		
TZL	4.01	47	eP	11 41.47	-0.7
TRF	4.05	9	eP	11 42.54	-0.4
TTA	4.06	331	eP	11 41.40	-1.6
KTH	4.11	5	eP	11 43.73	0.0
RND	4.18	18	eP	11 44.01	-0.6
SDG	4.28	42	eP	11 45.03	-0.9
GLB	4.36	60	eP	11 45.75	-1.5
CROM	4.46	70	eP	11 47.51	-1.1
MCK	4.47	16	eP	11 48.33	-0.4
SNH	4.51	77	eP	11 48.25	-1.0
TGL	4.61	70	eP	11 48.08	-2.6
PAX	4.62	38	ePd	11 49.08	-1.7
BWN	4.83	12	eP	11 52.23	-1.6
BALM	4.90	67	iPc	11 52.08	-2.8
WRG	4.91	79	eP	11 53.48	-1.4
YAH	5.07	76	ePc	11 56.20	-1.2
NEA	5.27	12	eP	11 58.36	-1.6
WRH	5.30	17	eP	11 58.47	-1.8
CTGM	5.37	69	iPc	12 00.43	-1.0
DJE	5.39	29	eP	12 01.37	-0.2
HDA	5.43	22	eP	12 00.88	-1.3
CCB	5.50	18	eP	12 01.15	-2.1
MDM	5.74	15	eP	12 04.39	-2.2
FBA	5.74	17	Pn	12 04.30	-2.3
	0.5s	27.89nm		4.9mb X	
GLM	5.89	18	eP	12 06.57	-2.1
IMA	6.69	353	eP	12 18.00	-1.9
INK	11.88	34	eP	13 28.00	-2.8
YKA	18.06	64	eP	14 48.90	-1.4
	0.6s	2.70nm		3.6mb	
MBC	20.26	22	eP	15 16.00	1.0
	0.6s	9.00nm		4.3mb	
NB2	59.09	10	P	20 34.80	-3.9
	0.7s	1.10nm		4.1mb	
HFS	60.19	8	eP	20 41.60	-4.6
	0.5s	1.30nm		4.3mb	
	92 obs.	associated			

& OCT 06, 1991 06h 10m 45.30s					
33.480 N 116.490 W					
DEPTH = 12.0km					
SOUTHERN CALIFORNIA (43)					
<PAS-P>. ML 2.5 (PAS). Felt at					
Ontario.					
PLM	0.34	248	iPc	10 52.00	-0.4
PEC	0.69	306	eP	10 56.97	-1.9
		eS	11 06.67		
HAY	0.75	72	eP	10 59.10	-0.7
CPE	0.79	221	eP	10 59.10	-1.3
BAR	0.81	191	eP	10 59.80	-1.1
IKP	0.89	159	eP	11 01.80	-0.4
RVR	0.90	305	eP	11 01.30	-1.0
SSK	1.24	306	eP	11 07.19	-1.1
		eS	11 23.64		
GLA	1.46	107	eP	11 11.42	0.0
MWC	1.50	300	eP	11 11.70	-0.5

PAS	1.55	296	eP	11 12.60	-0.1
11 obs. associated					

% OCT 06, 1991 06h 59m 17.26 ± 1.37s					
42.415 N ± 9.2km 19.853 E ± 9.6km					
DEPTH = 10.0km (geophysicist)					
NORTHWESTERN BALKAN REGION (383)					
ML 1.7 (TTG).					
PVY	0.20	26	iPgc	59 21.46	-0.3
		iSg	59 25.56		
TTG	0.44	272	iPgd	59 24.96	-1.2
		iSg	59 32.92		
IVA	0.46	4	iPgd	59 26.66	0.1
		iSg	59 33.56		
ULC	0.64	225	iPgc	59 30.32	0.3
		iSg	59 40.00		
NKY	0.75	302	iPgd	59 31.74	-0.2
		iSg	59 43.44		
BDV	0.77	260	iPgd	59 32.02	-0.3
		iSg	59 44.04		
HCY	1.00	272	iPgd	59 36.94	0.7
		iSg	59 51.92		
BRY	1.08	297	iPgc	59 38.66	1.0
		iSg	59 54.38		
S.D. = 0.8 on 8 of 8 obs.					

OCT 06, 1991 07h 07m 28.72 ± 0.47s					
41.193 N ± 3.9km 23.204 E ± 5.0km					
DEPTH = 10.0km (geophysicist)					
GREECE-BULGARIA BORDER REGION (363)					
KNT	0.23	263	iPgd	07 34.00	0.3
		eSg	07 37.12		
SRS	0.30	104	ePg	07 34.68	-0.4
		eSg	07 38.64		
SOH	0.39	163	ePgc	07 36.52	-0.2
MMB	0.56	45	iPgc	07 39.00	-1.1
THE	0.59	198	ePgd	07 40.28	-0.3
		eSg	07 48.32		
KKB	0.68	352	iPgc	07 41.00	-1.2
LIT	1.22	207	ePb	07 51.32	-0.1
RZN	1.24	66	iPgc	07 52.00	0.1
PAIG	1.31	164	ePb	07 53.40	0.4
VTS	1.40	0	iPgc	07 55.00	0.6
PLD	1.45	50	iP	07 56.00	1.1
PGB	1.53	28	iP	07 57.00	0.8
S.D. = 0.8 on 12 of 12 obs.					

& OCT 06, 1991 07h 30m 43.60s					
48.963 N 129.025 W					
DEPTH = 10.0km (geophysicist)					
3.8mb (4 obs.)					
VANCOUVER ISLAND REGION (25)					
<PGC>.					
PHC	2.03	30	P	31 18.15	0.0
		S	31 42.80		
BTB	2.35	76	Pc	31 22.00	-1.0
SJB	3.24	338	P	31 33.50	-1.9
BBB	3.28	10	P	31 35.00	-1.0
		S	32 12.70		
NAB	3.31	84	P	31 35.50	-1.0
		S	32 15.00		
SHB	3.43	77	P	31 37.20	-1.1
MCW	4.10	92	e(P)	31 46.52	-1.2
		e(S)	32 31.64		
WHB	4.12	71	P	31 40.00	0.0
HNB	4.25	83	P	31 49.00	-0.7
BMW	4.64	120	e(P)	31 53.79	-1.6
LON	5.34	112	eP	32 05.26	0.0
		e(S)	32 49.36		
PNT	6.18	83	P	32 16.00	-1.1
	0.5s	1.80nm		4.1mb	
DPW	7.29	95	eP	32 30.25	-2.4
SES	11.74	76	ePd	33 32.90	-1.2
YKA	15.75	25	eP	34 25.40	-1.3
	0.5s	1.30nm		3.4mb	
MSU	16.01	124	eP	34 35.22	4.7
FFC	17.61	61	eP	34 48.00	-2.4
	0.6s	9.00nm		4.1mb X	
FFC	17.61	61	eP	34 53.00	2.6
	0.6s	32.00nm		4.6mb	
ALO	21.75	122	eP	35 40.00	2.7
	0.9s	2.10nm		3.6mb	
MBC	27.66	5	eP	36 33.00	0.1
20 obs. associated					

OCT 06, 1991 07h 50m 36.85± 1.31s					
19.264 N ± 6.5km 144.734 E ± 7.2km					
DEPTH = 49.9 ± 11.7 km					
4.8mb (15 obs.)					
MARIANA ISLANDS (216)					
GUMO	5.65	179	eP	51 59.80	-0.6
IIDJ	17.24	341	eP	54 37.10	1.4
CHJJ	17.47	344	eP	54 39.00	0.5
TSRJ	17.96	336	eP	54 45.00	0.4
MAT	18.14	343	eP	54 47.00	0.1
	1.8s	81.82nm			4.6mb
		eS	58 18.00		
MTMJ	18.30	342	eP	54 47.60	-1.2
NIIJ	18.60	346	eP	54 50.70	-1.7
SHNJ	19.13	323	P	55 00.30	1.5
YAMJ	19.28	349	eP	55 01.60	1.2
OFUJ	19.92	353	eP	55 10.60	3.3X
BAG	23.16	267	eP	55 35.00	-5.1X
SSE	24.29	304	Pc	55 50.00	-0.8
	1.0s	24.00nm			4.7mb
ASAJ	24.84	356	eP	55 59.10	3.1X
MDJ	28.26	337	eP	56 27.50	0.2
TIA	29.55	311	eP	56 40.10	1.0
BJI	32.10	316	eP	57 01.00	-0.4
TIY	33.59	310	Pc	57 14.00	-0.5
BTO	36.50	313	eP	57 39.00	-0.3
CD2	38.68	296	P	58 00.40	2.7X
LZH	39.58	304	eP	58 06.00	0.8
	2.0s	31.00nm			4.8mb
		PP	59 38.00		
CHTO	43.19	277	eP	58 35.00	0.1
	1.0s	5.00nm			4.2mb
GTA	43.48	307	P	58 37.40	0.3
	2.0s	68.00nm			5.0mb
YAK	43.98	350	eP	58 38.80	-1.9
		e	00 47.00		
		e	04 04.00		
IRK	45.52	326	eP	58 52.80	-0.4
LSA	49.49	293	P	59 26.00	1.0
WMO	53.25	311	P	59 52.50	-0.3
	1.3s	30.00nm			5.2mb
AFI	54.04	124	e(P)	00 00.00	1.2
GUN	54.19	291	P	00 00.82	0.6
PKI	54.63	291	P	00 02.48	-1.0
	1.1s	19.00nm			5.0mb
KKN	54.73	291	P	00 03.94	-0.1
DMN	54.90	291	P	00 05.46	0.1
GKN	55.28	291	P	00 08.00	0.0
	1.0s	41.00nm			5.4mb
NDI	61.71	293	eP	00 53.00	0.4
FBA	63.19	26	eP	00 59.10	-2.7
	1.0s	1.70nm			4.1mb
GBA	64.46	276	Pd	01 09.70	-1.2
	1.1s	4.40nm			4.4mb
GAR	66.22	305	eP	01 20.80	-1.3
POO	66.60	282	eP	01 25.50	0.8
INK	69.22	23	eP	01 39.00	-1.1
MBC	72.83	14	eP	02 03.00	1.2
	1.1s	12.00nm			4.7mb
MAIO	75.13	304	eP	02 16.00	0.1
YKA	77.92	28	eP	02 32.10	1.3
	1.1s	5.80nm			4.5mb
SES	84.06	39	eP	03 04.80	0.4
LRM	84.96	43	eP	03 08.00	-0.4
		e	03 16.00		
SBB	85.13	55	eP	03 17.00	7.8X
GSC	85.70	54	eP	03 13.00	0.9
FFC	87.11	32	eP	03 18.00	-0.5
	0.7s	6.00nm			4.9mb
ANMO	93.62	51	eP	03 51.00	1.4
	1.2s	3.52nm			4.7mb
ALO	93.63	51	eP	03 49.00	-0.6
	1.2s	5.47nm			4.9mb
S.D. = 1.0 on 43 of 48 obs.					

* OCT 06, 1991 07h 51m 33.67± 0.36s					
16.773 S ± 9.7km 168.082 E ± 9.4km					
DEPTH = 22.2km (3 depth phases)					
5.0mb (7 obs.) 5.2Msz (5 obs.)					
VANUATU ISLANDS (186)					
CENTROID, MOMENT TENSOR (HRV)					
Dato Used: GDSN					
L.P.B.: 21S, 49C					
Centroid Location:					
Origin Time 07:51:33.2 0.6					

Lat 17.03S 0.07	Lan 168.57E 0.05	CZI 146.86 318 PKP 11 14.30 0.2	BUGC 0.26 283 eP 20 07.91 -0.4
Dep 15.2 FIX Half-duration 1.9		LOR 146.91 340 ePKP 11 14.40 0.4	eS 20 20.40
Moment Tensor: Scale 10**17 Nm		0.9s 11.40nm	HOBC 0.53 346 eP 20 08.70 0.2
Mrr= 0.07 0.04 Mtt=-0.25 0.07		Z 20s 0.43um 5.2MsZ	CLMC 0.56 275 ePd 20 08.78 0.1
Mff= 0.17 0.07 Mrt= 0.18 0.17		MNS 146.93 326 PKP 11 14.40 0.2	eS 20 21.90
Mrf=-0.28 0.18 Mtf=-1.30 0.04		SSF 147.21 340 ePKP 11 15.30 0.8	HOQC 0.73 240 eP 20 10.08 -0.1
Principal Axes:		0.8s 11.40nm	SALC 1.10 219 eP 20 13.95 0.2
T Val= 1.37 Plg=14 Azm= 50		LPL 147.37 335 ePKP 11 16.20 1.1	S.D. = 0.3 on 5 of 5 obs.
N -0.01 75 222		0.6s 4.50nm	
P -1.36 2 319		LPG 147.37 335 ePKP 11 16.40 1.2	& OCT 06, 1991 09h 22m 11.10s
Best Double Couple:Ma=1.4*10**17		0.6s 9.90nm	36.878 N 121.635 W
NP1:Strike= 94 Dip=78 Slip= 171		SOI 147.55 316 PKP 11 16.60 1.3	DEPTH = 6.0km
NP2: 185 81 12		BGF 147.87 341 ePKP 11 17.00 1.4	CENTRAL CALIFORNIA (39)
		1.0s 20.00nm	<BRK>. ML 3.4 (BRK).
DZM 5.49 196 iP 52 51.20 -5.1X		PGF 148.70 329 ePKP 11 19.10 1.9	Mo=7.2*10**14 Nm (BRK). Felt
iS 53 53.80		0.8s 12.10nm	(III) at Aptas, Aramas and San
HNR 10.77 312 eP 54 11.00 1.3		S.D. = 1.2 on 46 of 51 obs.	Juan Bautista.
BRS 17.67 231 eP 55 41.00 0.8			
iS 59 15.00		? OCT 06, 1991 08h 15m 34.24±1.78s	SAO 0.19 126 iPd 22 14.58 -0.5
COO 20.18 224 eP 56 10.00 0.3		32.615 S ±15.7km 70.358 W ±20.8km	GCC 0.33 298 iPc 22 17.75 0.0
CTAO 20.97 258 iPc 56 17.50 -0.3		DEPTH = 90.0km (geophysicist)	iS 22 23.99
i 56 23.00 20km		CHILE-ARGENTINA BORDER REGION (127)	MHC 0.46 359 iPd 22 20.95 0.5
e(S) 00 18.00			eS 22 28.40
QLP 24.18 242 eP 56 50.00 0.5		JACH 0.21 251 iPd 15 47.50 -0.3	iPd 22 22.11 -0.7
BWA 24.89 221 eP 56 54.00 -2.4		iS 16 00.00	eS 22 30.03
CNB 24.90 219 iPc 56 56.60 0.1		PEL 0.59 207 iPc 15 50.20 0.1	LLA 0.61 115 iPc 22 22.97 -0.4
0.9s 22.00nm 4.8mb		iS 16 04.20	PCC 0.86 316 iPc 22 27.11 -0.9
i 57 17.90 98kmX		ROCH 0.65 237 iPc 15 51.00 0.2	PRI 1.07 133 iPd 22 30.91 -0.8
CMS 24.97 230 eP 56 56.00 -1.1		iS 16 05.50	iS 22 48.53
CAN 25.12 219 eP 56 59.00 0.4		SAN 0.87 197 iPc 15 53.20 0.4	BKS 1.11 335 eP 22 31.30 -0.9
QIS 27.22 258 eP 57 17.00 -1.1		iS 16 09.20	eS 22 47.80
e 00 25.00		PCH 1.01 187 iPc 15 54.50 0.0	ZSP 1.17 335 iPc 22 32.35 -1.0
STK 28.34 233 iPd 57 29.30 1.2		iS 16 12.80	iS 22 49.68
0.8s 8.00nm 4.5mb		TACH 1.14 205 iPc 15 55.90 0.0	PHAM 1.44 136 ePn 22 36.05 -1.7
i 59 34.30		iS 16 14.50	PKEM 1.48 123 ePn 22 37.22 -1.0
ASPA 32.74 252 iPc 58 05.30 -1.9		LCCH 1.33 230 eP 15 58.50 0.3	CMB 1.52 40 iPc 22 38.11 -0.8
0.6s 55.30nm 5.7mb		CHCH 1.34 191 iPc 15 58.30 -0.1	FRI 1.55 85 iPc 22 37.24 -2.0
Z 21s 6.50um 5.3MsZ		iS 16 19.10	eS 22 57.09
MAT 60.07 332 eP 01 40.00 -1.4		LNV 1.60 213 iPc 16 01.00 -0.7	NWRM 1.86 328 ePn 22 40.02 -3.8
0.8s 4.48nm 4.6mb		iS 16 23.10	BCH 2.11 143 ePn 22 44.88 -2.6
eS 09 49.00		S.D. = 0.4 on 9 of 9 obs.	ORV 2.68 2 ePn 22 54.92 -0.6
CN2 71.79 329 eP 02 54.60 -1.8			ABL 2.82 135 ePn 22 54.72 -3.0
Z 19s 1.35um 5.2MsZ		% OCT 06, 1991 09h 14m 04.70±1.14s	BONR 2.86 67 ePn 22 58.30 -0.1
BJI 74.34 321 eP 03 13.00 1.6		42.390 N ±7.4km 19.823 E ±8.0km	KVN 3.54 51 ePn 23 12.22 4.3
Z 26s 1.53um 5.2MsZ		DEPTH = 10.0km (geophysicist)	SSK 4.17 128 ePn 23 15.83 -1.0
eS 12 42.00		NORTHWESTERN BALKAN REGION (383)	LBFM 4.47 358 eP 23 21.46 0.4
eSS 17 26.00		ML 2.3 (TTG).	PEC 4.72 128 eP 23 24.15 -0.4
TIY 75.28 317 eP 03 18.00 1.0			PLM 5.26 131 eP 23 31.52 -0.8
Z 18s 0.73um 5.0MsZ		PVY 0.23 28 iPgC 14 09.76 0.0	23 obs. associated
iS 03 47.50 2.8X		iSg 14 13.60	
LZH 80.27 312 eP 03 47.50 2.8X		TTG 0.42 276 iPgC 14 12.98 -0.3	* OCT 06, 1991 09h 26m 30.92±1.87s
2.0s 35.00nm 5.0mb		iSg 14 19.94	3.762 N ±8.5km 126.087 E ±14.6km
Z 28s 0.92um 5.0MsZ		IVA 0.48 7 iPgD 14 14.46 -0.1	DEPTH = 109.0 ±18.3 km
E 10s 0.22um		iSg 14 21.56	4.7mb (5 obs.)
pP 03 56.00 27km		ULC 0.60 225 iPgD 14 16.88 0.0	TALAUD ISLANDS, INDONESIA (263)
GTA 84.64 314 eP 04 06.80 -0.3		iSg 14 26.42	AAI 7.69 164 ePc 28 20.90 -1.0
1.4s 19.00nm 5.1mb		NKY 0.74 305 iPgC 14 19.18 -0.1	eS 29 46.20
Z 24s 0.75um 5.0MsZ		iSg 14 30.38	KKM 10.09 283 ePc 28 55.40 0.9
E 14s 0.47um		BDV 0.75 262 iPgD 14 19.46 0.1	0.6s 40.10nm 5.5mb
pP 04 13.00 20km		PLE 0.99 342 iPgD 14 23.74 0.2	GUMO 20.95 61 eP 30 39.00 -28.0X
BCH 85.40 51 P 04 12.50 1.5		iSg 14 30.90	OIS 27.57 152 eP 32 11.00 1.3
ABL 85.92 52 P 04 15.30 1.6		BRY 1.07 299 ePg 14 25.22 0.2	WARB 29.77 179 eP 32 30.10 0.7
ORV 86.20 47 P 04 13.10 -1.6		S.D. = 0.2 on 8 of 8 obs.	0.4s 7.00nm 4.7mb
CMB 86.35 49 P 04 14.80 -0.8		? OCT 06, 1991 09h 15m 22.01±4.71s	MRWA 34.19 196 eP 33 07.30 -0.6
MWC 86.55 53 eP 04 15.00 -1.8		4.187 N ±25.1km 77.020 W ±34.9km	FORR 34.47 177 eP 33 10.00 -0.2
PLM 87.14 54 eP 04 21.00 1.3		DEPTH = 33.0km (normal)	MAT 34.48 17 iPc 33 09.60 -0.7
FBA 88.06 17 P 04 20.70 -2.4		NEAR WEST COAST OF COLOMBIA (102)	0.8s 6.72nm 4.5mb
GMW 88.84 39 P 04 26.90 -0.4		MD 2.7 (UVC).	COOL 34.77 187 eP 33 12.00 -0.9
MCW 89.32 38 P 04 29.00 -0.6			BAL 35.33 194 eP 33 17.00 -0.6
RMW 89.40 40 P 04 28.60 -1.4		CLMC 0.55 124 iPc 15 33.74 0.3	KLB 36.04 192 eP 33 23.00 -0.5
NVL 91.15 188 eP 04 38.00 0.3		eS 15 40.60	MUN 36.76 194 eP 33 29.40 -0.2
PNT 91.51 39 eP 04 39.00 -0.6		ANCC 0.68 167 ePc 15 35.58 0.3	BJI 37.21 347 eP 33 38.00 4.8X
0.8s 8.00nm 5.1mb		eS 15 43.80	NWAO 37.44 192 eP 33 35.00 -0.3
WMO 94.71 314 eP 04 54.00 -0.6		HOQC 0.81 152 ePc 15 36.77 -0.5	STK 38.39 159 eP 33 46.50 3.2X
LPB 115.49 118 PKP 10 06.00 -11.0X		BUGC 0.82 111 iPc 15 37.18 0.0	0.6s 2.30nm 4.2mb
ZOBO 115.59 118 PKP 10 18.00 0.6		eS 15 46.70	ADE 40.31 164 eP 34 01.60 2.5
LR 45 52.00		HOBC 0.90 79 eP 15 38.34 0.0	YAK 58.18 2 iP 36 15.60 0.2
CDF 144.75 338 ePKP 11 08.00 -2.5X		S.D. = 0.5 on 5 of 5 obs.	NB2 98.47 333 P 39 57.30 -0.6
1.0s 24.00nm			0.8s 3.10nm 4.9mb
HAU 145.43 338 ePKP 11 09.80 -1.8		? OCT 06, 1991 09h 19m 51.04±2.70s	S.D. = 1.1 on 15 of 18 obs.
1.2s 29.75nm		3.835 N ±25.4km 76.005 W ±56.8km	OCT 06, 1991 09h 48m 49.95±0.57s
Z 20s 0.35um 5.1MsZ		DEPTH = 110.0km (geophysicist)	37.145 N ±10.8km 101.357 E ±7.4km
ARV 146.02 327 PKP 11 11.90 -0.8		COLOMBIA (103)	DEPTH = 10.0km (geophysicist)
SFI 146.28 328 PKP 11 13.70 0.6		MD 3.0 (UVC).	4.2mb (8 obs.)
PGD 146.38 328 PKP 11 14.50 1.0			QINGHAI, CHINA (325)
ROI 146.39 318 PKP 11 14.40 0.9			
CSI 146.45 319 PKP 11 13.00 -0.5			
TDS 146.48 319 PKP 11 15.80 2.2X			

06d 09h

ML 4.2 (BJI).						MAT 35.18 263 iPc 19 45.70 -0.1						GKN 73.95 295 P 24 26.48 -0.5					
1.0s 17.00nm 4.9mb						25 13.00 4.9mb						DMN 73.98 294 P 24 27.22 -0.1					
LZH	2.26	117	Pgd	49 41.00	12.9X	RMW	35.18	74	eP	19 53.00	7.2X	KHT	75.47	276	eP	24 37.00	1.3
GTA	2.57	332	Pg	49 32.00	-0.4	LON	35.50	75	eP	19 54.00	5.5X	BRG	78.04	353	e(P)	24 49.80	0.3
BTO	7.58	60	ePn	50 42.90	-0.4	PNT	35.68	70	eP	19 51.00	1.1	GRF	79.39	355	eP	24 57.50	0.6
HHC	8.76	62	P	50 59.40	-0.3		0.8s	19.00nm		5.1mb			1.4s	16.00nm		4.8mb	
TIY	8.83	83	Pc	51 04.70	4.1X	MDJ	36.05	281	eP	19 51.00	-2.1	KHC	79.80	353	eP	25 00.00	0.9
Z	11s	1.11um				DPW	37.16	71	(P)	20 02.80	0.4			e	25 04.00		
WHN	12.64	118	eP	52 01.00	8.4X	NEW	37.63	70	(P)	20 06.80	0.5	MAIO	80.08	317	eP	25 02.00	1.1
GUN	15.96	239	P	52 39.48	3.0X		1.0s	40.00nm		5.2mb		ZST	80.42	351	eP	25 03.70	1.3
	0.6s	14.00nm		4.3mb		LBFM	38.21	83	P	20 22.40	10.9X	LDF	80.66	2	eP	25 03.50	-0.2
KKN	16.45	240	P	52 42.22	-0.3	CN2	39.03	283	eP	20 17.00	-1.0		1.2s	32.75nm		5.2mb	
PKI	16.49	239	P	52 39.36	-3.9X		1.0s	11.00nm		4.6mb		GRR	80.84	3	eP	25 05.20	0.6
	1.0s	11.00nm		4.0mb		Z	20s	1.19um		4.7MsZ			1.2s	26.80nm		5.1mb	
DMN	16.68	240	P	52 44.96	-0.6	SES	40.19	64	eP	20 28.00	0.4	KBA	81.86	353	e(P)	25 09.00	-1.2
	0.6s	8.00nm		4.1mb		SNY	41.26	281	Pc	20 37.00	0.6	SSF	82.24	360	eP	25 13.70	1.8
GKN	16.76	242	P	52 47.16	0.6		1.2s	70.00nm		5.3mb			1.2s	14.90nm		4.9mb	
	0.6s	9.00nm		4.0mb		LRM	41.61	71	eP	20 40.20	0.6	LBF	82.32	360	eP	25 13.60	1.2
CN2	19.46	63	eP	53 19.40	-0.2	HPI	42.34	74	eP	20 47.00	1.3		0.9s	5.75nm		4.6mb	
GBA	31.71	229	Pd	55 25.00	9.0X	PTI	43.25	75	eP	20 53.50	0.6	AVF	82.51	0	eP	25 15.00	1.7
	0.6s	3.70nm		4.5mb		HVU	43.62	76	(P)	20 57.00	1.1		1.2s	17.85nm		5.0mb	
NB2	58.38	325	P	58 47.20	-0.3	SBB	44.78	88	eP	21 07.00	1.7	SMF	82.66	360	eP	25 15.60	1.5
	1.0s	2.40nm		4.2mb		MWC	44.93	89	eP	21 04.00	-2.7		1.2s	41.65nm		5.4mb	
FBA	65.01	26	iP	59 33.20	1.3	BW06	45.01	73	eP	21 07.00	-0.3	LSF	83.04	1	eP	25 17.70	1.6
	1.0s	1.60nm		4.2mb			0.8s	13.10nm		4.9mb			1.2s	17.85nm		5.0mb	
YKA	76.57	16	eP	00 42.40	0.7	GSC	45.03	87	eP	21 08.00	0.7	MAF	83.08	1	eP	25 17.60	1.3
	1.0s	2.50nm		4.3mb		MSU	45.92	80	eP	21 14.50	0.0		1.0s	8.00nm		4.8mb	
S.D. = 0.7 on 10 of 16 obs.						PLM	46.25	89	eP	21 17.00	-0.1	RJF	83.99	1	eP	25 22.80	1.9
* OCT 06, 1991 09h 52m 32.64± 1.27s						BJI	46.85	284	eP	21 22.00	0.5		1.2s	29.75nm		5.3mb	
12.886 N ±26.6km 90.488 W ±13.0km						Z	16s	0.29um		4.3MsZ		Z	20s	0.13um		4.3MsZ	
DEPTH = 33.0km (normal)						TIA	48.64	279	eP	21 35.20	-0.3	LFF	84.34	2	eP	25 23.70	1.0
4.2mb (5 obs.)						HHC	49.16	288	eP	21 39.80	0.1	CAF	84.37	1	eP	25 23.20	0.3
OFF COAST OF CENTRAL AMERICA (76)							1.2s	56.00nm		5.5mb			1.2s	20.85nm		5.2mb	
TPX	2.64	320	(P)	53 35.50	21.6X	HHC	49.16	288	eP	21 41.00	1.3	LPO	84.60	2	eP	25 24.80	0.8
OXX	7.33	305	(P)	54 20.00	-0.3	GOL	49.38	74	eP	21 41.00	-0.5		0.8s	14.80nm		5.2mb	
PPM	9.95	309	(P)	54 57.50	0.6		1.0s	15.00nm		5.0mb		PGD	85.16	354	Pd	25 29.00	1.9
III	10.23	303	(P)	54 59.00	-1.5	SSE	49.45	271	P	21 41.00	-0.8	HYB	85.67	292	eP	25 30.00	0.2
MRX	12.31	305	(P)	55 29.00	0.5		1.0s	15.00nm		5.0mb		ASPA	86.26	224	eP	25 42.40	9.9X
SDV	19.90	100	eP	57 05.00	0.4	Z	20s	0.50um		4.5MsZ			1.1s	4.40nm		4.6mb	
TOV	20.52	96	eP	57 10.10	-0.9	BTO	50.24	288	P	21 49.00	1.1	POO	87.49	297	iPd	25 41.80	3.1X
TUL	23.42	349	eP	57 38.50	-1.2	NJ2	50.27	274	Pd	21 48.00	-0.1	MGR	88.55	351	Pd	25 43.60	0.1
	0.6s	0.70nm		3.3mb	TIY	50.58	284	Pc	21 51.30	0.8	GBA	89.34	291	P	26 06.00	18.5X	
ALO	26.29	329	eP	58 07.20	-0.1		1.2s	70.00nm		5.5mb			0.7s	6.20nm			
	1.0s	3.00nm		3.9mb	Z	16s	0.83um		4.8MsZ		BUL	143.35	318	iPKPc	32 23.40	-2.4	
ANMO	26.30	329	eP	58 07.80	0.5	ANMO	51.73	80	eP	21 58.50	-0.9		1.0s	7.50nm			
MSU	31.98	327	eP	58 58.50	0.3		1.0s	7.50nm		4.6mb		MAW	147.13	217	ePKP	32 33.00	2.6X
GSC	32.60	318	eP	59 04.00	0.5	ALO	51.73	80	eP	21 59.50	0.1		1.0s	17.00nm			
BW06	34.05	335	eP	59 16.00	-0.2		1.0s	5.00nm		4.4mb		BFT	147.53	311	ePKP	32 50.50	17.8X
LRM	37.74	335	eP	59 49.30	1.9	ACO	55.06	73	e(P)	22 22.10	-1.7		0.7s	27.40nm			
SIV	40.86	134	eP	00 03.00	-10.4X	XAN	55.14	283	eP	22 19.50	-4.9X	SLR	148.39	314	ePKP	32 37.00	3.0X
LON	42.80	328	eP	00 28.50	-0.5		1.0s	16.00nm		5.0mb			0.9s	21.01nm			
PNT	43.53	332	eP	00 37.00	2.1X	MEO	56.68	74	e(P)	22 35.00	-0.5	KSR	149.13	316	ePKP	32 23.00	-12.2X
	0.7s	4.00nm		4.3mb	LZH	56.86	288	eP	22 37.00	0.1		1.0s	15.00nm				
YKA	52.45	346	eP	01 43.70	-0.4		1.4s	110.00nm		5.7mb		WIN	149.64	335	ePKP	32 40.50	4.4X
	0.8s	2.80nm		4.3mb	Z	18s	0.74um		4.8MsZ			1.0s	30.00nm				
INK	61.92	343	eP	02 50.50	-0.6	E	10s	0.22um				PRY	149.79	314	ePKP	32 41.50	5.4X
NB2	84.42	29	P	05 03.90	0.9			sP	22 50.50			SEK	150.90	312	ePKP	32 28.40	-9.4X
	0.9s	2.60nm		4.4mb	GTA	57.02	293	Pc	22 36.80	-1.2			i	32 52.30			
HYB	148.00	20	ePKP	12 15.00	1.0X		0.8s	60.00nm		5.7mb		VIR	151.05	314	iPKPc	32 46.00	8.0X
GBA	151.09	25	PKPd	12 21.90	3.2X	TUL	57.60	72	ePc	22 38.90	-3.0X		0.8s	17.91nm			
	0.8s	3.70nm					0.8s	2.20nm		4.3mb		BLF	152.23	314	ePKP	32 45.00	5.3X
S.D. = 0.9 on 17 of 22 obs.						FVM	59.36	66	eP	22 51.50	-2.7	S.D. = 1.1 on 81 of 101 obs.					
OCT 06, 1991 10h 12m 53.10± 0.37s						CD2	60.45	284	P	23 01.20	-0.6	* OCT 06, 1991 10h 14m 50.80± 0.94s					
51.077 N ±10.1km 176.496 W ± 4.0km							1.0s	61.00nm		5.7mb		38.631 N ± 9.2km 118.680 W ± 8.4km					
DEPTH = 33.0km (normal)						WMO	60.72	304	P	23 02.50	-1.0	DEPTH = 5.0km (geophysicist)					
5.1mb (40 obs.) 4.7MsZ (5 obs.)							0.8s	9.70nm		5.0mb		CALIFORNIA-NEVADA BORDER REGION (40)					
ANDREANOF ISLANDS, ALEUTIAN IS. (7)						Z	19s	0.84um		4.9MsZ		ML 2.9 (GS).					
ML 4.1 (PMR).						GYA	61.80	278	P	23 10.60	-0.5	KVN	0.62	47	iPc	15 03.12	-0.1
ADK	0.82	352	e(P)	13 04.00	-4.1X	BLA	65.55	61	eP	23 35.00	-0.4	BONR	0.74	156	iPd	15 05.59	0.0
SMY	6.05	290	e(P)	14 20.00	-2.5X	CVL	66.06	59	eP	23 38.30	-0.3	CMB	1.47	247	ePn	15 16.41	-1.6
SDN	10.50	60	eP	15 21.50	-2.7X	JSC	67.21	63	eP	23 45.00	-1.0	ORV	2.38	294	eP	15 31.40	0.3
KDC	15.43	55	e(P)	16 28.50	-1.2	NB2	68.06	356	P	23 49.80	-1.2	ARN	2.59	241	ePn	15 35.47	1.3
TTA	16.20	35	eP	16 39.50	-0.1		0.9s	4.70nm		4.6mb		S.D. = 1.5 on 5 of 5 obs.					
IMA	18.98	29	eP	17 13.00	-1.1	HFS	68.84	355	eP	23 54.50	-1.2	OCT 06, 1991 10h 32m 46.97± 0.37s					
FBA	20.31	36	eP	17 27.00	-1.6		0.9s	8.10nm		4.8mb		51.092 N ± 9.4km 176.499 W ± 3.9km					
INK	26.89	34	eP	18 30.00	-2.3	OBN	70.66	341	eP	24 06.00	-0.8	DEPTH = 33.0km (normal)					
		pP		18 44.00	57kmX	Z	17s	0.50um		4.8MsZ		4.7mb (27 obs.)					
YAK	30.69	312	eP	19 04.10	-2.4	SHL	71.52	288	eP	24 12.00	-0.8	ANDREANOF ISLANDS, ALEUTIAN IS. (7)					
		e		22 12.00		GUN	73.31	294	P	24 23.44	-0.1	ML 4.2 (PMR).					
MBC	33.35	21	eP	19 30.00	0.4	KKN	73.75	294	P	24 25.68	-0.2	ADK	0.80	352	iPc	33 03.50	1.7
	1.0s	27.00nm		5.1mb	EKA	73.81	4	P	24 26.00	0.5	SMY	6.04	289	eP	34 19.00	2.7	
GMW	34.54	74	eP	19 41.50													

	10.49	60	eP	35	15.20	-2.8X	FLN	80.47	3	eP	44	56.60	0.1	GUN	17.89	295	P	54	56.42	0.9	
KDC	15.43	55	eP	36	21.00	-2.5X		0.8s	10.75nm			4.9mb			1.0s	127.00nm			5.0mb		
TTA	16.19	35	eP	36	35.50	2.2X	LDF	80.65	2	eP	44	57.10	-0.3	PKI	18.20	293	P	54	58.18	-1.1	
RSO	16.23	46	P	36	35.80	1.8X		0.5s	4.35nm			4.7mb			0.7s	26.00nm			4.5mb		
SLKM	17.41	47	P	36	45.90	-2.7X	CDF	80.82	357	eP	44	57.90	-0.6	GTA	18.36	349	Pd	55	01.20	0.2	
PMR	18.30	44	eP	36	57.00	-2.6X	GRR	80.83	3	eP	44	58.00	-0.4		1.0s	42.00nm			4.6mb		
IMA	18.97	29	eP	37	07.30	-0.6		0.6s	5.40nm			4.7mb		Z	15s	1.51um			5.0Ms2X		
RND	19.19	39	P	37	08.40	-2.0X	LPF	81.18	3	eP	45	00.10	-0.1	E	10s	1.59um					
KLU	19.71	46	P	37	13.10	-3.2X		0.6s	3.60nm			4.6mb		KKN	18.37	294	P	55	00.44	-0.8	
FBA	20.30	36	eP	37	20.00	-2.3X	BSF	81.42	358	eP	45	01.20	-0.4	DMN	18.47	293	P	55	01.48	-1.0	
BALM	21.26	49	P	37	33.70	1.4	QUE	81.71	308	eP	45	05.50	1.9	TIA	18.57	35	eP	55	04.90	1.5	
INK	26.88	34	eP	38	24.00	-2.1	KBA	81.84	353	eP	45	04.00	0.0		N	11s	1.75um				
MBC	33.34	21	ePc	39	23.20	-0.2	AVF	82.50	0	eP	45	07.80	0.7	E	11s	3.33um					
	0.6s		10.00nm			4.9mb		0.6s	1.80nm			4.3mb				S		58	30.00		
YKA	34.38	46	eP	39	32.70	0.2	SMF	82.64	360	eP	45	08.50	0.6	GKN	18.97	294	P	55	07.94	-0.7	
	0.4s		1.10nm			4.1mb		0.8s	6.05nm			4.7mb		BTO	19.78	13	eP	55	18.00	0.2	
MAT	35.18	263	eP	39	39.00	-0.7	BGF	82.73	0	eP	45	09.40	1.0		1.2s	50.00nm			4.7mb		
	0.8s		4.48nm			4.4mb		0.6s	3.60nm			4.6mb		Z	10s	0.88um					
LON	35.50	75	eP	39	44.00	1.7	MAF	83.07	1	eP	45	11.80	1.7	HHC	20.38	16	P	55	25.40	1.2	
PNT	35.68	70	ePc	39	45.00	1.2		0.6s	2.70nm			4.5mb			1.3s	34.00nm			4.5mb		
	0.6s		11.00nm			5.0mb	HYB	85.67	292	eP	45	23.00	-0.7	Z	10s	3.43um			5.0Ms2X		
DPW	37.16	71	eP	39	57.00	0.7	POO	87.48	297	eP	45	36.00	3.5X	N	10s	3.23um					
NEW	37.63	70	eP	40	00.50	0.3	MGR	88.54	351	P	45	36.90	-0.4	E	10s	4.34um					
	0.8s		20.83nm			5.0mb	MAW	147.14	217	e(PKP)	52	31.00	6.7X	BJI	21.20	26	eP	55	34.50	2.0	
SES	40.19	64	ePc	40	21.90	0.4	BFT	147.52	311	ePKP	52	26.00	-0.6		1.4s	29.00nm			4.5mb		
SNY	41.25	281	Pd	40	30.60	0.4		0.9s	37.82nm					Z	16s	1.75um			4.5Ms2X		
	0.8s		24.00nm			5.0mb	SLR	148.38	314	iPKPc	52	31.00	3.1X	E	11s	2.20um					
LRM	41.60	71	eP	40	33.30	-0.1		0.9s	12.60nm					HYB	24.53	265	eP	56	07.00	1.5	
BONR	42.44	85	P	40	41.70	1.3	KSR	149.11	316	ePKP	52	16.00	-13.1X	NDI	25.50	292	eP	56	14.00	-0.6	
HVU	43.62	76	P	40	50.50	0.7	WIN	149.62	335	ePKP	52	34.00	4.1X	WMO	26.26	332	P	56	23.00	1.4	
DUG	44.52	78	P	40	57.90	0.8		1.0s	16.00nm						1.4s	14.00nm			4.5mb		
BW06	45.01	73	eP	41	00.70	-0.4	PRY	149.77	314	e(PKP)	52	37.00	7.0X	Z	12s	1.06um			4.6Ms2X		
	0.8s		11.90nm			4.8mb	SEK	150.89	312	ePKP	52	36.00	4.4X	N	10s	1.17um					
MSU	45.92	80	eP	41	09.20	0.8		0.6s	13.33nm							PP		57	06.30		
BJI	46.85	284	eP	41	15.50	0.2	VIR	151.04	314	ePKP	52	39.50	7.7X			PcP		59	47.00		
	1.0s		13.00nm			4.9mb	BLF	152.22	314	ePKP	52	38.50	4.9X			S		00	49.00		
RSSD	47.53	69	eP	41	20.20	-0.8		S.D. = 1.0	on 69 of 88 obs.							PcS		03	27.60		
	0.7s		69.20nm			5.8mb X								GBA	26.67	258	Pc	56	25.50	0.0	
TIA	48.64	279	Pd	41	29.30	-0.1		OCT 06, 1991 10h 50m 44.46± 0.50s								0.8s	6.80nm			4.4mb	
HHC	49.16	288	eP	41	33.50	0.0		21.384 N ± 6.8km 104.231 E ± 5.1km						CN2	28.47	33	eP	56	42.00	0.4	
GOL	49.37	74	eP	41	35.50	0.1		DEPTH = 10.0km (geophysicist)						POO	28.68	270	eP	56	46.50	2.7X	
	0.7s		5.70nm			4.7mb		4.5mb (15 obs.)					QUE	34.57	292	eP	57	36.00	0.2		
BTO	50.24	288	eP	41	42.50	0.7		SOUTHEAST ASIA (299)					MAIO	41.54	301	eP	58	35.00	1.1		
ANMO	51.73	80	eP	41	52.50	-0.8		Felt strongly in the Son La City						1.0s	10.00nm			4.5mb			
ALO	51.73	80	eP	41	52.50	-0.8		area, Vietnam.					YAK	44.24	17	eP	58	54.60	-0.8		
	1.2s		4.69nm			4.3mb	KMI	3.97	340	Pnd	51	48.00	1.1	ASPA	53.29	146	iPc	00	09.10	3.2X	
ACO	55.06	73	e(P)	42	18.10	0.4				Pb	51	55.00			1.5s	3.80nm			4.1mb		
XAN	55.13	283	eP	42	16.90	-1.4				Pg	52	02.00		OBN	59.97	322	eP	00	53.00	-0.2	
LZH	56.85	288	eP	42	30.00	-0.7				Sn	52	31.00			1.2s	*****nm			8.2mb X		
	1.5s		76.00nm			5.5mb				Sg	52	46.00		SOD	65.69	335	iP	01	30.00	-0.9	
			pP	42	42.00	42kmX	KMI	3.97	340	Pg	52	02.00	15.1X	HFS	71.97	328	eP	02	11.60	1.7	
GTA	57.01	293	iPc	42	31.40	-0.4	CHTO	5.59	244	ePn	52	07.30	-2.4		0.5s	2.00nm			4.5mb		
	1.0s		51.00nm			5.5mb	OIZ	5.77	113	ePn	52	11.40	-0.8	KSP	72.45	318	ePc	02	13.10	0.1	
			pP	42	45.80	53kmX		0.7s	89.00nm			5.6mb	NB2	72.98	329	P	02	14.00	-1.9		
SIO	57.40	72	eP	42	36.60	2.2		N	11s	6.71um				0.8s	4.20nm			4.6mb			
TUL	57.60	72	eP	42	34.20	-1.6				eS	53	15.00		PRU	73.73	318	eP	02	20.00	-0.5	
	0.8s		3.20nm			4.4mb	KHT	8.47	220	eP	52	52.00	1.8	BRG	73.89	319	e(P)	02	21.00	-0.3	
FVM	59.35	66	eP	42	46.50	-1.5	GZH	8.61	77	Pc	52	51.40	-0.7	KHC	74.55	317	eP	02	26.00	0.7	
ELC	60.52	66	eP	42	54.50	-1.5		0.8s	110.00nm			6.2mb X	MBC	79.02	10	ePc	02	50.90	1.1		
GYA	61.79	278	P	43	04.20	-0.7	MCO	8.70	83	eP	53	28.60	35.3X		1.0s	8.00nm			4.7mb		
HNR	63.64	206	eP	43	31.00	14.1X	CD2	9.50	358	P	53	03.00	-1.3	INK	81.28	19	eP	03	02.00	0.1	
GBTN	64.53	64	eP	43	21.80	-0.9		0.7s	43.00nm			6.0mb X		S.D. = 1.2	on 40 of 45 obs.						
KAF	65.70	348	iP	43	28.20	-1.6		Z	10s	5.72um						OCT 06, 1991 12h 06m 51.21± 0.73s					
	0.6s		4.20nm			4.7mb	SHL	12.07	293	eP	53	39.50	-0.2			39.241 N ± 6.3km 23.452 E ± 7.4km					
CVL	66.05	59	eP	43	32.50	0.1				eS	57	02.00				DEPTH = 10.0km (geophysicist)					
JSC	67.21	63	eP	43	40.00	0.2				eS	53	49.00	-1.3	AEGEAN SEA (365)							
LHS	67.31	63	eP	43	40.30	-0.2	WHN	12.88	43	eP	53	49.00	-1.3		ML 2.9 (ATH).						
NB2	68.05	356	P	43	42.80	-1.9	XAN	13.27	17	P	53	53.50	-2.0								
	0.9s		3.90nm			4.5mb		N	14s	8.87um				PAIG	0.71	14	ePg	07	05.44	0.3	
UPP	68.82	352	iP	43	48.60	-0.8		E	12s	12.80um						eSg		07	15.92		
HFS	68.82	355	eP	43	47.30	-2.2				sP	54	08.00		AGG	0.90	256	ePg	07	08.44	0.0	
	0.2s		0.40nm			4.1mb				S	56	21.60				eSg		07	21.80		
SHL	71.52	288	eP	44	06.00	-0.6	LSA	14.41	308	eP	54	12.00	1.0	LIT	1.13	319	ePg	07	12.48	0.0	
GAR	72.97	311	eP	44	14.60	-0.3	LZH	14.65	359	eP	54	12.50	-1.3	ATH	1.28	171	ePb	07	14.00	-1.0	
GUN	73.30	294	P	44	17.98	0.7		1.5s	54.00nm			4.9mb		THE	1.44	345	ePb	07	17.48	0.2	
	0.4s		119.00nm			6.2mb X		Z	10s	1.70um			5.3Ms2			eSb		07	34.52		
KKN	73.74	294	P	44	20.06	0.4		N	10s	2.62um											
	0.7s		47.00nm			5.6mb		E	10s	6.88um				SOH	1.58	357	iPb	07	19.24	-0.1	
EKA	73.80	4	P	44	19.00	-0.3				PP	54	22.00		KZN	1.68	310	ePn	07	23.30	2.5	
	1.4s		17.30nm			4.9mb				eS	56	57.50		SRS	1.88	3	ePbc	07	22.84	-0.8	
PKI	73.83	294	P	44	20.52	0.2				SS	57	10.00		KNT	1.96	348	iPbc	07	25.04	0.1	
GKN	73.95	295	P																		

* OCT 06, 1991 12h 18m 12.02±0.67s
37.677 N ±11.4km 101.437 E ± 8.1km
DEPTH = 10.0km (geophysicist)
4.1mb (2 obs.)
QINGHAI, CHINA (325)
ML 4.2 (BJI).

GTA 2.15 324 Pg 18 49.90 1.4
Z 10s 3.40um
Sg 19 16.00
LZH 2.50 129 Pnc 18 58.00 4.5X
Z 10s 1.97um
Pg 19 02.00
Sg 19 35.00
BTO 7.28 64 ePn 20 01.00 -0.1
Sg 21 56.90
HHC 8.47 65 P 20 16.20 -1.6
TIY 8.72 86 eP 20 21.80 0.6
Z 11s 1.24um
GYA 12.03 157 P 21 10.60 4.1X
N 10s 0.31um
E 10s 0.56um
WMO 12.09 305 eP 21 09.50 2.2X
Z 14s 0.37um
GUN 16.29 238 P 22 02.88 0.1
KKN 16.77 239 P 22 08.34 -0.4
PKI 16.83 238 P 22 08.46 -1.1
DMN 17.01 239 P 22 10.18 -1.5
GKN 17.08 240 P 22 14.86 2.3X
CHTO 18.92 187 eP 22 37.10 1.8
1.0s 4.25nm 3.6mb
GBA 32.11 228 Pd 24 42.30 0.7
0.8s 5.70nm 4.6mb
S.D. = 1.3 on 10 of 14 abs.

? OCT 06, 1991 12h 32m 49.07±8.09s
42.816 N ±35.1km 127.341 W ±55.2km
DEPTH = 10.0km (geophysicist)
OFF COAST OF OREGON (30)

DBO 3.02 83 P 33 38.10 0.2
HSO 3.19 76 Pc 33 39.96 -0.4
HBO 3.80 73 Pd 33 49.68 0.5
KMOR 3.95 43 P 33 50.23 -0.9
S 34 30.27
NLO 4.30 39 Pd 33 55.94 -0.1
GT2 4.34 56 P 33 56.92 0.2
PGO 4.40 51 P 33 57.68 0.2
RVW 4.68 43 P 34 01.45 0.0
VLMM 4.68 53 Pd 34 01.53 -0.1
S 34 49.83
TDH 4.70 56 P 34 01.86 -0.1
VBEM 4.72 60 P 34 02.33 0.1
LVP 4.80 46 Pd 34 03.53 0.3
VLL 4.86 55 P 34 04.35 0.3
MTMW 4.88 47 P 34 03.99 -0.3
FL2 4.92 45 P 34 05.18 0.3
VFP 4.92 57 P 34 05.45 0.5
JLK 4.99 46 P 34 05.72 -0.1
ERK 4.99 44 P 34 05.83 -0.1
CZM 5.00 42 P 34 06.32 0.4
APM 5.00 52 P 34 06.08 0.1
CDFW 5.02 47 Pd 34 06.06 -0.2
TDL 5.09 44 P 34 07.14 -0.1
GULW 5.16 51 P 34 08.57 0.3
VIPM 5.16 69 P 34 07.74 -0.7
KOSW 5.18 43 P 34 08.79 0.3
ASR 5.29 49 Pd 34 10.29 0.1
VTHM 5.43 62 P 34 11.80 -0.3
LON 5.56 43 P 34 14.29 0.3
REMR 5.60 42 Pd 34 14.66 0.1
RVC 5.62 41 Pc 34 15.03 0.3
GL2 5.63 54 P 34 14.53 -0.4
WPW 5.66 45 P 34 14.29 -1.1
FMW 5.76 42 P 34 16.83 0.0
GSM 5.89 40 P 34 18.63 0.1
EBG 6.32 47 P 34 24.53 0.0
S.D. = 0.4 on 35 of 35 obs.

& OCT 06, 1991 13h 22m 00.40s
36.867 N 121.628 W
DEPTH = 8.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.7 (BRK).

SAO 0.18 125 iPd 22 03.72 -0.6

GCC 0.34 299 iPc 22 07.22 -0.1
MHC 0.47 359 ePd 22 10.45 0.5
eS 22 17.65
ARN 0.49 9 iPc 22 10.40 0.2
PRS 0.57 159 iPd 22 11.28 -0.7
LLA 0.60 114 iPc 22 12.11 -0.4
iS 22 21.11
PCC 0.87 317 iPc 22 16.63 -0.7
eS 22 31.62
PRI 1.06 133 iPd 22 20.60 -0.1
PHAM 1.43 136 eP 22 25.00 -1.7
FRI 1.54 85 iPc 22 27.64 -0.6
BCH 2.09 143 eP 22 34.50 -1.8
11 obs. associated

OCT 06, 1991 13h 41m 13.11±1.33s
9.021 N ± 6.8km 122.609 E ± 7.7km
DEPTH = 75.7 ± 14.3 km
4.8mb (11 obs.)
NEGROS, PHILIPPINE ISLANDS (257)

DAV 3.51 123 eP 42 08.00 1.6
KKN 7.00 245 iPd 42 52.50 -2.6
0.5s 59.90nm 5.5mb X
e 44 04.20
BAG 7.61 345 eP 43 06.90 3.3X
QZH 16.29 347 P 45 02.50 3.9X
IPM 21.88 260 ePc 46 02.60 1.3
SSE 22.00 357 Pc 46 02.50 0.1
1.5s 150.00nm 5.2mb
Z 16s 0.40um 3.9mszX
GUMO 22.29 76 eP 45 59.00 -6.3X
e 46 13.10
WHN 22.76 341 eP 46 10.00 0.2
GYA 23.01 321 eP 46 18.40 6.0X
NJ2 23.18 352 Pc 46 14.50 0.6
1.2s 74.00nm 5.0mb
pP 46 29.80 66kmX
CHTO 24.92 296 eP 46 31.40 0.6
1.0s 2.50nm 3.6mb X
TIA 27.52 350 eP 46 54.80 0.3
XAN 27.90 335 eP 46 56.50 -1.5
TIY 30.01 344 eP 47 17.30 0.4
Z 14s 0.48um 4.3mszX
BJI 31.42 350 eP 47 20.00 -1.1
1.2s 20.00nm 4.8mb
LZH 31.90 330 eP 47 34.00 0.3
1.5s 28.00nm 4.9mb
Z 20s 0.30um 4.0msz
ASPA 34.31 161 iPc 47 53.60 -0.9
0.7s 8.50nm 4.8mb
WARB 35.21 174 eP 48 02.00 -0.1
MDJ 35.98 8 eP 48 07.50 -0.9
1.0s 30.00nm 5.2mb
GTA 36.49 330 eP 48 13.60 0.7
1.2s 14.00nm 4.8mb
GUN 39.36 303 P 48 38.28 0.9
PKI 39.63 303 P 48 39.94 0.3
KKN 39.81 303 P 48 41.68 0.7
DMN 39.90 303 P 48 42.42 0.7
GKN 40.42 303 P 48 46.20 0.3
HYB 43.61 286 eP 49 13.10 1.2
GBA 44.48 280 Pc 49 18.80 -0.1
0.8s 5.90nm 4.5mb
STK 44.54 157 eP 49 20.00 0.8
1.0s 1.90nm 3.9mb
i 49 31.90
ADE 46.32 162 e(P) 49 32.50 -0.8
1.0s 66.00nm 5.5mb
YAK 53.15 4 eP 50 23.00 -2.1
INK 86.76 21 eP 53 49.00 -0.7
MBC 87.70 12 eP 53 54.00 -0.2
0.9s 5.00nm 4.6mb
S.D. = 1.1 on 28 of 32 obs.

? OCT 06, 1991 14h 14m 51.61±11.38s
2.757 N ±18.9km 80.283 W ±94.7km
DEPTH = 33.0km (normal)
SOUTH OF PANAMA (83)
MD 4.7 (UVC).

CUMC 3.00 126 ePc 15 38.34 -0.1
ANCC 3.49 77 iPc 15 45.05 0.0
eS 16 19.00
SALC 3.59 86 ePc 15 45.98 -0.5
eS 16 20.70
HOOC 3.71 79 iPc 15 48.05 -0.2

CLMC 3.88 73 eP 15 50.41 -0.2
eS 16 28.40
PURC 3.94 96 ePc 15 52.29 0.5
BUGC 4.17 74 eP 15 55.09 0.3
HOBC 4.43 69 eP 15 58.59 0.1
S.D. = 0.4 on 8 of 8 obs.

OCT 06, 1991 14h 42m 48.91±0.64s
44.867 N ± 6.4km 17.968 E ± 7.2km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 2.7 (TTG), 2.4 (LJU). MD 3.4 (TRI).

ZAG 1.69 305 e(Pn) 43 18.00 -0.6
iSn 43 40.00
PTJ 1.75 307 ePn 43 17.60 -2.0
eSn 43 42.90
BEO 1.77 91 ePn 43 25.00 5.3X
iSg 43 51.20
UZD 1.78 14 ePn 43 26.40 6.5X
PLE 1.85 146 ePn 43 21.50 0.5
eSn 43 50.00
BRY 2.01 168 ePn 43 22.50 -0.9
eSn 43 51.90
HVAR 2.01 214 iPnc 43 21.10 -2.2
iSn 43 41.30
VBY 2.02 289 ePn 43 23.00 -0.4
iSn 43 46.30
NKY 2.18 160 ePn 43 27.00 1.1
eSn 43 58.00
HCY 2.45 171 ePn 43 29.00 -0.5
eSn 44 02.00
RIY 2.58 282 ePn 43 31.20 -0.2
TTG 2.61 158 ePn 43 33.00 1.2
eSn 44 08.00
CEY 2.65 290 ePn 43 34.50 2.1
eSn 44 05.00
BZS 2.68 72 ePc 43 33.50 0.6
SSR 2.68 89 ePd 43 42.00 9.1X
LJU 2.69 297 eP 43 35.00 2.0
e(Pg) 43 41.00
eSn 44 10.50
BUD 2.72 15 ePn 43 43.00 9.6X
TRI 3.08 287 ePn 43 39.90 1.4
i 44 12.90
iSg 44 20.10
VOY 3.10 294 e(Pb) 43 38.80 0.0
ePg 43 43.00
eSn 44 05.30
PSZ 3.33 23 ePn 43 55.80 13.6X
ZST 3.38 350 eP 43 42.30 -0.5
ARV 3.87 251 P 43 52.90 3.2X
KBA 3.91 306 ePn 43 50.00 -0.5
iSn 44 32.90
FVI 4.02 297 P 43 51.00 -0.8
eSn 44 52.00
VVI 4.06 288 P 43 55.00 2.6X
ASS 4.23 247 P 43 58.00 3.1X
SFI 4.48 260 P 44 01.00 2.6X
CRE 4.50 256 P 44 02.20 3.5X
MNS 4.57 239 P 44 01.00 1.3
PGD 4.59 260 P 44 02.00 1.9
CTI 4.60 287 P 44 04.00 3.8X
eSn 45 10.00
SGO 4.73 205 P 43 59.70 -2.2
MGR 5.05 202 P 44 02.00 -4.5X
KHC 5.22 326 eP 44 07.50 -1.3
e 44 18.20
e 45 43.50
WET 5.52 323 ePn 44 20.80 7.7X
PRU 5.63 337 P 44 21.30 6.7X
e 45 07.50
e 45 33.80
S.D. = 1.4 on 22 of 36 obs.

OCT 06, 1991 15h 05m 36.06±0.92s
16.322 N ± 5.4km 61.659 W ± 9.2km
DEPTH = 10.0km (geophysicist)
LEEWARD ISLANDS (92)
ML 1.5 (FDF).

SEG 0.17 62 eP 05 41.02 1.1
S 05 43.00
DOG 0.29 172 eP 05 42.67 0.5
PAG 0.29 184 eP 05 42.57 0.4
S 05 46.30

MGG 0.52 141 eP 05 46.51 -0.1
 DEG 0.58 91 eP 05 46.80 -1.0
 S 05 54.20
 BPA 0.74 345 eP 05 50.30 -0.4
 BBL 0.81 168 eP 05 51.20 -0.6
 S.D. = 0.9 on 7 of 7 obs.

OCT 06, 1991 15h 22m 51.30± 7.10s
 33.185 S ± 13.1km 70.166 W ± 37.9km
 DEPTH = 105.9 ± 52.6 km

CHILE-ARGENTINA BORDER REGION (127)

PEL 0.44 275 iP 23 07.50 -0.1
 S 23 21.00
 SAN 0.49 237 eP 23 08.00 0.1
 S 23 22.90
 PCH 0.52 214 iPc 23 08.20 0.0
 S 23 24.10
 JACH 0.62 324 iP 23 09.00 0.1
 S 23 22.50
 ROCH 0.74 286 iP 23 10.00 -0.1
 S 23 25.90
 TACH 0.80 234 iPc 23 10.50 0.1
 S 23 27.50
 CHCH 0.85 208 iPc 23 11.00 0.0
 S 23 29.00
 LCCH 1.21 256 iP 23 15.00 0.2
 S 23 34.00
 LNV 1.29 233 iP 23 15.50 -0.2
 S 23 37.00
 S.D. = 0.2 on 9 of 9 obs.

OCT 06, 1991 15h 50m 22.15± 0.45s

60.160 N ± 5.6km 150.744 W ± 5.0km

DEPTH = 71.6 ± 6.8 km

4.2mb (8 obs.)

KENAI PENINSULA, ALASKA (14)

SLKM 0.44 37 P 50 34.90 0.2
 RSO 1.05 288 P 50 42.60 0.8
 PMR 1.64 28 iPd 50 50.00 0.6
 KDC 2.58 201 iPd 51 01.70 -0.8
 SVW 2.58 294 P 51 02.50 -0.1
 KLU 2.71 58 iPd 51 03.80 -0.6
 TTA 3.75 320 iPc 51 19.50 0.6
 BALM 4.23 74 P 51 22.30 -3.4X
 FBA 4.95 15 iPd 51 35.50 -0.1
 IMA 6.08 349 iPd 51 51.70 0.2
 SDN 7.11 231 eP 52 04.80 -0.7
 SIT 8.63 104 eP 52 22.00 -4.4X
 INK 11.04 35 P 52 58.00 -1.2
 0.9s 1.30nm 3.9mb
 ADK 16.60 252 e(P) 54 11.30 -0.1
 YKA 17.35 67 eP 54 19.00 -1.6
 0.7s 6.30nm 3.9mb
 MBC 19.44 22 eP 54 45.50 0.5
 1.0s 32.00nm 4.5mb
 PNT 20.78 108 eP 55 00.00 0.9
 0.5s 4.00nm 4.0mb
 NEW 22.70 107 eP 55 19.50 1.3
 0.8s 8.33nm 4.2mb
 LRM 26.68 105 eP 55 56.40 0.2
 RSSD 32.03 99 eP 56 43.20 -0.6
 0.6s 7.10nm 4.7mb
 MSU 32.46 114 eP 56 48.40 0.8
 ANMO 38.01 111 eP 57 35.50 0.7
 0.8s 3.73nm 4.4mb
 ALO 38.02 111 eP 57 35.20 0.3
 0.8s 2.43nm 4.2mb
 SLR 145.58 2 iPKPd 09 52.00 -1.3
 S.D. = 0.9 on 22 of 24 obs.

OCT 06, 1991 16h 07m 53.15± 0.72s

1.887 S ± 5.6km 77.052 W ± 12.7km

DEPTH = 174.2 ± 6.5 km

4.6mb (6 obs.)

ECUADOR (107)

PURC 4.24 9 iPc 09 00.21 1.9
 SALC 4.84 4 iPc 09 06.41 0.6
 HOOC 5.34 4 iPc 09 12.01 -0.4
 ANCC 5.37 2 ePc 09 12.56 -0.1
 CLMC 5.75 5 ePd 09 17.14 -0.7
 HOBC 6.27 8 eP 09 23.43 -1.2
 NNA 10.04 179 iPc 10 13.00 -1.3
 0.6s 2.00nm 3.8mb
 S 11 54.50

ZOBO 16.78 149 P 11 40.80 0.6
 LPB 17.01 149 P 11 43.00 0.2
 CNCB 17.31 149 P 11 46.70 0.2
 PDCR 39.03 108 eP 15 06.20 1.5
 ALO 45.84 326 eP 16 00.00 0.2
 0.8s 10.26nm 4.4mb
 PNT 62.81 330 eP 18 02.00 -0.2
 0.6s 6.00nm 4.7mb
 LIC 72.35 83 P 19 01.20 -1.1
 TIC 72.39 82 P 19 01.50 -1.1
 KIC 72.65 83 Pc 19 03.00 -1.1
 0.7s 9.50nm 4.6mb
 INK 79.93 342 eP 19 43.00 -0.7
 MBC 81.65 351 eP 19 53.00 0.4
 0.6s 6.00nm 4.5mb
 SPA 88.13 180 iPd 20 25.90 0.8
 1.0s 15.00nm 4.9mb
 ASPA 140.61 228 ePKP 26 57.70 -6.7X
 0.6s 1.60nm
 e 27 03.40
 WARB 143.90 218 ePKP 27 07.00 -3.0X
 LZH 145.96 359 ePKP 27 14.50 1.1
 1.4s 33.00nm
 SSE 146.21 331 PKP 27 14.00 0.3
 1.0s 15.00nm
 GKN 148.68 32 PKP 27 18.12 0.1
 KKN 149.19 32 PKP 27 18.82 -0.1
 DMN 149.24 32 PKP 27 19.16 0.1
 GUN 149.40 31 PKP 27 19.52 0.1
 PKI 149.44 32 PKP 27 19.10 -0.3
 MBL 151.76 215 ePKP 27 28.30 5.7X
 GBA 152.21 64 PKPd 27 29.60 6.3X
 0.6s 3.70nm
 S.D. = 0.9 on 26 of 30 obs.

OCT 06, 1991 16h 17m 31.47± 0.34s

31.176 S ± 5.1km 68.191 W ± 6.1km

DEPTH = 113.3 ± 4.5 km

4.6mb (5 obs.)

SAN JUAN PROVINCE, ARGENTINA (137)

MD 4.4 (SAN). Felt (III) at

Andeco.

RTLL 0.28 237 iPc 17 48.10 0.0
 CFA 0.43 186 eP 17 49.30 0.7
 ZON 0.56 228 iPd 17 50.00 0.6
 RTCB 0.61 239 iPd 17 50.50 0.7
 RTRS 1.48 312 iP 17 59.90 1.3
 JACH 2.54 233 iPd 18 13.50 1.3
 PEL 2.89 227 iPd 18 17.00 0.2
 ROCH 2.99 232 iPd 18 18.00 -0.4
 SAN 3.09 222 iPd 18 20.00 0.5
 0.6s 1.50nm
 PCH 3.13 218 iPd 18 20.90 0.8
 TACH 3.39 223 iPc 18 23.20 -0.4
 CHCH 3.45 216 iPc 18 24.50 0.1
 IHA 3.46 237 iPc 18 22.70 -1.8
 0.6s 1.50nm
 LCCH 3.67 230 iPd 18 25.00 -2.3
 0.6s 1.50nm
 LNV 3.88 224 iPd 18 28.00 -2.2
 ITB1 13.82 65 e(P) 20 44.00 0.4
 CCH 13.86 8 P 20 45.60 1.1
 ITB 13.89 66 e(P) 20 44.00 -0.5
 CNCB 14.30 1 eP 20 50.00 -0.4
 LPB 14.58 0 eP 20 52.00 -1.8
 ZOBO 14.84 0 P 20 45.60 -11.7X
 ARE 14.95 348 iPc 20 59.40 0.9
 SIV 16.45 25 P 21 16.00 -1.0
 PPD 17.61 63 eP 21 30.60 -0.5
 0.6s 21.32.20
 VAO 20.55 72 eP 22 02.70 -0.3
 PDCR 32.58 62 eP 23 52.70 -1.4
 SOB1 33.50 55 eP 24 00.70 -1.4
 NVL 57.64 157 eP 27 11.00 -0.5
 0.6s 27.50.00
 SPA 58.99 180 iPc 27 21.70 0.4
 1.0s 10.00nm 4.8mb
 i 27 53.50
 LIC 70.78 70 P 28 37.70 0.0
 TIC 71.03 70 P 28 39.40 0.2
 KIC 71.09 70 P 28 39.80 0.2
 0.8s 14.50nm 4.9mb
 ALO 74.98 328 eP 29 02.00 -0.1
 ANMO 74.98 328 eP 29 01.80 -0.3
 0.7s 3.08nm 4.2mb

FRS 77.96 117 eP 29 10.00 -8.7X
 i 29 19.50
 BLF 78.93 117 eP 29 25.00 0.7
 SLR 82.22 115 iPc 29 42.00 0.3
 0.9s 12.60nm 4.7mb
 BW06 82.82 331 eP 29 44.00 -0.4
 0.7s 2.78nm 4.3mb
 BUL 85.36 111 iPd 29 58.60 1.0
 i 30 27.60
 SES 89.63 334 eP 30 18.00 0.7
 GAR 145.40 65 ePKP 36 57.50 -0.1
 HYB 146.88 107 ePKPd 37 02.50 2.0
 YAK 147.03 345 iPKP 37 00.80 1.5
 e 37 26.00

S.D. = 1.0 on 41 of 43 obs.

OCT 06, 1991 16h 48m 21.16± 0.11s

7.358 S ± 2.2km 74.827 W ± 2.9km

DEPTH = 142.8km (29 depth phases)

5.4mb (74 obs.)

PERU-BRAZIL BORDER REGION (112)

mb 5.2 (BRK).

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 20S, 33C

Centroid Location:

Origin Time 16:48:23.3 0.6

Lat 7.30S 0.05 Lon 74.62W 0.07

Dep 145.0 2.1 Half-duration 1.7

Moment Tensor: Scale 10**16 Nm

Mrr=-8.94 0.44 Mtt= 0.08 0.67

Mff= 8.85 0.73 Mrt= 1.17 0.42

Mrf=-2.20 0.54 Mtf= 0.58 0.76

Principal Axes:

T Vol= 9.14 Plg= 7 Azm= 93

N 0.22 8 2

P -9.36 80 223

Best Double Couple: Mo=9.2*10**16

NP1: Strike=191 Dip=39 Slip= -78

NP2: 356 52 -100

NNA 5.01 203 iPc 49 35.70 0.1
 0.6s 46.67nm 4.9mb
 eS 50 15.50
 PT10 5.14 204 eP 49 38.30 1.0
 eS 50 22.00
 e 50 33.90
 CUMC 8.80 340 ePc 50 27.71 0.6
 ARE 9.62 160 eP 50 38.00 0.3
 PURC 9.74 351 eP 50 40.16 0.7
 SALC 10.43 350 ePd 50 49.33 1.0
 HOOC 10.90 350 eP 50 55.68 1.0
 ANCC 10.99 349 ePd 50 56.56 1.0
 ZOBO 11.02 144 P 50 53.10 -3.3X
 CLMC 11.30 351 eP 51 00.77 1.1
 CNCB 11.53 145 P 51 00.00 -3.2X
 HOBC 11.71 354 eP 51 05.67 0.6
 BOG 11.93 4 eP 51 12.00 3.9X
 eS 53 54.00
 CCH 13.08 140 P 51 18.60 -4.5X
 BMG 14.44 7 eP 51 25.00 -15.2X
 SIV 15.96 124 P 51 57.20 -2.0
 SDV 16.67 15 eP 52 09.80 1.8
 eS 55 29.60
 UPA 16.90 344 (P) 52 21.00 10.4X
 TOV 17.75 16 eP 52 22.80 1.8
 iPP 52 25.80
 iS 55 02.00
 PLAV 18.61 23 eP 52 30.60 0.0
 MORO 19.23 20 eP 52 36.90 -0.1
 CAR 19.41 24 iP 52 41.40 2.6
 e(S) 56 18.00
 LLAV 19.43 24 eP 52 41.70 2.7
 GUAN 19.48 28 eP 52 39.10 -0.5
 CUM 20.64 31 eP 52 46.00 -5.2X
 e 56 40.00
 TPP 22.04 37 eP 53 08.18 3.2X
 TCE 22.16 36 eP 53 14.83 8.6X
 TRN 22.33 37 eP 53 12.65 4.8X
 TBH 22.40 38 eP 53 09.84 1.3
 RTRS 23.25 168 ePd 53 18.80 2.2
 GRW 23.40 34 eP 53 17.97 -0.3
 SVB 24.53 33 eP 53 27.83 -1.2
 RTLL 24.58 167 ePc 53 29.40 0.0
 RTCB 24.66 168 iPd 53 30.50 0.3
 CFA 24.90 167 eP 53 32.40 0.0
 ROCH 25.73 173 eP 53 40.50 0.2

06d 16h

PEL	25.94	172	iPd	53	42.00	0.0	PTI	60.53	329	P	58	18.20	-0.5			eS	10	30.00		
ITB1	26.04	134	e(P)	53	43.00	0.1			pP	58	52.60	145km		ECRI	B2.15	45	iPd	00	28.20	0.8
LCCH	26.16	174	iP	53	44.10	0.1	BONR	60.59	321	P	58	19.30	0.0	ECHE	82.40	48	iPc	00	30.14	1.4
SAN	26.25	172	eP	53	45.50	0.7	PHAM	60.66	318	P	58	19.50	0.0	ACU	82.52	50	iPc	00	30.32	0.9
ITB	26.26	134	e(P)	53	43.50	-1.4	FRI	60.89	320	iPd	58	19.39	-1.6	SPA	B2.69	180	iPd	00	31.20	1.3
TACH	26.41	173	eP	53	46.50	0.2	PRI	61.01	318	iPd	58	21.44	-0.6		1.0s	125.00nm			5.7mb	
PCH	26.44	172	eP	53	46.50	-0.1	LLA	61.47	319	iPd	58	24.35	-0.6			i	01	24.60	220kmX	
LNK	26.66	174	iPc	53	48.50	0.1	HPI	61.50	329	P	58	25.10	-0.3	BST	82.91	39	P	00	31.28	0.2
CHCH	26.73	172	iPc	53	49.50	0.4	PRS	61.58	318	iPd	58	25.66	-0.1	EGRA	83.59	46	iPc	00	38.48	3.9X
PPD	26.96	125	eP	53	51.40	0.0	CMB	61.94	320	ePd	58	27.70	-0.4	HPO	83.70	290	P	00	29.00	-6.6X
			e	53	54.30	10kmX			epP	59	05.00	157kmX	EROQ	83.74	48	iPc	00	36.99	1.5	
			e	54	52.80		ARN	62.28	319	P	58	30.40	0.1	EBR	83.80	48	eP	00	37.00	1.2
BAO	27.53	110	ePd	53	56.00	-0.7	MHC	62.34	319	eP	58	30.85	0.0	BTH	83.92	45	iPc	00	36.50	0.2
			e	54	27.00	148km			1.1s	45.00nm					PcP	00	40.00			
VAO	30.97	123	eP	54	22.80	-4.4X	GCC	62.40	319	iPd	58	30.98	0.0			e	01	11.50		
SOB1	33.62	96	eP	54	47.70	-2.5	LRM	62.71	331	ePd	58	32.80	-0.5			pP	01	17.50	164kmX	
			e	55	19.80	149km			e	59	10.50	159kmX	ENSF	84.21	46	P	00	38.75	0.8	
PDCR	35.52	101	eP	55	03.40	-2.9	ORV	63.55	321	iPd	58	38.96	0.4	EPF	84.28	45	iPd	00	38.90	0.7
			e	55	06.30	10kmX	WDC	64.79	321	iPd	58	44.74	-1.9		1.2s	99.65nm			5.5mb	
			e	55	38.80		LBFM	64.85	322	P	58	46.60	-0.7	LPF	84.74	40	iPd	00	40.20	-0.1
SGS	40.69	353	P	55	49.80	0.8	SES	65.52	335	iPd	58	50.70	-0.5		0.9s	55.70nm			5.4mb	
PRM	41.83	351	P	55	58.80	0.4			0.9s	107.00nm			MLS	84.79	46	P	00	41.58	0.9	
JSC	41.85	352	P	55	58.90	0.3			pP	59	21.00	124kmX	MFF	84.92	42	iPd	00	41.40	0.2	
			pP	56	31.00	144km	FOX	65.66	321	iPd	58	53.07	0.9		1.0s	72.00nm			5.5mb	
LHS	41.99	353	P	55	59.90	0.2	FHC	65.82	321	iPd	58	53.88	0.6	GRR	84.97	40	iPd	00	41.20	-0.2
CEH	43.20	355	P	56	10.40	0.9	FFC	65.90	343	ePd	58	52.60	-0.9		0.8s	56.40nm			5.5mb	
TKL	43.61	349	P	56	12.20	-0.6			0.9s	47.00nm			LFF	85.06	44	iPd	00	42.30	0.3	
GBTN	43.70	349	P	56	13.00	-0.6	NEW	66.70	331	P	58	57.80	-0.9		1.0s	132.00nm			5.7mb	
PWLA	43.92	344	P	56	13.90	-1.5			0.9s	59.21nm			LPO	85.30	44	iPd	00	43.40	0.2	
			pP	56	46.70	146km	VGB	66.77	327	P	58	59.60	0.4		1.0s	80.00nm			5.5mb	
BLA	44.64	354	P	56	21.70	0.5	DPW	66.96	330	P	58	50.30	-0.1	FLN	85.31	40	iPd	00	43.10	0.0
	0.7s	91.67nm				5.5mb	LON	68.10	327	P	59	07.20	-0.4		0.9s	67.15nm			5.5mb	
NAV	44.79	353	P	56	22.70	0.4	RMW	68.54	328	P	59	09.50	-0.8	LDF	85.49	40	iPd	00	43.80	-0.3
CVL	45.23	356	P	56	26.30	0.6	PNT	68.63	330	ePd	59	11.00	0.3		1.0s	62.00nm			5.4mb	
NA2	45.33	357	P	56	27.10	0.7			0.9s	72.00nm			RJF	85.69	43	iPd	00	44.90	-0.2	
CBN	45.39	357	iPc	56	27.80	0.9	BMW	68.71	326	P	59	11.30	0.0		1.2s	77.35nm			5.4mb	
	1.0s	100.00nm				5.4mb	GMW	69.12	327	P	59	13.30	-0.4	EKA	85.76	33	Pd	00	44.80	-0.4
OLY	45.42	341	P	56	25.70	-1.6	PGC	70.15	328	eP	59	20.00	0.1		0.9s	29.10nm			5.1mb	
MCWV	47.01	355	P	56	32.50	-7.2X	LIC	70.92	81	P	59	23.72	-1.6	BALM	85.79	333	P	00	46.10	0.7
TUL	47.34	337	ePd	56	41.90	-0.5	TIC	71.00	80	P	59	24.04	-1.8	LSF	85.94	43	iPd	00	46.20	-0.2
	0.5s	52.00nm				5.5mb			0.9s	49.00nm				1.2s	53.55nm			5.3mb		
FVM	47.40	343	P	56	41.10	-1.7	KIC	71.23	81	P	59	25.62	-1.5	CAF	85.97	44	iPd	00	46.50	-0.1
	0.7s	85.03nm				5.5mb			0.6s	25.00nm				1.0s	41.00nm			5.2mb		
SIO	47.40	336	ePd	56	42.50	-0.4	RUV	71.33	256	iP	59	28.60	1.0	TCF	86.41	43	iPd	00	48.20	-0.5
MEQ	47.55	333	iPd	56	43.60	-0.5			1.1s	60.00nm				1.0s	10.00nm			4.7mb		
ACO	49.40	334	iPd	56	59.50	1.2	VAH	71.56	256	iP	59	29.90	0.9	MAF	86.63	43	iPd	00	49.40	-0.3
ALO	51.59	327	iPd	57	15.00	-0.2			1.1s	65.00nm			BGF	86.90	42	iPd	00	50.60	-0.4	
	1.0s	59.50nm				5.3mb	TPT	71.56	257	iP	59	30.20	1.2		1.0s	32.00nm			5.2mb	
ANMO	51.59	327	P	57	14.90	-0.3			1.1s	75.00nm			AVF	87.30	42	iPd	00	52.10	-0.8	
	1.0s	60.00nm				5.3mb	PMO	71.83	257	iP	59	31.60	1.0		0.8s	12.10nm			4.9mb	
GLD	54.65	331	P	57	37.20	-0.4	PAE	73.32	254	iP	59	40.60	1.3	MBC	87.38	350	iPd	00	53.50	0.8
	1.0s	60.00nm				5.4mb			1.1s	65.00nm				0.9s	299.00nm			6.3mb		
GOL	54.68	331	P	57	37.00	-0.9	AFR	73.51	254	iP	59	41.50	1.1			pP	01	28.50	137km	
	1.0s	18.25nm				4.9mb			1.1s	100.00nm			SSF	87.46	42	iPd	00	52.80	-0.9	
			pP	58	10.00	141km	TIO	74.92	55	iP	59	49.20	0.7		0.8s	7.40nm			4.7mb	
GLA	55.31	319	P	57	41.80	-0.5			i	59	55.50	20kmX	KLU	87.56	333	P	00	54.20	0.3	
PLM	56.84	318	eP	57	53.00	-0.4	AVE	75.55	53	iP	59	52.50	0.6	SMF	87.59	43	iPd	00	53.70	-0.6
			e	58	46.00	237kmX	YKA	76.04	342	eP	59	53.60	-0.4		1.0s	32.00nm			5.3mb	
MSU	57.34	326	P	57	56.40	-0.4			0.9s	29.70nm			LOR	87.74	42	iPd	00	54.10	-0.9	
			pP	58	30.50	145km	SNA	77.25	161	iPd	00	00.50	-0.1	LBF	87.76	42	iPd	00	54.20	-0.9
PEC	57.36	318	P	57	56.90	0.1			0.9s	57.14nm				0.8s	5.35nm			4.6mb		
RVR	57.57	318	eP	57	58.00	-0.2	IFR	77.43	53	iP	00	04.50	1.9	SSB	87.76	44	P	00	55.15	0.0
			e	58	30.00	135km	EVAL	77.47	49	iPd	00	03.06	0.6	LRG	88.65	46	iPd	00	58.60	-0.8
RSSD	57.64	335	P	57	58.00	-0.8	STS	78.05	43	iPc	00	05.06	-0.5		1.0s	20.00nm			5.1mb	
	0.9s	41.82nm				5.4mb	EJIF	78.07	50	iPc	00	07.68	1.9	LMR	88.74	46	iPd	00	59.80	0.0
			pP	58	32.00	144km	EPRU	78.42	50	iPd	00	09.47	1.7		1.0s	40.00nm			5.4mb	
GSC	58.00	320	eP	58	01.00	-0.3	EHOR	78.67	49	iPd	00	09.65	0.6	SNF	88.76	39	iPd	00	59.16	-0.6
			e	58	31.00	125kmX	EPLA	78.79	47	iPd	00	00.04	-9.7X	DOU	88.86	39	Pc	01	00.10	-0.1
MWC	58.16	318	eP	58	02.00	-0.6	ERUA	78.84	44	iPd	00	00.25	-9.6X		0.9s	157.50nm			6.1mb	
			e	58	37.00	149km	ECOG	79.78	50	iPd	00	16.13	0.9			e	01	35.30	137km	
DAU	58.18	328	P	58	02.70	-0.1	AFC	79.79	50	iPd	00	16.20	0.9	FRF	88.88	46	iPd	01	00.50	0.0
PAS	58.19	318	eP	58	02.00	-0.5	EBAN	79.88	49	iPc	00	16.49	0.9		1.0s	48.00nm			5.5mb	
AIA	58.27	175	eP	58	04.10	1.5	TOL	80.21	48	iPd	00	13.00	-4.3X	WIN	88.99	112	iPd	01	02.40	0.7
SB8	58.28	319	eP	58	02.00	-1.3			1.2s	218.75nm				1.0s	20.00nm			5.1mb		
			e	58	37.00	149km	GUD	80.37	47	iPd	00	18.67	0.4	PMR	89.05	333	P	01	00.70	-0.2
DUG	58.87	327	P	58	07.10	-0.2	EHUE	80.68	50	iPd	00	19.97	0.1		0.9s	83.33nm			5.8mb	
BW06	59.06	331	P	58	06.80	-1.9	ENIJ	80.73	51	iPc	00	20.28	0.2	RRL	89.24	45	P	01	02.64	0.1
	0.8s	26.19nm				5.2mb	EVI A	80.98	49	iPd	00	22.34	0.9	SLKM	89.24	331	P	01	02.00	0.1
			pP	58	42.40	151km	ETOR	81.95	47											

CER	89.43	123	eP	01	01.50	-1.9	YAK	122.53	347	iPKP	06	58.90	-1.8			eSg	25	48.00		
RND	89.47	334	P	01	03.20	0.2					09	09.00		SAL	1.45	16	P	25	30.20	0.7
			pP	01	40.40	146km	STK	127.75	220	iPKPc	07	12.90	1.1			eSg	25	50.80		
STV	89.49	45	P	01	02.43	-1.1		0.6s	14.80nm					ROB	1.50	274	P	25	29.69	-0.5
FBA	89.49	336	P	01	03.00	0.1				e	07	48.00				S	25	46.98		
	0.7s	68.31nm				5.8mb	MAIO	129.41	48	iPKPc	07	15.50	0.6	IMI	1.52	259	P	25	30.00	-0.5
		pP	01	37.70	135km			1.0s	11.50nm							S	25	48.00		
SBF	89.50	46	iPd	01	03.10	-0.4				e	10	25.00		CRE	1.56	111	P	25	31.40	0.2
	1.2s	59.50nm				5.5mb	KUSJ	130.31	322	ePKP	07	14.50	-1.8			eSg	25	51.70		
HAU	89.55	42	iPd	01	02.60	-1.0	ASAJ	130.94	325	ePKP	07	17.40	0.0	PGF	1.80	203	Pn	25	34.80	0.1
	0.8s	8.05nm				4.8mb	CTAO	131.25	235	iPKPc	07	19.00	0.3			Sn	25	57.60		
ENR	89.55	45	P	01	02.74	-1.1		1.0s	50.00nm					ENR	1.82	271	P	25	34.58	-0.3
BHB	89.56	45	P	01	02.95	-0.8				i	07	55.50				S	25	54.70		
LSD	89.60	44	P	01	04.38	0.2	HOOJ	131.58	322	ePKP	07	18.20	-0.5	SBF	1.85	260	Pn	25	35.50	0.2
RSP	89.61	44	P	01	04.18	0.1	GAR	135.56	39	ePKP	07	09.50	-17.1X			Sn	25	59.00		
KDC	89.64	328	P	01	03.80	0.1	QUE	137.59	53	ePKP	07	32.00	1.2	STV	1.89	272	P	25	35.48	-0.4
LOMF	89.74	42	P	01	03.60	-0.9				e	08	10.00				S	25	57.22		
WLF	89.75	40	Pd	01	04.00	-0.4	MAT	138.17	319	ePKP	07	21.00	-10.4X	DOI	1.96	279	P	25	36.50	-0.5
		e	01	28.00	89kmX			0.9s	5.88nm				ORO	1.99	316	P	25	39.60	2.3	
		e	01	40.00			ASPA	138.31	221	ePKP	07	19.90	-12.2X	ORX	1.99	316	P	25	37.72	0.3
DAG	89.78	11	iPc	01	04.00	-0.1		0.5s	15.50nm						S	26	01.16			
	0.6s	14.67nm				5.2mb	ASPA	138.31	221	ePKP	07	31.20	-0.9	BHB	2.02	289	P	25	38.32	0.6
		ipP	01	40.30	142km					i	08	11.00				S	26	02.69		
BSF	89.80	42	iPd	01	03.90	-1.0				iPKS	11	05.80		TMA	2.04	338	ePd	25	38.60	0.4
	0.9s	16.40nm				5.1mb				iPKS	11	44.60		PZZ	2.06	279	P	25	37.11	-1.4
ENN	89.83	39	iPd	01	04.60	-0.1	WARB	140.68	211	ePKP	07	29.00	-7.3X			S	26	00.16		
	0.9s	83.00nm				5.8mb	BJI	146.00	345	ePKP	07	44.50	-0.4	RSP	2.14	297	P	25	40.02	0.5
		e	01	40.00	138km			1.5s	264.00nm						S	26	04.61			
MEM	89.85	39	iPc	01	04.47	-0.3				e	08	22.00		CTI	2.19	33	P	25	39.70	-0.7
		ed	01	42.00	147km		NDI	146.15	48	iPKPd	07	46.00	0.4			eSn	26	06.10		
ROB	89.89	45	P	01	04.49	-0.8	BOM	146.53	67	ePKP	07	44.60	-1.8	ASS	2.28	119	P	25	42.20	0.7
MOF	90.03	42	P	01	04.96	-1.0	KNA	147.24	225	iPKPc	07	50.40	2.8X	ARV	2.28	107	P	25	43.00	1.5
FIN	90.11	46	P	01	05.51	-0.8		0.6s	181.00nm							eSn	26	08.10		
ECH	90.12	41	P	01	05.52	-0.7	MTN	147.32	232	iPKPc	07	48.00	0.3	VDL	2.30	352	ePd	25	42.50	0.6
CKI	90.20	45	P	01	06.40	-0.2		0.4s	260.00nm					MMK	2.31	323	ePd	25	44.50	2.3
ORX	90.20	44	P	01	05.92	-0.9	POO	147.58	67	iPKPc	07	52.20	4.1X	LSD	2.34	303	P	25	42.48	-0.2
BBS	90.21	42	P	01	05.83	-0.9	MBL	148.21	207	ePKP	07	49.00	0.0			S	26	09.88		
CDF	90.23	41	P	01	06.09	-0.7		0.4s	37.00nm					RRL	2.37	288	P	25	43.60	0.6
LBD	90.40	42	P	01	06.87	-0.6				e	07	52.00		FRF	2.48	256	Pn	25	43.80	-0.4
RSO	90.44	331	P	01	07.50	-0.1	NANU	148.58	199	iPKPc	07	54.80	5.2X			Sn	26	12.80		
GWf	90.56	41	P	01	07.92	-0.3	LZH	151.38	2	ePKP	07	54.50	0.8	OSS	2.48	3	ePc	25	45.50	1.1
WTS	90.62	38	iPd	01	08.90	0.6		1.5s	57.00nm					BNI	2.48	291	P	25	45.80	1.3
	0.9s	70.00nm				5.8mb	LZH	151.38	2	iPKPd	08	00.50	6.8X			eSn	26	16.70		
		e	01	44.00	136km			1.2s	48.00nm					VVI	2.49	44	P	25	43.00	-1.5
FEL	90.62	42	P	01	07.95	-0.7				i	08	08.00		DIX	2.59	317	ePc	25	47.60	1.5
WIT	90.69	37	eP	01	10.00	1.4				pP	08	30.00		LPG	2.61	301	Pn	25	46.80	0.3
IMA	92.17	336	P	01	15.30	-0.2				sP	08	39.00				Sn	26	18.00		
		pP	01	51.80	142km		GKN	151.73	41	PKP	07	54.62	0.2	LPL	2.63	301	Pn	25	47.20	0.5
TTA	92.50	333	P	01	16.30	-0.6	SSE	152.03	330	PKP	07	54.00	-0.5	LMR	2.64	252	Pn	25	46.20	-0.4
CTI	92.80	44	Pc	01	18.80	0.1		1.2s	34.00nm							Sn	26	17.00		
GRF	93.00	40	eP	01	19.60	0.2				i	08	01.00		LRG	2.71	255	Pn	25	47.50	0.0
	1.7s	37.00nm				5.4mb				i	08	10.50				Sn	26	18.80		
MOX	93.38	40	eP	01	21.00	-0.1	GBA	152.05	75	PKPd	07	54.90	0.0	MNS	2.71	132	P	25	49.00	1.4
	1.6s	19.00nm				5.1mb		1.1s	42.50nm				LLS	2.74	346	ePd	25	49.10	0.9	
		e	01	56.50	138km		HYB	152.18	66	iPKPd	07	55.00	-0.2	OGA	2.76	16	ePn	25	50.60	2.1
SDN	93.53	325	P	01	22.10	0.4		1.0s	80.00nm				EMS	2.83	312	ePc	25	53.10	3.6X	
FVI	93.65	44	Pc	01	22.40	0.0				e	08	33.00		CDR	3.07	261	ePnd	25	52.70	0.1
CLL	94.33	39	iP	01	25.20	-0.3	KKN	152.29	40	PKP	07	55.20	-0.1			e(Sn)	26	27.10		
	0.9s	17.00nm				5.3mb	DMN	152.30	41	PKP	07	55.22	-0.2			e	26	27.40		
KHC	94.46	41	P	01	26.00	-0.2	PKI	152.52	41	PKP	07	55.16	-0.6			e	26	28.30		
	1.4s	11.00nm				5.0mb	CHTO	167.10	27	ePKP	08	11.30	-0.2	TRI	3.09	60	ePn	25	51.50	-1.5
		e	02	02.20	141km					e	08	47.80				eSg	26	29.50		
NB2	94.46	29	P	01	26.50	0.6				e	09	16.80		FVI	3.10	39	P	25	53.30	0.2
	1.0s	21.80nm				5.4mb				e	09	52.30				eSn	26	29.80		
BRG	94.87	39	iP	01	28.40	0.4	KHT	170.19	41	ePKP	08	14.50	1.0	VOY	3.33	56	ePn	25	55.00	-1.5
	1.0s	20.00nm				5.4mb		S.D. = 0.9	on 264 of 289 obs.						eSn	26	33.70			
FRS	95.12	121	iPd	01	29.40	-0.2								RIY	3.36	69	ePn	25	55.50	-1.2
	0.7s	30.82nm				5.8mb								CEY	3.52	63	eP	26	06.40	7.2X
PRU	95.17	40	eP	01	29.50	0.1										eSn	26	40.00		
		e	27	50.50												ePd	26	00.70	-0.9	
		eSg	28	40.20												eP	26	06.50	4.4X	
TDS	95.53	51	Pc	01	31.20	-0.1										eSn	26	46.00		
HFS	95.59	30	eP	01	30.70	-0.3										ePn	26	02.50	0.3	
	0.6s	2.20nm				4.7mb										iSn	26	41.70		
KSP	96.35	40	iP	01	35.20	0.5	BDI	0.49	108	P	25	12.60	-0.6	BSF	4.23	330	Pn	26	09.40	0.1
ZST	96.71	42	iP	01	36.20	-0.2				eSg	25	19.60				Sn	26	57.50		
VIR	96.78	119	iPd	01	39.50	2.1	MME	0.54	92	P	25	14.30	0.0	HAU	4.54	328	Pn	26	13.40	-0.2
SEK	97.38	120	iPd	01	40.70	0.6				eSg	25	21.40				Sn	27	04.20		
	0.6s	166.67nm				6.7mb X	PCP	1.06	288	P	25	23.22	0.0	CDF	4.59	337	Pn	26	13.20	-1.1
PRY	97.55	118	iPd	01	41.00	0.1				S	25	36.24				Sn	27	04.80		
SLR	98.51	117	iPc	01	46.00	0.8	CKI	1.22	281	P	25	25.60	-0.3	SMF	4.94	302	Pn	26	18.60	-0.6
KRA	98.65	41	eP	01	45.90	0.8				eSg	25	42.00				Sn	27	14.00		
BUL	99.97	112	iPd	01	52.30	0.4	FIN	1.25	270	P	25	26.10	-0.4	LBF	5.02	306	Pn	26	20.00	

06d 17h

SSF 5.34 304 Pn 26 24.00 -0.9
 KHC 5.52 26 ePn 26 25.00 -2.4
 e 26 27.50
 eSg 27 29.00
 BGF 5.52 298 Pn 26 26.60 -0.9
 Sn 27 27.20
 TCF 5.84 293 Pn 26 31.60 -0.4
 MOX 6.53 9 e(P) 27 29.00 47.3X
 YKA 64.78 335 eP 35 36.50 -7.2X
 0.3s 2.00nm 4.8mb X
 S.D. = 1.0 on 59 of 64 obs.

? OCT 06, 1991 17h 30m 33.56±1.30s
 47.811 N ±15.5km 7.273 E ±6.3km
 DEPTH = 10.0km (geophysicist)
 SWITZERLAND (544)
 ML 2.1 (LDG).

BSF 0.32 274 Pg 30 40.40 0.1
 Sg 30 44.80
 FEL 0.50 82 ePg 30 43.78 0.0
 CDF 0.60 0 Pg 30 45.80 0.0
 Sg 30 54.00
 HAU 0.65 288 Pg 30 46.50 -0.1
 Sg 30 55.40
 LBF 2.39 251 Pg 31 16.40 3.0X
 Sg 31 48.00
 S.D. = 0.1 on 4 of 5 obs.

? OCT 06, 1991 18h 03m 30.29±0.74s
 17.680 N ±13.7km 119.138 E ±11.1km
 DEPTH = 33.0km (normal)
 4.3mb (8 obs.)
 PHILIPPINE ISLANDS REGION (248)

CHTO 19.21 276 eP 07 55.70 1.2
 1.0s 2.25nm 3.4mb
 BJI 22.43 354 eP 08 28.50 0.9
 1.5s 35.00nm 4.6mb
 GUN 32.21 294 P 09 58.48 0.3
 PKI 32.56 294 P 10 00.96 -0.2
 KKN 32.71 294 P 10 02.32 -0.1
 DMN 32.83 294 P 10 01.16 -2.3
 GKN 33.31 294 P 10 07.22 -0.3
 ASPA 43.55 160 iPc 11 32.90 0.0
 0.7s 4.60nm 4.4mb
 i 11 40.60

YAK 44.91 7 iP 11 42.80 -0.6
 STK 53.78 156 eP 13 00.60 8.7X
 1.2s 2.00nm 4.0mb
 FBA 75.45 26 eP 15 12.60 0.1
 1.0s 0.80nm 3.7mb
 MBC 79.99 12 eP 15 37.00 -0.3
 0.6s 3.00nm 4.5mb
 NB2 83.06 332 P 15 52.80 -0.9
 1.1s 4.30nm 4.5mb
 KSP 84.32 322 eP 16 01.20 1.0
 GRFO 87.76 322 e(P) 16 16.70 -0.5
 GRC1 87.87 321 e(P) 16 19.00 1.2
 0.8s 3.00nm 4.6mb
 S.D. = 1.0 on 15 of 16 obs.

OCT 06, 1991 18h 31m 45.21±0.45s
 38.900 N ±5.2km 26.907 E ±5.5km
 DEPTH = 10.0km (geophysicist)
 AEGEAN SEA (365)

IZM 0.57 151 iPg 31 57.20 0.3
 eSg 32 06.00
 EZN 1.03 334 iPn 32 05.00 0.4
 CIN 1.60 144 iPd 32 13.00 -0.5
 YER 2.07 148 iPn 32 19.60 -0.9
 ALN 2.10 342 iP 32 25.30 4.4X
 eS 32 52.70
 KHL 2.13 105 iPn 32 22.20 0.8
 IZI 2.45 53 ePn 32 26.00 0.1
 ALT 2.50 85 iPn 32 27.50 0.8
 PAIG 2.70 293 iP 32 34.90 5.4X
 eS 33 05.58
 ISK 2.72 37 ePn 32 38.00 8.2X
 HRT 2.86 47 ePn 32 31.00 -0.8
 GPA 2.97 61 ePn 32 29.00 -4.3X
 KDZ 2.97 338 iPd 32 33.00 -0.3
 DMK 2.99 12 iPn 32 33.50 0.0
 RZN 3.25 330 iPc 32 37.00 -0.4
 SOH 3.34 306 ePc 32 48.10 9.5X
 SRS 3.37 312 eP 32 39.62 0.6

AGG 3.57 273 eP 32 56.06 14.3X
 JMB 3.57 356 eP 32 45.00 3.2X
 PLD 3.62 333 iP 32 41.00 -1.4
 MMB 3.62 319 eP 32 42.00 -0.6
 KNT 3.82 308 eP 32 46.38 1.1
 e 32 53.42
 KKB 4.16 317 eP 32 54.00 3.9X
 PGB 4.20 331 eP 32 50.00 -0.7
 PVL 4.47 345 iP 32 55.00 0.5
 VTS 4.64 324 eP 32 58.00 1.0
 S.D. = 0.8 on 18 of 26 obs.

OCT 06, 1991 18h 51m 00.48±0.75s
 39.677 N ±8.7km 21.190 E ±5.8km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 MD 2.8 (THE), 3.0 (ATH).

IGT 0.68 258 ePg 51 12.76 -1.2
 eSg 51 23.44
 KZN 0.77 35 ePb 51 14.50 -1.1
 KEK 1.07 272 ePb 51 22.00 1.3
 eSb 51 39.50
 LIT 1.09 67 ePg 51 20.24 -0.7
 eSg 51 37.60
 AGG 1.10 126 ePg 51 20.76 -0.4
 eSg 51 36.68
 FNA 1.11 7 ePg 51 20.64 -0.8
 eSg 51 37.96
 PAIG 1.93 82 ePb 51 33.96 0.2
 eSb 52 01.93
 KNT 1.98 41 ePn 51 35.21 0.9
 SOH 2.01 55 ePn 51 36.60 1.7
 SRS 2.33 51 ePn 51 39.44 0.0
 S.D. = 1.1 on 10 of 10 obs.

? OCT 06, 1991 19h 19m 29.11±0.99s
 5.995 S ±15.5km 151.393 E ±10.3km
 DEPTH = 80.7 ±20.8 km
 4.2mb (2 obs.)
 NEW BRITAIN REGION, P.N.G. (192)

RAB 1.95 23 eP 20 01.00 0.1
 0.5s 1774.65nm
 iS 20 34.50
 PMG 5.40 231 eP 20 49.00 0.1
 HNR 9.14 112 eP 21 40.00 -0.4
 DZM 21.61 139 iPc 24 14.70 0.4
 ASPA 24.33 222 iPd 24 40.20 -0.5
 0.8s 26.20nm 4.7mb
 STK 27.34 198 eP 25 08.60 0.2
 0.6s 1.20nm 3.6mb
 S.D. = 0.6 on 6 of 6 obs.

% OCT 06, 1991 19h 50m 40.43±1.28s
 38.598 N ±7.4km 15.621 E ±20.9km
 DEPTH = 10.0km (geophysicist)
 SICILY (398)

ATN 0.45 196 P 50 49.80 0.1
 eSg 51 01.90
 SOI 0.63 147 P 50 52.80 -0.2
 eSg 51 08.00
 CZI 0.74 33 P 50 56.40 1.5
 ACI 0.88 31 P 50 58.30 1.0
 TDS 1.20 28 P 51 01.50 -1.2
 eSn 51 21.70
 ROI 1.22 37 P 51 02.50 -0.7
 CSI 1.29 24 P 51 03.70 -0.6
 LCI 2.50 45 P 51 52.50 30.7X
 S.D. = 1.2 on 7 of 8 obs.

OCT 06, 1991 19h 52m 07.31±0.37s
 59.057 S ±8.7km 25.568 W ±7.9km
 DEPTH = 33.0km (normal)
 5.1mb (10 obs.)
 SOUTH SANDWICH ISLANDS REGION (153)

SNA 14.90 149 iPc 55 34.90 -2.0
 1.0s 100.00nm 5.1mb
 NVL 19.30 142 eP 56 31.50 -0.3
 e 56 52.00
 SPA 31.11 180 iPd 58 25.30 0.7
 1.0s 26.00nm 5.0mb
 i 59 17.20
 LNV 39.18 289 eP 59 32.00 -1.4
 CER 39.18 69 iPc 59 33.60 0.0

TACH 39.19 290 eP 59 33.00 -0.6
 SAN 39.22 291 eP 59 32.00 -1.9
 PEL 39.48 291 iPc 59 36.50 0.4
 FRS 45.08 72 iPc 00 21.60 -0.1
 0.7s 17.12nm 5.1mb
 VIR 47.21 73 eP 00 40.00 1.2
 WIN 47.32 58 iPd 00 40.50 0.8
 1.0s 15.00nm 5.0mb
 SEK 47.39 74 iPd 00 41.20 1.0
 0.8s 18.66nm 5.1mb
 PDCR 47.54 342 (P) 00 41.00 -0.2
 KSR 49.07 71 eP 00 36.00 -17.3X
 SIV 50.28 313 eP 01 05.00 2.6
 CSY 50.77 159 eP 01 06.90 1.4
 0.5s 13.00nm 5.2mb

SOB1 51.09 340 eP 01 07.10 -1.4
 CNCB 52.30 305 P 01 20.00 1.6
 LPB 52.60 305 eP 01 21.00 0.6
 ZOBO 52.85 305 P 01 23.00 0.6
 LR 17 08.00
 BUL 54.75 69 iPc 01 34.40 -1.5
 0.9s 12.60nm 4.9mb
 KRI 58.07 68 iPd 01 59.00 -0.6
 MTD 59.06 70 iPd 02 02.90 -3.6X
 LIC 67.12 22 P 02 59.10 -0.4
 KIC 67.31 23 P 03 00.40 -0.3
 TIC 67.53 22 P 03 01.80 -0.4
 FORR 87.79 158 eP 04 54.50 0.6
 0.4s 6.00nm 5.2mb

STK 88.77 169 iPc 05 00.20 1.5
 1.2s 2.30nm 4.4mb
 ASPA 95.85 161 iPc 05 31.20 -0.4
 0.9s 9.60nm 5.3mb
 ALO 114.89 297 ePKP 10 44.00 -1.9
 NB2 123.13 20 PKP 11 00.30 -0.2
 0.9s 2.40nm
 YKA 138.96 315 ePKP 11 29.20 -1.3
 0.8s 4.20nm
 MBC 147.08 334 ePKP 11 46.00 1.8
 0.9s 19.00nm
 INK 148.65 317 ePKP 11 50.00 3.2X
 BJI 149.33 111 ePKP 11 52.50 3.7X
 1.5s 18.00nm
 S.D. = 1.2 on 31 of 35 obs.

OCT 06, 1991 20h 11m 48.08±0.42s
 44.244 N ±6.0km 9.878 E ±3.8km
 DEPTH = 5.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 2.9 (LDG).

BDI 0.55 109 P 11 58.00 -1.1
 eSg 12 05.50
 MME 0.59 95 P 11 59.30 -0.7
 eSg 12 06.30
 SFI 1.46 102 P 12 17.00 1.9
 CRE 1.62 112 P 12 17.90 0.4
 SBF 1.80 259 Pn 12 20.40 0.3
 Sn 12 43.80
 PGF 1.81 201 Pn 12 19.80 -0.5
 Sn 12 42.60
 FRF 2.43 255 Pn 12 28.90 -0.2
 Sn 12 58.40
 LMR 2.60 251 Pn 12 31.00 -0.5
 Sn 13 02.00
 LRG 2.66 254 Pn 12 33.20 0.8
 Sn 13 04.00
 BSF 4.18 330 Pn 12 54.00 0.0
 Sn 13 42.40
 HAU 4.49 328 Pn 12 58.40 0.1
 Sn 13 51.20
 CDF 4.54 338 Pn 12 58.70 -0.4
 SMF 4.88 302 Pn 13 04.00 0.1
 BGF 5.47 298 Pn 13 12.00 -0.2
 Sn 14 14.00
 S.D. = 0.8 on 14 of 14 obs.

OCT 06, 1991 20h 48m 47.07±1.03s
 17.046 N ±7.1km 100.201 W ±7.5km
 DEPTH = 13.3 ±5.3 km
 4.0mb (4 obs.)
 GUERRERO, MEXICO (59)
 ACX 0.37 118 iP 48 54.50 -0.4
 iS 49 01.50
 III 1.50 28 iP 49 15.00 1.3
 iS 49 44.00

KLU	0.28	71	iPc	39	25.56	-0.3
			eS	39	30.88	
VLZ	0.28	167	iPc	39	25.66	-0.1
			S	39	30.99	
VZW	0.35	187	iPc	39	26.64	-0.3
			S	39	32.91	
SCM	0.60	317	iPd	39	30.47	-0.7
			eS	39	38.98	
GLI	0.61	210	iPc	39	30.48	-0.8
			eS	39	39.45	
FID	0.66	181	ePc	39	31.56	-0.5
			iS	39	41.12	
TOA	0.72	11	iPd	39	32.80	-0.4
TZL	0.81	37	iPc	39	33.81	-1.0
			eS	39	43.98	
CVA	0.93	158	ePc	39	35.47	-1.2
KNK	0.96	271	ePc	39	36.39	-0.9
			S	39	48.96	
SML	0.98	295	iPc	39	36.21	-1.5
			S	39	49.62	
SGAM	1.09	145	ePc	39	37.52	-2.1
			eS	39	52.14	
SDG	1.21	21	ePd	39	39.48	-1.9
			eS	39	54.75	
KNIM	1.23	211	iPd	39	40.44	-1.2
			eS	39	56.20	
GHO	1.23	289	iPc	39	40.55	-1.2
			S	39	57.27	
GLB	1.28	87	ePc	39	39.68	-2.7
			eS	39	56.51	
PLRM	1.29	280	iPc	39	41.58	-0.9
			eS	39	58.31	
PMR	1.29	280	iPc	39	42.10	-0.4

TOV	0.89	121	ePn	18	31.10	-0.3
			iPP	18	33.90	
			iSn	18	53.50	
SDV	1.35	183	iPnd	18	35.20	-0.3
			iSn	19	02.70	
MORO	2.30	74	iP	18	44.90	-0.7
CAR	3.59	85	eP	19	03.50	1.8
LLAV	3.71	86	eP	19	02.80	-0.3
BMG	4.01	218	eP	18	49.00	-18.1X
GUAN	4.85	93	iP	19	22.60	4.5X

BOG	6.57	212	eP	19 45.00	3.9X	AVE	3.36	146	iPn	42 47.50	0.5	1.0s	13.00nm	4.6mb			
			eS	21 03.00					i	43 20.50		SIV	46.65	248 P	32 14.80	1.9	
HOBC	8.04	224	eP	19 59.91	-0.6				iSn	43 24.00		BUL	48.71	117 iPd	32 30.00	0.8	
CLMC	8.68	224	iPd	20 10.22	1.2	EJIF	3.39	83	iPnc	42 48.12	0.7		1.0s	14.50nm		5.0mb	
TCE	8.68	86	eP	20 17.53	8.7X				eSn	43 24.80		KSR	49.36	125 eP	32 18.00	-16.1X	
UPA	8.93	263 (P)		20 12.00	-0.1	LIJA	3.50	76	eP	42 49.50	0.5	FRS	49.86	130 iPc	32 37.30	-0.4	
GRW	8.94	77	eP	20 15.88	3.5X	EPRU	3.65	75	iPnc	42 51.40	0.3		0.5s	10.56nm		5.1mb	
TPP	8.97	89	eP	20 22.22	9.5X				eSn	43 30.70		VIR	50.28	128 eP	32 40.50	-0.7	
TRN	9.02	87	eP	20 22.34	9.0X	EHOR	3.91	63	iPnc	42 54.18	-0.4	SEK	50.99	128 eP	32 46.70	0.1	
HOQC	9.03	222	eP	20 14.06	0.3				eSn	43 36.80			0.7s	10.27nm		4.9mb	
ANCC	9.15	224	eP	20 15.06	0.0	COI	4.20	13	iPnd	42 58.70	0.2	ZOBO	53.29	250 P	33 03.60	-0.9	
TBH	9.35	88	eP	20 26.01	8.3X				iSn	43 43.00		Z	24s	0.42um		4.4MsZx	
SVB	9.60	71	eP	20 20.83	-0.2	IFR	4.53	124	iPn	43 02.50	-0.8			LR	59 12.00		
PURC	9.75	217	eP	20 26.16	2.7X				i	43 42.00		LPB	53.32	249 P	33 03.00	-1.5	
ZOBO	26.45	175	P	23 49.20	19.8X				i	43 45.00		Z	24s	1.55um		5.0MsZx	
			i	32 09.00					iSn	43 48.00				LR	49 05.00		
LPB	26.71	175	eP	23 31.00	-0.6	MTE	4.59	21	iPc	43 03.80	-0.2	ZST	56.06	27 eP	33 28.70	5.2X	
CNCB	27.00	175	P	23 28.00	-6.4X				iS	43 53.50		VRI	59.35	34 eP	33 44.50	-2.3	
			i	32 45.00		EPLA	4.84	34	ePn	43 07.18	-0.3	HFS	64.25	16 eP	34 20.50	1.1	
SIV	27.71	160	P	23 55.00	14.8X				eSn	43 58.10			0.5s	1.00nm		4.3mb	
TUL	34.31	322	e(P)	24 47.90	10.1X	EGUA	4.95	80	ePn	43 08.99	0.0	NB2	64.36	15 P	34 21.40	1.2	
	1.0s	8.60nm							eSn	44 02.60			0.8s	4.40nm		4.7mb	
S.D. = 0.9 on 12 of 25 obs.						ECOG	5.02	75	iPnc	43 10.58	0.5	MEO	83.24	305 iPc	36 11.00	0.5	
? OCT 07, 1991 06h 27m 00.06±3.59s						AFC	5.03	75	ePn	43 10.61	0.4	ALQ	89.72	305 eP	36 43.00	0.5	
3.754 N ±14.9km 76.981 W ±34.7km									eSn	44 05.40			1.1s	3.48nm		4.5mb	
DEPTH = 33.0km (normal)						PTO	5.08	9	ePn	43 10.80	0.1	MBC	92.84	346 eP	36 59.00	3.2X	
COLOMBIA (103)									iSn	44 04.30		COO	147.87	161 iPKPc	43 31.20	4.5X	
MD 3.0 (UVC).						EBAN	5.11	65	ePn	43 10.62	-0.5	QIS	149.21	133 iPKPd	43 34.00	5.0X	
									eSn	44 06.00			0.8s	14.00nm			
ANCC	0.26	154	iPd	27 07.01	-0.4				iPn	43 17.00	-0.3	S.D. = 1.2 on 17 of 22 obs.					
			eS	27 12.50		TIO	5.54	158	iPn	44 11.00		% OCT 07, 1991 08h 30m 14.21±2.38s					
CLMC	0.44	73	iPc	27 09.82	-0.1				iSn	44 16.00		3.989 N ±15.0km 77.288 W ±17.4km					
			eS	27 17.40		TOL	5.80	48	ePn	43 23.00	2.2	DEPTH = 33.0km (normal)					
HOQC	0.45	129	iPd	27 09.95	-0.2				iSn	44 23.00		NEAR WEST COAST OF COLOMBIA (102)					
			eS	27 17.60					eSb	44 33.00		MD 3.9 (UVC).					
BUGC	0.74	79	ePc	27 14.38	0.3	EHUE	5.89	71	ePn	43 21.34	-0.8	ANCC	0.63	138 iPc	30 27.51	0.8	
SALC	0.83	160	iPd	27 15.90	0.5				eSg	44 48.00		CLMC	0.73	98 iPc	30 28.83	0.6	
			eS	27 28.00		EZAM	6.07	7	ePn	43 24.62	0.2	HOQC	0.83	128 iPc	30 29.41	-0.4	
HOBC	1.03	55	ePc	27 18.31	-0.1				eSn	44 29.10				eS	30 39.40		
			eS	27 32.20		EVIA	6.22	64	ePn	43 25.43	-1.2	BUGC	1.03	95 iPc	30 32.62	0.1	
CCH	23.57	153	eP	32 05.00	-4.1X				eSn	44 32.90				eS	30 45.00		
S.D. = 0.4 on 6 of 7 obs.						GUD	6.25	42	ePn	43 26.46	-0.5	SALC	1.17	150 iPd	30 34.66	0.2	
& OCT 07, 1991 06h 59m 14.40s									eSn	44 32.60				eS	30 48.60		
36.468 N 121.147 W						ERUA	6.56	16	ePn	43 30.75	-0.5	HOBC	1.21	72 iPd	30 34.80	-0.1	
DEPTH = 9.0km (geophysicist)									eSn	44 40.70		DIAC	1.29	122 eP	30 34.98	-1.2	
CENTRAL CALIFORNIA (39)						STS	6.81	7	ePn	43 34.23	-0.4	PURC	1.90	151 eP	30 45.49	0.2	
<BRK>. ML 2.4 (BRK).									eSn	44 46.50		CUMC	3.06	191 eP	31 01.76	-0.2	
LLA	0.22	48	iPd	59 17.08	-2.0	ETOR	7.58	49	ePn	43 45.73	0.5		S.D. = 0.7 on 9 of 9 obs.				
PRS	0.23	233	iPc	59 18.62	-0.6				eSn	45 04.60		% OCT 07, 1991 08h 39m 37.44±0.68s					
			iS	59 22.62		ECHE	7.69	61	ePn	43 46.38	-0.3	3.556 N ± 6.4km 76.659 W ± 9.6km					
SAO	0.38	321	iPc	59 21.50	-0.7				eSn	45 08.00		DEPTH = 33.0km (normal)					
PRI	0.51	130	iPd	59 21.23	-3.5	ACU	7.74	69	ePn	43 46.97	-0.4	COLOMBIA (103)					
			eS	59 32.38					eSn	45 08.70		MD 3.4 (UVC).					
PHAM	0.87	136	eP	59 27.51	-3.8	S.D. = 0.7 on 34 of 34 obs.											
GCC	0.88	310	iPc	59 30.48	-1.0	? OCT 07, 1991 07h 55m 30.39±10.45s						HOQC	0.09	164 iPd	39 44.74	1.2	
MHC	0.96	336	ePc	59 35.90	3.1	17.281 N ±65.6km 60.902 W ±62.4km								eS	39 51.90		
			eS	59 48.90		DEPTH = 33.0km (normal)						ANCC	0.21	259 iPd	39 44.25	0.0	
FRI	1.27	65	iPd	59 34.13	-3.9	LEEWARD ISLANDS (92)								eS	39 51.10		
			iS	59 49.32		ML 2.9 (FDF).						CLMC	0.34	16 iPc	39 46.11	0.2	
CMB	1.68	21	eP	59 41.96	-2.1	BPA	0.94	256	eP	55 46.79	-0.5	BUGC	0.52	50 eP	39 48.74	0.2	
ABL	2.25	135	eP	59 48.36	-4.2				S	55 56.60		DIAC	0.53	120 eP	39 48.88	0.2	
BOHR	2.71	56	e(Pn)	59 56.82	-2.4	DEG	0.97	189	eP	55 47.50	-0.3	SALC	0.58	184 iPd	39 48.75	-0.6	
						SEG	1.05	214	eP	55 48.25	-0.5	HOBC	0.95	33 eP	39 53.65	-0.9	
11 obs. associated									S	56 00.50		PURC	1.26	166 eP	39 58.90	-0.4	
OCT 07, 1991 07h 41m 55.63±0.73s						MGG	1.38	246	eP	55 54.30	0.8		S.D. = 0.8 on 8 of 8 obs.				
36.115 N ± 4.3km 9.643 W ± 6.6km									S	55 54.76	0.8	* OCT 07, 1991 08h 40m 46.15±0.75s					
DEPTH = 97.3 ± 14.3 km						PAG	1.45	211	eP	55 54.40	-0.2	36.521 N ±10.9km 31.066 E ±13.5km					
WEST OF GIBRALTAR (384)									S	56 11.20		DEPTH = 10.0km (geophysicist)					
MD 3.7 (RBA).						S.D. = 0.8 on 6 of 6 obs.						TURKEY (366)					
FAR	1.62	56	eP	42 22.50	-1.1	* OCT 07, 1991 08h 23m 42.06±0.48s						MD 4.0 (HLW).					
			eS	42 41.50		0.174 N ±11.3km 16.683 W ± 7.9km						KHL	2.18	326 iPn	41 22.30	-0.7	
FIG	1.76	56	iPd	42 24.80	-0.7	DEPTH = 10.0km (geophysicist)						YER	2.32	286 iPn	41 26.50	1.5	
			iS	42 44.50		4.7mb (7 obs.)						LFK	2.36	121 ePn	41 30.70	5.2X	
LIS	2.63	8	iPnd	42 37.40	0.4	NORTH OF ASCENSION ISLAND (407)						CIN	2.61	295 iPg	41 30.00	0.9	
			iSn	43 05.80								ALT	2.64	344 iPn	41 30.00	0.4	
EVAL	2.75	57	iP	42 38.29	-0.4	LIC	13.09	62	P	26 51.16	0.3	IZM	3.56	303 ePn	41 42.30	-0.3	
			eS	43 07.80					S	26 52.66	-0.8	YLV	4.25	342 ePn	41 51.00	-1.5	
MTH	2.80	7	eP	42 40.00	0.6	KIC	13.41	62	P	26 54.78	-0.2	ADI	4.85	134 eP	42 02.50	1.6	
			iS	43 10.60					S	29 12.00		ATZ	5.06	136 eP	42 05.40	1.5	
GIBL	3.06	75	eP	42 43.20	0.3				TT	36 26.00	</						

07d 08h

MBH 7.45 154 eP 42 35.90 -1.7
S.D. = 1.5 on 10 of 11 obs.

? OCT 07, 1991 08h 48m 03.22 ± 3.24s
3.739 N ± 15.5km 76.951 W ± 33.8km
DEPTH = 33.0km (normal)
COLOMBIA (103)
MD 2.4 (UVC).

ANCC 0.24 159 iPd 48 10.31 0.0
eS 48 15.30
CLMC 0.41 70 ePc 48 12.81 0.1
HOOC 0.42 130 ePd 48 12.76 -0.1
HOBC 1.02 53 ePc 48 21.22 -0.1
S.D. = 0.2 on 4 of 4 obs.

% OCT 07, 1991 09h 19m 16.92 ± 0.81s
40.606 N ± 8.2km 27.457 E ± 6.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

MFT 0.22 324 ePn 19 21.00 -0.8
ALN 1.11 286 eP 19 39.70 2.0X
EZN 1.17 228 ePn 19 39.00 0.3
DMK 1.24 10 iPn 19 40.90 1.0
ISK 1.30 69 iPn 19 41.00 0.0
iSg 19 58.00
IZI 1.56 99 iPn 19 45.00 0.2
HRT 1.69 82 ePn 19 46.00 -0.7
S.D. = 0.9 on 6 of 7 obs.

OCT 07, 1991 10h 38m 31.93 ± 0.25s
33.638 N ± 3.8km 141.007 E ± 4.7km
DEPTH = 50.6km (2 depth phases)
5.0mb (18 obs.)
OFF EAST COAST OF HONSHU, JAPAN (229)

KAKJ 2.65 345 P 39 12.90 -0.2
S 39 45.30
CHJJ 2.92 326 iPd 39 17.00 0.0
S 39 51.50
IIDJ 3.15 307 iPd 39 22.20 1.9
S 40 00.60
MAT 3.70 322 iPd 39 28.50 0.5
eS 40 10.00
MTMJ 3.94 319 iPd 39 32.80 1.3
NIIJ 3.95 336 P 39 31.10 -0.4
S 40 17.00
WKYJ 4.54 279 iPd 39 41.00 1.2
TSRJ 4.56 296 iPd 39 41.10 1.1
YAMJ 4.59 350 P 39 39.70 -0.9
OFUJ 5.46 5 P 39 50.10 -2.6
S 40 48.00
TKSJ 5.80 275 P 39 58.70 1.1
YONJ 6.42 286 P 40 07.10 0.8
SHNJ 8.25 276 eP 40 33.50 1.9
MDJ 14.08 324 eP 41 48.50 -1.7
1.0s 33.00nm 5.0mb
CN2 15.80 314 eP 42 15.00 2.5
Z 20s 1.19um

GUMO 20.27 169 eP 43 07.20 1.3
PJG 20.27 169 eP 43 07.20 1.3
GUA 20.32 169 eP 43 07.20 0.7
0.7s 208.22nm 5.6mb
BJI 20.84 295 eP 43 22.50 10.9X
1.2s 10.00nm
Z 24s 0.32um 3.6mszX

WHN 22.77 270 eP 43 32.20 1.3
pP 43 45.50 55km
TIY 23.52 288 eP 43 39.00 0.7
Z 12s 0.72um 4.4mszX
E 11s 0.38um

HHC 24.44 296 eP 43 46.40 -0.8
BTO 25.58 295 eP 43 58.40 0.4
XAN 26.60 280 eP 44 07.60 0.2
YAK 29.30 349 eP 44 30.20 -1.2
e 49 41.00

GUA 30.48 266 eP 44 43.00 0.6
CD2 31.50 275 P 44 49.00 -2.3
GTA 33.39 292 P 45 07.50 -0.2
0.6s 6.00nm 4.6mb
LOE 38.69 255 eP 45 51.00 -1.7
CHG 40.23 259 eP 46 04.80 -0.7
CHTO 40.23 259 eP 46 03.50 -2.0

1.0s 3.50nm 4.1mb
pP 46 15.90 46km
WMQ 42.17 300 P 46 21.00 -0.2
GUN 47.25 279 P 47 02.30 -0.1
PKI 47.76 278 P 47 04.90 -1.5
KKN 47.78 279 P 47 05.26 -1.2
DMN 47.99 279 P 47 05.84 -2.3
GKN 48.24 279 P 47 08.66 -1.3
QIS 53.91 182 iPc 47 51.50 -0.9
NDI 54.06 283 eP 47 58.20 4.6X
ASPA 57.39 188 iPc 48 16.80 -0.7
0.5s 73.70nm 6.0mb
INK 57.57 26 eP 48 18.00 -0.3
MBL 58.11 203 iPd 48 21.50 -1.1
0.4s 15.00nm 5.5mb
MBC 59.87 16 ePc 48 31.00 -3.3X
0.9s 11.00nm 5.0mb
GBA 60.67 267 Pd 48 37.50 -2.9X
0.4s 4.10nm 4.9mb
NANU 60.93 207 eP 48 41.50 -0.5
WARB 61.04 195 iPc 48 43.00 0.3
0.3s 14.00nm 5.6mb
POO 61.22 274 eP 48 43.00 -1.3
COO 64.69 170 eP 49 06.00 -0.9
FORR 65.29 192 eP 49 09.70 -0.9
0.3s 76.00nm 6.2mb X
MRWA 66.85 204 eP 49 20.30 -0.4
0.5s 11.00nm 5.1mb
COOL 66.86 199 eP 49 20.20 -0.5
BAL 67.90 203 eP 49 27.00 -0.2
SOD 67.97 338 iP 49 26.80 -0.5
BWA 68.06 173 eP 49 29.20 1.0
ADE 68.28 182 e(P) 49 30.60 1.1
KLB 68.49 201 eP 49 30.00 -0.9
CAN 69.01 173 eP 49 35.10 1.1
MUN 69.33 202 eP 49 35.40 -0.6
NWA0 69.89 201 eP 49 39.20 -0.2
0.5s 28.00nm 5.4mb
QBN 70.62 324 eP 49 43.00 -0.7
PNT 70.85 43 eP 49 46.00 0.7
0.5s 2.00nm 4.3mb
KAF 71.17 333 iP 49 46.20 -0.8
0.4s 4.40nm 4.7mb
RKG 71.49 201 eP 49 49.50 0.4
NUR 72.79 332 eP 49 56.10 -0.4
UPP 75.86 334 iP 50 13.50 -0.7
FFC 76.75 32 eP 50 19.50 0.2
0.7s 10.00nm 4.9mb
LRM 76.82 44 ePc 50 21.60 1.3
HFS 77.04 336 eP 50 20.30 -0.6
0.5s 7.70nm 5.0mb
NB2 77.19 337 P 50 21.50 -0.2
0.8s 11.30nm 4.9mb
SBB 79.68 55 eP 50 37.00 1.1
MWC 79.77 56 eP 50 41.00 4.5X
GSC 80.03 54 eP 50 39.00 1.2
RVR 80.37 56 eP 50 39.00 -0.5
BAR 81.60 56 eP 50 47.00 1.0
MLR 81.76 320 eP 50 42.00 -4.7X
SPC 82.18 325 eP 50 50.00 1.1
KSP 82.81 328 eP 50 52.30 0.4
HRI 83.28 306 eP 50 55.40 0.6
BRG 83.80 329 i(P) 50 57.80 0.9
CLL 83.87 330 iPd 50 57.30 0.1
e 51 25.00
JVI 84.33 305 eP 51 00.50 0.4
ZST 84.35 326 eP 51 00.60 0.9
GRF 85.84 330 eP 51 07.70 0.5
1.0s 15.00nm 5.2mb
MBH 85.94 303 eP 51 08.90 0.8
ALO 87.04 49 eP 51 14.00 0.4
1.0s 3.00nm 4.5mb
ZOBO 148.59 64 PKP 58 13.00 0.8
1.0s 15.50nm
LPB 148.77 64 PKP 58 17.70 5.4X
CCH 150.76 63 PKP 58 21.00 5.8X
SIV 153.44 54 PKP 58 21.00 2.3X
S.D. = 1.1 on 80 of 89 obs.

* OCT 07, 1991 11h 09m 35.65 ± 0.94s
16.339 S ± 9.9km 178.072 E ± 8.4km
DEPTH = 10.0km (geophysicist)
4.5mb (2 obs.)

FIJI ISLANDS (182)
ML 4.1 (SVA).

MBU 0.89 135 iPc 09 54.10 1.4

NDE 1.22 102 iPc 09 58.10 -0.3
eS 10 13.50
OVA 1.51 153 eP 10 05.90 3.2X
eS 11 28.10
NDF 1.53 203 eP 10 03.40 0.4
KRO 1.59 128 iPc 10 03.70 -0.3
eS 10 25.60
VUN 1.70 167 ePc 10 05.60 0.1
eS 10 28.20
SVA 1.81 168 ePc 10 06.40 -0.6
eS 10 28.20
UDU 1.87 85 ePc 10 06.40 -1.6
eS 11 29.90
TVI 1.90 108 ePc 10 08.30 -0.2
eS 11 36.10
ASPA 42.01 253 iPc 17 27.50 -1.5
1.1s 15.70nm 4.7mb
PNT 85.38 36 eP 22 16.00 1.6
ALO 87.79 53 eP 22 27.70 1.0
0.9s 1.89nm 4.4mb
S.D. = 1.2 on 11 of 12 obs.

OCT 07, 1991 11h 28m 49.48 ± 0.30s
3.309 N ± 5.4km 125.719 E ± 6.5km
DEPTH = 113.1km (2 depth phases)
5.0mb (22 obs.)
TALAUD ISLANDS, INDONESIA (263)

MNI 2.05 205 ePc 29 25.50 1.7
eS 29 50.00
PCI 7.22 235 iPc 30 36.40 2.5
i(S) 30 53.50
AAI 7.38 160 ePd 30 34.00 -2.1X
eS 32 43.50
TSM 7.89 277 ePd 30 45.00 1.9
1.0s 686.50nm 6.2mb X
KKM 9.85 286 ePc 31 12.80 3.1X
1.2s 158.50nm 5.7mb
BAG 13.97 339 eP 32 07.50 3.7X
MTN 16.93 162 eP 32 37.00 -3.9X
0.3s 37.00nm 5.1mb
TRT 17.03 230 ePd 32 42.90 0.7
KLI 22.37 249 eP 33 40.10 1.0
e 34 37.00
LAT 23.44 115 eP 33 51.60 2.1
IPM 24.67 274 ePd 34 03.50 2.1
1.2s 143.70nm 5.3mb
SNG 25.29 280 eP 34 09.10 2.0
QIS 27.35 151 iPc 34 24.40 -1.6
0.3s 13.00nm 5.0mb
LOE 27.39 302 eP 34 25.00 -1.3
ASPA 27.97 164 iPc 34 29.50 -2.1
0.6s 17.80nm 4.9mb
iS 39 00.50

WHN 29.14 340 P 34 43.70 1.8
WARB 29.33 178 eP 34 42.00 -1.7
CHG 30.38 302 eP 34 52.30 -0.8
1.2s 16.02nm 4.6mb
CHTO 30.38 302 eP 34 52.70 -0.4
1.1s 9.42nm 4.4mb
CTAO 30.78 140 iPc 34 56.00 -0.5
1.1s 46.40nm 5.1mb
e 35 06.00
e 35 31.50

KMI 30.97 317 eP 34 58.50 0.0
1.5s 50.00nm 5.0mb
FORR 34.04 176 eP 35 21.30 -3.4X
XAN 34.35 335 P 35 26.40 -1.0
0.7s 11.00nm 4.8mb
CD2 34.40 325 P 35 27.80 -0.1
MAT 35.02 18 eP 35 34.00 0.9
0.7s 6.16nm 4.6mb
eS 40 55.00

TIY 36.34 342 eP 35 44.30 0.0
HNR 36.38 111 eP 35 43.00 -1.8
YAMJ 37.09 19 P 35 52.80 2.4
BJI 37.57 348 eP 35 54.00 -0.4
1.0s 13.00nm 4.8mb

LZH 38.36 331 eP 36 02.00 0.6
1.5s 71.00nm 5.3mb
pP 36 27.50 111km
SNY 38.40 357 Pd 36 01.70 0.4
0.8s 20.00nm 5.0mb
OFUJ 38.45 20 eP 36 07.90 6.1X
HHC 39.49 343 eP 36 10.50 -0.1
ADE 39.98 163 eP 36 10.20 -4.4X

0.8s 71.64nm 5.5mb
BRS 40.16 141 iPd 36 15.70 -0.4
0.9s 11.10nm 4.7mb
CN2 40.32 360 eP 36 17.40 0.2
MDJ 41.28 4 iPd 36 25.60 0.6
0.9s 83.00nm 5.5mb
COO 41.95 145 iPd 36 29.40 -1.4
0.9s 67.00nm 5.4mb
LSA 41.97 312 eP 36 30.40 -1.1
GTA 42.95 330 P 36 39.00 0.1
1.0s 14.00nm 4.7mb
PcP 38 28.80
ScP 42 06.60
ScS 46 25.00
KUSJ 43.07 20 eP 36 42.20 2.5
BWA 43.19 152 eP 36 42.10 1.3
BFD 43.22 160 eP 36 39.00 -1.9
ASAJ 43.31 18 eP 36 44.10 2.5
CAN 44.20 152 iPc 36 49.20 0.2
CNB 44.36 152 iPd 36 51.60 1.3
TOO 44.63 158 eP 36 52.80 0.4
GUN 45.16 307 P 36 55.74 -1.4
PKI 45.40 306 P 36 58.30 -0.7
KKK 45.59 306 P 36 59.94 -0.5
DMN 45.66 306 P 37 00.52 -0.4
GKN 46.20 306 P 37 04.12 -1.0
DZM 47.13 124 iPd 37 12.90 0.5
HYB 48.31 290 iPc 37 20.50 -1.1
e 37 49.00
GBA 48.75 285 Pc 37 22.80 -2.1
0.9s 8.40nm 4.6mb
WMO 52.50 326 Pc 37 52.50 -0.6
0.7s 14.00nm 5.0mb
pP 38 27.50 152kmX
sP 38 39.00
YAK 58.65 2 iP 38 37.10 0.3
iS 46 32.00
iS 47 16.00
iScS 48 11.00
QUE 61.52 303 eP 38 56.20 -1.0
MAIO 68.97 308 eP 39 43.00 -1.8
OBN 86.80 325 ePc 41 21.00 -1.1
1.0s *****nm 8.2mb X
e 41 35.00
e 42 28.00
KEV 89.94 340 eP 41 53.00 16.2X
SOD 90.47 338 eP 41 38.00 -1.3
KAF 91.50 332 eP 41 43.00 -1.1
NUR 92.58 331 eP 41 48.00 -1.1
DAG 97.55 352 ePd 42 11.00 -0.5
NB2 98.71 333 P 42 15.80 -1.3
0.8s 5.60nm 5.2mb
LNV 145.58 154 ePKP 48 17.00 0.6
PCH 146.25 155 ePKP 48 19.50 1.8
PEL 146.59 155 ePKPc 48 21.00 2.8X
ROCH 146.59 154 ePKP 48 20.00 1.5
ZOBO 161.26 134 PKP 48 42.00 2.9X
i 49 11.00
S.D. = 1.3 on 61 of 71 obs.

? OCT 07, 1991 11h 56m 56.17±3.74s
17.407 S ±41.2km 179.194 W ±38.9km
DEPTH = 611.3 ± 44.6 km
4.8mb (1 obs.)

FIJI ISLANDS REGION (181)

DZM 14.29 249 iPc 59 56.80 -0.5
COO 29.39 238 iPc 02 15.60 1.7
0.6s 14.00nm 4.8mb
CNB 33.15 231 iPd 02 45.50 0.1
CAN 33.42 231 eP 02 47.00 -0.7
BWA 33.51 233 e(P) 02 43.80 -4.6X
TOO 36.91 230 eP 03 16.40 0.0
ASPA 44.21 254 iPd 04 15.20 0.6
0.7s 74.10nm 5.3mb X
FORR 49.52 244 eP 04 53.20 -1.2
WARB 50.74 250 eP 05 03.50 -0.1
MBL 57.38 256 eP 05 50.10 0.0
PNT 84.75 35 eP 08 28.00 0.1
S.D. = 1.0 on 10 of 11 obs.

& OCT 07, 1991 12h 11m 15.10s
37.533 N 121.393 W
DEPTH = 7.0km
CENTRAL CALIFORNIA (39)

<BRK>. ML 3.0 (BRK).

ARN 0.21 211 iPc 11 19.24 -0.3
MHC 0.28 226 ePd 11 20.50 -0.3
iS 11 25.05
GCC 0.70 224 iPd 11 28.46 -0.6
iS 11 39.91
BKS 0.75 297 eP 11 29.20 -0.9
eS 11 42.00
SAO 0.77 183 iPd 11 30.20 -0.2
PCC 0.79 268 iPc 11 29.97 -0.7
iS 11 42.94
ZSP 0.80 301 iPd 11 30.67 -0.2
iS 11 44.71
CMB 0.94 58 iPd 11 32.50 -0.9
iS 11 45.48
LLA 0.98 158 iPd 11 34.00 -0.1
PRS 1.20 179 iPc 11 36.86 -0.9
FRI 1.45 111 iPd 11 40.42 -1.3
iS 11 58.80
NWRM 1.50 308 eP 11 40.87 -1.5
PRI 1.51 157 iPc 11 41.76 -0.9
ORV 2.02 358 iPc 11 49.00 -1.0
BONR 2.49 79 eP 11 56.91 0.0
15 obs. associated

? OCT 07, 1991 12h 29m 35.25±1.03s
36.841 N ± 8.8km 34.826 E ± 14.2km
DEPTH = 33.0km (normol)
4.4mb (1 obs.)

TURKEY (366)

LFK 1.88 214 iPn 30 06.80 1.1
BHL 3.01 167 Pn 30 16.00 -5.8X
Sn 31 08.00
BBTK 3.41 332 eP 30 41.00 13.5X
eS 31 34.00
HRI 3.64 168 eP 30 30.20 -0.6
ATZ 4.03 175 eP 30 35.30 -0.9
eS 31 22.70
KVT 4.34 12 eP 30 40.00 -0.6
ZNT 4.60 178 eP 30 43.90 -0.3
eS 31 38.50
KAS 4.60 350 eP 30 39.00 -5.3X
YER 5.25 275 ePn 31 00.00 6.5X
MSL 6.71 91 ePn 31 15.00 1.0
ePg 31 47.50
eSn 32 25.00
iS 32 45.00
iSg 33 00.00
BHD 8.61 112 ePn 32 05.00 24.5X
CKI 21.46 299 P 34 01.90 -20.9X
eSg 34 04.60
HFS 26.95 337 eP 35 12.20 -3.1X
1.0s 9.00nm 4.4mb
S.D. = 1.1 on 6 of 13 obs.

OCT 07, 1991 13h 10m 01.25±1.00s
44.107 N ± 7.3km 12.570 E ± 8.0km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

SFI 0.55 251 P 10 12.60 0.2
eSg 10 20.70
CRE 0.65 223 P 10 13.90 -0.5
eSg 10 22.50
PGD 0.65 250 P 10 14.80 0.4
eSg 10 23.80
ARV 0.67 156 P 10 14.50 0.0
eSg 10 24.40
ASS 1.04 176 P 10 19.80 -1.1
eSg 10 35.00
MME 1.35 274 P 10 25.50 -0.7
BDI 1.42 269 P 10 27.80 0.6
eSg 10 45.00
MNS 1.72 177 P 10 32.80 1.3
TRI 1.81 27 eP 10 55.20 22.5X
e 11 08.30
CTI 2.05 342 P 10 36.10 -0.1
eSn 10 58.70
S.D. = 0.8 on 9 of 10 obs.

% OCT 07, 1991 15h 13m 37.71±0.80s
37.181 N ± 5.7km 5.484 W ± 7.6km
DEPTH = 10.0km (geophysicist)
SPAIN (377)

LIJA 0.29 168 eP 13 43.00 -0.8
EPRU 0.30 137 eP 13 44.00 0.1
eS 13 50.00
ALJ 0.52 191 eP 13 49.00 0.8
GIBL 0.52 227 eP 13 49.00 0.8
EHOR 0.67 16 eP 13 51.50 0.5
eS 14 02.00
EJIF 0.73 179 eP 13 51.40 -0.6
eS 14 04.00
EVAL 1.08 292 eP 13 57.20 -0.9
eS 14 12.00
S.D. = 0.9 on 7 of 7 obs.

% OCT 07, 1991 15h 15m 01.22±0.63s
42.352 N ± 5.1km 18.829 E ± 5.4km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 1.7 (TTG).

BDV 0.07 181 iPg 15 03.88 0.3
iSg 15 05.44
HCY 0.26 291 iPg 15 06.08 0.2
iSg 15 11.22
TTG 0.33 76 iPg 15 08.18 0.1
iSg 15 13.04
NKY 0.48 15 iPg 15 10.90 0.0
iSg 15 17.84
ULC 0.50 141 iPg 15 10.92 -0.4
iSg 15 18.02
BRY 0.59 339 iPg 15 12.80 -0.4
iSg 15 21.80
IVA 0.95 56 iPg 15 19.56 0.3
iSg 15 33.78
S.D. = 0.4 on 7 of 7 obs.

% OCT 07, 1991 15h 16m 28.23±0.98s
37.209 N ± 6.8km 5.482 W ± 9.5km
DEPTH = 10.0km (geophysicist)
SPAIN (377)

EPRU 0.31 140 eP 16 34.20 -0.6
eS 16 39.80
LIJA 0.31 170 eP 16 36.00 1.2
GIBL 0.54 225 eP 16 40.00 0.9
ALJ 0.54 190 eP 16 40.00 0.8
EHOR 0.64 17 eP 16 41.80 0.7
eS 16 52.00
EJIF 0.76 179 eP 16 41.00 -2.0
eS 16 52.00
EVAL 1.08 291 eP 16 47.50 -1.0
eS 17 02.50
S.D. = 1.5 on 7 of 7 obs.

? OCT 07, 1991 15h 22m 45.77±11.75s
40.327 N ± 35.8km 25.271 E ± 84.9km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

OUR 0.99 271 ePg 23 04.46 0.0
PAIG 1.28 252 ePb 23 09.58 0.0
SRS 1.50 302 ePbc 23 12.74 0.0
eSb 23 30.66
SOH 1.54 289 iPb 23 13.18 -0.2
KNT 1.99 296 ePb 23 19.94 0.2
S.D. = 0.2 on 5 of 5 obs.

% OCT 07, 1991 15h 23m 34.67±0.87s
37.129 N ± 6.5km 5.535 W ± 7.8km
DEPTH = 10.0km (geophysicist)
SPAIN (377)

LIJA 0.25 157 eP 23 40.00 0.0
EPRU 0.29 124 eP 23 41.30 0.5
eS 23 47.00
GIBL 0.45 228 eP 23 45.00 1.1
ALJ 0.46 187 eP 23 42.00 -2.0
EJIF 0.68 175 eP 23 49.00 0.9
eS 24 01.00
EHOR 0.73 18 eP 23 48.80 -0.2
eS 23 59.00
EVAL 1.07 296 eP 23 54.50 -0.3
eS 24 08.80
S.D. = 1.3 on 7 of 7 obs.

? OCT 07, 1991 15h 37m 28.31±1.04s
40.385 N ± 7.8km 23.924 E ± 13.9km
DEPTH = 10.0km (geophysicist)

ASAJ	59.13	21	eP	06 17.70	-1.2	MNI	3.84	195	eP	03 33.30	0.7	DEPTH = 33.0km (normal)								
WMO	60.39	336	P	06 27.00	-0.7	PCI	8.49	225	ePc	04 43.50	6.2X	NEAR COAST OF CENTRAL CHILE (135)								
	1.5s	24.00nm		5.1mb		IPM	24.70	270	ePd	07 52.50	2.2	LNV	0.09	242	iPc	16 51.10	0.4			
Z	28s	1.27um		4.9MszX		OIS	28.94	153	eP	08 28.00	-1.0	TACH	0.41	51	iPd	16 55.00	0.7			
		PcP	07 11.30			CHG	29.50	300	eP	08 34.40	0.3				iS	17 04.60				
		PP	08 41.60			CHTO	29.50	300	eP	08 32.90	-1.2	LCCH	0.49	334	iPc	16 54.90	-0.5			
		ScP	11 10.50				0.8s	1.83nm		3.8mb					iS	17 04.50				
		PcS	11 14.00			ASPA	29.74	165	eP	08 35.20	-0.9	CHCH	0.55	92	iPd	16 56.00	-0.4			
		S	14 36.40				0.6s	4.50nm		4.3mb					iS	17 04.80				
		ScS	16 14.90			WARB	31.19	179	eP	08 48.70	-0.1	SAN	0.71	50	iPd	16 58.80	0.1			
		SS	18 34.00			XAN	32.72	333	eP	08 59.50	-2.6				iS	17 11.00				
QUE	63.01	312	iPc	06 46.00	0.3	MAT	33.22	18	eP	09 05.00	-1.4	PCH	0.73	67	iPd	16 58.50	-0.4			
	1.3s	57.69nm		5.5mb			0.9s	8.40nm		4.6mb					iS	17 11.50				
IRK	63.54	351	eP	06 46.00	-2.6	BJI	35.78	347	eP	09 30.00	1.8	PEL	0.93	35	iP	17 02.00	0.2			
		e	06 59.20			FORR	35.89	177	eP	09 28.00	-1.2				iS	17 17.50				
		e	07 07.00			SNY	36.54	357	eP	09 34.60	0.0	ROCH	0.97	15	iP	17 02.70	0.1			
		e	26 08.00			MDJ	39.42	4	eP	09 58.00	-0.7				iS	17 18.00				
CRZF	65.44	224	eP	07 19.00	18.0X		0.9s	22.00nm		5.1mb		JACH	1.37	26	iPd	17 08.00	-0.1			
		eS	15 55.00			LSA	40.80	311	P	10 11.00	0.2				iS	17 27.50				
MAW	67.17	200	eP	07 14.00	2.3	GTA	41.39	329	eP	10 16.00	0.9	S.D. = 0.5 on 9 of 9 obs.								
	1.3s	23.00nm		5.0mb			1.0s	4.00nm		4.2mb										
MAIO	71.48	314	iPc	07 40.00	1.2	GUN	44.14	305	P	10 37.80	-0.2	* OCT 08, 1991 01h 20m 14.73±2.94s								
		eS	16 52.00			PKI	44.39	305	P	10 39.60	-0.4	2.672 N ±13.2km 75.725 W ±22.3km								
YAK	73.01	6	iP	07 47.80	0.7	KKN	44.58	305	P	10 41.00	-0.4	DEPTH = 10.0km (geophysicist)								
		iPcP	07 57.00				0.5s	9.00nm		4.9mb		COLOMBIA (103)								
		iPP	08 14.00	102kmX		DMN	44.65	305	P	10 42.00	0.0	MD 3.2 (UVC).								
		ePP	10 30.00			GKN	45.19	305	P	10 45.70	-0.4	PURC	0.73	241	iPc	20 29.22	-0.1			
		iS	17 08.00			HYB	47.78	289	eP	11 06.50	0.0				eS	20 40.00				
		iSKS	17 15.00			DZM	48.12	126	iPd	11 10.10	1.0	SALC	1.01	287	iPd	20 34.43	0.4			
		eScS	17 19.00			GBA	48.38	284	Pc	11 15.50	4.4X	HOOC	1.20	311	eP	20 37.04	-0.3			
		ePS	17 51.00				0.2s	0.60nm		4.2mb		ANCC	1.41	306	eP	20 40.73	0.2			
		eSS	21 52.00			YAK	56.79	2	iP	12 11.50	-1.4	CLMC	1.46	325	ePc	20 40.88	-0.5			
SHI	73.91	305	eP	07 54.00	0.7	TTA	80.03	27	eP	14 38.80	1.7	HOBC	1.72	346	eP	20 45.34	0.3			
BHD	81.69	306	eP	08 37.50	1.7	KDC	81.21	32	e(P)	14 44.20	0.9	S.D. = 0.5 on 6 of 6 obs.								
TAB	81.77	311	eP	08 39.00	2.6	IMA	81.44	24	eP	14 46.20	1.6	% OCT 08, 1991 02h 09m 12.73±0.91s								
CIR	82.20	250	eP	08 44.00	5.2X		0.9s	7.70nm		4.6mb		59.854 N ± 7.7km 6.302 E ± 7.1km								
MTD	82.83	254	eP	08 53.50	11.3X	PWA	82.76	29	eP	14 51.80	0.5	DEPTH = 10.0km (geophysicist)								
BFT	82.93	245	eP	09 01.50	18.7X		S.D. = 1.2 on 27 of 29 obs.													
MSL	83.62	309	eP	08 44.00	-1.8		& OCT 07, 1991 23h 22m 07.20s													
SLR	84.49	245	iPc	08 54.00	3.4X		38.795 N	122.783 W				SOUTHERN NORWAY (535)								
	1.0s	20.00nm		5.2mb			DEPTH = 1.0km													
Z	20s	2.84um		5.7Msz		NORTHERN CALIFORNIA (36)														
SEK	84.67	242	iPc	08 55.00	3.5X	<BRK>. ML 3.3 (BRK).														
	1.2s	23.44nm		5.2mb		NWRM	0.35	194	eP	22 14.41	0.3	ODD1	0.17	70	iPd	09 16.24	-0.5			
PRY	85.02	244	iPd	08 57.50	4.2X	ZSP	0.94	154	iPd	22 25.43	-0.6	EGD	0.68	308	iP	09 26.06	-0.2			
	1.0s	10.00nm		4.9mb					iS	22 40.94					iS	09 35.30				
BUL	85.08	251	iPd	08 57.60	4.0X	BKS	1.01	155	eP	22 27.00	-0.2	ASK	0.84	319	iP	09 28.56	-0.3			
	1.1s	13.29nm		5.0mb					eS	22 40.80					iS	09 39.67				
NVL	85.09	199	eP	08 55.50	2.9X	ORV	1.25	52	iPc	22 29.43	-1.9	KMY	0.84	220	iP	09 28.98	0.1			
		e	09 06.00			PCC	1.33	166	iPc	22 32.91	0.3				iS	09 40.44				
		e	09 42.00						eS	22 50.44		HYA	1.32	358	iP	09 36.37	-0.7			
		e	10 14.00			ARN	1.75	145	eP	22 36.20	-2.7				eS	09 54.13				
		eSKS	19 16.00			WDC	1.79	6	eP	22 41.77	2.3	SUE	1.43	328	iP	09 38.87	0.2			
		eS	19 26.00			GCC	1.87	160	iPc	22 38.75	-1.8				iS	09 56.67				
		ePS	20 40.00			CMB	2.03	111	iPc	22 41.60	-1.4	MOL	2.79	12	eP	09 59.55	1.3			
		eSS	25 20.00			LLA	2.62	146	eP	22 49.17	-2.2	S.D. = 0.8 on 7 of 7 obs.								
VIR	85.37	242	eP	09 00.50	5.5X	LBFM	2.64	15	e(P)	22 55.08	3.2	OCT 08, 1991 03h 31m 15.60±0.08s								
	1.0s	20.00nm		5.2mb		BNOR	3.62	102	ePn	23 05.47	-0.4	45.587 N ± 1.9km 149.049 E ± 1.8km								
KSR	85.71	245	eP	09 00.20	3.5X		12 obs. associated			DEPTH = 145.9km (43 depth phases)										
FRS	86.42	241	iPd	08 58.70	-1.2					6.0mb (122 obs.)										
	1.5s	27.78nm		5.3mb		? OCT 08, 1991 00h 30m 26.86±14.42s			KURIL ISLANDS (221)											
OBN	93.22	325	eP	09 41.00	9.8X		31.607 S ±62.4km	68.173 W ±96.8km				mb 5.3 (BRK). Mo=1.3*10**18 Nm								
		e	10 13.00				DEPTH = 10.0km (geophysicist)			(PPT).										
		e	12 19.00			SAN JUAN PROVINCE, ARGENTINA (137)			FAULT PLANE SOLUTION: P-Waves											
IMA	99.22	24	e(P)	10 00.80	2.3					NP1:Strike= 40 Dip=85 Slip= 70										
	1.9s	46.70nm		5.7mb		CFA	0.06	270	iPc	30 28.90	-0.2				NP2: 297 21 166					
KAF	99.64	332	eP	10 02.50	2.2	ZON	0.44	278	iPd	30 35.50	-0.3				Principal Axes:					
ALQ	133.52	51	ePKP	15 37.00	2.6X				eS	30 45.50					T	Pig=46 Azm=289				
BAO	150.11	210	ePKP	16 08.50	4.7X	JACH	2.32	242	iPc	31 07.90	2.2				P	37 148				
SOB1	150.64	229	ePKP	16 13.00	8.5X				iS	31 42.50					Comment: The focal mechanism is					
		e	16 21.50			PEL	2.62	234	iPc	31 09.90	-0.1				moderately well controlled and					
CNCB	152.34	169	PKP	16 18.00	10.4X				iS	31 50.70					corresponds to reverse					
LPB	152.59	169	ePKP	16 16.00	8.2X	ROCH	2.76	240	eP	31 12.20	0.0				faulting with a moderate					
ZOBO	152.84	169	PKP	16 12.20	3.9X				iS	31 52.50					strike-slip component. The					
	1.3s	24.45nm				SAN	2.79	228	eP	31 12.50	0.0				preferred fault plane is not					
		LR	09 44.00			PCH	2.82	224	iP	31 13.80	0.9				determined.					
SIV	153.57	184	PKP	16 20.40	11.7X	TACH	3.10	228	iPd	31 16.30	-0.4	RADIATED ENERGY								
	S.D. = 1.3 on 74 of 105 obs.					CHCH	3.12	221	iPd	31 17.40	0.3	No. of sta: 10 Focal mech. F								
						LCCH	3.42	236	eP	31 20.50	-0.8	Energy 2.0±0.5*10**13 Nm								
						LNV	3.59	228	iP	31 21.90	-1.8	MOMENT TENSOR SOLUTION								
						S.D. = 1.1 on 11 of 11 obs.						Dep 139 No. of sta: 16								
												Moment Tensor; Scale 10**18 Nm								
												Mrr=-0.06 Mtt=-0.45								
												Mff= 0.51 Mrt= 0.77								
												Mtf= 0.67 Mtr= 0.09								
MINDANAO, PHILIPPINE ISLANDS (259)												% OCT 08, 1991 01h 16m 45.02±0.96s								
												33.914 S ± 9.3km 71.315 W ± 7.5km								

08d 03h

Principal axes:				iPcP 39 50.00				isS 44 11.87			
T Val= 1.13 Plg=38 Azm=296				iSS 40 14.00				SS 45 40.00			
N 0.00 25 48				iPS 42 23.00				ScS 48 02.00			
P -1.13 41 162				iScP 43 20.00				TTA 35.15 41 iPc 37 57.20 0.6			
Best Double Couple:Mo=1.1*10**18				iScS 46 48.00				0.7s 154.30nm 5.9mb			
NP1:Strike=322 Dip=25 Slip=-176				iPSP 47 53.00				SVW 35.28 44 eP 37 58.90 1.2			
NP2: 228 88 -65				HIA 20.11 291 iPc 35 36.61 -3.0X				BRW 36.26 26 iPc 38 06.10 0.4			
CENTROID, MOMENT TENSOR (HRV)				e 36 07.56				e 38 06.80 2kmX			
Data Used: GDSN				i 36 29.25				GTA 36.35 278 iPc 38 08.20 1.2			
L.P.B.: 24S, 62C				eS 39 07.24				1.0s 400.00nm 6.1mb			
Centroid Location:				e 39 50.01				pP 38 39.00 137km			
Origin Time 03:31:18.4 0.2				KAGJ 20.17 231 eP 35 41.60 1.3				sP 38 55.00			
Lat 45.64N 0.02 Lon 149.03E 0.02				DL2 21.30 261 iPd 35 52.00 0.4				PP 39 35.00			
Dep 144.5 0.6 Half-duration 3.9				1.0s 1300.00nm 6.3mb				S 43 38.00			
Moment Tensor: Scale 10**17 Nm				sP 36 40.00				sS 44 30.00			
Mrr=-1.16 0.19 Mtt=-1.20 0.25				S 39 34.00				SS 46 14.00			
Mff= 2.36 0.23 Mrt= 8.64 0.20				ADK 23.31 62 eP 36 11.00 0.0				ScS 48 07.80			
Mrf= 8.78 0.19 Mtf= 0.35 0.25				0.9s 216.80nm 5.6mb				IMA 36.40 35 iPc 38 07.80 0.7			
Principal Axes:				BJI 24.63 269 iPc 36 24.23 0.5				GZH 36.61 244 iPc 38 09.50 0.3			
T Val= 12.40 Plg=42 Azm=306				1.5s 1390.00nm 6.3mb				pP 38 40.00 136kmX			
N 0.18 8 44				e 36 25.55 5kmX				PP 39 39.00			
P -12.58 47 142				iS 40 34.05				RSO 36.70 45 P 38 09.90 0.1			
Best Double Couple:Mo=1.2*10**18				isS 41 28.40				KDC 37.07 49 eP 38 12.50 -0.1			
NP1:Strike=331 Dip= 9 Slip=-163				eScS 47 09.50				0.8s 282.76nm 6.1mb			
NP2: 224 87 -82				TIA 25.74 260 Pc 36 34.30 0.3				BAG 37.59 229 eP 38 17.70 0.0			
KUSJ 3.98 233 iP+ 32 15.20 -1.0				0.8s 400.00nm 6.1mb				1.0s 100.00nm 5.5mb			
S 32 59.30				sP 37 21.00				e 39 04.60 224kmX			
ASAJ 4.79 254 iP+ 32 29.90 3.0X				PcP 39 59.70				eS 43 53.00			
eS 33 26.20				S 40 52.00				SLKM 37.95 45 eP 38 19.40 -0.7			
HOIJ 5.25 234 eP 32 32.00 -1.0				ScS 47 14.10				S 43 58.00			
eS 33 30.00				SSE 26.04 246 iPc 36 38.00 1.2				e 48 11.70			
SAP 6.09 248 iP 32 46.00 1.7				1.2s 520.00nm 6.0mb				CD2 37.95 263 iPc 38 20.80 0.3			
iS 33 53.00				PP 37 22.00				1.0s 580.00nm 6.3mb			
MRRJ 6.56 244 eP 32 50.10 -0.7				S 40 54.00				pP 38 49.00 125kmX			
eS 34 01.00				ScS 47 16.00				sP 39 07.00			
AOMJ 8.09 235 P 33 09.30 -2.1				NJ2 26.95 250 Pc 36 45.00 0.0				PP 39 52.50			
S 34 34.50				1.1s 410.00nm 6.0mb				S 44 00.00			
OFUJ 8.49 223 P 33 13.70 -3.0X				HHC 27.55 274 iPd 36 51.40 0.9				PMR 38.39 43 eP 38 22.10 -1.5			
S 34 43.50				pP 37 25.00 162kmX				1.0s 175.00nm 5.8mb			
YAMJ 10.00 225 P 33 34.00 -2.6				PP 37 42.50				sP 39 10.40			
S 35 21.00				S 41 21.00				RND 38.40 40 P 38 23.30 -0.6			
NIJJ 11.24 226 iP+ 33 50.70 -2.2				TIY 28.27 267 iPc 36 58.00 1.0				GYA 38.70 255 iPc 38 26.80 0.0			
eS 35 49.10				1.2s 850.00nm 6.3mb				1.0s 260.00nm 5.9mb			
KAKJ 11.52 219 P 33 53.60 -3.0X				pP 37 28.00 142km				pP 38 59.00 146km			
S 35 54.10				S 41 35.00				sP 39 16.00			
MAJO 12.18 226 ePc 34 03.21 -2.0				BTO 28.73 274 iPd 37 01.50 0.4				PP 40 01.00			
MAT 12.18 226 iPc 34 03.20 -2.0				1.2s 630.00nm 6.2mb				S 44 10.00			
0.7s 139.04nm 5.6mb				pP 37 32.50 147km				PcS 44 25.00			
iS 36 15.20				PP 37 58.00				SS 46 56.00			
CHJJ 12.19 222 P 34 03.20 -2.1				S 41 38.00				ScS 48 19.80			
eS 36 11.30				sS 42 32.00				COL 38.81 37 ePc 38 28.04 0.9			
MTMJ 12.35 227 iP+ 34 05.90 -1.7				IRK 29.75 299 ePd 37 08.00 -1.9				iS 44 14.00			
IIDJ 13.16 224 iP+ 34 17.30 -0.7				e 37 23.00 61kmX				FBA 38.81 37 iPd 38 27.50 0.3			
S 36 37.30				e 37 47.20				1.0s 190.00nm 5.8mb			
MDJ 13.78 273 iPc 34 26.02 0.2				ePP 37 57.00				QCP 38.82 226 eP 38 24.00 -3.7X			
i 35 08.07				ePPP 38 24.00				TOA 39.73 42 iPc 38 36.20 1.3			
eS 36 57.18				e 39 05.00				1.0s 472.50nm 6.2mb			
i 37 38.24				e 39 38.30				KLU 39.93 43 P 38 36.70 0.2			
ScP 42 56.50				e 40 45.00				MID 40.02 46 eP 38 38.20 1.1			
ScS 46 35.00				e 40 48.00				BALM 41.70 43 iPc 38 51.60 0.5			
TSRJ 14.10 229 eP 34 27.20 -2.7				eS 41 53.00				iScP 44 21.50			
eS 37 01.00				e 42 07.00				e 45 20.30			
WKYJ 15.32 227 eP 34 43.60 -1.7				e 43 13.00				SS 48 39.00			
YONJ 15.75 234 eP 34 49.60 -0.9				eSSS 43 39.00				QIZ 41.80 244 P 38 52.00 -0.1			
TKSJ 16.32 230 eP 34 55.90 -1.6				WHN 30.90 253 iPc 37 20.30 0.2				sP 39 41.50			
SHK 16.67 234 iPc 35 01.20 -0.6				0.8s 380.00nm 6.2mb				PP 40 31.00			
1.0s 720.00nm 5.9mb				pP 37 51.00 144km				S 44 55.00			
CN2 16.87 272 iPc 35 02.40 -1.8				iS 42 13.00				SS 48 00.00			
1.0s 570.00nm 5.8mb				sS 43 08.00				KMI 42.24 257 iPc 38 56.47 0.5			
sP 35 43.00				ScS 47 38.00				1.5s 440.00nm 5.9mb			
S 38 04.00				QZH 31.99 240 iPd 37 31.20 1.4				ec 39 27.92 140km			
ScS 46 41.00				1.3s 230.00nm 5.8mb				ed 39 43.65			
SMY 17.82 57 eP 35 16.20 0.7				S 42 30.00				iS 45 05.18			
0.9s 202.78nm 5.4mb				ScS 47 46.50				isS 46 00.63			
SHNJ 17.87 236 P 35 15.70 -0.4				GUMO 32.09 188 eP 37 27.80 -2.8				eSS 48 16.54			
SHNJ 17.87 236 eP 35 16.00 -0.1				GUA 32.13 188 eP 37 27.50 -3.5X				eScS 48 42.86			
SNY 18.77 268 iPc 35 25.50 -0.3				0.5s 61.97nm 5.7mb				WMO 42.70 290 iPc 38 59.50 0.1			
1.2s 1460.00nm 6.2mb				XAN 32.59 264 iPc 37 35.00 0.0				1.5s 710.00nm 6.1mb			
sP 36 10.00				1.2s 340.00nm 6.0mb				pP 39 32.00 145km			
iS 38 46.00				S 42 40.00				sP 39 48.00			
ScS 46 48.70				LZH 35.09 271 iPc 37 57.62 1.1				PcP 40 48.00			
KUMJ 19.18 234 P 35 30.40 0.2				1.5s 180.00nm 5.6mb				PcS 44 40.00			
YAK 19.89 333 P 35 35.50 -1.7				ePP 39 19.50				iS 45 14.00			
iPp 35 52.00 83kmX				PcP 40 26.00				sS 46 08.50			
iPP 36 20.00				iS 43 17.52				ScS 48 44.00			
iS 39 09.00				ScP 43 57.50				INK 44.13 31 iPc 39 10.70 0.2			

LSA	0.6s	181.00nm	5.9mb			0.4s	200.00nm	6.4mb			0.8s	132.20nm	5.9mb
	47.50	271 pP	39 59.00 226kmX		TP I	60.52	229 ePd	41 12.70 0.3		POO	66.73	273 iPc	41 48.00 -5.1X
		PP	39 39.00 0.9		FHC		e	45 00.00			1.1s	513.92nm	6.3mb
		S	41 32.00			60.55	61 iPd	41 13.09 0.6		CWC		iS	50 33.50
LOE	48.23	250 eP	39 43.00 -0.2		FOX	60.71	61 ePPc	41 48.35 149km		SYP	66.88	61 iPd	41 53.00 -1.0
JAY	48.46	191 ePd	39 45.00 0.0		LBFM	61.50	59 P	41 14.03 0.5			66.93	64 eP	41 54.00 -0.3
OPA	0.7s	172.60nm	5.9mb		WDC	61.57	60 iPd	41 49.52 150km		SBC	67.15	64 ePd	41 55.26 -0.2
CHG	49.06	101 P	39 49.80 0.2				ePPc	41 18.90 -0.2				ec	42 44.26 209kmX
	49.09	254 iPc	39 50.90 1.0		LOF	61.81	343 eP	41 18.98 -0.3				iS	50 40.75
	1.0s	125.00nm	5.6mb		SES	61.99	46 ePd	41 54.49 149km				i	51 36.70
		eS	46 44.00				ePd	41 21.50 -0.5				e	52 39.60
CHTO	49.09	254 iPc	39 49.46 -0.4		LTCM	1.1s	150.00nm	5.8mb		ABL	67.20	63 P	41 55.40 -0.7
		ec	40 21.74 141km			62.04	60 P	41 21.90 -0.6				pP	42 30.00 143km
		ed	40 35.48		MIN		pP	41 57.00 147km		GBA	67.56	267 Pc	41 57.20 -1.0
		ePP	41 43.68			62.28	60 iPd	41 23.25 -0.9			0.8s	200.00nm	6.0mb
HON	49.31	101 P	39 51.30 -0.2		ORV	62.82	60 iPd	41 58.79 149km		DUG	67.57	55 P	41 58.10 -0.1
DHH	49.49	101 P	39 49.90 -3.0X				ipPc	41 26.62 -1.0				pP	42 33.50 146km
RAB	49.63	176 iPd	39 54.40 0.4		MOR7	63.08	341 eP	42 02.18 149km		CLC	67.58	61 iPd	41 57.00 -1.3
	1.0s	720.00nm	6.4mb		KAF	63.27	334 iP	41 26.57 -2.4		UPP	67.66	336 iPc	41 56.40 -1.8
BDT	50.16	253 iPc	39 57.90 -0.1				eP	41 27.90 -2.3			0.5s	200.00nm	6.2mb
	0.8s	18.00nm	4.9mb X		FFC	0.6s	168.50nm	6.1mb				ipP	42 22.80 105kmX
HKL	50.93	100 P	40 04.90 0.5			63.42	38 iPc	41 30.90 -0.4				iS	50 37.50
LAT	52.03	183 ePd	40 12.90 0.8		KNA	0.9s	307.00nm	6.2mb				iScS	51 39.00
KHT	52.19	251 iPc	40 14.50 1.1			63.75	202 iPd	41 32.70 -1.1		BW06	67.69	51 iPd	41 58.10 -1.0
GUN	52.27	273 Pc	40 14.34 0.1		KL I	0.7s	39.00nm	5.4mb			1.0s	81.67nm	5.5mb
	1.0s	1648.00nm	6.8mb			63.78	231 ePd	41 33.40 -0.7				pP	42 34.00 148km
KSH	52.49	291 P	40 17.00 1.5		GCC		e	41 46.00 44kmX		MOL	67.88	342 eP	41 58.01 -1.6
		S	47 34.00			64.08	63 iPd	41 35.18 -0.6		SBB	68.18	62 eP	42 01.00 -1.0
		ScS	49 50.00		MHC	64.10	62 ePc	41 35.40 -0.8		PAS	68.31	63 eP	42 02.00 -0.7
KKN	52.76	273 Pc	40 17.96 0.2		LRM	64.13	50 iPd	41 36.10 -0.3				e	42 37.00 144km
	1.0s	1899.00nm	6.9mb				e	42 12.00 150km		DAU	68.32	54 P	42 03.00 -0.1
PKI	52.80	273 Pc	40 18.28 0.1		ARN	64.17	62 P	41 35.70 -0.8		MWC	68.33	63 eP	42 02.00 -1.1
	1.2s	143.00nm	5.7mb		HYB	64.17	269 iPc	41 36.20 -0.5		NB2	68.37	339 P	42 00.80 -1.9
DMN	52.99	273 Pc	40 19.96 0.5			1.0s	330.00nm	6.2mb			0.8s	359.40nm	6.3mb
	1.1s	2612.00nm	7.0mb				e	42 11.50 147km		GSC	68.41	61 iPc	42 02.00 -1.4
GKN	53.08	274 Pc	40 20.22 0.2				e	42 49.00		HFS	68.51	338 eP	42 01.50 -2.0
	1.0s	2480.00nm	7.0mb X				eS	50 02.00			0.6s	331.40nm	6.3mb
KBS	53.21	351 eP	40 17.90 -2.2		CMB	64.45	61 eP	41 37.55 -0.7		Z	18s	1.29um	5.2Msz
YKA	53.52	35 eP	40 22.20 -0.4				e	42 26.05 208kmX				LR	10 08.00
	0.8s	123.70nm	5.8mb		SAO	64.59	63 iPd	41 38.15 -1.0		SSK	68.57	63 P	42 04.00 -0.5
HNR	55.64	167 eP	40 37.00 -1.4		OBN	64.63	324 iPc+	41 37.50 -1.6		RVR	68.91	63 eP	42 05.00 -1.4
PGC	56.41	53 eP	40 43.00 -0.7			1.2s	1000.00nm	6.6mb		AFI	68.99	139 ePd	42 05.85 -1.1
GAR	56.42	293 iPc	40 43.60 -0.4		Z	22s	1.90um	5.2Msz		MSU	69.06	56 P	42 07.00 0.1
		iPcP	42 12.90		N	24s	1.70um			PEC	69.11	63 ePd	42 06.30 -1.4
		ePP	42 17.00 459kmX		E	16s	1.20um					pP	42 41.20 143km
		ePPP	44 15.00				i	41 50.00 43kmX		DZM	69.17	163 iPd	42 09.00 1.0
		iS	48 23.00				iPcP	42 17.00		HYA	69.43	342 eP	42 07.89 -1.2
		eScS	49 39.00				ePP	43 51.00		PLM	69.66	63 eP	42 10.00 -1.2
		esS	51 21.00				ePPP	45 35.00		RSSD	69.71	47 iPd	42 10.40 -1.0
		eSS	52 51.00				ePcS	46 15.00			1.0s	149.13nm	5.8mb
		iSSS	55 40.00				eS	50 04.00				ipP	42 47.20 152km
SNG	56.59	243 eP	40 46.00 0.7				iPS	50 50.00		PFO	69.74	62 ePd	42 10.61 -1.0
		eS	48 29.00				eSS	51 17.00				eS	51 05.86
MCW	56.74	52 P	40 45.50 -0.6				eSSS	57 30.00		SUE	69.84	342 eP	42 10.58 -1.0
GMW	57.39	53 P	40 50.10 -0.5				LR	02 20.00		KONO	69.98	339 ePc	42 10.12 -2.3
		pP	41 25.70 152km		PRS	64.91	63 iPd	41 40.77 -0.4				ec	42 43.22 135kmX
KEV	57.47	340 iP	40 48.20 -2.6				epP	42 15.15 143km				eS	51 12.26
	0.8s	176.00nm	6.1mb		MAIO	64.91	297 iPc	41 41.70 0.4				eScS	51 58.33
		e	48 32.00				e	50 14.00		BAR	70.22	63 eP	42 13.00 -1.4
		e	49 20.00		LLA	64.99	63 iPd	41 41.48 -0.3		TEH	70.26	301 ePd	42 16.00 1.2
		e	50 24.00				epP	42 17.00 148km		ASK	70.26	342 eP	42 13.10 -1.0
DAG	57.68	357 iPc	40 50.50 -1.7		NUR	65.01	333 iP	41 39.30 -2.2		BER	70.32	342 eP	42 13.29 -1.2
	1.0s	93.00nm	5.7mb			0.5s	251.20nm	6.4mb		EGD	70.45	342 eP	42 14.13 -1.1
NDI	57.84	280 iP	40 54.00 0.1				e	50 52.00		IR7	70.75	301 iPc	42 19.00 1.3
	0.7s	335.62nm	6.4mb				e	51 20.00		IR4	70.89	301 iPc	42 20.00 1.4
RMW	57.99	53 P	40 54.40 -0.5		HPI	65.12	52 P	41 42.70 -0.2		IR1	70.89	301 iPc	42 20.00 1.4
PNT	58.15	50 ePd	40 55.00 -0.9				pP	42 19.00 151km		IR5	71.10	301 eP	42 02.00 -17.8X
	0.6s	39.00nm	5.5mb		KVN	65.20	59 P	41 43.00 -0.3		GLA	71.12	62 iPd	42 20.00 0.1
IPM	58.35	241 ePc	40 58.00 0.3				pP	42 18.90 150km		MBL	71.54	209 iPd	42 21.80 -0.5
LON	58.39	54 P	40 56.90 -0.8		PVC	65.41	160 iPc	41 44.20 -0.2			0.6s	55.00nm	5.5mb
SHW	58.46	55 P	40 58.60 0.3		CTAD	65.41	183 iPd	41 43.76 -0.6		TAB	71.63	306 iPc	42 24.70 1.7
COR	58.76	57 ePd	41 02.53 2.4			1.3s	347.00nm	6.1mb			1.3s	476.92nm	6.1mb
		iS	48 57.05				ed	42 16.53 135kmX		QLP	71.96	185 iPd	42 25.00 0.4
		iS	49 51.02		PRI	65.47	63 eP	41 44.88 -0.1			0.8s	440.00nm	6.3mb
		iScS	50 37.70		FRI	65.52	62 iPd	41 44.63 -0.5		GOL	72.10	51 iPd	42 25.60 -0.2
		iScS	51 38.95		BONR	65.77	60 P	41 46.80 -0.3			0.9s	18.94nm	4.8mb X
KTK1	58.93	340 iPc	40 58.59 -2.4		PHAM	65.83	63 P	41 46.70 -0.4		GLD	72.14	51 ePc	42 26.50 0.5
SOD	59.28	338 iP	41 00.60 -2.9		PKEM	65.87	63 P	41 39.30 -8.0X			1.0s	90.00nm	5.5mb
TRO	59.44	342 eP	41 02.04 -2.4		PTI	66.07	53 P	41 49.40 0.6		BSD	72.44	334 iPc	42 26.10 -1.1
VGB	59.69	55 P	41 06.40 -0.2		QIS	66.38	190 iPd	41 49.30 -1.3			0.5s	220.00nm	6.2mb
DPW	59.75	51 P	41 06.10 -0.9			1.0s	112.00nm	5.7mb		COP	72.68	336 iPc	42 27.80 -0.8
NEW	60.11	50 iP	41 08.80 -0.6		BCH	66.44	63 P	41 50.70 -0.5			0.7s	493.15nm	6.4mb
	0.8s	120.83nm	5.9mb				pP	42 26.40 148km		BRS	72.71	177 iPc	42 30.10 1.1
		ipP	41 43.80 148km		HVU	66.56	54 P	41 51.70 -0.2			1.0s	25.00nm	4.9mb X
MTN	60.37	200 iPd	41 10.50 -0.8		WR2	66.57	195 iPc	41 50.70 -1.1				i	42 37.00 22kmX

08d 03h

MUD	72.90	338	iPc	42	42.50	-0.2	WTS	77.51	337	iPc	42	55.90	-0.1	1.2s	111.00nm	5.5mb					
	0.7s	130.00nm		42	29.60	5.8mb		0.9s	708.00nm	e	43	32.00	145km	CAN	80.53	180	iPd	43	13.60	1.2	
			i	42	44.20	52kmX	HOF	77.52	333	iPc	42	55.90	-0.2	VBV	80.54	329	iPc	43	12.60	0.1	
			e	45	02.50		DHR	77.52	295	iPc	42	57.00	0.5	VOY	80.57	330	iPc	43	12.00	-0.8	
WARB	74.28	201	iPd	42	39.00	0.8				eS	52	34.00		BHL	80.60	309	P	43	13.00	-0.1	
MSL	74.62	306	iPd	42	41.50	1.3	ZST	77.58	329	iPc	42	57.40	0.9	CDF	80.60	335	P	43	13.02	0.1	
			iPcP	42	48.00		BBTK	77.59	315	iPc+	42	58.00	1.1	CEY	80.63	330	iPc	43	12.80	-0.2	
			eP	43	34.50	223kmX	DRA	77.70	323	ePd	42	58.00	0.8	CCM	80.66	44	eP	43	13.59	0.3	
			eSP	47	55.50		VKA	77.80	330	iPc	42	58.10	0.4				eS	53	05.01		
			eS	52	03.00			1.8s	1907.00nm		43	25.50	106kmX				eScS	53	24.04		
			eSP	52	38.00					i	45	46.00					iS	54	04.32		
			ePS	53	03.00												e	54	21.15		
			eS	53	44.50		KHC	78.00	332	iP	42	59.30	0.5	LFK	80.69	312	iP	43	12.70	-0.8	
ANMO	74.84	55	eP	42	31.01	-10.7X		1.0s	392.00nm		43	58.00	-0.9	EZN	80.69	319	iP	43	13.90	0.6	
	0.9s	33.61nm		iS	52	06.44	BZS	78.02	325	iPc	42	58.00	-0.9	ADE	80.72	189	iPd	43	14.00	0.6	
			iScS	52	38.89		TIM	78.08	326	iPd	43	00.00	0.8		0.9s	40.34nm				5.2mb	
			iS	53	03.05		WET	78.21	332	iPc	43	00.40	0.4	SHBJ	80.74	307	Pd	43	14.26	0.4	
			iScS	53	42.12		GRF	78.27	334	iPc	43	00.30	8.0X	PLE	80.81	325	iPc	43	15.02	0.9	
ANMO	74.84	55	iPc	42	41.50	-0.2	BNS	78.34	337	Pc	43	00.30	-0.3	ECH	80.81	335	P	43	13.96	0.1	
	0.9s	33.61nm		iP	43	17.60	146km		1.6s	2130.00nm		43	01.50	0.6	OGA	80.81	332	iPc	43	14.90	0.8
ALO	74.84	55	iPd	42	41.80	0.1	HRT	78.34	318	iP	43	01.50	0.6	SLE	80.81	334	ePc	43	13.70	-0.2	
	1.0s	41.50nm		iP	43	17.50	144km	UZD	78.39	328	iPd	43	01.40	0.5	FEL	80.86	335	P	43	14.23	-0.1
			eP	43	17.50	144km	PVL	78.42	322	iPc	43	02.00	0.9	SRS	80.87	321	eP	43	14.86	0.5	
CLI	74.93	323	iPc	42	42.00	0.2	ISK	78.43	318	iP	43	01.10	-0.2	RYD	80.88	296	iPc	43	15.00	0.3	
KRA	75.00	329	iPc	42	41.20	-0.9	JMB	78.46	320	iPc	43	02.00	0.6				eS	53	11.00		
	1.0s	1302.00nm		i	42	46.60	17kmX	GBZT	78.47	318	iPc	42	59.80	-1.7	MJMA	80.89	29B	iPc	43	15.00	0.3
			i	42	48.60		SSR	78.59	325	iPc	43	00.00	-2.1				eS	53	20.00		
			e	52	17.00		YLV	78.68	318	iP	43	03.00	0.2	TRI	80.89	330	iPc	43	13.60	-0.7	
PTT	75.00	323	eP	42	41.50	-0.7	KMR	78.74	331	iP+	43	03.60	0.8	IVA	80.99	325	iPc	43	15.68	0.7	
PPE	75.05	322	iPd	42	43.00	0.6	IZI	78.81	317	iP	43	03.60	0.1	RIY	80.99	329	iPc	43	14.40	-0.4	
BRN	75.27	334	iPc	42	43.80	0.2	ENN	78.86	337	iPc	43	03.00	-0.4	HRI	81.03	309	ePc	43	16.60	1.2	
BMR	75.59	325	iPc	42	47.00	1.5		1.1s	1079.00nm		43	53.50	209kmX	ZLA	81.10	334	eP+	43	15.50	0.1	
SPC	75.61	328	iP	42	46.60	0.8	MEM	78.98	337	iPc	43	04.70	0.7	FVM	81.11	44	iPc	43	15.00	-0.6	
CFR	75.62	321	eP	42	45.00	-0.6	BEO	79.14	326	iP	43	05.00	0.0		0.7s	108.84nm				5.7mb	
KSP	75.62	331	iPc	42	45.20	-0.4	UCC	79.25	338	iP+	43	05.00	-0.5				pP	43	51.50	146km	
	0.9s	760.00nm		i	44	02.60	339kmX	DIM	79.26	321	iPd	43	07.00	1.2	KNT	81.14	322	eP	43	16.46	0.7
VR1	75.70	322	iPc	42	46.50	0.3	MEO	79.38	51	iPc	43	06.80	0.2	MOF	81.14	335	P	43	15.66	-0.1	
BRD	75.84	322	ePc	42	49.00	2.1	BHG	79.45	332	iPc	43	07.50	0.8	VITF	81.15	336	P	43	15.85	0.2	
COO	75.85	177	iPd	42	48.10	1.1	PGB	79.46	322	iPc	43	08.00	1.1	PRK	81.18	319	iPc	43	16.20	0.3	
	1.0s	166.00nm		i	42	50.50	5.7mb	SNF	79.53	338	iPc	43	07.89	0.9	PVY	81.19	325	iPc	43	16.48	0.4
BHD	76.12	303	iPd	42	50.50	1.8				e	46	07.50		SOH	81.22	321	eP	43	16.42	0.2	
			i	43	09.00		PLD	79.59	321	iPc	43	08.00	0.5	VAL	81.23	347	iP	43	16.20	0.3	
			iP	43	41.00	211kmX	FUR	79.59	333	iPc	43	07.90	0.5	HAU	81.23	336	iPc	43	16.30	0.2	
			iS	52	20.00			1.3s	1848.00nm		43	09.00	1.2		0.8s	199.40nm				5.9mb	
			iSP	52	45.00		KDZ	79.64	321	iPc	43	09.00	1.2	OSS	81.25	333	ePc	43	16.70	0.3	
			iSP	53	22.00		BWA	79.64	181	iPd	43	09.40	1.7	BSF	81.26	335	P	43	16.16	-0.2	
TLB	76.14	321	ePc	42	49.00	0.4	WLF	79.79	337	iPc	43	09.00	0.6	BAL	81.32	208	iPd	43	16.70	0.1	
CLL	76.30	333	iPc	42	48.70	-0.6	ETA	79.82	345	iPc	43	08.50	0.0		0.5s	47.00nm				5.5mb	
			eS	52	19.00			1.1s	1269.00nm		43	08.30	-0.3	CTI	81.32	332	Pc	43	14.90	-1.8	
MLR	76.34	323	iPc	42	49.00	-0.9	DOU	79.83	338	Pc	43	08.30	-0.3	OUR	81.34	321	eP	43	17.00	0.6	
ISR	76.36	322	ePc	42	51.00	1.1				e	43	20.30	40kmX	BBS	81.38	335	P	43	17.20	0.3	
BRG	76.37	333	iPc	42	49.00	-0.8	VTS	79.84	323	iPc	43	10.00	1.0	IZM	81.39	318	iP	43	17.30	0.2	
	1.6s	850.00nm		e	52	52.00	KBA	79.85	331	iPc	43	09.60	0.5	NKY	81.40	325	iPc	43	16.90	-0.2	
								1.0s	1136.00nm		43	09.30	0.2	MMR	81.42	309	ePc	43	19.10	1.7	
EKA	76.74	344	Pc	42	51.40	-0.4	SIO	79.87	49	ePc	43	09.30	0.2	SHMJ	81.43	308	Pd	43	17.58	0.2	
	0.7s	259.70nm					RZN	79.92	321	iPc	43	10.00	0.5	LLS	81.46	334	ePc	43	17.80	0.3	
CMS	76.76	183	iPd	42	53.20	1.2	PTJ	79.95	329	iPc	43	09.30	-0.2	BRY	81.50	326	iPc	43	17.34	-0.4	
	1.0s	137.00nm					ALN	79.96	320	eP	43	10.30	0.8	THE	81.54	322	eP	43	17.54	-0.2	
PSN	76.79	320	iPc	42	53.00	0.8	RDO	79.99	320	iPc	43	10.30	0.7	TTG	81.61	325	iPc	43	18.28	0.2	
PSZ	76.79	328	iPd	42	52.20	0.0	GW	79.99	335	P	43	09.64	0.1	VOL	81.65	333	ePc	43	19.10	0.6	
WIT	76.81	338	eP	42	53.00	0.9	ZAG	80.01	329	iPc	43	09.80	0.2	LOMF	81.69	335	P	43	18.87	0.3	
			e	43	20.00	105kmX	TUL	80.02	48	ePd+	43	09.70	-0.2	JARJ	81.70	308	Pd	43	18.96	0.1	
CMP	76.90	323	iPc	42	52.00	-0.8		0.6s	22.00nm		43	10.00	-0.9	PAIG	81.81	321	eP	43	19.38	0.2	
TNR	76.91	324	ePd	42	54.00	1.1	COOL	80.22	204	eP	43	11.40	0.4	QASM	81.81	299	iPc	43	20.00	0.5	
MTUR	76.92	323	ePc	42	54.00	1.0	WATA	80.22	332	iPc	43	11.40	0.4	KLB	81.90	207	iPd	43	19.60	0.0	
PRU	76.94	332	Pc	42	53.20	0.3	WTTA	80.26	332	iPc	43	11.80	0.6		0.5s	33.00nm				5.3mb	
			e	43	41.00	198kmX		0.9s	1078.00nm		45	21.70	619kmX	YER	81.90	316	iP	43	21.00	1.2	
			PP	45	46.70					iP	46	11.30		HCV	81.90	325	iPc	43	19.22	-0.4	
			eS	52	50.00					i	46	55.20		BDV	81.91	325	iPc	43	19.58	-0.1	
BUC	77.13	322	iPc	42	50.50	-3.5X								MDSJ	81.98	307	Pd	43	20.69	0.3	
			ec	04	09.00		MRWA	80.28	209	iPd	43	11.20	0.0	ULC	82.01	325	iPc	43	20.16	-0.1	
COZ	77.15	323	iPc	42	55.50	1.1		0.5s	16.00nm		43	11.74	0.6	SALJ	82.01	308	Pd	43	20.56	0.1	
BUC1	77.21	322	iPc	42	54.00	-0.5	STR	80.30	335	P	43	11.74	0.6	SAL	82.08	332	Pc	43	20.50	0.0	
DEV	77.28	325	iPd	42	56.00	1.1	LJU	80.33	330	iPc	43	11.10	-0.3	HVAR	82.09	327	iPc	43	20.10	-0.5	
MOX	77.31	334	iPc	42	54.90	-0.1	ECP	80.34	345	iPc	43	11.70	0.4	FNA	82.11	323	eP	43	20.94	0.1	
	1.4s	935.00nm		eS	52	35.00	KHL														

Z	20s	1.13um	5.2Msz	1.4s	958.20nm	6.4mb	iSP	44	37.50		
QTRJ	82.37	307 Pd	43 22.58 0.2	MBH	84.16	307 ePc	43 32.70 1.2	(PP)	47 12.50		
MKRJ	82.38	308 Pd	43 22.56 0.1	PZZ	84.17	334 Pc	43 30.45 -0.9	(pPP)	47 30.50		
LDF	82.41	340 eP	43 22.50 0.3	MNS	84.17	329 Pc	43 31.00 -0.3	OGE	87.56 338 P	43 48.89 1.0	
VAI	82.42	333 Pc	43 22.40 0.2	LSF	84.17	338 iPc	43 31.80 0.6	RUZ	87.58 160 eP	43 48.50 0.8	
MMK	82.51	334 ePc	43 23.60 0.5	TVO	84.20	123 iP	43 32.80 1.2	JAU	87.66 338 P	43 50.04 1.5	
OLY	82.55	46 P	43 22.80 -0.3		1.1s	175.00nm	5.8mb	ESCF	87.67 338 P	43 49.26 0.8	
BFD	82.59	185 iPd	43 22.40 -0.6	SSB	84.23	336 P	43 32.28 0.7	ELYF	87.70 339 P	43 49.43 0.8	
LOR	82.61	337 iPc	43 23.40 0.1	PYM	84.23	337 P	43 32.50 0.9	ATE	87.70 338 P	43 49.47 0.9	
	0.8s	503.70nm	6.4mb	AZI	84.24	328 Pc	43 32.20 0.7	ISSF	87.78 338 P	43 49.65 0.6	
LST	82.61	44 P	43 23.70 0.3	COLF	84.26	336 P	43 32.68 1.0	LHE	87.84 338 P	43 49.80 0.4	
		pP	44 00.40 146km	MMF	84.27	339 eP	43 32.20 0.5	MEU	87.89 325 P	43 49.70 0.0	
DIX	82.65	334 ePc	43 24.40 0.6	ENR	84.32	333 Pc	43 30.65 -1.4	PZI	87.96 325 P	43 49.93 0.0	
LISJ	82.71	308 Pd	43 24.27 0.3	STV	84.33	333 Pc	43 30.60 -1.5		0.8s	149.40nm	6.1mb
GHZJ	82.74	307 Pd	43 24.58 0.3	EMM	84.42	25 P	43 32.60 0.2	CEH	87.99 37 P	43 51.00 0.9	
UOSJ	82.75	299 iPc	43 28.50 4.1X	IMI	84.45	333 Pc	43 32.77 0.1	PRM	88.07 40 P	43 51.00 0.5	
MUN	82.75	208 eP	43 23.70 -0.2	MCWV	84.48	36 P	43 33.90 1.1	TAU	88.12 181 iPd	43 52.80 2.7X	
GRR	82.78	340 eP	43 24.70 0.6	VLS	84.61	322 iPc	43 33.30 -0.2	JSC	88.41 40 P	43 52.30 0.2	
GRC	82.80	337 P	43 24.88 0.7	SBF	84.64	333 iPc	43 33.80 0.2			pP	44 28.80 143km
EMS	82.81	334 ePc	43 25.10 0.6	LBL	84.64	336 P	43 34.80 1.1	TBI	88.42 126 iP	43 53.70 1.6	
LBF	82.83	337 iPc	43 24.60 0.1	PWLA	84.65	44 P	43 33.50 -0.3		1.0s	255.00nm	6.2mb
TOO	82.84	183 ePd	43 26.40 2.1			pP	44 10.20 145km	EGRA	88.43 338 iPc	43 51.61 -0.4	
	1.1s	145.00nm	5.7mb	RMP	84.66	329 Pc	43 33.70 0.0	LHS	88.44 39 P	43 52.30 0.1	
PMO	82.86	120 iP	43 24.80 0.0	MAO	84.69	330 Pc	43 33.60 -0.2			pP	44 29.70 147km
	1.1s	160.00nm	5.8mb	NPS	84.69	317 iPc	43 33.30 -0.7	ECRI	88.60 339 iPd	43 52.99 0.0	
ORX	82.88	334 P	43 24.37 -0.4	RDP	84.70	329 Pc	43 34.10 0.1	MNG	89.03 160 P	43 54.60 0.0	
SSF	82.89	337 iPc	43 25.00 0.3	VLI	84.76	319 iPd	43 32.30 -2.0	PGZ	89.22 160 P	43 55.80 0.4	
TPT	83.01	120 iP	43 26.10 0.5	SGO	84.77	326 P	43 33.75 -0.4		0.7s	102.00nm	6.0mb
	1.1s	175.00nm	5.8mb		1.3s	458.70nm	6.2mb	EBR	89.49 337 eP	43 57.50 0.4	
ARV	83.10	329 P	43 25.20 -0.7	RKG	84.89	206 eP	43 35.00 0.3	WEL	89.49 161 eP	43 56.80 0.1	
MKT	83.11	308 ePc	43 27.70 1.6	MGR	85.03	326 Pc	43 34.80 -0.8	ERQO	89.51 337 iPc	43 56.81 -0.4	
SFI	83.12	330 Pc	43 27.30 1.5	RJF	85.05	338 iPc	43 36.70 1.1	THZ	89.54 162 P	43 57.30 0.3	
AGG	83.14	321 eP	43 24.94 -1.2		Z	20s	1.38um	SGS	89.66 40 P	43 58.70 0.7	
LPF	83.16	340 eP	43 26.70 0.7	CSI	85.05	325 P	43 35.80 0.1			pP	44 35.70 145km
SMF	83.18	337 iPc	43 26.70 0.5	MMN	85.07	326 P	43 35.50 -0.2	ASW	89.66 305 iPc	43 58.00 -0.1	
AVF	83.18	337 iPc	43 26.80 0.6	ROI	85.11	325 P	43 36.40 0.4			eS	54 12.00
VAH	83.20	120 iP	43 26.40 -0.2	HRV	85.12	29 ePc	43 36.12 0.2	STS	89.68 344 iPd	43 56.94 -1.0	
	1.1s	105.00nm	5.6mb			iS	53 52.68	ESEL	89.77 335 iPc	43 58.98 0.6	
PGD	83.20	330 Pc	43 28.00 1.5			iS	54 53.38	ERUA	89.87 343 iPc	43 57.65 -1.2	
MME	83.27	331 P	43 28.30 1.3	FRF	85.16	334 iPc	43 36.40 0.3	ETOR	90.17 338 iPd	44 00.22 -0.2	
LSD	83.29	334 Pc	43 27.96 0.9	CAF	85.25	337 iPc	43 37.80 1.1	KHZ	90.30 162 P	44 00.00 -0.4	
NWAO	83.30	207 iPd	43 27.10 0.4	PCF	85.31	332 iPc	43 37.30 0.3		0.7s	44.00nm	5.6mb
	0.5s	29.00nm	5.4mb	CDR	85.33	334 iPc	43 37.30 0.3	LTZ	90.38 163 P	44 01.10 0.2	
RUV	83.31	119 iP	43 27.70 0.6			e	43 41.40 13kmX	EZAM	90.42 344 iPd	44 00.59 -0.8	
	1.1s	165.00nm	5.8mb	LRG	85.34	334 iPc	43 37.70 0.7	EWZ	90.81 164 P	44 03.50 0.8	
CRE	83.34	330 Pc	43 28.00 0.8		1.0s	531.25nm	6.3mb	GUD	90.86 340 iPc	44 02.61 -1.0	
LPL	83.37	334 iPc	43 28.40 1.0		Z	20s	0.85um	ECHE	91.04 337 iPc	44 04.35 0.0	
BNH	83.37	28 iPc	43 27.30 0.1	KMSA	85.37	294 eP	43 38.50 0.9	TOL	91.56 340 eP	44 06.75 0.1	
LPG	83.38	334 iPc	43 28.60 1.0	TBR	85.39	31 ePc	43 37.20 -0.1		1.5s	444.44nm	6.4mb
	1.0s	687.50nm	6.4mb			iSP	44 26.70			eS	54 50.61
ATH	83.38	320 iPc	43 26.80 -0.5			i(PPP)	48 35.00	BWZ	91.61 165 P	44 08.20 1.8	
		e	53 32.80	LMR	85.41	334 iPc	43 38.00 0.6	MTE	91.86 342 iPc	44 07.00 -1.1	
BDI	83.42	331 Pc	43 27.40 -0.1	LVNJ	85.48	32 P	43 37.30 -0.5	EPLA	91.86 341 iPc	44 07.25 -0.9	
AFIF	83.48	298 iPc	43 31.00 2.8X	CZI	85.59	325 P	43 37.10 -1.2	MHZ	92.02 166 eP	44 10.40 2.0	
MIM	83.49	26 P	43 27.80 0.1	LFF	85.60	338 iPc	43 39.00 0.7	SB CZ	92.06 166 eP	44 10.50 2.0	
RSP	83.54	334 Pc	43 27.57 -0.6	PNJ	85.62	31 iP	43 38.80 0.4	CMCQ	92.11 166 P	44 10.80 2.0	
BGF	83.54	337 iPc	43 28.50 0.5	GMTN	85.63	31 iP	43 38.50 0.0	COI	92.23 343 eP	44 09.00 -0.7	
ASS	83.58	329 P	43 28.70 0.4	LPO	85.71	338 iPc	43 39.50 0.6	EVIA	92.34 338 iPc	44 09.94 -0.5	
BST	83.58	342 P	43 28.36 0.2	KOT	85.72	309 ePc	43 39.00 -0.1	EALH	92.78 337 iPd	44 12.20 -0.1	
IGT	83.59	323 eP	43 28.30 -0.1	GRI	85.82	325 P	43 39.84 0.3	EBAN	93.12 339 iPd	44 13.76 -0.1	
KEK	83.66	323 iPc	43 28.50 -0.2		0.8s	491.20nm	6.4mb	EHUE	93.14 338 iPc	44 13.61 -0.5	
BAI	83.68	326 Pc	43 28.50 -0.2	GBTN	85.92	41 P	43 39.80 -0.3	MTH	93.65 343 eP	44 15.50 -0.8	
PCP	83.68	333 Pc	43 28.62 -0.2	HLW	86.04	310 eP+	43 40.50 -0.2	EHOR	93.80 340 iPc	44 15.68 -1.3	
AFR	83.70	123 iP	43 29.80 0.8			e	44 18.00 148km	LIS	93.82 343 iPc	44 16.20 -0.8	
	1.1s	100.00nm	5.6mb			e	44 34.00	ENIJ	93.83 337 iPd	44 16.25 -0.9	
BRT	83.75	325 Pc	43 29.20 0.1			eS	53 51.50	ECOG	93.90 338 iPd	44 16.43 -1.2	
RMN	83.75	308 ePc	43 30.50 1.1	NAV	86.06	38 P	43 40.90 0.1	AFC	93.92 338 iPc	44 16.50 -1.3	
BNI	83.80	334 Pc	43 30.50 1.0	TKL	86.12	41 P	43 41.20 0.1	EGUA	94.32 338 iPd	44 18.47 -1.0	
BHB	83.81	334 Pc	43 28.40 -1.0	BLA	86.31	37 P	43 42.30 0.3	EVAL	94.38 341 iPc	44 14.92 -4.8X	
PPT	83.84	123 iP	43 30.70 0.9		1.0s	50.00nm	5.3mb	EPRU	94.61 340 eP	44 20.32 -0.5	
	1.1s	165.00nm	5.8mb	CVL	86.48	36 P	43 42.70 0.0	EJIF	95.16 340 iPc	44 22.69 -0.6	
PLDF	83.86	337 P	43 30.56 0.8	SOI	86.60	325 Pc	43 43.00 -0.3	AVE	98.64 340 iP	44 39.00 0.0	
CKI	83.87	333 Pc	43 29.60 -0.1	ATN	86.77	325 P	43 43.00 -1.2	TIO	100.87 339 iPd	44 48.50 -0.6	
RRL	83.89	334 Pc	43 30.90 0.8	MOZ	86.86	160 eP	43 43.70 -0.5	MTD	120.97 278 iPc	49 49.50 -2.8	
PPN	83.89	122 iP	43 30.90 0.9	USI	87.19	327 P	43 46.10 0.0			i	51 18.70
	1.1s	190.00nm	5.8mb	MNO	87.27	326 P	43 46.60 -0.2	LSZ	122.28 282 iPc	49 56.00 1.1	
LCI	83.91	325 Pc	43 29.70 -0.2	MLS	87.34	337 P	43 47.22 0.4			i	51 33.00
PAE	83.91	123 iP	43 31.00 0.9	ETER	87.45	336 iPd	43 48.95 1.6	KRI	122.37 279 iPc	49 56.30 1.3	
	1.1s	100.00nm	5.6mb	EPF	87.48	338 eP	43 47.40 -0.2			i	51 32.70
MAF	83.92	337 iPc	43 31.10 1.2		1.0s	218.75nm	6.1mb	TIC	123.06 329 PKPc	49 55.54 -0.8	
AGO	83.92	337 P	43 31.03 1.1	BTH	87.54	338 iPd	43 47.50 -0.3		0.8s	39.00nm	
AOU	83.93	329 Pc	43 31.00 0.9			PcP	43 49.00	KIC	123.22 328 PKPc	49 56.02 -0.6	
TCF	83.96	338 iPc	43 30.80 0.7			i	44 54.70		0.8s	38.00nm	
FIN	84.08	333 Pc	43 30.19 -0.6			i	44 05.00	LIC	123.45 329 PKPc	49 56.34 -0.7	
ROB	84.11	333 Pc	43 30.61 -0.4			i	44 12.70		0.7s	28.50nm	
DOI	84.12	334 Pc	43 29.70 -1.4			i	44 19.50	BUL	125.31 277 iPKPd	50 00.60 -0.1	
DUI	84.14	328 P	43 31.97 0.8			iP	44 23.50 141km			i	51 49.00

BFT	127.89 1.0s	271 ePKP 30.00nm	50 05.00	-0.6		BMA	154.75 e S.D. = 0.9 on 581 of 614 obs.	30 ePKP 51 01.50 51 13.00	9.8X	MAT	72.97 1.2s	326 eP 28.13nm	45 15.00	-1.6 4.7mb	
NNA	128.69 0.7s	64 iPKP 2.74nm	50 06.50	-0.7		OCT 08, 1991 05h 34m 37.41 ± 1.09s 25.421S ± 7.4km 179.650 E ± 5.0km DEPTH = 503.1 ± 14.4 km 4.8mb (24 obs.)				MAW	76.22 1.2s	201 eP 28.13nm	45 35.00	0.7	
SLR	129.16 0.9s	272 iPKPc 50.42nm	50 06.00	-1.9		SOUTH OF FIJI ISLANDS (171)				AIA	77.30 1.2s	157 eP 28.13nm	45 43.20	3.0X	
MAW	129.77 1.0s	210 ePKP 30.82nm	50 09.00	1.4		WCZ	11.43	202 P	37 15.00	4.0X	SYN	82.63 1.2s	46 eP 28.13nm	46 10.00	1.5
KSR	130.21 0.9s	273 e(PKP) 7.69nm	50 07.50	-2.5		KUZ	11.78	196 P	37 17.20	2.6	PAS	83.60 1.2s	48 eP 28.13nm	46 13.00	-0.2
PRY	130.47 0.9s	271 iPKPd 30.82nm	50 11.90	1.5		HBY	12.19	185 eP	37 21.10	2.2	NVL	83.69 1.2s	184 eP 28.13nm	46 13.00	-0.1
SEK	131.21 0.7s	270 iPKPc 30.82nm	50 11.30	-0.5		DZM	12.54	283 iPd	37 24.10	1.3	MWC	83.72 1.2s	48 eP 28.13nm	46 14.00	-0.1
VIR	131.60 1.2s	270 ePKP 125.00nm	50 07.50	-5.0X		URZ	12.98	189 eP	37 25.60	-1.5	BAR	83.76 1.2s	50 eP 28.13nm	46 15.00	0.9
FRS	133.67 1.0s	270 ePKP 60.00nm	50 08.50	-7.7X		NOZ	13.23	186 eP	37 30.20	0.5	PLM	84.02 1.2s	49 eP 28.13nm	46 16.00	0.5
WIN	134.87 1.0s	284 iPKPd 60.00nm	50 05.00	-13.9X		MOZ	13.68	196 eP	37 36.30	2.0	RVR	84.04 1.2s	48 eP 28.13nm	46 15.00	-0.4
ZOBO	137.36 1.0s	59 PKP 11.25nm	50 12.60	-11.7X		RUZ	14.14	194 eP	37 37.80	-1.3	SBB	84.15 1.2s	47 eP 28.13nm	46 16.00	0.0
LPB	137.58 1.0s	59 PKP 44.00nm	50 13.00	-11.5X		PGZ	15.42	190 eP	37 49.60	-2.3	CMB	84.52 0.9s	43 iPd 22.12nm	46 18.00	0.3
CNCB	137.87 1.0s	59 ePKP 60.00nm	50 15.00	-10.2X		MNG	15.55	192 eP	37 51.00	-2.3	CLC	84.96 0.9s	47 eP 22.12nm	46 20.00	0.0
CCH	139.41 1.0s	58 PKP 44.00nm	50 18.00	-9.6X		MTW	16.07	191 eP	37 58.90	0.5	GSC	85.19 0.9s	47 eP 22.12nm	46 21.00	-0.1
CER	139.95 1.0s	270 e(PKP) 60.00nm	50 20.00	-7.9X		CAW	16.10	193 eP	37 58.20	-0.6	SLKM	89.08 0.9s	14 P 21.00nm	46 37.80	-1.1
TUH	140.02 1.0s	270 ePKP 60.00nm	50 22.50	-5.4X		WDW	16.27	193 eP	38 00.70	0.3	GMW	89.17 0.9s	35 P 21.00nm	46 40.20	0.7
SIV	141.18 1.0s	50 PKP 44.00nm	50 23.60	-6.9X		MRW	16.30	193 eP	38 00.10	-0.5	RMW	89.62 0.9s	35 P 21.00nm	46 42.20	0.5
SOB1	142.76 1.0s	16 ePKP 95.00nm	50 28.50	-4.8X		THZ	17.23	197 eP	38 11.00	1.1	CHTO	89.91 1.0s	291 eP 4.00nm	46 44.20	0.7
PDCR	146.33 1.0s	14 ePKP 95.00nm	50 39.20	-0.1		KHZ	17.69	195 eP	38 13.60	-0.6	MSU	90.06 0.9s	47 P 21.00nm	46 44.80	0.7
LCCH	146.76 1.0s	83 ePKP 95.00nm	50 40.00	0.5		LTZ	18.35	197 eP	38 20.30	-0.4	LNV	90.38 0.9s	128 eP 21.00nm	46 47.00	1.5
ROCH	146.87 1.0s	82 ePKPc 95.00nm	50 40.50	0.5		WVZ	19.07	200 eP	38 28.30	0.7	PEL	91.32 1.0s	128 eP 21.00nm	46 51.20	1.2
BAD	146.88 1.0s	31 iPKPd 95.00nm	50 41.50	1.2		MQZ	19.12	196 P	38 28.70	0.7	HVU	91.45 1.0s	44 P 21.00nm	46 50.50	0.2
LNV	147.13 1.0s	84 ePKP 95.00nm	50 40.00	0.0		EWZ	19.43	200 eP	38 31.00	0.0	DAU	91.68 1.0s	46 P 21.00nm	46 52.00	0.4
PEL	147.19 1.0s	82 ePKPd 95.00nm	50 39.50	-0.8		BWZ	20.65	200 eP	38 40.90	-1.6	PNT	91.92 1.0s	35 eP 21.00nm	46 53.00	0.9
TACH	147.30 1.0s	83 ePKP 95.00nm	50 41.20	0.8		MMCZ	21.31	201 P	38 47.50	-1.3	ALQ	92.14 1.0s	52 eP 21.00nm	46 54.00	0.3
SAN	147.38 1.0s	82 ePKP 95.00nm	50 41.00	0.5		TLC	21.50	201 eP	38 49.60	-0.9					
NVL	147.41 1.0s	205 iPKP 95.00nm	50 42.00	2.7X		BRS	24.14	259 iPd	39 16.40	1.9	PTI	92.30 0.9s	43 P 21.00nm	46 55.20	1.0
		ePcP	51 00.00			COO	25.01	252 iPc	39 26.30	3.9X	FBA	93.50 0.9s	13 P 21.00nm	46 57.00	-2.0
		epP	51 18.50			CAN	28.13	242 iPc	39 51.40	1.6	BGMT	93.78 0.9s	41 ePd 21.00nm	47 01.40	0.3
		e	51 25.00			BWA	28.43	244 iPc	39 52.00	-0.3	BW06	94.01 1.0s	44 P 21.00nm	47 01.40	-0.8
		e	51 30.50			AFR	29.46	81 iP	40 00.80	-0.6	NB2	143.53 0.8s	351 PKP 18.00nm	53 12.00	-3.1X
		e	51 36.00			PAE	29.59	81 iP	40 02.00	-0.5	HFS	143.97 0.7s	348 ePKP 46.60nm	53 13.00	-2.8X
		e	52 04.00			PPT	29.63	81 iP	40 02.40	-0.5	HRI	147.70 0.7s	293 ePKP 46.60nm	53 27.00	4.1X
		e	52 15.00			PPN	29.77	81 iP	40 03.60	-0.5	JVI	148.11 0.7s	290 ePKP 46.60nm	53 28.00	4.4X
		e	52 33.00			TVO	29.84	81 iP	40 04.10	-0.7	RMN	148.77 0.9s	287 ePKP 16.00nm	53 29.40	4.7X
		e	52 38.00			CTAO	31.20	273 iPd	40 17.00	0.7	MLR	150.89 0.8s	320 ePKP 30.00nm	53 33.00	5.5X
		e	52 54.00				0.5s	114.29nm			KSP	151.58 0.8s	338 iPKP 30.00nm	53 34.80	6.7X
		e	53 05.00				e		40 34.00		CLL	152.20 1.1s	342 iPKPd 32.00nm	53 36.20	7.3X
		e	53 55.00				e(S)		44 48.00		BRG	152.31 0.9s	340 iPKP 16.00nm	53 36.20	7.1X
		e	54 10.00			TOO	31.38	239 eP	40 19.00	1.3					
		e	55 23.00			OLP	31.79	260 eP	40 22.00	0.7	KIC	160.59 S.D. = 1.1 on 73 of 87 obs.	167 PKP 60.212 N 151.118 W	53 40.82	0.4X
		e	55 32.00			TPT	32.34	78 iP	40 25.60	-0.3	&	OCT 08, 1991 06h 31m 14.84s			
		e	55 42.00			RUV	32.47	78 iP	40 26.70	-0.3		DEPTH = 60.1km			
		e	55 52.00			STK	33.89	250 iPc	40 42.00	3.2X		KENAI PENINSULA, ALASKA		(14)	
		e	55 55.00				1.2s	5.90nm				<AEIC>. ML 2.9 (AEIC).			
		e	55 58.00			LAT	36.34	295 eP	40 58.50	-0.9	NNL	0.19	208 iPd	31 25.12	0.7
		e	55 59.00			OIS	37.08	269 iPd	41 05.20	-0.3	BRLK	0.46	165 iPd	31 26.22	-0.4
		e	55 59.00			ASPA	41.50	262 iPc	41 41.80	0.4	NKA	0.54	354 ePd	31 28.68	1.4
		e	55 59.00				0.7s	40.00nm			SLKM	0.54	56 iPd	31 26.98	-0.4
		e	55 59.00				e		40 34.00						
		e	55 59.00			WR2	41.99	268 iPd	41 44.60	-0.6	HOM	0.62	206 eP	31 27.85	-0.3
		e	55 59.00				0.6s	39.80nm			CNPM	0.69	185 iPd	31 28.66	-0.5
		e	55 59.00			FORR	45.46	251 eP	42 10.50	-1.8	RDT	0.74	300 iPc	31 29.09	-0.6
		e	55 59.00			WARB	47.45	257 eP	42 26.40	-1.2					
		e	55 59.00				0.4s	8.00nm			XLV	0.82	202 ePd	31 29.77	-0.9
		e	55 59.00				e		47 25.50		REF	0.84	290 iPc	31 30.35	-0.7
		e	55 59.00						42 10.50		SEW	0.84	97 iPc	31 30.05	-0.9
		e	55 59.00						42 26.40						
		e	55 59.00						42 26.40		RED	0.85	285 iPc	31 30.40	-0.7
		e	55 59.00						42 26.40						
		e	55 59.00						42 26.40		RSO	0.85	288 iPc	31 30.57	-0.7
		e	55 59.00						42 26.40						
		e	55 59.00						42 26.40		RS1	0.85	288 iPc	31 30.59	-0.7
		e	55 59.00						42 26.40						
		e	55 59.00						42 26.40						
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		e	55 59.00			</									

RS2	0.85	288	iPc	31	42.76	-0.7
RDN	0.87	291	iPc	31	30.60	-0.9
NCT	0.97	292	eP	31	31.89	-0.8
INE	0.98	262	iPc	31	32.10	-0.9
			S	31	45.65	
INW	1.02	263	ePc	31	32.59	-0.8
			eS	31	46.53	
CKL	1.16	329	iPc	31	34.90	-0.3
CRP	1.17	335	ePc	31	35.41	-0.1
CGLM	1.18	339	iPd	31	35.35	-0.2
OPT	1.20	243	eP	31	35.24	-0.6
BGL	1.23	330	iPc	31	36.00	-0.2
SUA	1.27	8	iPd	31	36.35	-0.5
			eS	31	53.65	
PMS	1.29	36	iPd	31	36.66	-0.3
NCG	1.30	337	iPd	31	37.04	-0.2
			S	31	54.18	
AUE	1.43	234	eP	31	38.12	-0.7
AUL	1.44	236	eP	31	38.59	-0.4
AUP	1.44	235	eP	31	38.84	-0.3
AUW	1.46	236	eP	31	38.81	-0.5
AUI	1.46	234	eP	31	39.07	-0.3
			eS	31	57.81	
LTi	1.64	95	ePc	31	40.02	-1.8
KNIM	1.69	84	iPc	31	40.42	-2.1
			iS	32	00.54	
PLRM	1.69	34	iPd	31	41.47	-1.0
SYI	1.73	203	iPd	31	42.41	-0.7
KNK	1.78	46	iPd	31	42.75	-1.0
			eS	32	03.76	
SKT	1.79	354	eP	31	42.47	-1.4
			eS	32	06.45	
CDD	1.82	226	ePd	31	43.55	-0.8
GHO	1.90	33	ePd	31	44.46	-1.0
MCNL	1.93	239	eP	31	44.34	-1.5
GLI	2.10	70	ePc	31	45.77	-2.4
SML	2.10	39	ePd	31	47.21	-1.0
CUT	2.24	10	eP	31	49.24	-0.9
FID	2.36	75	ePc	31	48.81	-3.1
SVW	2.39	294	eP	31	50.20	-2.2
VZW	2.40	67	eP	31	50.37	-2.2
SCM	2.46	47	eP	31	52.08	-1.3
VLZ	2.53	67	eP	31	52.19	-2.0
KLU	2.85	61	ePc	31	56.91	-2.0
SGAM	2.95	82	eP	31	59.67	-0.6
TOA	3.06	49	ePd	32	00.78	-1.1
TRF	3.27	7	eP	32	04.90	-0.1
TZL	3.32	54	eP	32	04.22	-1.2
KTH	3.35	2	eP	32	05.96	-0.1
RND	3.38	18	eP	32	05.81	-0.6
HMT	3.42	85	eP	32	06.16	-0.7
SDG	3.55	47	eP	32	07.66	-1.0
TTA	3.59	321	eP	32	07.61	-1.8
MCK	3.68	15	eP	32	10.50	0.0
GLB	3.78	68	eP	32	09.16	-2.9
PAX	3.87	42	ePd	32	11.77	-1.4
BWN	4.05	10	eP	32	14.60	-1.1
WAX	4.12	83	eP	32	13.12	-3.6
TGL	4.14	79	eP	32	15.36	-1.7
BALM	4.40	75	eP	32	18.81	-1.9
WRH	4.50	17	ePd	32	20.37	-1.6
HDA	4.64	23	eP	32	22.35	-1.5
YAH	4.67	84	eP	32	22.68	-1.9
MDM	4.95	14	ePd	32	26.38	-2.0
FBA	4.95	17	ePd	32	26.31	-2.0

70 obs. associated

? OCT 08, 1991 07h 40m 13.20± 4.16s						
7.539 S ±38.1km 129.691 E ±31.4km						
DEPTH = 166.6 ± 21.9 km						
BANDA SEA (280)						
SLKI	1.65	106	iPc	40	45.80	-0.1
			iS	41	10.40	
MTN	5.46	165	eP	41	35.00	1.2
	0.3s	93.00nm			5.5mb X	
			e	42	31.00	
			eS	42	37.00	
KNA	8.21	186	iPd	42	09.60	-0.7
			eS	43	39.00	
WR2	13.14	160	iPd	43	13.70	-1.0
	0.2s	9.70nm			4.9mb X	
			eS	45	37.30	
QIS	16.11	144	eP	43	52.00	0.2
			eS	46	46.00	
WARB	18.77	189	eP	44	22.70	0.5

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

? OCT 08, 1991 07h 55m 19.88± 8.06s
 14.637 N ±32.0km 60.280 W ±64.2km
 DEPTH = 33.0km (normol)

WINDWARD ISLANDS (95)
 ML 2.8 (FDF). Felt (11) on the
 eastern coast of Martinique.

MVM	0.60	262	iPd	55	32.43	0.5
BIM	0.78	261	iPd	55	34.50	0.1
FDF	0.85	277	iPd	55	34.26	-1.2
			S	55	41.03	
BBL	1.45	307	eP	55	45.30	1.2
			S	55	57.00	
MGG	1.62	322	eP	55	46.00	-0.5
			S	56	01.00	
DEG	1.83	336	eP	55	49.50	-0.1
			S	56	07.00	
PAG	1.93	316	eP	55	51.00	-0.1
			S	56	09.00	

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

* OCT 08, 1991 08h 00m 53.15± 1.24s
 51.028 N ±20.6km 176.570 W ±13.6km
 DEPTH = 33.0km (normol)

3.8mb (1 obs.)
 ANDREANOF ISLANDS, ALEUTIAN IS. (7)
 ML 4.5 (PMR).

ADK	0.86	355	iPc	01	09.60	0.8
KDC	15.50	55	eP	04	32.50	1.9
TTA	16.26	35	eP	04	44.00	3.6X
IMA	19.05	29	e(P)	05	13.90	-1.1
	1.0s	5.70nm			3.8mb	
TOA	19.87	44	e(P)	05	23.40	-0.7
FBA	20.38	36	eP	05	28.20	-1.1
OBN	70.69	341	eP	11	55.00	-12.1X
	1.3s	36.00nm				
Z	16s	0.80um			5.1mszX	
			i	12	01.00	
			i	12	52.00	
GUN	73.29	294	PKP	12	23.98	0.6
KKN	73.72	294	PKP	12	26.42	0.6
PKI	73.81	294	PKP	12	26.16	-0.3
GKN	73.93	295	PKP	12	27.24	0.3
DMN	73.96	294	PKP	12	26.16	-1.1

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

OCT 08, 1991 08h 51m 46.98± 0.43s
 45.477 N ± 4.5km 21.151 E ± 4.5km
 DEPTH = 25.0 ± 5.0 km

ROMANIA (358)
 MG 3.7 (BEO).

TIM	0.26	11	iPc	51	54.00	0.5
SSR	0.74	145	iPc	52	00.00	-1.2
BE0	0.82	217	ePg	52	03.00	0.5
			iSg	52	16.00	
GZR	1.15	94	iPc	52	07.50	-0.1
DEV	1.29	71	iPc	52	10.00	0.5
SRE	1.67	119	ePd	52	08.00	-6.9X
UZD	2.11	303	ePn	52	22.00	0.7
TNR	2.20	84	ePd	52	27.00	4.4X
COZ	2.25	93	eP	52	25.50	2.0
DRA	2.34	109	ePd	52	34.00	9.4X
CEI	2.39	22	eP	53	03.00	37.8X
BUD	2.49	325	ePn	52	27.00	0.3
BMR	2.73	36	iPd	52	39.00	8.9X
CMP	2.75	93	iPc	52	40.00	9.6X
MTUR	2.77	94	eP	52	39.00	8.2X
VTS	3.24	152	iPc	52	38.00	0.4
MLR	3.37	88	eP	52	40.50	1.1
PGB	3.65	142	iP	52	44.00	0.8
PTJ	3.66	278	ePn	52	43.40	-0.1
			iSn	53	28.00	
PVL	3.76	126	iPc	52	44.00	-0.7
SPC	3.76	351	eP	52	49.70	4.7X
			i	53	01.70	
			e	53	57.00	
ISR	3.82	93	eP	52	31.50	-14.1X
KKB	3.87	158	iPc	52	46.00	-0.3
ZST	3.89	316	i(Pn)	52	46.40	-0.1
			i	52	52.40	
			e	52	59.00	
			e	53	28.50	
			e	11	14.70	

VR1	3.93	82	eP	20	13.10	
VBV	4.15	272	e(Pn)	53	10.00	19.8X
			eSn	54	01.00	
PLD	4.24	141	eP	52	51.00	-0.5
MMB	4.31	153	iPd	52	54.00	1.4
VKA	4.33	312	eP	52	49.00	-3.8X
			i	53	04.90	
			i	53	50.70	
RZN	4.59	144	iPc	52	56.00	-0.7
KDZ	4.92	139	iP	53	02.00	0.8
KSP	6.28	331	eP	53	19.00	-1.3
			e	53	54.00	
PRU	6.34	318	ePg	53	41.00	19.7X
			e	54	19.00	
			Sg	54	31.50	

S.D. = 0.9 on 21 of 33 obs.

& OCT 08, 1991 09h 37m 40.80s
 60.066 N 147.829 W
 DEPTH = 18.6km
 SOUTHERN ALASKA (2)
 <AEIC>. ML 2.9 (AEIC), 2.6
 (PMR).

LTi	0.03	206	iPd	37	43.92	-0.3
			iS	37	46.96	
KNIM	0.29	9	iPc	37	46.57	-0.7
			eS	37	51.16	
SEW	0.81	273	iPc	37	54.97	-1.1
			eS	38	06.51	
GLI	0.89	24	iPd	37	55.88	-1.6
			iS	38	08.30	
FID	0.96	44	iPd	37	56.47	-2.1
			eS	38	08.78	
MID	0.99	130	eP	38	00.00	0.9
CVA	1.14	64	iPd	37	59.62	-2.0
			S	38	14.36	
VZW	1.18	32	iPd	38	00.43	-1.9
			eS	38	15.93	
SLKM	1.27	291	ePc	38	02.00	-1.6
			S	38	19.49	
VLZ	1.30	34	iPd	38	02.37	-1.6
			eS	38	19.36	
KNK	1.39	347	ePd	38	03.70	-1.5
			eS	38	22.06	
PMS	1.46	325	ePc	38	04.92	-1.4
			eS	38	23.49	
RAGM	1.61	77	ePd	38	06.02	-2.4
			eS	38	26.82	
PLRM	1.66	338	ePc	38	07.66	-1.4
			eS	38	28.33	
PMR	1.66	338	eP	38	08.30	-0.8
KLU	1.71	32	ePd	38	08.59	-1.4
KAIM	1.72	93	eP	38	07.97	-2.1
NNL	1.74	271	eP	38	09.44	-0.9
SML	1.77	352	eP	38	09.94	-0.8
			eS	38	33.44	
SCM	1.79	8	eP	38	10.49	-0.6
GHO	1.79	343	eP	38	09.80	-1.4
			S	38	33.14	
HMT	1.80	80	ePd	38	08.81	-2.4
CNPM	1.81	254	eP	38	10.57	-0.7
NKA	1.82	293	eP	38	12.61	1.1
PWA	1.88	299	eP	38	11.20	-1.1
HOM	1.97	260	eP	38	12.89	-0.7
SUA	2.00	316	eP	38	12.80	-1.4
TOA	2.20	21	eP	38	17.80	0.8
TZL	2.30	29	eP	38	17.00	-1.4
RDT	2.33	285	ePc	38	16.96	-2.0
CGLM	2.40	303	eP	38	18.14	-1.8
GLB	2.41	53	iPd	38	18.00	-2.0
			eS	38	46.77	
CROM	2.43	71	ePd	38	18.02	-2.3
REF	2.46	282	ePc	38	18.44	-2.5
R50	2.49	281	ePc	38	19.39	-1.8
RS1	2.49	281	ePc	38	19.57	-1.7
RS2	2.49	281	eP	38	19.46	-1.8
RED	2.49	280	eP	38	19.17	-2.0
CKL	2.49	299	eP	38	19.48	-1.8
RDN	2.50	282	ePc	38	18.78	-2.5
WAX	2.51	79	ePd	38	18.39	-3.1
NCG	2.51	304	eP	38	19.80	-1.7
BGL	2.55	300	eP	38	20.46	-1.5
TGL	2.58	72	ePd	38	20.00	-2.4
INE	2.62	272	eP	38	20.81	-2.4
CUT	2.63	334	ePc	38	21.50	-1.5

08d 09h

SKT 2.63 318 ePc 38 21.21 -2.0
 SDG 2.70 23 eP 38 23.85 -0.3
 OPT 2.76 264 eP 38 23.73 -1.2
 BALM 2.88 68 iPd 38 24.22 -2.5
 S 38 58.12
 YAH 3.05 82 eP 38 26.89 -2.4
 CDD 3.18 251 ePc 38 29.83 -1.0
 CTGM 3.34 72 eP 38 30.71 -2.5
 KDC 3.35 228 eP 38 37.40 4.1
 FBA 4.85 0 eP 38 53.20 -1.4
 IMA 6.58 339 e(P) 39 19.30 0.2
 56 obs. associated

? OCT 08, 1991 10h 09m 34.34±1.08s
 10.434 N ±16.0km 61.465 W ±11.6km
 DEPTH = 33.0km (normal)

TRINIDAD (98)
 MD 2.1 (TRN).

TPP 0.12 173 eP 09 40.19 0.0
 eS 09 44.46
 TRN 0.22 16 eP 09 41.08 -0.1
 eS 09 46.07
 TCE 0.39 313 iPc 09 43.30 0.0
 eS 09 50.06
 TBH 0.39 83 eP 09 43.42 0.0
 eS 09 52.64
 S.D. = 0.1 on 4 of 4 obs.

* OCT 08, 1991 10h 33m 22.60±0.90s
 31.337 S ±10.3km 69.311 W ±8.5km
 DEPTH = 33.0km (normal)
 SAN JUAN PROVINCE, ARGENTINA (137)
 MD 4.2 (SAN).

RTCB 0.46 109 iPd 33 35.00 2.2
 RTLL 0.72 90 iPc 33 35.40 -1.0
 CFA 0.95 107 iP 33 38.20 -1.5
 S 33 51.00
 RTRS 1.17 354 iPd 33 43.00 0.3
 S 33 56.40
 JACH 1.73 219 iP 33 54.00 3.1X
 iS 34 19.90
 PEL 2.15 213 eP 33 57.70 0.9
 iS 34 27.00
 ROCH 2.18 221 iP 33 58.20 0.8
 iS 34 28.00
 PCH 2.49 204 eP 34 03.20 1.3
 TACH 2.69 210 eP 34 04.20 -0.3
 CHCH 2.83 203 eP 34 06.10 -0.4
 iS 34 42.50
 LCCH 2.86 221 eP 34 06.50 -0.4
 LNV 3.16 214 iP 34 09.00 -2.1
 iS 34 48.00
 S.D. = 1.4 on 11 of 12 obs.

* OCT 08, 1991 10h 40m 27.93±2.59s
 37.230 N ±17.9km 21.123 E ±19.4km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN GREECE (368)
 ML 3.9 (ATH).

VLS 1.04 336 ePn 40 47.40 -0.1
 VLI 1.54 109 ePn 40 55.50 0.0
 AGG 2.03 28 eP 41 04.66 2.1
 ATH 2.19 69 ePn 41 08.50 3.6X
 LIT 3.06 20 eP 41 17.18 0.0
 PAIG 3.36 36 iP 41 20.90 -0.5
 OUR 3.82 35 eP 41 27.30 -0.7
 SOH 3.99 25 eP 41 29.62 -0.8
 S.D. = 1.2 on 7 of 8 obs.

OCT 08, 1991 10h 51m 02.52±0.29s
 40.580 N ±4.2km 139.512 E ±4.1km
 DEPTH = 192.2 ± 3.8 km
 4.6mb (42 obs.)
 NEAR WEST COAST OF HONSHU, JAPAN(226)

AOMJ 0.66 91 iPd 51 30.20 0.6
 MRRJ 2.18 32 P 51 43.20 0.5
 eS 52 13.50
 OFUJ 2.24 131 iPd 51 42.20 -1.1
 S 52 11.60
 YAMJ 2.44 170 iP+ 51 46.10 0.5
 S 52 19.50
 HOOJ 3.36 56 iP+ 51 56.40 -0.1
 S 52 35.10

NIIJ 3.36 187 iP+ 51 57.30 0.7
 MAT 4.16 195 iPc 52 07.60 1.0
 eS 52 56.00
 MTMJ 4.21 199 P 52 08.70 1.4
 ASAJ 4.23 32 iP+ 52 06.70 -0.7
 eS 52 54.60
 KAKJ 4.40 173 P 52 07.10 -2.5
 S 52 56.70
 CHJJ 4.54 185 P 52 11.40 -0.1
 S 53 04.60
 KUSJ 4.63 55 P 52 10.50 -2.0
 S 53 00.50
 IIDJ 5.25 194 P 52 20.20 -0.4
 S 53 20.70
 TSRJ 5.75 210 P 52 29.10 2.0
 MDJ 8.35 302 iPd 53 02.50 1.2
 1.0s 290.00nm 5.6mb
 CN2 10.92 292 Pd 53 34.70 0.0
 1.0s 23.00nm 4.6mb
 SNY 12.07 281 Pd 53 50.60 1.2
 1.0s 31.00nm 4.7mb
 BJI 17.80 276 eP 54 57.00 -2.2
 1.0s 27.00nm 4.6mb
 TIA 18.07 263 eP 55 01.20 -0.9
 1.2s 46.00nm 4.8mb
 HHC 21.16 280 eP 55 32.30 -1.2
 1.0s 22.00nm 4.6mb
 YAK 22.27 348 iP 55 43.70 -0.3
 eP 56 04.00 95kmX
 ePP 56 21.00
 eS 59 34.00
 eS 100 10.00

8TO 22.36 280 eP 55 43.90 -1.2
 XAN 25.11 265 P 56 11.00 -0.2
 0.7s 11.00nm 4.6mb
 LZH 28.21 272 eP 56 39.00 -0.4
 1.0s 13.00nm 4.6mb
 GTA 30.26 281 P 56 56.00 -1.4
 0.8s 21.00nm 4.9mb
 PpP 59 53.50
 CD2 30.40 263 iPd 56 58.20 -0.5
 0.7s 27.00nm 5.1mb
 CHG 40.91 250 eP 58 18.60 -8.8X
 0.8s 12.69nm 4.5mb
 CHTO 40.91 250 eP 58 28.70 1.3
 0.8s 10.80nm 4.4mb
 IMA 44.44 32 eP 58 56.60 1.0
 0.6s 8.00nm 4.4mb
 GUN 45.46 271 P 59 05.04 0.6
 0.6s 119.00nm 5.5mb
 KDC 45.58 44 eP 59 04.80 0.4
 KKN 45.98 271 P 59 08.94 0.6
 0.7s 100.00nm 5.4mb
 PKI 45.99 271 P 59 08.88 0.3
 DMN 46.20 271 P 59 10.64 0.5
 GKN 46.36 272 P 59 11.54 0.3
 0.5s 50.00nm 5.2mb
 PMR 46.72 38 eP 59 14.00 0.5
 0.9s 12.20nm 4.4mb
 FBA 46.94 34 eP 59 16.50 1.3
 TOA 48.03 38 eP 59 24.80 1.1
 NDI 51.65 277 iPd 59 51.00 -0.5
 0.6s 30.00nm 5.1mb
 INK 51.94 28 ePd 59 53.00 -0.1
 MBC 53.56 17 eP 00 05.00 0.0
 0.9s 10.00nm 4.5mb
 WR2 60.40 186 iPd 00 52.40 -1.2
 0.4s 13.90nm 5.1mb
 QIS 60.82 180 iPc 00 55.00 -1.4
 SOD 61.13 336 iP 00 57.20 -0.9
 KAF 64.48 331 iP 01 19.10 -1.0
 0.5s 10.20nm 4.9mb
 NUR 66.13 331 eP 01 29.90 -0.7
 PNT 66.67 44 eP 01 34.00 -0.3
 0.6s 5.00nm 4.4mb
 HFS 70.25 334 eP 01 55.20 -0.9
 0.6s 3.90nm 4.3mb
 NB2 70.35 336 P 01 56.00 -0.7
 0.7s 8.50nm 4.6mb
 SES 70.39 40 ePd 01 57.30 0.1
 FFC 71.52 33 eP 02 04.00 0.2
 0.6s 12.00nm 4.8mb
 LRM 72.65 44 eP 02 11.10 0.2
 KSP 76.32 327 eP 02 31.80 0.4
 CDF 81.83 330 eP 03 01.00 -0.1
 0.8s 5.35nm 4.3mb
 ALO 83.42 49 eP 03 10.80 1.2

LOR 1.0s 7.25nm 4.4mb
 84.06 331 eP 03 12.20 -0.2
 0.8s 7.40nm 4.5mb
 LBF 84.25 331 eP 03 13.10 -0.3
 1.0s 6.00nm 4.3mb
 FLN 84.27 335 eP 03 13.40 0.0
 0.6s 3.60nm 4.3mb
 LDF 84.30 334 eP 03 13.40 -0.1
 0.6s 4.50nm 4.4mb
 SSF 84.36 331 eP 03 13.90 0.0
 0.8s 4.05nm 4.2mb
 SMF 84.59 331 eP 03 15.20 0.2
 1.0s 8.00nm 4.4mb
 AVF 84.65 331 eP 03 15.40 0.1
 0.6s 7.65nm 4.6mb
 GRR 84.72 335 eP 03 15.60 0.0
 0.6s 7.20nm 4.6mb
 LPF 85.09 335 eP 03 17.80 0.3
 0.4s 8.00nm 4.8mb
 MAF 85.42 332 eP 03 19.60 0.4
 0.8s 10.05nm 4.6mb
 TCF 85.49 332 eP 03 19.80 0.2
 0.8s 5.35nm 4.4mb
 LSF 85.76 332 eP 03 21.00 0.1
 0.8s 5.35nm 4.4mb
 MFF 86.04 333 eP 03 22.90 0.7
 0.8s 14.80nm 4.9mb
 RJF 86.58 332 eP 03 25.30 0.4
 0.8s 10.75nm 4.7mb
 CAF 86.71 331 eP 03 26.20 0.7
 0.8s 8.05nm 4.6mb
 ZOBO 145.94 53 PKP 10 22.20 1.4
 LPB 146.16 53 ePKP 10 23.00 2.0X
 CNCB 146.45 53 PKP 10 24.00 2.4X
 SOB1 148.76 1 ePKP 10 28.60 3.9X
 SIV 149.68 42 PKP 10 32.80 6.8X
 PDOR 152.03 357 ePKP 10 36.10 6.6X
 S.D. = 0.9 on 70 of 76 obs.

% OCT 08, 1991 10h 55m 05.24±1.05s
 43.074 N ±19.5km 0.623 W ±6.1km
 DEPTH = 10.0km (geophysicist)
 PYRENEES (378)
 ML 1.0 (STR).

ESCF 0.04 82 Pg 55 06.99 -0.3
 ATE 0.06 282 Pg 55 07.36 -0.1
 Sg 55 08.60
 OGE 0.14 49 Pg 55 08.59 0.0
 MADF 0.16 297 Pg 55 09.14 0.2
 Sg 55 11.97
 JAU 0.19 101 Pg 55 09.87 0.3
 S.D. = 0.4 on 5 of 5 obs.

% OCT 08, 1991 12h 12m 44.50±1.07s
 45.212 N ±6.8km 6.821 E ±8.6km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 1.9 (GEN).

BNI 0.19 213 P 12 48.50 -0.3
 eSg 12 51.00
 RRL 0.29 185 P 12 50.83 0.1
 S 12 56.16
 RSP 0.31 101 P 12 50.42 -0.7
 S 12 55.65
 LSD 0.34 44 P 12 51.65 0.0
 S 12 56.88
 BHB 0.49 140 P 12 54.62 0.3
 S 13 00.98
 PZZ 0.73 164 P 12 59.24 0.2
 S 13 08.36
 ORX 0.92 62 P 13 02.52 0.4
 S 13 15.33
 S.D. = 0.4 on 7 of 7 obs.

? OCT 08, 1991 12h 57m 24.81±12.08s
 42.043 N ±75.2km 125.707 W ±60.8km
 DEPTH = 10.0km (geophysicist)
 OFF COAST OF OREGON (30)

DBO 2.11 59 P 58 00.70 0.0
 S 58 27.55
 HSO 2.43 52 P 58 05.09 -0.2
 S 58 33.95
 HBO 3.07 53 P 58 14.94 0.5
 S 58 51.84

08d 12h

KMOR	3.93	23	P	58 26.74	0.2	DMN	58.73	276	P	22 56.14	0.6		pP	42 16.50							
			S	59 09.97		GKN	58.74	277	P	22 56.04	0.5		sP	42 23.50							
GT2	3.99	38	P	58 27.82	0.5	KAF	60.50	336	eP	23 06.20	-0.7	MAT	10.47	39	eP	42 08.00	-1.6				
PGO	4.16	33	P	58 30.40	0.8		0.5s		2.80nm		4.6mb		0.5s		4.93nm		5.0mb				
VBEM	4.25	43	P	58 30.83	-0.3	NUR	62.29	336	eP	23 18.50	-0.5	SNY	14.26	340	Pc	43 02.80	2.5				
TDH	4.31	40	P	58 32.02	-0.1	NB2	64.73	343	P	23 33.60	-1.5		1.2s		15.00nm		4.5mb				
VLMW	4.39	36	P	58 33.47	0.4		0.7s		3.70nm		4.6mb	Z	10s		2.30um		4.4MsZx				
VIPM	4.46	55	P	58 34.05	-0.1	HFS	65.10	341	eP	23 36.20	-1.2	N	10s		1.52um						
LVP	4.67	29	P	58 36.92	-0.2		0.5s		8.00nm		5.1mb	CN2	15.66	347	eP	43 23.00	4.5X				
APM	4.70	37	P	58 37.93	0.4	HYB	70.30	273	eP	24 10.50	-0.1		0.8s		73.00nm		4.9mb				
MTMW	4.71	31	P	58 37.14	-0.5	KSP	73.05	336	eP	24 26.30	-0.2	Z	13s		4.90um						
			S	59 27.94						24 37.20	36km	N	12s		1.35um						
BMW	4.78	21	P	58 38.10	-0.5	CLL	73.42	338	eP	24 28.00	-0.6	E	12s		0.58um						
FL2	4.80	29	P	58 38.67	-0.3		1.4s		13.00nm		4.7mb				epP	43 30.00					
CDFW	4.85	32	P	58 39.17	-0.4	SPC	73.49	333	eP	24 29.60	0.3	MDJ	16.02	359	eP	43 24.50	1.4				
VTHM	4.88	48	P	58 39.69	-0.3	PRU	74.28	337	eP	24 33.50	-0.1	BJI	16.22	318	eP	43 27.00	1.4				
ESD	4.88	30	P	58 40.68	0.6	MLR	75.02	328	ePc	24 39.50	1.4		1.2s		12.00nm		3.9mb				
STD	4.89	30	P	58 39.91	-0.2	ZST	75.27	334	eP	24 36.50	-2.8X	Z	14s		1.47um						
ERK	4.90	28	P	58 40.02	-0.3					46 09.30		N	13s		1.06um						
SOSW	4.92	30	P	58 40.30	-0.3	KHC	75.31	337	P	24 40.00	0.4	E	13s		0.99um						
CZM	4.96	27	P	58 41.28	0.2					24 51.20	37km				pP	43 32.50					
VGB	4.98	44	P	58 41.34	0.0	SSF	79.43	343	eP	25 04.40	2.0	TIY	17.38	306	eP	43 41.00	0.7				
TDL	4.98	29	P	58 41.53	0.0		0.8s		5.35nm		4.6mb		0.8s		40.00nm		4.6mb				
ASR	5.06	34	P	58 42.28	-0.4	AVF	79.72	343	eP	25 03.80	-0.2	Z	14s		2.14um						
KOSW	5.09	29	P	58 42.91	0.0		0.9s		7.35nm		4.7mb	N	14s		1.21um						
LMW	5.23	27	P	58 45.63	0.6		S.D. = 1.0 on 29 of 31 obs.									E	15s	1.09um			
GLK	5.39	32	P	58 46.92	-0.4		* OCT 08, 1991 14h 48m 19.68± 1.71s									XAN	18.91	292	iPc	43 58.40	-0.8
LON	5.47	29	P	58 47.96	-0.4		23.879 N ± 8.2km 121.811 E ± 16.2km									HHC	19.52	314	eP	44 04.30	-2.1
REMR	5.52	29	P	58 48.81	-0.4		DEPTH = 10.0km (geophysicist)										1.0s		25.00nm		4.5mb
WPW	5.53	31	P	58 48.54	-0.7		3.7mb (1 obs.)									Z	17s		1.20um		
GHW	5.57	25	P	58 49.99	0.3	TAIWAN	(244)									GUA	20.31	134	eP	44 15.60	0.8
RVC	5.58	27	P	58 50.03	0.1					48 26.10	0.5		1.0s		136.00nm		5.3mb				
FMW	5.68	29	P	58 51.23	-0.2	TWD	0.28	315	iPd	48 30.20		BTO	20.39	311	eP	44 14.50	-1.0				
GSM	5.87	27	P	58 54.03	0.1					48 33.20	-0.4	Z	13s		1.00um		4.4MsZx				
RMW	6.09	26	P	58 57.56	0.5	TWF1	0.71	222	ePd	48 34.20	0.2	N	13s		0.69um						
S.D. = 0.4 on 36 of 36 obs.						TWC	0.73	3	iPd	48 34.20	0.2	E	13s		0.64um						
* OCT 08, 1991 13h 01m 05.67± 2.84s						TWO	0.97	294	iPc	48 37.70	-0.5	QIZ	20.82	247	eP	44 20.80	0.9				
42.574 N ± 26.8km 0.886 E ± 5.8km										48 50.80					eS	48 00.00					
DEPTH = 10.0km (geophysicist)						TWZ	1.23	350	ePc	48 41.70	-0.9										
PYRENEES (378)						TWK	1.36	244	ePc	48 44.10	-0.6	GYA	20.91	270	P	44 21.20	0.2				
ML 1.2 (STR).										49 01.30			1.0s		12.00nm		4.2mb				
ENSF	0.47	300	Pg	01 15.32	0.1	SSE	7.21	356	eP	50 13.00	5.4X	Z	20s		1.25um		4.3MsZ				
LESF	0.54	33	Pg	01 16.98	0.3					51 29.00		N	16s		1.82um						
GRBF	0.55	61	Pg	01 16.43	-0.4	CHG	21.88	261	eP	53 18.00	3.3X	E	16s		1.53um						
EPF	0.61	319	Pg	01 17.70	-0.3	CHTO	21.88	261	eP	53 16.20	1.6	CD2	23.00	282	P	44 41.00	-0.7				
			Sg	01 27.00			0.9s		2.98nm		3.7mb		1.0s		85.00nm		5.2mb				
LSPF	0.84	63	Pg	01 22.19	0.3		S.D. = 1.0 on 7 of 9 obs.									LZH	23.39	295	eP	44 45.00	-0.6
S.D. = 0.5 on 5 of 5 obs.												Z	1.4s		44.00nm		4.8mb				
* OCT 08, 1991 14h 12m 58.63± 1.21s						%	OCT 08, 1991 15h 08m 20.23± 1.20s									Z	14s		0.97um		4.4MsZx
51.551 N ± 15.2km 158.437 E ± 18.5km							42.084 N ± 9.8km 18.975 E ± 8.9km									E	12s		0.77um		
DEPTH = 35.1km (5 depth phases)							DEPTH = 10.0km (geophysicist)											pP	44 54.50	35km	
4.6mb (14 obs.)							NORTHWESTERN BALKAN REGION (383)											sP	45 01.50		
NEAR EAST COAST OF KAMCHATKA (218)							ML 1.7 (TTG).									KMI	24.65	268	Pd	44 56.00	-2.0
YAK	18.73	315	eP	17 16.20	-0.1	BDV	0.23	331	iPg	08 25.66	0.5	GTA	27.24	301	eP	45 20.00	-1.9				
			e	18 13.00						08 30.22			0.8s		19.00nm		4.8mb				
MDJ	20.39	261	eP	17 34.00	-0.9	ULC	0.24	120	iPg	08 25.34	0.0	Z	15s		1.80um		4.8MsZx				
	0.8s									08 29.22		E	14s		1.30um						
MAT	20.79	232	iPc	17 38.10	-1.0	TTG	0.41	31	iPg	08 28.44	-0.1				pP	45 32.00	47kmX				
	0.8s									08 35.44		CHG	30.08	258	eP	45 47.00	-0.5				
CN2	23.37	264	eP	18 05.00	0.4	HCY	0.51	316	iPg	08 30.14	-0.4		0.8s		11.19nm		4.7mb				
Z	16s									08 38.36		CHTO	30.08	258	iP	45 46.90	-0.6				
SNY	25.59	261	eP	18 24.00	-1.9	NKY	0.73	1	iPg	08 34.50	-0.1		0.8s		9.15nm		4.6mb				
	0.8s									08 45.64					pP	45 55.00	28km				
INK	35.72	36	eP	20 03.00	7.8X	BRY	0.88	339	iPg	08 37.14	0.0	YAK	33.45	360	eP	46 14.80	-1.6				
LZH	41.32	270	eP	20 43.00	0.5					08 50.40		LSA	33.96	282	iPd	46 21.80	0.0				
	1.0s											IPM	36.50	235	ePd	46 45.90	2.9				
GTA	41.77	277	eP	20 47.40	1.2		S.D. = 0.4 on 6 of 6 obs.									WMQ	37.05	306	P	46 46.70	-0.7
	0.8s											Z	1.2s		8.70nm		4.5mb				
Z	15s												1.6s		0.81um		4.6MsZx				
GYA	46.17	257	iPd	21 22.60	0.9		OCT 08, 1991 15h 39m 38.70± 0.46s									GUN	38.82	280	P	47 03.12	0.3
	1.0s																				
WMQ	46.53	290	P	21 25.50	1.2		28.568 N ± 6.6km 130.127 E ± 5.7km									PKI	39.30	280	P	47 06.30	-0.5
	0.8s																				
Z	12s																				
CHG	56.59	258	eP	22 41.00	0.7		DEPTH = 32.7km (3 depth phases)														
CHTO	56.59	258	eP	22 41.00	0.8		4.9mb (34 obs.) 4.3MsZ (1 obs.)														
	0.6s						RYUKYU ISLANDS (238)														
GUN	58.04	276	P	22 48.86	-2.0	KAGJ	2.69	14	P	40 21.40	0.8	KKN	39.36	280	P	47 06.96	-0.3				
KKN	58.50	276	P	22 54.36	0.5	KUMJ	4.00	9	P	40 40.20	1.0	DMN	39.55	280	P	47 08.38	-0.5				
PKI	58.57	276	P	22 54.14	-0.4	SHNJ	5.60	8	P	41 01.30	-0.6		0.8s		65.00nm		5.4mb				
						SHK	6.33	19	eP	41 12.00	-0.2	GKN	39.88	280	P	47 11.04	-0.3				
						SSE	8.16	290	P	41 39.00	1.2		0.6s		73.00nm		5.6mb				
							1.0s			41.00nm		5.5mb									
						Z	20s			1.80um											
						N	13s			1.20um											
						E	14s			1.50um											
						NJ2	10.34	292	Pd	42 10.00	2.2										
							1.0s			51.00nm		5.7mb									
						Z															

08d 15h

FBA	0.8s	40.00nm	5.6mb
TOA	61.19 29 eP	49 52.90	0.7
	62.28 32 eP	50 00.30	0.7
	0.7s	14.30nm	5.2mb
INK	66.08 24 eP	50 24.00	-0.2
MBC	67.16 14 eP	50 31.00	0.0
	0.6s	6.00nm	4.9mb
KAF	71.27 331 eP	50 54.80	-1.7
	0.6s	4.20nm	4.7mb
NUR	72.71 330 eP	51 04.10	-0.9
YKA	75.70 26 eP	51 23.00	0.7
	0.7s	7.40nm	4.8mb
HFS	77.53 333 eP	51 31.50	-1.0
	0.4s	1.50nm	4.4mb
NB2	77.96 334 P	51 33.60	-1.3
	0.8s	6.00nm	4.7mb
HRI	78.27 301 eP	51 36.50	-0.7
VRI	78.59 316 eP	51 40.15	1.5
MLR	79.25 316 eP	51 41.00	-1.4
DSI	79.50 300 eP	51 42.20	-0.6
KRA	80.33 322 eP	51 47.70	-0.2
	i	51 49.50	6kmX
MBH	80.50 299 eP	51 49.30	0.0
KSP	81.80 324 eP	51 56.10	0.5
ZST	82.91 322 eP	52 09.10	7.7X
BRG	82.98 325 e(P)	52 02.20	0.4
	1.6s	25.00nm	5.1mb
CLL	83.19 326 iPc	52 03.20	0.4
	1.3s	22.00nm	5.1mb
PRU	83.21 324 eP	52 03.70	0.7
KHC	84.23 324 eP	52 09.20	1.0
	e	52 15.00	18kmX
MOX	84.29 326 iP	52 09.00	0.6
LPG	90.12 324 eP	52 45.90	8.7X
	0.8s	5.35nm	4.9mb
SMF	90.79 326 eP	52 41.20	1.3
	1.0s	4.00nm	4.7mb
AVF	90.93 327 eP	52 40.40	-0.1
	1.0s	4.00nm	4.7mb
ZOBO	159.19 58 ePKP	59 46.00	10.1X
	S.D. = 1.1 on 61 of 65 obs.		

OCT 08, 1991 15h 55m 03.66±0.62s
62.715 N ± 5.2km 149.641 W ± 7.1km
DEPTH = 62.5 ± 43.3 km
CENTRAL ALASKA (1)
ML 2.6 (PMR).

RND	0.78 27 iPd	55 19.33	0.1
PWA	1.07 186 eP	55 22.80	-0.1
PMR	1.15 168 eP	55 23.80	-0.1
TOA	1.73 109 eP	55 32.50	0.6
KLU	2.14 123 eP	55 36.74	-0.9
SLKM	2.23 187 eP	55 39.67	0.7
FBA	2.34 20 iPc	55 40.40	0.0
TTA	2.93 277 eP	55 48.50	-0.4
IMA	3.80 334 eP	56 01.20	0.2
	S.D. = 0.6 on 9 of 9 obs.		

% OCT 08, 1991 16h 22m 27.02±0.80s
37.217 N ± 8.5km 3.651 W ± 7.8km
DEPTH = 10.0km (geophysicist)
SPAIN (377)
mbLg 2.7 (MDD). Felt (III) in the Sontafe area.

ECOG	0.09 48 iP	22 29.20	-0.5
	eS	22 30.80	
AFC	0.09 66 iPg	22 29.50	-0.3
	eSg	22 31.00	
EGUA	0.39 170 ePg	22 34.80	-0.2
	eSg	22 41.00	
EPRU	1.29 259 ePg	22 52.00	1.1
	eSg	23 10.00	
EHOR	1.41 296 ePn	22 51.20	-1.5
	eSn	23 09.00	
EVIA	1.69 32 ePg	22 57.80	1.1
	eSg	23 20.30	
	S.D. = 1.3 on 6 of 6 obs.		

% OCT 08, 1991 17h 47m 22.81±3.90s
33.322 S ± 9.2km 72.080 W ± 27.6km
DEPTH = 10.0km (geophysicist)
OFF COAST OF CENTRAL CHILE (134)

LCCH	0.45 110 iPd	47 32.50	0.5
	iS	47 38.50	

LNV	0.84 139 iPd	47 39.50	0.4
	iS	47 51.50	
ROCH	0.96 69 eP	47 41.70	0.4
TACH	1.01 109 iPd	47 41.40	-0.6
	iS	47 55.10	
PEL	1.18 82 iPd	47 45.30	0.4
	iS	48 00.50	
CHCH	1.34 117 iPc	47 47.30	-0.2
	iS	48 04.40	
PCH	1.34 103 iPc	47 47.00	-0.6
	iS	48 05.50	
JACH	1.40 63 eP	47 48.20	-0.3
	iS	48 08.00	
	S.D. = 0.6 on 8 of 8 obs.		

* OCT 08, 1991 18h 51m 20.12±0.99s
2.040 S ± 11.0km 27.440 E ± 13.0km
DEPTH = 10.0km (geophysicist)
4.8mb (3 obs.)

ZAIRE (567)
mbLg 4.5 (BUL).

KIL	3.39 49 eP	52 15.00	0.6
	eS	58 07.50	
ENT	5.44 68 eP	52 47.00	3.6X
	eS	54 15.50	
NAI	9.39 85 ePn	53 38.00	-0.7
	iPg	53 42.00	
	iSg	55 45.00	
	eLg	56 13.50	
LSZ	13.17 177 iPn	54 28.00	-2.1
	i	54 31.00	
	iSn	56 48.00	
	iSg	57 08.00	
	i	58 16.00	
KRI	14.85 172 iPn	54 52.00	-0.2
	iSn	57 31.50	
	iLg	59 01.00	
BUL	18.03 176 ePn	55 34.00	1.3
	iSn	58 58.90	
	iLg	00 47.40	
WIN	22.74 205 eP	56 25.00	1.0
	1.0s	50.00nm	5.0mb
BFT	23.64 174 eP	56 37.50	4.8X
KSR	23.69 181 eP	56 34.00	0.8
PRY	24.75 180 eP	56 47.00	3.6X
VIR	25.90 181 eP	56 59.50	5.3X
	0.7s	13.70nm	4.8mb
SEK	26.14 180 e(P)	57 00.60	4.2X
	0.7s	10.27nm	4.6mb
TIC	33.54 285 P	58 01.60	-0.9
	S.D. = 1.4 on 8 of 13 obs.		

% OCT 08, 1991 19h 16m 56.30±1.41s
1.749 N ± 12.7km 77.757 W ± 25.2km
DEPTH = 33.0km (normol)

COLOMBIA (103)
MD 4.0 (UVC).

CUMC	0.79 188 iPc	17 11.50	0.0
	eS	17 27.20	
PURC	1.51 68 eP	17 21.49	-0.3
	eS	17 43.70	
SALC	1.61 41 ePd	17 23.58	0.6
	eS	17 48.40	
ANCC	1.97 27 iPd	17 27.53	-0.5
	eS	17 55.30	
HOCC	2.04 33 iPc	17 29.44	0.1
	eS	17 58.50	
	S.D. = 0.6 on 5 of 5 obs.		

OCT 08, 1991 19h 30m 49.89±0.71s
45.944 N ± 9.8km 7.620 E ± 4.2km
DEPTH = 5.0km (geophysicist)
3.6mb (1 obs.)

NORTHERN ITALY (545)
ML 2.5 (LDG).

DIX	0.20 313 ePc	30 53.40	-0.7
MMK	0.26 66 ePc	30 55.30	0.0
EMS	0.50 285 ePd	30 59.70	-0.2
LPL	0.75 236 Pg	31 05.00	-0.2
	Sg	31 14.40	
TMA	0.89 79 ePd	31 07.40	-0.1
LLS	1.33 45 ePd	31 18.40	3.4X
OSS	1.90 66 ePc	31 28.70	5.3X

SLE	1.92 18 ePc	31 26.20	2.6X
BSF	1.97 344 Pg	31 29.80	5.4X
	Sg	31 54.00	
SMF	2.71 286 Pn	31 34.00	-0.9
	Sg	32 16.40	
LBF	2.72 294 Pn	31 36.00	0.8
LOR	2.91 298 Pn	31 38.80	1.0
	Sg	32 20.40	
AVF	3.07 288 Pn	31 40.00	0.0
BGF	3.37 282 Pn	31 44.40	0.2
HFS	14.67 12 eP	34 15.40	-4.3X
	0.7s	1.20nm	3.6mb
	S.D. = 0.7 on 10 of 15 obs.		

OCT 08, 1991 19h 53m 12.41±0.42s
8.169 S ± 5.4km 125.774 E ± 10.0km
DEPTH = 20.4km (2 depth phases)
4.7mb (5 obs.)
TIMOR REGION, INDONESIA (289)

MTN	7.02 132 eP	54 57.00	0.3
	0.4s	183.00nm	6.5mb X
	eS	56 13.00	
KNA	8.08 159 eP	55 10.50	-1.1
PCI	9.33 320 ePc	55 30.00	1.2
	eS	55 42.60	
MBL	14.13 203 eP	56 31.00	-2.7
NANU	17.37 213 eP	57 17.40	2.1
WARB	17.93 177 eP	57 21.80	-0.6
QIS	18.18 134 e(P)	57 27.00	1.6
	e	00 37.00	
PMG	21.16 95 eP	58 04.00	5.2X
FORR	22.67 175 eP	58 15.00	1.3
MRWA	22.87 202 eP	58 16.00	0.2
BAL	23.88 200 eP	58 26.00	0.4
NWAO	25.88 197 eP	58 44.00	-0.6
STK	27.81 150 eP	59 09.50	7.2X
	0.5s	2.00nm	4.1mb
COO	33.06 136 eP	59 38.00	-11.0X
BWA	33.41 145 eP	00 02.00	10.0X
CAN	34.39 145 iPc	00 09.90	9.5X
BDT	36.58 314 eP	00 18.10	-1.0
CHG	37.67 316 eP	00 28.50	0.2
CHTO	37.67 316 eP	00 28.50	0.2
	1.0s	7.00nm	4.4mb
	pP	00 35.70	24km
NJ2	40.54 351 eP	00 53.00	1.1
CD2	44.22 332 eP	01 22.00	0.5
XAN	44.92 340 eP	01 27.00	-0.7
MAT	45.98 14 eP	01 34.00	-2.1
	1.2s	26.56nm	5.1mb
LZH	48.62 336 eP	01 57.50	0.5
	1.0s	13.00nm	4.9mb
LSA	50.27 320 P	02 10.30	0.2
MDJ	52.65 3 eP	02 27.50	0.2
GTA	53.11 335 eP	02 31.00	0.0
	1.0s	9.00nm	4.7mb
	pP	02 36.00	16km
WMO	62.18 330 P	03 34.00	-0.8
YAK	70.04 2 iP	04 24.10	-0.4
ZOBO	152.09 150 PKP	13 11.00	8.3X
	S.D. = 1.1 on 24 of 30 obs.		

? OCT 08, 1991 19h 57m 00.21±6.74s
32.436 S ± 47.9km 71.438 W ± 30.1km
DEPTH = 31.9 ± 8.9 km
NEAR COAST OF CENTRAL CHILE (135)

ROCH	0.64 146 iPc	57 14.20	1.0
	iS	57 24.60	
JACH	0.75 109 iPc	57 14.50	-0.1
	iS	57 25.00	
PEL	0.95 138 iPd	57 17.40	0.1
	iS	57 30.00	
LCCH	1.04 186 iPd	57 19.20	0.6
	iS	57 33.60	
TACH	1.28 161 iPd	57 22.20	0.1
	iS	57 38.80	
PCH	1.41 147 iPc	57 23.50	-0.5
	iS	57 41.60	
LNV	1.52 179 eP	57 24.70	-0.7
CHCH	1.63 156 iP	57 26.70	-0.4
	iS	57 47.00	
	S.D. = 0.8 on 8 of 8 obs.		

% OCT 08, 1991 20h 03m 56.48±0.86s
42.260 N ± 6.1km 19.576 E ± 5.8km

DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 1.8 (TTG).

TTG 0.29 306 iPgc 04 02.80 0.3
iSg 04 07.90
ULC 0.38 219 iPgc 04 04.42 0.1
iSg 04 10.98
PVY 0.45 41 iPgD 04 05.68 0.1
iSg 04 12.24
BDV 0.56 273 iPgc 04 07.54 -0.2
iSg 04 16.28
IVA 0.66 21 iPgD 04 09.40 -0.2
iSg 04 19.28
NKY 0.70 322 iPgD 04 10.00 -0.4
iSg 04 20.84
HCY 0.82 284 iPgc 04 12.50 0.1
iSg 04 24.62
BRY 1.00 310 iPgD 04 15.42 0.0
iSg 04 30.36
PLE 1.08 353 iPgD 04 17.10 0.3
iSg 04 32.88

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

? OCT 08, 1991 21h 38m 02.79±0.87s
6.667 N ±39.4km 72.954 W ±32.3km
DEPTH = 144.9 ± 28.4 km
NORTHERN COLOMBIA (99)

BMG 0.42 343 eP 38 24.00 0.5
BOG 2.31 209 iPd 38 45.00 2.9X
eS 39 16.00
SDV 3.19 46 iPnc 38 54.00 0.9
iSn 39 31.30
HOBC 3.91 234 ePd 39 02.12 -0.5
eS 39 40.30
BUGC 4.29 230 eP 39 08.21 0.6
TOV 4.41 45 ePn 39 09.30 0.2
eSn 39 59.00
CLMC 4.54 233 eP 39 11.28 0.3
HOQC 4.85 229 eP 39 13.98 -1.3
ANCC 5.00 231 eP 39 16.41 -0.6
CEOS 5.14 63 iP 39 17.90 -1.1
eS 40 09.20
PURC 5.49 218 eP 39 25.24 1.1
CUMC 7.50 221 eP 39 51.39 0.2

S.D. = 1.0 on 11 of 12 obs.

OCT 08, 1991 22h 24m 43.23±0.56s
20.907 S ± 5.2km 178.577 W ± 4.2km
DEPTH = 617.2 ± 7.6 km
4.9mb (43 obs.)
FIJI ISLANDS REGION (181)

NDF 4.89 309 eP 26 17.40 0.7
DZM 13.99 263 iPd 27 42.20 0.9
WCZ 16.21 201 P 28 06.20 3.7X
KUZ 16.55 196 P 28 08.20 2.5
HBZ 16.85 189 eP 28 09.50 0.9
URZ 17.69 191 P 28 14.90 -1.5
NOZ 17.89 189 eP 28 19.40 1.1
RUZ 18.90 195 eP 28 27.20 -0.4
PGZ 20.13 191 eP 28 37.10 -1.8
0.5s 48.00nm 5.3mb
THZ 22.01 197 eP 28 55.80 -0.1
KHZ 22.45 195 eP 28 58.40 -1.4
LTZ 23.13 197 P 29 04.30 -1.6
AFR 27.38 88 iP 29 43.00 -0.3
1.0s 55.00nm 5.1mb
COO 28.22 244 iPc 29 53.70 3.1X
0.5s 10.00nm 4.7mb
VAH 29.92 84 iP 30 04.70 -0.4
1.0s 20.00nm 4.7mb
TPT 30.00 84 iP 30 05.80 0.0
1.0s 30.00nm 4.9mb
RUV 30.17 84 iP 30 07.00 -0.2
1.0s 40.00nm 5.0mb
CTAO 32.91 265 iPd 30 31.00 0.7
1.0s 80.00nm 5.3mb
CMS 33.50 244 iPc 30 36.00 0.9
0.6s 17.00nm 4.9mb
QLP 34.42 253 iPd 30 43.50 0.7
0.4s 69.00nm 5.6mb
PMG 34.91 284 eP 30 47.00 0.1
STK 37.13 245 iPd 31 07.60 2.7
0.6s 10.80nm 4.6mb
e 33 10.40

JAY 43.66 289 ePd 31 57.00 -0.1
0.5s 92.90nm 5.5mb
ASPA 43.90 257 iPd 31 58.90 0.0
0.7s 83.00nm 5.3mb
iPcP 33 31.00
iPcS 37 23.50
iS 37 45.60
iScS 40 51.30
FORR 48.60 247 eP 32 34.00 -0.4
0.2s 14.00nm 5.1mb
MTN 48.63 271 eP 32 33.40 -1.4
0.6s 154.00nm 5.7mb
GUA 49.58 311 eP 32 40.70 -1.0
0.8s 149.25nm 5.5mb
GUMD 49.65 311 eP 32 41.20 -1.0
PJG 49.65 311 eP 32 41.40 -0.8
KNA 50.07 267 iPd 32 44.60 -0.8
0.5s 23.00nm 4.9mb
WARB 50.19 253 iPd 32 45.40 -0.8
0.4s 13.00nm 4.7mb
COOL 54.57 246 eP 33 16.00 -1.4
TNE 57.08 285 eP 33 34.50 -0.3
MBL 57.14 258 iPd 33 34.20 -0.9
0.4s 17.00nm 4.6mb
KLB 57.39 245 eP 33 36.00 -0.7
NWA0 57.70 244 eP 33 38.00 -0.8
BAL 58.40 246 eP 33 42.50 -1.0
MUN 58.66 245 eP 33 44.00 -1.2
MRWA 59.19 248 iPd 33 48.10 -0.7
0.5s 9.00nm 4.3mb
NANU 60.77 255 iPd 33 59.50 0.3
PCI 63.23 280 ePd 34 16.90 1.8
SPA 69.22 180 iPc 34 52.10 0.9
1.0s 32.50nm 4.8mb
MAT 70.22 324 iPd 34 56.00 -1.2
0.8s 15.67nm 4.6mb
ADK 72.49 1 eP 35 08.80 -1.1
0.7s 70.30nm 5.3mb
SMY 73.60 355 eP 35 14.90 -1.3
QZH 76.19 304 P 35 31.50 0.4
SDN 77.49 10 e(P) 35 36.40 -1.0
SYP 78.34 46 eP 35 44.00 1.4
MWC 79.48 47 eP 35 49.00 0.4
NJ2 79.72 310 Pc 35 50.50 0.9
1.2s 55.00nm 4.9mb
RVR 79.82 48 eP 35 50.00 -0.1
PLM 79.82 48 eP 35 51.00 0.6
SBB 79.89 47 eP 35 50.00 -0.6
PEC 79.91 48 P 35 50.60 -0.1
ISA 80.00 46 eP 35 51.00 -0.1
CMB 80.13 43 P 35 52.50 0.8
1.0s 25.00nm 4.6mb
ORV 80.34 41 P 35 52.80 0.1
MDJ 80.54 325 eP 35 52.00 -1.6
1.0s 55.00nm 5.0mb
CWC 80.71 45 eP 35 55.00 0.1
GSC 80.93 47 eP 35 56.00 0.1
GLA 81.10 50 eP 35 58.00 1.2
LBFM 81.19 40 P 35 58.00 0.7
SNY 82.17 320 Pd 36 01.80 -0.1
0.8s 21.00nm 4.7mb
WHN 82.25 307 ePc 36 03.50 1.0
0.5s 7.00nm 4.5mb
CN2 82.29 323 Pd 36 02.40 0.0
1.0s 34.00nm 4.8mb
IPM 82.68 278 ePd 36 06.10 1.0
1.0s 60.80nm 5.1mb
RSO 83.75 13 P 36 07.70 -1.9
SLKM 84.33 14 P 36 11.00 -1.2
TTA 85.44 10 eP 36 17.70 0.1
1.1s 22.10nm 4.7mb
PMR 85.54 14 P 36 17.10 -0.8
0.7s 29.07nm 5.1mb
MSU 85.78 46 P 36 20.50 0.6
BJI 85.80 316 eP 36 20.00 0.3
1.5s 25.00nm 4.7mb
GYA 86.38 300 P 36 24.20 1.3
1.2s 29.00nm 4.9mb
TOA 86.66 15 eP 36 23.70 0.3
BALM 86.72 17 P 36 23.40 -0.4
HVU 87.07 43 P 36 26.30 0.4
TIY 87.15 312 eP 36 26.00 -0.2
DPW 87.20 36 P 36 26.20 0.0
RND 87.21 13 P 36 24.80 -1.2
PNT 87.29 34 eP 36 27.00 0.4
0.8s 30.00nm 5.1mb
PV09 87.84 47 P 36 29.90 0.1

HPI 87.87 41 P 36 30.30 0.5
PTI 87.89 42 P 36 31.20 1.5
XAN 87.95 308 Pd 36 30.80 0.8
ALO 88.08 51 ePd 36 30.90 0.1
1.0s 10.00nm 4.6mb
ANMO 88.08 51 P 36 31.00 0.2
1.0s 11.25nm 4.6mb
IMA 88.74 10 eP 36 32.90 -0.1
0.9s 15.50nm 4.9mb
FBA 88.75 13 P 36 31.90 -1.1
0.7s 30.52nm 5.3mb
BDT 89.24 289 iPd 36 31.80 -4.3X
0.7s 9.00nm 4.8mb
HHC 89.25 315 Pd 36 37.00 1.1
1.0s 15.00nm 4.9mb
LRM 89.37 40 eP 36 37.00 0.5
BW06 89.63 43 P 36 37.50 -0.3
CHG 89.87 290 iPc 36 41.00 1.9
0.8s 12.13nm 4.9mb
CHTO 89.87 290 iP 36 40.80 1.7
0.7s 38.60nm 5.4mb
CD2 90.55 303 eP 36 42.90 0.8
SES 92.52 36 ePd 36 50.70 0.1
GTA 96.81 309 P 37 11.00 0.5
0.8s 4.00nm 4.8mb
QUE 120.85 293 ePKP 42 38.50 9.9X
MAIO 127.48 300 iPKPc 42 41.00 0.0
KAF 135.39 344 ePKP 42 52.40 -2.7X
NUR 137.17 343 ePKP 42 55.00 -3.5X
eSKP 45 35.00
NB2 139.32 353 PKP 42 53.20 -9.3X
0.7s 5.60nm
HFS 139.85 351 ePKP 42 55.00 -8.4X
0.5s 5.60nm
MUD 144.03 353 iPKPc 43 09.90 -0.8
0.9s 50.00nm
COP 144.31 349 iPKPc 43 10.60 -0.6
0.9s 43.70nm
BSD 144.37 347 iPKPc 43 10.40 -0.9
1.0s 103.00nm
EKA 145.45 5 PKPc 43 13.80 0.7
0.9s 26.10nm
KAS 145.90 314 iPKPd 43 16.80 2.4X
CSTJ 146.85 295 PKP 43 18.36 2.1X
BHL 147.13 300 PKP 43 19.00 2.4X
HRI 147.21 299 iPKPd 43 23.80 7.0X
GHZJ 147.23 294 PKP 43 16.22 -0.7
JARJ 147.26 297 PKP 43 18.70 1.8
QTRJ 147.38 296 PKP 43 19.63 2.5X
KRA 147.42 338 ePKP 43 19.40 2.9X
i 43 23.90
MASJ 147.55 297 PKP 43 18.96 1.6
KFNJ 147.56 297 PKP 43 16.82 -0.4
VRI 147.61 326 ePKP 43 19.00 2.1X
DSI 147.86 296 iPKPd 43 25.20 7.4X
KSP 147.91 342 iPKPd 43 21.20 4.0X
0.9s 55.00nm
i 43 26.00
e 45 40.50
SPC 148.03 336 ePKP 43 21.90 4.2X
PSN 148.19 322 iPKPc 43 23.00 5.1X
MLR 148.27 326 ePKPd 43 22.50 4.4X
CLL 148.33 346 ePKP 43 18.00 0.2
1.0s 70.00nm
i 43 22.20
pPKP 45 43.00
BRG 148.51 345 ePKP 43 17.80 -0.3
i 43 22.20
i 43 28.00
MBH 148.59 293 iPKPd 43 27.20 8.2X
CNR 148.89 327 ePKPc 43 23.00 4.1X
TNR 149.00 328 ePKPc 43 25.00 5.9X
PRU 149.17 343 PKPd 43 24.00 4.8X
0.9s 20.60nm
e 43 31.10
MOX 149.25 347 iPKP 43 18.80 -0.5
HOF 149.51 347 ePKP 43 15.90 -3.8X
i 43 24.90
i 43 32.20
SRO 149.89 337 iPKP 43 26.10 5.8X
i 43 34.50
ZST 149.99 339 ePKP 43 26.30 5.9X
e 43 34.90
UCC 150.08 356 PKP- 43 27.00 6.5X
PVL 150.10 324 iPKPc 43 27.00 6.2X
MEM 150.14 354 iPKPc 43 20.99 0.4
id 43 26.39

08d 22h

VKA	150.19	340	i (PKP)	43	27.00	6.2X
			i	43	34.70	
KHC	150.21	344	PKP	43	21.10	0.3
	1.0s	179.00nm				
			i	43	27.00	
			i	43	35.60	
GRF	150.24	347	iPKPd	43	26.90	6.1X
	0.8s	28.00nm				
		e	43	35.80		
SNF	150.37	356	iPKPd	43	26.91	6.0X
DIM	150.73	322	iPKP	43	28.00	6.2X
DOU	150.76	356	PKPd	43	27.90	6.3X
KDZ	151.05	321	iPKPd	43	29.00	6.7X
WLF	151.06	354	iPKPd	43	28.90	6.9X
			i	43	38.67	
PLD	151.17	322	iPKPd	43	28.00	5.6X
PGB	151.19	324	ePKP	43	29.00	6.5X
RZN	151.43	322	iPKPd	43	30.00	6.9X
FUR	151.67	346	iPKPd	43	29.90	6.9X
	0.8s	33.00nm				
		i	43	42.00		
BHG	151.69	344	iPKPc	43	30.00	7.0X
		i	43	42.20		
KBA	152.15	342	iPKPc	43	23.00	-0.9
	0.8s	10.50nm				
		i	43	30.00		
		i	43	44.50		
CDF	152.16	352	ePKP	43	30.90	7.1X
	0.8s	14.80nm				
FLN	152.17	3	iPKPd	43	30.60	7.0X
	1.0s	32.00nm				
KKB	152.24	324	iPKPd	43	31.00	7.0X
LDF	152.35	2	iPKPd	43	30.80	6.9X
	0.8s	12.10nm				
LDF	152.35	2	iPKPd	43	34.50	10.6X
	1.0s	9.00nm				
WATA	152.38	345	iPKPc	43	24.00	-0.2
	0.9s	17.20nm				
		i	43	31.00		
		i	43	44.50		
WTTA	152.43	345	iPKPc	43	24.00	-0.3
	0.7s	21.40nm				
		i	43	31.40		
		i	43	45.00		
GRR	152.52	3	iPKPd	43	31.40	7.3X
	0.6s	8.10nm				
HAU	152.67	353	ePKP	43	31.70	7.3X
	0.8s	13.45nm				
LJU	152.72	340	e (PKP)	43	31.80	7.3X
BSF	152.79	352	ePKP	43	32.10	7.4X
	0.8s	10.75nm				
LPF	152.87	4	iPKPd	43	32.20	7.6X
	0.8s	21.50nm				
VOY	152.94	341	e (PKP)	43	32.20	7.3X
VBY	152.96	338	e (PKP)	43	32.80	8.0X
CEY	153.03	340	e (PKP)	43	32.90	7.9X
LOR	153.63	356	iPKPd	43	34.00	8.3X
	0.8s	8.05nm				
SSF	153.85	357	iPKPd	43	34.50	8.5X
	1.0s	12.00nm				
SMF	154.25	356	ePKP	43	35.20	8.7X
	1.0s	5.00nm				
MFF	154.34	2	ePKP	43	35.30	8.7X
	0.8s	10.75nm				
TCF	154.68	359	iPKPd	43	36.00	8.8X
	1.0s	8.00nm				
LSF	154.72	360	ePKP	43	35.90	8.7X
	1.0s	12.00nm				
LPL	155.07	351	ePKP	43	37.90	9.9X
	1.0s	6.00nm				
LPG	155.08	351	ePKP	43	37.90	9.8X
	0.8s	4.05nm				
LIC	164.12	156	PKP	43	38.70	0.3
KIC	164.35	157	PKP	43	38.60	-0.1

				e	46	00.00	
CHG	24.28	352	eP	46	52.50	-0.5	
CHTO	24.28	352	eP	46	52.00	-1.0	
	0.9s			2.34nm			3.7mb
ASPA	35.22	124	eP	48	30.70	-0.4	
	0.9s			2.10nm			4.1mb
PKI	36.70	334	P	48	44.06	0.3	
GUN	36.79	335	P	48	45.34	0.7	
DMN	36.86	334	P	48	47.56	2.5X	
KKN	36.94	334	P	48	45.76	0.0	
GKN	37.41	333	P	48	50.00	0.4	
	S. D. = 0.7	on		8 of	10 obs.		
<hr/>							
&	OCT 08, 1991	23h	58m	44.65s			
	60.226 N			153.512 W			
	DEPTH = 177.1km						
	SOUTHERN ALASKA						(2)
	<AEIC>.						
INW	0.25	130	iPc	59	07.67	0.6	
			eS	59	25.02		
INE	0.28	126	iPc	59	07.74	0.5	
			S	59	26.41		
RED	0.42	62	iPc	59	07.97	0.4	
			S	59	25.97		
RS1	0.44	58	iPc	59	08.45	0.7	
			eS	59	27.14		
RS2	0.44	57	iPc	59	08.43	0.6	
			eS	59	27.63		
RSD	0.45	58	iPc	59	08.37	0.6	
			S	59	27.93		
RDN	0.47	52	eP	59	08.36	0.6	
REF	0.48	56	iPc	59	08.54	0.6	
OPT	0.59	166	iPc	59	09.06	-0.8	
			S	59	27.76		
RDT	0.65	57	iPc	59	08.95	-1.2	
			S	59	29.18		
AUL	0.85	177	eP	59	10.54	-0.7	
			eS	59	30.63		
AUW	0.86	179	ePc	59	10.76	-0.6	
AUI	0.89	177	eP	59	10.32	-1.3	
			eS	59	30.39		
HOM	1.10	120	eP	59	12.74	-0.3	
NNL	1.12	98	ePc	59	13.05	-0.3	
MNCL	1.12	202	ePd	59	12.39	-0.9	
CKL	1.13	30	iPc	59	12.80	-0.7	
			eS	59	34.73		
BGL	1.18	27	iPc	59	13.42	-0.5	
XLV	1.19	130	ePc	59	12.71	-1.2	
CRP	1.24	32	eP	59	13.52	-1.0	
NKA	1.24	64	ePc	59	14.65	0.4	
CGLM	1.31	34	iPc	59	14.12	-0.9	
CNPM	1.35	120	iPc	59	14.38	-0.9	
			eS	59	37.08		
NCG	1.36	29	eP	59	14.79	-0.7	
SVW	1.36	311	ePc	59	14.30	-1.2	
BRLK	1.40	108	eP	59	15.16	-0.6	
SLKM	1.66	79	eP	59	16.46	-1.8	
SYI	1.72	160	eP	59	17.82	-1.0	
SUA	1.84	46	ePc	59	18.57	-1.7	
SKT	2.01	28	ePd	59	21.06	-0.9	
			S	59	48.98		
SEW	2.03	92	eP	59	20.56	-1.6	
PMS	2.19	61	ePc	59	22.25	-1.8	
PLRM	2.54	55	eP	59	26.20	-1.8	
CUT	2.69	34	eP	59	28.30	-1.5	
GHO	2.72	53	ePd	59	27.85	-2.5	
KNK	2.75	62	ePd	59	28.05	-2.5	
LTI	2.84	91	iPd	59	30.63	-1.0	

SDG	4.47	56	eP	59	51.55	-0.8		
HMT	4.61	85	eP	59	52.56	-1.6		
PAX	4.73	51	eP	59	54.45	-1.3		
NEA	4.83	23	eP	59	54.35	-2.6		
GLB	4.90	71	eP	59	55.15	-2.8		
WRH	4.95	28	eP	59	56.32	-2.3		
CROM	5.16	80	eP	00	00.45	-1.0		
CCB	5.17	28	eP	59	59.15	-2.2		
HDA	5.19	33	eP	59	59.57	-2.1		
TGL	5.31	80	eP	00	02.13	-1.3		
MDM	5.34	25	ePd	00	01.50	-2.2		
GLM	5.55	28	ePd	00	04.49	-2.0		
BALM	5.56	77	ePc	00	05.90	-0.8		
YAH	5.85	84	eP	00	09.83	-0.8		
CTGM	6.05	78	eP	00	12.43	-0.7		
SDN	6.16	220	eP	00	15.24	0.9		
69 obs. associated								

OCT 09, 1991	00h	14m	37.49 ± 0.35s					
44.342 N ± 3.3km				7.535 E ± 2.9km				
DEPTH = 10.0km				(geophysicist)				
NORTHERN ITALY				(545)				
ML 2.5 (GEN).								

ENR	0.14	216	P	14	40.25	-0.7		
			S	14	42.41			
STV	0.18	237	P	14	41.14	-0.4		
			S	14	43.91			
ROB	0.25	101	P	14	42.99	0.2		
			S	14	46.88			
DOI	0.26	308	Pd	14	43.30	0.2		
			eSg	14	47.70			
PZZ	0.35	298	P	14	44.73	0.0		
			S	14	50.37			
AUTN	0.35	193	Pg	15	02.31	17.4X		
			Sg	15	10.62			
SAOF	0.36	178	Pg	15	02.39	17.6X		
			Sg	15	11.41			
TOUF	0.39	212	Pg	15	02.32	16.8X		
AURF	0.48	198	Pg	15	00.06	12.8X		
FIN	0.50	105	P	14	47.50	-0.2		
			S	14	54.78			
IMI	0.50	149	P	14	47.29	-0.4		
			S	14	54.57			
MVIF	0.52	212	Pg	15	00.22	12.1X		
			Sg	15	07.24			
BHB	0.54	339	P	14	48.25	-0.1		
			S	14	56.05			
CKI	0.54	81	P	14	48.30	-0.1		
			eSg	14	55.50			
REVF	0.61	191	Pg	14	57.85	8.0X		
CALN	0.75	219	Pg	14	58.92	6.6X		
PCP	0.75	74	P	14	52.73	0.5		
			S	15	03.39			
RRL	0.79	317	P	14	52.93	-0.1		
			S	15	03.49			
RSP	0.83	346	P	14	53.14	-0.5		
			S	15	04.21			
BNI	0.94	320	P	14	55.50	0.0		
			eSg	15	07.90			
LSD	1.15	347	P	14	58.67	-0.5		
ORX	1.33	14	P	15	02.47	0.4		
CDR	1.44	243	e(Pg)	15	05.20	1.6		
			e(Sg)	15	23.50			
			e	15	24.20			
PGF	2.09	149	Pn	15	16.58	3.5X		
S.D. = 0.6 on 16 of 24 obs.								

& OCT 09, 1991	01h	01m	01.22s					
63.020 N								

SCM	1.25	162	iPd	01	23.85	-0.5	ZON	1.42	286	iPd	10	16.50	-0.2	4.0mb (2 obs.) SOUTHERN IRAN (353)						
SDG	1.29	111	ePd	01	24.67	-0.4	JACH	3.07	255	iP	10	36.50	1.6							
			eS	01	42.47		PEL	3.28	248	iPc	10	39.40	0.4	SHI	1.05	87	eP	38	48.00	-0.2
TOA	1.29	134	iPd	01	25.80	0.7				iS	11	17.00					eS	39	01.00	
BWN	1.30	333	ePc	01	24.98	-0.2	PCH	3.35	239	iPc	10	40.70	0.7	DHR	3.44	198	eP	39	58.00	35.8X
			eS	01	42.58		SAN	3.38	243	eP	10	40.00	-0.3	RYD	6.41	222	eP	40	05.00	0.7
GHO	1.31	197	iPd	01	24.59	-0.7	ROCH	3.48	252	iP	10	41.50	-0.4				eS	41	10.00	
KTH	1.37	294	ePd	01	26.50	0.2	CHCH	3.61	236	iP	10	44.00	0.7	MJMA	6.51	237	ePc	40	06.00	0.3
			eS	01	41.96		TACH	3.67	241	eP	10	44.00	-0.2				eS	41	20.00	
WRH	1.46	1	ePc	01	27.30	-0.1	LCCH	4.09	247	iP	10	48.30	-1.2	QASM	7.72	245	ePc	40	22.00	-0.7
			eS	01	46.88		LNV	4.16	240	iP	10	49.50	-1.0	UQSK	8.80	247	ePc	40	37.00	-0.6
HDA	1.49	20	ePc	01	28.14	0.3	CNCB	15.09	357	P	13	22.00	7.4X				eS	42	00.00	
DJE	1.49	46	eP	01	28.96	1.0	LPB	15.37	356	P	13	18.00	0.1	AFIF	9.09	235	eP	40	46.50	4.8X
PLRM	1.51	198	ePd	01	27.62	-0.5	ZOBO	15.63	356	P	13	16.00	-5.3X	HFS	39.59	331	eP	45	59.50	0.2
			eS	01	47.94		S.D. = 0.9 on 12 of 14 obs.						0.4s 2.80nm 4.4mb							
PMR	1.51	198	eP	01	28.00	-0.1	OCT 09, 1991 02h 21m 16.70± 0.34s							NB2	41.11	332	P	46	12.00	0.2
TZL	1.59	127	eP	01	30.13	0.8	39.048 N ± 3.2km 29.616 E ± 2.9km							0.4s 0.60nm 3.7mb						
PWA	1.60	211	eP	01	29.70	0.3	DEPTH = 8.5 ± 2.0 km							S.D. = 0.6 on 7 of 9 obs.						
NEA	1.62	345	eP	01	29.11	-0.6	3.6mb (1 obs.)							OCT 09, 1991 03h 09m 17.96± 1.64s						
KNK	1.62	185	ePd	01	29.65	-0.2	TURKEY (366)							45.083 N ± 6.9km 126.112 W ± 12.1km						
			eS	01	50.64		MD 4.4 (THE). Felt at Kutohya.							DEPTH = 10.0km (geophysicist)						
CCB	1.64	5	ePc	01	29.65	-0.4	ALT	0.38	89	iPn	21	23.00	-1.6	OFF COAST OF OREGON (30)						
			eS	01	51.99		IZI	1.29	355	iPn	21	40.90	0.1	MD 3.0 (SEA).						
KLU	1.85	145	ePd	01	33.28	0.1	GPA	1.35	23	iPn	21	41.60	-0.1	KMOR	1.93	72	Pc	09	49.79	-1.4
			eS	01	57.82		YLV	1.53	353	iPn	21	44.70	0.4	NLO	2.12	61	Pc	09	53.59	-0.4
SKT	1.89	238	ePc	01	33.52	-0.2	GBZT	1.74	356	ePn	21	47.50	0.2	ONR	2.43	41	P	09	58.25	0.0
FBA	1.89	4	eP	01	33.00	-0.7				ePg	21	51.00		BMW	2.45	54	P	09	57.94	-0.8
PMS	1.90	201	eP	01	34.15	0.2				iSg	22	12.00		RVW	2.59	65	P	10	00.14	-0.5
MDM	1.95	359	ePc	01	34.12	-0.4	BCK	1.76	154	iPn	21	47.70	0.0	PGO	2.61	80	P	10	01.36	0.4
			eS	01	59.59		HRT	1.77	1	iPn	21	48.00	0.2	HSO	2.67	125	P	10	00.82	-1.0
SUA	1.98	219	ePc	01	35.39	0.2	EDC	1.87	314	iPn	21	49.70	0.5	OBH	2.73	34	P	10	02.71	0.0
GLM	2.00	9	eP	01	35.43	0.1	CIN	1.88	220	eP	21	49.00	-0.3	LVP	2.78	68	P	10	03.68	0.2
			eS	02	01.62		IZM	1.95	251	iPn	21	50.10	-0.3	CPW	2.81	47	P	10	03.11	-0.6
VLZ	2.08	155	eP	01	36.28	-0.1	ISK	2.06	348	iPn	21	51.90	0.0	CZM	2.86	61	Pc	10	03.75	-0.8
			eS	02	03.96		ITU	2.11	348	iPnd	22	01.00	8.4X	FL2	2.86	66	P	10	04.29	-0.4
VZW	2.10	159	eP	01	38.24	1.4				iSg	23	32.00		MTMW	2.90	70	P	10	04.88	-0.2
GLI	2.20	167	eP	01	39.26	1.0	YER	2.18	209	iPn	21	53.60	-0.2	VLMM	2.91	80	P	10	05.40	0.2
FID	2.41	160	eP	01	42.45	1.3	KGT	2.27	309	iPn	21	55.40	0.4	SHW	2.94	66	P	10	05.71	0.1
NCG	2.49	231	eP	01	43.10	0.8	CTT	2.29	337	iPn	21	55.30	0.1	SMW	2.95	40	P	10	05.43	-0.3
CGLM	2.50	228	eP	01	43.13	0.6	MFT	2.50	315	ePn	21	58.40	0.1	STD	2.96	66	P	10	05.72	-0.3
GLB	2.57	126	eP	01	45.15	1.7	BBTK	2.56	71	eP	22	02.00	2.8	HSR	2.96	67	P	10	06.44	0.4
BGL	2.67	230	eP	01	46.94	2.0	EZN	2.66	288	iPn	22	01.10	0.5	ODW	2.97	26	Pc	10	06.78	0.8
KNIM	2.69	176	ePd	01	46.38	1.2	DMK	3.11	333	iPn	22	06.80	-0.1	JLK	2.98	68	P	10	06.25	0.1
CKL	2.69	229	eP	01	47.65	2.3	ALN	3.31	305	ePn	22	10.20	0.6	ESD	2.99	67	P	10	06.71	0.2
SLKM	2.71	202	eP	01	47.05	1.6				eSn	23	01.72		TDL	3.01	64	P	10	06.44	-0.2
CVA	2.73	154	eP	01	47.14	1.5	KAS	3.93	53	eP	22	27.50	8.8X	SOSW	3.02	66	P	10	06.88	0.1
SGAM	2.89	150	eP	01	49.33	1.4	JMB	4.12	327	eP	22	22.00	0.8	CDFW	3.03	69	P	10	07.33	0.4
SEW	2.99	193	eP	01	51.58	2.2	KDZ	4.13	310	iPd	22	22.00	0.6	KOSW	3.07	62	P	10	07.00	-0.5
RAGM	3.11	147	eP	01	52.18	1.0	DIM	4.32	315	iP	22	24.00	-0.1	LMW	3.10	58	P	10	07.83	-0.1
HMT	3.26	144	eP	01	54.77	1.4	OUR	4.53	288	ePnc	22	27.20	0.1	VLL	3.15	81	P	10	09.08	0.4
CROM	3.28	132	eP	01	54.78	1.1	RZN	4.58	307	iP	22	28.00	0.1	APM	3.19	77	P	10	09.77	0.6
BALM	3.38	124	eP	01	56.68	1.7	PAIG	4.68	283	ePn	22	29.08	-0.1	OSD	3.21	30	Pd	10	09.92	0.4
TGL	3.39	130	eP	01	56.57	1.5	PLD	4.83	311	iP	22	31.00	-0.3	VBEM	3.21	89	P	10	10.25	0.7
TTA	3.60	272	eP	02	00.40	2.3	SRS	5.06	296	ePnc	22	34.48	-0.2	MEW	3.21	47	P	10	08.64	-0.7
CNPM	3.81	205	eP	02	00.69	-0.4	SOH	5.13	292	ePnc	22	35.72	0.1	GULW	3.29	74	P	10	11.52	0.9
IMA	3.89	324	eP	02	01.60	-0.6	PVL	5.27	324	iPd	22	38.00	0.4	VFP	3.29	84	P	10	11.33	0.5
52 obs. associated							KVT	5.33	66	ePn	22	39.00	0.4	GHW	3.31	52	P	10	11.14	0.2
* OCT 09, 1991 02h 06m 16.28± 4.18s 17.633 N ± 29.2km 66.801 W ± 9.9km DEPTH = 10.0km (geophysicist) PUERTO RICO REGION (90)							PGB	5.42	312	iP	22	39.00	-0.7	HDW	3.33	38	P	10	11.15	0.0
PORP	0.45	20	P	06	26.00	0.6	KNT	5.57	294	ePnc	22	42.00	0.2	ASR	3.35	70	P	10	11.62	0.1
			S	06	30.70		LIT	5.61	283	ePn	22	41.92	-0.4	GMW	3.38	42	P	10	11.21	-0.6
MGP	0.46	324	P	06	27.00	1.3	TLB	5.66	348	ePd	22	42.50	-0.5	RVC	3.43	56	P	10	12.75	0.1
			S	06	36.20		AGG	5.67	272	ePn	22	43.52	0.2	LON	3.43	59	P	10	12.49	-0.2
CLLP	0.49	26	P	06	26.30	0.0	KKB	5.72	302	iPd	22	44.00	0.0	REMR	3.45	58	P	10	12.92	0.0
			S	06	31.90		VTS	6.01	308	iP	22	48.00	-0.2	GLK	3.48	63	P	10	13.49	0.1
LRS	0.66	356	P	06	28.20	-1.2	CFR	6.23	350	eP	22	49.00	-2.0	STW	3.50	28	Pd	10	14.32	0.8
SJG	0.78	52	iP	06	31.90	0.4	ISR	6.50	340	ePd	22	55.00	0.1	FMW	3.60	58	P	10	15.02	-0.2
APR	0.82	5	P	06	34.90	2.8X	FNA	6.57	288	ePn	22	56.68	0.7	GSM	3.67	53	P	10	16.23	0.1
MCP	0.84	339	P	06	31.40	-1.0	MLR	6.99	338	ePc	23	02.00	0.1	VGB	3.79	82	e(P)	10	19.39	1.7
LPR	1.11	53	P	06	37.00	-0.2	CMP	7.08	333	ePc	23	02.00	-1.1	RMW	3.82	50	P	10	18.25	0.1
S.D. = 1.1 on 7 of 8 obs.							VRI	7.14	344	iPc	23	03.50	-0.4	GL2	3.82	75	P	10	17.52	-0.7
? OCT 09, 1991 02h 09m 47.43± 3.94s 31.939 S ± 26.1km 67.075 W ± 52.4km DEPTH = 151.5 ± 20.2 km							CLI	7.69	348	eP	23	52.00	40.4X	NAC	4.04	64	P	10	21.60	0.4
SAN JUAN PROVINCE, ARGENTINA (137)							TNR	7.69	331	ePd	23	12.00	0.4	JCW	4.24	41	P	10	24.00	-0.1
CFA	1.05	288	iP	10	12.80	-0.3	BZS	8.84	321	eP	23	24.00	-3.5X	MCW	4.24	31	P	10	24.46	0.4
			S	10	27.00		NUR	21.71	353	eP	26	26.40	16.6X	EBG	4.27	63	P	10	24.66	0.1
							KAF	23.18	356	eP	26	35.20	10.9X	MXC	4.33	68	P	10	25.00	-0.4
							0.6s 2.70nm						RPW	4.62	42	P	10	29.13	-0.3	
							NB2	24.81	339	P	26	38.90	-1.3	EPH	5.06	61	P	10	35.29	-0.4
							0.7s 1.10nm 3.6mb						NEW	6.96	60	e(P)	11	02.80	0.4	
							S.D. = 0.7 on 45 of 51 obs.						S.D. = 0.5 on 55 of 55 obs.							
* OCT 09, 1991 02h 38m 29.62± 0.71s 29.591 N ± 11.6km 51.319 E ± 8.7km DEPTH = 33.0km (normal)							& OCT 09, 1991 03h 38m 40.43s 60.188 N 151.444 W DEPTH = 52.8km													

09d 03h

KENAI PENINSULA, ALASKA <AEIC>. ML 2.8 (AEIC).						POLAND ML 2.8 (WAR).						DEPTH = 10.0km (geophysicist) GULF OF ALASKA <AEIC>. ML 3.1 (AEIC).					
(14)						(548)						(15)					
NNL	0.16	153	ePc	38 49.89	0.9	KRA	0.66	109	ePg	05 25.60	-0.7	MID	0.69	287	eP	59 42.98	-2.5
			eS	38 56.98					iSg	05 35.10		KAIM	0.76	24	eP	59 43.54	-3.2
HOM	0.54	191	iPd	38 52.33	-0.1	SPC	1.37	142	ePn	05 39.20	0.8				eS	59 53.67	
			eS	39 01.24					i(Sg)	05 56.60		RAGM	1.17	9	eP	59 49.67	-4.1
NKA	0.57	10	ePc	38 54.29	1.6	KSP	1.80	289	iPg	05 45.00	0.6	HMT	1.17	19	iP	59 50.10	-3.7
RDT	0.62	309	iPd	38 52.79	-0.6				iS	06 08.50					S	00 05.21	
			eS	39 03.25		PRU	2.86	266	ePn	05 57.00	-2.6X	SGAM	1.27	356	eP	59 51.27	-4.2
CNPM	0.67	171	iPd	38 53.44	-0.6				ePg	06 06.30					eS	00 07.58	
			eS	39 04.12					e	06 21.00		CVA	1.36	345	iP	59 52.24	-4.6
SLKM	0.69	62	iPc	38 53.57	-0.7	KHC	3.68	254	eSg	06 40.50					eS	00 08.37	
			eS	39 04.55					ePn	06 10.50	-0.8	SNH	1.47	49	eP	59 54.63	-3.7
REF	0.69	296	iPd	38 53.89	-0.6				ePg	06 15.50		CYK	1.55	56	eP	59 56.43	-3.1
			eS	39 04.89					e	06 18.30					eS	00 13.63	
RED	0.70	290	iPc	38 53.83	-0.7				Sg	07 07.50		LTI	1.64	301	eP	59 54.99	-5.8
			eS	39 04.79					S.D. = 1.5	on 4 of 5 obs.		WAX	1.65	41	iP	59 56.89	-4.1
RSO	0.71	293	iPc	38 54.08	-0.6										eS	00 15.90	
			eS	39 05.10		% OCT 09, 1991 06h 33m 00.17± 0.70s						FID	1.68	335	eP	59 57.15	-4.3
RS1	0.71	293	iPc	38 54.13	-0.6	39.323 N ± 5.9km 27.638 E ± 7.2km									eS	00 16.26	
RS2	0.71	293	iPc	38 54.14	-0.6	DEPTH = 10.0km (geophysicist)						KNIM	1.76	311	eP	59 56.35	-6.2
			eS	39 05.18		TURKEY (366)						CROM	1.80	31	iP	59 59.55	-3.8
RDN	0.73	297	iPd	38 54.10	-0.9							TGL	1.89	35	eP	00 00.53	-4.0
			eS	39 05.11		IZM	0.97	198	iPg	33 18.60	0.0	GLI	1.94	329	eP	00 00.99	-4.2
XLV	0.75	191	iPd	38 53.97	-1.1				iSg	33 31.60		VZW	1.98	338	eP	00 01.20	-4.6
			eS	39 05.37		EDC	1.04	10	ePn	33 19.50	-0.2				eS	00 25.59	
INE	0.82	262	iPc	38 55.21	-0.9	EZN	1.13	297	ePn	33 21.40	0.1	VLZ	2.01	342	iP	00 01.42	-4.7
			eS	39 07.21		KGT	1.16	347	ePn	33 22.40	0.6	YAH	2.02	54	iP	00 02.50	-4.0
INW	0.85	263	iPc	38 55.71	-0.8	MFT	1.49	350	ePn	33 26.50	-0.5	BALM	2.26	36	iP	00 05.65	-4.2
			eS	39 08.37		IZI	1.74	54	ePn	33 31.00	0.3	GLB	2.30	15	iP	00 06.07	-4.3
SEW	1.00	94	ePc	38 57.23	-1.2	YLV	1.82	46	ePn	33 31.80	-0.1	KLU	2.31	350	iP	00 05.94	-4.6
			eS	39 11.11		CTT	1.92	18	ePn	33 33.00	-0.2				eS	00 31.73	
OPT	1.05	240	iPc	38 58.16	-0.9				S.D. = 0.4	on 8 of 8 obs.		CTGM	2.54	45	eP	00 09.85	-4.1
			eS	39 13.18								KNK	2.77	324	eP	00 12.38	-4.6
CKL	1.10	337	iPd	38 59.35	-0.6	OCT 09, 1991 06h 58m 27.27± 0.92s						TZL	2.83	356	iP	00 14.11	-3.7
CRP	1.14	342	eP	39 00.04	-0.4	31.985 N ± 7.7km 137.813 E ± 6.5km						SCM	2.84	338	eP	00 13.41	-4.7
			eS	39 16.04		DEPTH = 391.1 ± 9.8 km						SLKM	2.91	298	eP	00 13.58	-5.4
CGLM	1.16	346	iPd	39 00.19	-0.5	4.6mb (17 obs.)						TOA	2.93	350	eP	00 15.43	-4.0
BGL	1.18	337	ePd	39 00.51	-0.4	SOUTH OF HONSHU, JAPAN (211)						SML	3.05	329	eP	00 14.83	-6.2
NCG	1.27	344	iPd	39 01.80	-0.4							SDG	3.31	356	eP	00 20.31	-4.5
			eS	39 19.23		MAT	4.56	4	iPd	59 44.90	0.1	PAX	3.75	357	eP	00 26.19	-4.9
AUE	1.28	230	iPc	39 01.38	-0.9				iS	00 43.40							
AUL	1.29	232	ePc	39 01.57	-0.9	TIA	17.64	289	eP	02 09.30	-0.1						
AUP	1.30	231	eP	39 01.81	-0.8	TIY	21.57	292	iPc	02 48.40	0.7						
AGU	1.30	231	eP	39 01.91	-0.8				0.8s	44.00nm	4.9mb						
AUH	1.31	232	ePc	39 01.92	-0.8	HHC	22.84	300	eP	02 59.80	0.3	? OCT 09, 1991 07h 20m 50.85± 1.35s					
AUW	1.31	232	ePc	39 01.89	-0.8	XAN	24.28	283	iPd	03 12.00	-0.7	41.401 N ± 9.7km 24.975 E ± 10.1km					
AUI	1.32	230	eP	39 01.91	-0.9				0.6s	49.00nm	5.1mb	DEPTH = 10.0km (geophysicist)					
SUA	1.33	15	eP	39 04.01	1.0	LZH	28.36	288	eP	03 48.50	-0.7	GREECE-BULGARIA BORDER REGION (363)					
PMS	1.41	40	ePc	39 03.67	-0.4				1.5s	34.00nm	4.5mb	RZN	0.35	326	iPg	20 58.00	-0.1
PWA	1.66	27	eP	39 06.85	-0.6	CD2	29.01	277	P	03 54.00	-0.8	KDZ	0.41	53	iPg	20 59.00	-0.3
SYI	1.66	197	eP	39 06.31	-1.2				0.7s	16.00nm	4.5mb	PLD	0.73	344	ePg	21 12.00	6.8X
CDD	1.69	223	ePc	39 06.90	-1.1	GTA	31.56	294	Pd	04 16.60	-0.4	DIM	0.77	33	ePg	21 06.00	0.1
SKT	1.80	359	ePd	39 09.24	-0.3				0.8s	21.00nm	4.5mb	ALN	0.95	122	eP	21 08.20	-0.8
LTI	1.80	93	ePc	39 07.54	-2.1	CHTO	37.28	259	eP	05 05.70	0.6	PGB	1.30	333	iPg	21 22.00	7.1X
PLRM	1.81	38	iPc	39 08.32	-1.3				1.0s	11.75nm	4.2mb	KKB	1.49	289	iP	21 28.00	10.3X
KNIM	1.86	83	eP	39 07.62	-2.7	BDT	37.99	257	eP	05 11.00	0.1	VTS	1.77	313	iPg	21 33.00	11.1X
KNK	1.91	49	iPc	39 09.84	-1.3				0.7s	24.90nm	4.7mb	MFT	1.85	109	ePn	21 23.80	0.9
GHO	2.01	37	eP	39 11.12	-1.5	GUN	44.84	279	P	06 07.12	0.7	DMK	2.13	78	ePn	21 27.10	0.2
SML	2.22	42	eP	39 14.15	-1.4				0.6s	107.00nm	5.3mb						
GLI	2.26	70	iPc	39 12.89	-3.2	PKI	45.34	279	P	06 10.28	-0.1						
CUT	2.30	14	eP	39 16.01	-0.5				0.7s	33.00nm	4.8mb						
FID	2.52	75	iPc	39 16.11	-3.7	KKN	45.38	279	P	06 10.82	0.3						
SCM	2.60	49	eP	39 19.30	-1.6				0.8s	77.00nm	5.1mb						
VLZ	2.69	67	eP	39 19.49	-2.6	DMN	45.58	279	P	06 12.28	0.1						
KLU	3.00	62	iPc	39 24.27	-2.5	GKN	45.85	279	P	06 14.36	0.3						
TOA	3.20	51	ePc	39 27.86	-1.6				0.7s	55.00nm	5.0mb						
						WRA	51.74	184	P	06 57.00	-1.3						
									0.3s	8.10nm	4.5mb	BCK	1.44	334	iPn	18 15.50	0.3
						WR2	51.74	184	iPc	06 58.60	0.3	LFK	1.96	117	iPn	18 26.90	4.7X
									0.3s	7.20nm	4.5mb	KHL	2.61	326	iPn	18 31.60	0.4
						HYB	55.14	270	eP	07 23.00	-0.1	YER	2.68	292	iPn	18 33.10	1.0
						ASPA	55.46	184	iPc	07 25.70	0.6	CIN	3.01	299	eP	18 37.00	0.4
									1.6s	5.90nm	3.7mb	ALT	3.05	341	iPn	18 37.50	0.2
						INK	60.22	25	eP	07 56.50	-0.7	BBTK	3.82	16	eP	18 49.00	1.0
						MBC	62.18	15	ePc	08 10.00	-0.1						

EZN 5.41 314 ePn 19 10.20 0.0
 KAS 5.51 19 eP 19 39.00 27.4X
 MFT 5.62 326 ePn 19 13.00 -0.2
 MKT 6.08 148 eP 19 18.50 -1.0
 eS 20 21.60
 KVT 6.10 35 eP 19 13.00 -6.8X
 KOT 6.24 177 ePn 19 22.00 0.4
 eSn 20 26.50
 HLW 6.30 180 ePn 19 24.50 2.0
 eSn 20 31.00
 DMK 6.31 334 eP 19 22.10 -0.5
 MBH 7.02 154 eP 19 30.30 -2.3
 GRC1 19.38 318 eP 22 11.70 -0.6
 0.8s 31.00nm 4.6mb
 MOX 20.30 322 iPd 22 22.00 0.1
 1.3s 19.00nm 4.3mb
 NB2 28.00 339 P 23 36.80 1.5
 0.5s 0.60nm 3.5mb
 YKA 77.94 345 eP 29 40.50 -0.2
 0.5s 1.40nm 4.1mb
 S.D. = 1.0 on 26 of 29 obs.

& OCT 09, 1991 10h 30m 30.45s
 59.743 N 152.685 W
 DEPTH = 87.7km
 SOUTHERN ALASKA (2)
 <AEIC>.

OPT 0.29 252 iPc 30 43.03 -0.8
 eS 30 52.64
 INE 0.37 329 eP 30 43.89 -0.6
 eS 30 53.87
 INW 0.40 325 ePc 30 43.76 -0.8
 eS 30 54.54
 AUE 0.52 223 eP 30 44.55 -0.8
 eS 30 55.24
 AUL 0.53 227 ePd 30 44.67 -0.7
 eS 30 55.67
 AUP 0.53 225 iPd 30 44.87 -0.7
 eS 30 56.13
 HOM 0.53 99 iPc 30 45.15 -0.3
 eS 30 57.03
 AGU 0.54 225 eP 30 44.73 -0.9
 AUH 0.54 226 eP 30 44.87 -0.7
 eS 30 55.15
 AUW 0.55 227 iPd 30 44.82 -0.7
 eS 30 56.18
 AUI 0.56 223 eP 30 44.87 -0.8
 eS 30 55.51
 XLV 0.57 120 iPc 30 44.97 -0.8
 eS 30 56.49
 RED 0.68 356 iPd 30 46.11 -0.8
 eS 30 57.97
 RS1 0.72 357 ePd 30 46.80 -0.6
 eS 30 59.35
 RSO 0.72 357 ePd 30 46.76 -0.7
 eS 30 59.29
 RS2 0.72 357 ePd 30 46.85 -0.6
 eS 30 59.34
 REF 0.75 359 iPd 30 47.06 -0.7
 eS 30 59.50
 >NNL 0.76 66 ePc 30 47.96 0.3
 CNPM 0.77 106 iPc 30 47.00 -0.7
 eS 30 59.73
 RDN 0.77 357 ePd 30 47.30 -0.6
 eS 31 00.15
 RDT 0.85 9 iPd 30 47.74 -0.9
 eS 31 01.09
 BRK 0.91 88 eP 30 48.05 -1.2
 eS 31 02.72
 CDD 0.95 211 ePd 30 48.41 -1.4
 SYI 1.15 172 eP 30 51.24 -0.8
 NKA 1.24 35 eP 30 55.11 2.0
 SLKM 1.45 57 eP 30 55.76 -0.2
 CKL 1.47 7 ePd 30 55.72 -0.5
 BGL 1.53 5 ePd 30 56.62 -0.4
 CGLM 1.61 12 ePd 30 57.55 -0.4
 SEW 1.67 76 eP 30 57.96 -0.7
 NCG 1.69 9 ePd 30 58.66 -0.4
 SUA 1.97 28 eP 31 03.14 0.2
 PMS 2.16 44 eP 31 04.90 -0.4
 SKT 2.32 14 eP 31 07.09 -0.3
 PWA 2.36 35 eP 31 07.72 -0.2
 LTI 2.45 81 eP 31 08.00 -1.3
 PLRM 2.55 42 eP 31 09.43 -1.1
 KNIM 2.56 74 ePc 31 08.47 -2.2
 KNK 2.68 49 eP 31 10.79 -1.6

CUT 2 92 23 eP 31 15.08 -0.5
 FID 3.25 69 eP 31 17.37 -2.9
 41 obs. associated
 ? OCT 09, 1991 11h 42m 41.64±11.86s
 38.137 N ±87.3km 22.429 E ±39.0km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 MD 2.5 (THE).
 AGG 0.89 355 ePgc 42 58.74 0.1
 eSg 43 02.66
 LIT 1.96 1 ePbd 43 15.18 -0.1
 eSb 43 34.30
 PAIG 2.04 28 ePb 43 16.42 0.1
 eSb 43 33.98
 OUR 2.50 28 ePbd 43 23.10 0.1
 SOH 2.77 15 ePnd 43 26.98 0.0
 GRC 2.82 360 ePn 43 27.74 0.2
 KNT 3.04 7 ePnc 43 30.58 -0.1
 SRS 3.11 16 ePnd 43 31.38 -0.2
 S.D. = 0.2 on 8 of 8 obs.

? OCT 09, 1991 12h 08m 38.62±7.72s
 32.295 S ±61.2km 71.145 W ±22.0km
 DEPTH = 33.0km (normol)
 NEAR COAST OF CENTRAL CHILE (135)

JACH 0.61 130 iPd 08 50.80 0.0
 iS 09 05.50
 ROCH 0.68 171 eP 08 53.00 1.0
 PEL 0.93 155 iPd 08 55.60 0.2
 iS 09 13.50
 LCCH 1.23 197 iPc 09 00.00 0.4
 iS 09 21.70
 TACH 1.37 173 iP 09 01.60 0.0
 iS 09 25.30
 PCH 1.42 158 eP 09 02.00 -0.5
 iS 09 25.00
 LNV 1.67 188 iP 09 05.00 -0.9
 iS 09 32.20
 CHCH 1.68 166 iP 09 06.00 -0.2
 iS 09 32.70
 S.D. = 0.7 on 8 of 8 obs.
 OCT 09, 1991 12h 19m 18.53±0.31s
 0.904 N ±5.6km 87.389 W ±5.1km
 DEPTH = 10.0km (geophysicist)
 5.0mb (20 obs.) 5.0Msz (6 obs.)
 GALAPAGOS ISLANDS REGION (696)
 Mo=1.6*10**17 Nm (PPT).
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 24S, 50C
 Centroid Location:
 Origin Time 12:19:21.7 0.3
 Lat 0.77N 0.04 Lon 87.42W 0.05
 Dep 15.0 FIX Half-duration 2.1
 Moment Tensor: Scale 10**17 Nm
 Mrr=-0.32 0.06 Mtt=1.58 0.05
 Mff=-1.26 0.07 Mrt=0.00 0.00
 Mrf=0.00 0.00 Mtf=0.67 0.06
 Principal Axes:
 T Vol= 1.73 P1g= 0 Azm=167
 N -0.32 90 180
 P -1.41 0 77
 Best Double Couple:Mo=1.6*10**17
 NP1:Strike=212 Dip=90 Slip=-180
 NP2: 302 90 0

ANCC 10.83 76 eP 21 53.20 -3.6X
 HOOC 11.04 77 eP 21 57.80 -2.1
 PURC 11.11 83 ePc 22 01.90 0.8
 UPA 11.20 44 eP 22 03.20 1.4
 HOBC 11.75 73 eP 22 07.70 -1.7
 BOG 13.81 74 eP 22 38.00 0.9
 eS 25 22.00
 FUD 14.36 71 eP 22 39.50 -4.9X
 BMG 15.53 66 eP 23 00.00 0.5
 PT10 16.53 142 e(P) 23 14.50 2.3
 NNA 16.55 141 eP 23 11.70 -0.7
 1.3s 63.46nm 4.6mb
 SDV 18.47 64 eP 23 37.30 0.7
 OXX 18.52 331 (P) 23 41.50 4.3X
 TOV 19.60 63 eP 23 49.20 -1.0
 ACX 20.06 323 (P) 23 58.00 3.0X
 IISM 20.47 332 (P) 24 01.50 2.3

IIT 20.95 330 (P) 24 06.50 2.0
 PPM 21.15 329 (P) 24 05.00 -1.8
 MRX 23.06 325 (P) 24 28.50 3.3X
 ARE 23.32 138 eP 24 30.00 1.8
 ZOBO 25.55 133 P 24 48.20 -1.8
 1.1s 103.83nm 5.4mb
 Z 20s 4.32um 5.0Msz
 S 29 24.00
 LR 33 26.00
 LPB 25.74 133 P 24 53.00 1.4
 1.1s 101.27nm 5.4mb
 Z 19s 9.72um 5.4Msz
 S 29 25.00
 LR 33 50.00
 CNCB 26.00 133 iPd 24 53.90 -0.3
 MGP 26.20 48 P 24 56.80 1.4
 PORP 26.57 49 P 25 00.00 1.2
 CLLP 26.63 49 P 25 02.50 3.2X
 CPD 27.11 50 P 25 04.00 0.3
 CCH 27.72 132 P 25 12.30 2.7
 SIV 30.94 124 P 25 37.00 -1.2
 GBTN 34.71 5 P 26 10.30 -0.4
 TKL 34.74 5 P 26 14.70 3.7X
 MEO 35.29 344 iPc 26 15.30 -0.4
 TUL 35.69 348 eP 26 18.20 -0.9
 1.4s 6.90nm 4.3mb
 Z 22s 2.32um 4.9Msz
 N 20s 1.23um
 E 22s 0.71um
 e 27 50.00
 e 32 03.00
 e 35 17.00
 LR 37 17.00
 BLA 36.70 9 P 26 27.60 0.0
 1.0s 30.00nm 5.0mb
 ACO 37.24 344 e(P) 26 32.70 0.5
 PEL 37.35 157 iPc 26 32.00 -1.2
 LNV 37.79 158 eP 26 34.00 -2.7
 CVL 37.80 12 P 26 36.60 -0.2
 ALQ 38.25 334 eP 26 41.00 0.1
 1.0s 18.50nm 4.8mb
 Z 18s 1.72um 4.9Msz
 ANMO 38.25 334 P 26 41.20 0.3
 1.0s 20.00nm 4.8mb
 GLA 41.08 324 eP 27 05.00 0.8
 PPD 41.93 125 (P) 27 10.00 -1.3
 BAR 41.93 322 eP 27 11.00 -0.2
 GLD 41.94 339 P 27 13.20 1.8
 1.2s 46.46nm 5.1mb
 GOL 41.95 339 P 27 10.80 -0.7
 1.0s 13.75nm 4.6mb
 PV09 42.40 334 P 27 14.80 -0.5
 PLM 42.51 322 eP 27 16.00 -0.1
 PEC 43.06 323 P 27 21.10 0.7
 RVR 43.26 323 eP 27 22.00 0.0
 SSK 43.60 323 P 27 25.90 0.9
 MSU 43.79 332 P 27 26.90 0.4
 GSC 43.83 325 eP 27 27.00 0.3
 MWC 43.83 322 eP 27 28.00 1.2
 SBB 44.00 323 eP 27 28.00 -0.1
 CLC 44.65 324 eP 27 33.00 -0.3
 DAU 44.90 334 P 27 35.80 0.2
 ISA 45.06 324 eP 27 37.00 0.4
 DUG 45.43 333 P 27 39.80 0.2
 RSSD 45.51 343 P 27 39.30 -0.9
 1.0s 13.56nm 4.9mb
 Z 20s 1.92um 5.0Msz
 BCH 45.71 322 P 27 42.30 0.4
 BW06 46.18 337 P 27 44.30 -1.3
 1.0s 11.67nm 4.8mb
 BONR 46.55 326 P 27 49.50 0.9
 HVU 46.68 334 P 27 49.00 -0.5
 CMB 47.79 325 P 28 00.00 1.8
 1.2s 19.44nm 5.1mb
 HPI 48.39 335 P 28 02.70 -0.3
 ORV 49.46 325 P 28 11.00 0.0
 LRM 49.86 337 eP 28 13.50 -0.8
 LBFM 50.90 327 P 28 26.10 3.9X
 SES 53.26 341 eP 28 38.00 -1.6
 NEW 53.71 336 P 28 41.30 -1.6
 0.8s 14.58nm 5.0mb
 DPW 53.86 335 P 28 47.10 3.1X
 FFC 54.96 350 eP 28 47.00 -5.0X
 1.2s 34.00nm 5.3mb
 BMW 55.14 330 P 28 52.70 -0.8
 PNT 55.57 335 eP 28 56.00 -0.5
 MCW 56.52 333 P 29 01.80 -1.6

09d 12h

INK 74.21 344 eP 30 56.00 -1.0
 PMR 76.10 334 P 31 00.00 -8.0X
 Z 20s 2.00um 5.4msz
 RSO 77.28 333 P 31 14.70 -0.2
 MBC 77.39 353 eP 31 14.50 -0.4
 1.0s 15.00nm 5.0mb
 IMA 79.73 338 eP 31 27.80 -0.3
 1.1s 5.50nm 4.5mb
 LIC 82.31 84 P 31 43.02 0.5
 1.0s 21.50nm 5.2mb
 TIC 82.32 83 P 31 41.06 -1.5
 1.1s 16.00nm 5.0mb
 KIC 82.59 84 P 31 44.48 0.5
 1.2s 29.00nm 5.3mb
 EKA 85.97 35 Pd 32 04.30 4.1X
 1.2s 20.10nm 5.2mb
 NVL 93.89 161 ePd 32 40.00 2.8
 ASPA 134.03 237 iPKPd 38 42.60 3.8X
 1.1s 5.30nm
 GKN 150.26 14 PKP 39 06.74 -0.3
 KKN 150.61 13 PKP 39 07.46 -0.2
 GUN 150.63 12 PKP 39 07.46 -0.4
 DMN 150.75 14 PKP 39 07.78 -0.2
 PKI 150.85 13 PKP 39 07.34 -0.9
 S.D. = 1.2 on 77 of 90 obs.

& OCT 09, 1991 14h 20m 16.03s
 59.941 N 139.092 W
 DEPTH = 15.5km
 SOUTHEASTERN ALASKA (19)
 <AEIC>. ML 3.0 (AEIC).

YKU 0.51 220 iP 20 25.53 -0.5
 eS 20 32.46
 YAH 1.39 289 eP 20 39.29 -1.7
 eS 20 56.86
 WRG 1.48 275 eP 20 39.81 -2.3
 eS 20 57.77
 CTGM 1.51 314 eP 20 40.69 -2.0
 eS 20 58.20
 WAX 1.95 287 eP 20 47.06 -1.8
 eS 21 10.40
 BALM 1.95 306 eP 20 46.60 -2.3
 eS 21 12.03
 TGL 2.03 295 eP 20 47.96 -2.2
 eS 21 12.83
 CROM 2.17 294 eP 20 50.60 -1.7
 eS 21 16.81
 GLB 2.77 305 eP 20 58.30 -2.3
 RAGM 2.83 282 eP 21 00.69 -0.7
 KLU 3.70 298 eP 21 12.07 -1.8
 11 obs. associated

& OCT 09, 1991 14h 34m 36.49s
 62.782 N 149.282 W
 DEPTH = 70.0km (geophysicist)
 CENTRAL ALASKA (1)
 <AEIC>

HUR 0.25 321 iPd 34 47.59 0.0
 eS 34 56.57
 CUT 0.59 231 iPd 34 50.31 -0.1
 RND 0.66 17 iPd 34 50.92 -0.3
 eS 35 02.49
 TRF 0.81 326 iPd 34 52.91 -0.2
 eS 35 05.66
 MCK 0.97 9 iPd 34 54.64 -0.2
 eS 35 08.88
 GH0 1.03 170 ePc 34 55.39 -0.3
 eS 35 10.62
 SML 1.07 155 ePc 34 55.77 -0.5
 eS 35 11.73
 KTH 1.07 317 iPd 34 56.28 0.0
 eS 35 11.65
 PWA 1.17 194 ePc 34 57.35 -0.1
 eS 35 14.55
 PLRM 1.20 177 iPd 34 57.55 -0.2
 eS 35 14.74
 SCM 1.32 135 ePd 34 59.12 -0.4
 eS 35 17.27
 SKT 1.32 233 ePc 34 59.07 -0.4
 eS 35 17.40
 BWN 1.40 357 ePd 34 59.85 -0.6
 KKN 1.43 164 ePd 35 00.46 -0.5
 eS 35 19.84
 SUA 1.49 208 iPd 35 01.94 0.1
 eS 35 22.07

PMS 1.55 185 ePd 35 01.95 -0.6
 TOA 1.60 114 ePd 35 03.48 0.2
 eS 35 24.11
 SDG 1.75 97 ePc 35 05.53 0.3
 eS 35 28.58
 PAX 1.76 82 iPd 35 05.56 0.1
 eS 35 27.41
 WRH 1.78 17 iPd 35 04.57 -1.1
 NEA 1.80 3 iPd 35 04.81 -1.2
 HDA 1.93 32 iPd 35 06.86 -1.0
 eS 35 31.40
 NCG 1.93 226 eP 35 07.95 0.0
 TZL 1.94 111 eP 35 08.05 0.1
 CGLM 1.96 222 eP 35 08.53 0.3
 CCB 1.98 19 iPd 35 07.18 -1.3
 KLU 2.04 128 eP 35 08.09 -1.3
 eS 35 33.78
 BGL 2.11 225 eP 35 10.92 0.5
 VLZ 2.16 139 eP 35 09.08 -1.9
 GLI 2.17 150 ePd 35 09.44 -1.7
 FBA 2.23 17 iPd 35 10.70 -1.1
 eS 35 37.33
 MDM 2.23 12 iPd 35 10.93 -1.1
 SLKM 2.33 192 eP 35 13.62 0.3
 GLM 2.37 20 iPd 35 12.62 -1.2
 FID 2.44 146 ePc 35 13.07 -1.7
 SEW 2.69 182 eP 35 17.99 -0.3
 LTI 2.84 165 ePc 35 18.56 -1.8
 GLB 2.90 115 eP 35 19.51 -1.8
 TTA 3.09 276 eP 35 22.69 -1.3
 INE 3.28 215 eP 35 26.14 -0.6
 CNPM 3.40 197 ePd 35 27.22 -1.1
 BALM 3.72 115 eP 35 30.37 -2.4
 42 obs. associated

& OCT 09, 1991 14h 59m 04.47s
 59.505 N 151.926 W
 DEPTH = 68.4km
 KENAI PENINSULA, ALASKA (14)
 <AEIC>. ML 3.2 (AEIC).

XLV 0.12 116 ePd 59 14.00 0.9
 eS 59 21.67
 HOM 0.21 43 iPd 59 14.90 -0.2
 eS 59 22.44
 CNPM 0.35 86 iPd 59 15.63 -0.4
 iS 59 24.21
 BRK 0.59 63 ePd 59 17.64 -0.6
 eS 59 28.28
 >NNL 0.63 30 iPd 59 19.07 0.4
 OPT 0.68 283 iPd 59 18.64 -0.6
 eS 59 30.30
 AUE 0.75 259 eP 59 19.05 -1.0
 AUP 0.78 260 ePc 59 19.84 -0.6
 eS 59 32.55
 AUL 0.78 262 eP 59 19.72 -0.7
 AGU 0.78 260 ePc 59 19.81 -0.8
 AUI 0.79 258 iPd 59 19.65 -0.8
 eS 59 31.67
 AUH 0.79 260 eP 59 19.76 -0.8
 AUW 0.80 261 ePc 59 20.16 -0.5
 INE 0.80 315 iPd 59 19.77 -1.1
 eS 59 31.54
 INW 0.83 313 ePc 59 20.25 -0.9
 eS 59 32.42
 SYI 0.93 195 ePc 59 21.12 -1.1
 eS 59 34.79
 RED 1.01 335 iPd 59 22.54 -0.8
 eS 59 36.47
 RS1 1.05 337 iPd 59 23.24 -0.7
 RSO 1.05 337 iPd 59 23.22 -0.7
 RS2 1.05 337 iPd 59 23.27 -0.7
 CDD 1.05 238 iPd 59 22.82 -1.1
 eS 59 37.74
 REF 1.06 339 iPd 59 23.40 -0.7
 RDN 1.10 338 iPd 59 23.75 -0.8
 RDT 1.10 348 iPd 59 23.58 -0.9
 eS 59 38.58
 NCT 1.17 335 ePd 59 24.87 -0.6
 MCNL 1.28 256 ePd 59 25.61 -1.2
 NKA 1.29 15 iPd 59 28.02 1.1
 SLKM 1.32 40 ePd 59 26.49 -0.9
 eS 59 44.49
 SEW 1.39 63 ePd 59 27.05 -1.2
 eS 59 44.77
 CKL 1.71 353 iPd 59 32.25 -0.5
 CRP 1.77 356 ePd 59 33.34 -0.3

BGL 1.78 353 ePd 59 33.41 -0.3
 KDC 1.79 190 ePn 59 31.55 -2.1
 CGLM 1.81 359 iPd 59 33.70 -0.4
 NCG 1.91 357 iPd 59 35.19 -0.3
 SUA 2.05 16 iPd 59 36.91 -0.6
 PMS 2.10 33 iPd 59 37.67 -0.5
 eS 00 02.01
 LTI 2.13 74 eP 59 37.74 -0.7
 KNIM 2.27 66 iPd 59 38.63 -1.8
 PWA 2.38 24 eP 59 41.31 -0.6
 SVW 2.44 313 Pn 59 40.10 -2.8
 0.5s 37.19nm
 SKT 2.49 4 ePd 59 42.96 -0.6
 eS 00 12.66
 PLRM 2.51 32 ePd 59 42.36 -1.3
 eS 00 12.14
 PMR 2.51 32 Pn 59 42.20 -1.5
 0.3s 52.24nm
 S 00 12.00
 KNK 2.57 40 ePd 59 43.34 -1.3
 GH0 2.71 32 eP 59 45.41 -1.3
 eS 00 16.45
 GLI 2.78 58 ePd 59 45.08 -2.5
 SML 2.91 36 eP 59 48.11 -1.3
 FID 3.00 63 iPd 59 47.78 -2.8
 CUT 3.02 15 eP 59 49.78 -1.1
 VZW 3.10 57 eP 59 50.18 -1.8
 VLZ 3.23 57 eP 59 51.83 -1.9
 SCM 3.25 42 ePd 59 52.80 -1.4
 CVA 3.27 69 ePd 59 51.75 -2.6
 KLU 3.58 54 ePd 59 57.00 -1.8
 TOA 3.84 45 eP 00 01.19 -1.2
 TRF 4.04 11 eP 00 04.60 -0.7
 RND 4.18 19 eP 00 05.74 -1.6
 SDG 4.34 43 eP 00 08.13 -1.3
 GLB 4.46 61 eP 00 08.44 -2.8
 MCK 4.48 17 eP 00 10.55 -0.8
 CROM 4.57 70 ePc 00 10.10 -2.7
 WAX 4.66 74 eP 00 10.71 -3.2
 PAX 4.67 39 eP 00 12.27 -1.9
 TGL 4.72 71 eP 00 12.13 -2.7
 BALM 5.01 68 ePc 00 16.03 -2.9
 YAH 5.19 76 eP 00 20.43 -1.2
 WRH 5.30 18 eP 00 20.73 -2.2
 HDA 5.45 23 eP 00 23.12 -1.8
 CTGM 5.48 70 eP 00 23.73 -1.8
 CCB 5.51 19 eP 00 23.30 -2.5
 MDM 5.74 16 eP 00 26.64 -2.4
 FBA 5.75 18 Pn 00 26.60 -2.5
 S 01 29.50
 IMA 6.64 354 ePn 00 41.10 -0.5
 74 obs. associated

OCT 09, 1991 15h 39m 24.59±0.26s
 53.516 N ± 5.5km 165.906 W ± 3.1km
 DEPTH = 33.0km (normal)
 5.2mb (42 obs.) 5.1msz (7 obs.)
 FOX ISLANDS, ALEUTIAN ISLANDS (9)
 Felt (III) at Unalaska. Also
 felt at Akutan Village.
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 22S, 51C
 Centroid Location:
 Origin Time 15:39:28.0 0.3
 Lat 53.32N 0.05 Lon 165.50W 0.04
 Dep 53.0 FIX Half-duration 1.8
 Moment Tensor; Scale 10**16 Nm
 Mrr=8.28 0.41 Mtt=-3.65 0.64
 Mff=-4.63 0.42 Mrt=2.95 0.61
 Mrf=5.64 0.66 Mtf=-6.10 0.61
 Principal Axes:
 T Vol=10.43 Plg=70 Azm=280
 N 1.70 10 38
 P -12.12 17 131
 Best Double Couple:Mo=1.1*10**17
 NP1:Strike=235 Dip=29 Slip=110
 NP2: 33 63 79

SDN 3.65 58 eP 40 21.50 1.4
 ADK 6.75 260 eP 41 06.20 2.3
 MCNL 8.57 44 eP 41 30.57 1.3
 KDC 8.69 55 eP 41 30.50 -0.3
 CDD 8.72 47 eP 41 31.47 0.2
 eS 43 05.01
 SYI 9.11 51 eP 41 36.84 0.1

SVW	9.42	32	eP	41	46.90	5.9X	CN2	44.71	287	Pc	47	35.10	-0.9	SNF	76.02	6	P	51	09.60	-0.1
INE	9.61	42	eP	41	45.78	2.0								MEM	76.03	5	iPc	51	05.30	-4.4X
XLV	9.83	47	eP	41	46.23	-0.4	Z	20s	3.32um				5.3Msz							
RED	9.95	41	eP	41	50.20	1.9				eP	47	45.00	33kmX	MOX	76.19	2	iPc	51	10.60	-0.1
RSO	9.98	41	P	41	49.40	0.5				PcP	49	16.50			1.3s	34.00nm				5.2mb
CNPM	10.08	47	eP	41	48.85	-1.3				eS	54	15.00		DOU	76.45	6	Pd	51	12.20	0.1
RDT	10.19	41	eP	41	52.29	0.7	ANMO	45.03	90	eP	47	37.50	-1.4	KRA	76.69	356	eP	51	13.20	-0.2
BGL	10.63	38	eP	42	00.61	2.9				12.50nm			4.8mb		0.9s	22.00nm				5.2mb
CRP	10.72	38	iP	42	02.94	4.0X	SNY	47.02	286	Pd	47	54.20	0.0							
TTA	10.77	25	eP	42	01.10	1.6	Z	26s	1.36um				4.8MszX	PRU	76.87	360	P	51	14.30	-0.2
CGLM	10.80	38	eP	42	02.49	2.5	MEO	49.83	84	e(P)	48	20.00	3.8X							
SLKM	11.03	44	iP	42	01.79	-1.3	SIO	50.52	81	e(P)	48	19.80	-1.6	WLF	76.98	5	P	51	15.00	0.0
SEW	11.16	47	eP	42	02.64	-2.0	TUL	50.71	81	eP	48	21.40	-1.4	GRF	77.14	2	iPc	51	16.30	0.3
SUA	11.37	40	eP	42	07.58	-0.2				1.8s	37.10nm		5.1mb		1.2s	40.00nm				5.3mb
SKT	11.42	36	eP	42	08.76	0.5	Z	18s	0.36um				4.4Msz	SPC	77.54	356	eP	51	19.40	1.0
PMS	11.71	42	eP	42	09.95	-2.3	N	22s	0.31um					LOE	77.59	282	iPc	51	18.30	-0.6
PWA	11.82	40	eP	42	14.00	0.4	E	20s	0.21um					KHC	77.73	0	iPc	51	19.50	0.2
LTJ	11.84	49	eP	42	10.63	-3.3X				LR	04	42.00			1.1s	14.70nm				4.9mb
KNIM	12.03	48	iP	42	13.65	-2.8X	BJI	52.42	289	eP	48	36.00	0.3							
SMY	12.03	274	e(P)	42	18.70	2.2	Z	20s	1.69um				5.1Msz	GUN	77.98	301	P	51	21.34	-0.1
PMR	12.08	41	eP	42	17.03	0.0	FVM	52.42	75	eP	48	33.50	-2.3	CHG	78.09	285	ePc	51	22.00	0.3
CUT	12.14	37	eP	42	17.44	-0.5	ELC	53.59	75	eP	48	42.23	-2.1		1.1s	28.48nm				5.2mb
KNK	12.25	43	eP	42	16.36	-3.1X	HHC	54.44	292	P	48	50.80	0.0	CHTO	78.09	285	eP	51	21.10	-0.6
SML	12.51	41	eP	42	18.58	-4.4X				1.2s	34.00nm		5.3mb		1.3s	41.67nm				5.3mb
FID	12.76	48	iP	42	22.88	-3.4X	Z	23s	1.19um				4.9MszX	KKN	78.38	301	P	51	23.34	-0.1
VZW	12.87	46	eP	42	25.07	-2.6X	TIA	54.50	285	eP	48	51.30	0.2		0.8s	65.00nm				5.7mb
SCM	12.93	43	eP	42	25.88	-2.6X	BYO	55.47	293	eP	48	57.80	-0.5	PKI	78.50	301	P	51	23.86	-0.4
VLZ	13.00	46	iP	42	26.78	-2.5X	SSE	55.75	277	Pc	49	00.80	0.6	GKN	78.54	302	P	51	23.96	-0.3
CVA	13.00	49	eP	42	25.78	-3.6X				1.4s	130.00nm		5.8mb		1.0s	187.00nm				6.1mb
RND	13.29	35	P	42	38.90	5.7X	Z	24s	1.00um				4.8MszX	DMN	78.62	301	P	51	24.74	-0.1
KLU	13.34	45	eP	42	30.37	-3.6X	TIY	56.13	289	eP	49	03.50	0.5		0.9s	96.00nm				5.8mb
TOA	13.54	43	eP	42	35.20	-1.3	NJ2	56.44	280	Pd	49	04.00	-1.2	ZST	78.63	358	iP	51	25.10	0.9
HMT	13.61	51	eP	42	35.69	-1.7				0.8s	34.00nm		5.4mb							
IMA	13.97	21	eP	42	45.50	3.2X	Z	24s	0.56um				4.6MszX	SRO	78.98	357	eP	51	27.10	1.0
	1.3s	56.20nm				5.1mb	TKL	57.85	72	eP	49	11.20	-4.0X	BUD	79.29	357	eP	51	28.00	0.2
SDG	14.00	42	eP	42	39.95	-2.7X	BNH	58.22	57	eP	49	15.32	-2.4	BDT	79.30	284	eP	51	27.50	-0.7
GLB	14.23	47	eP	42	43.26	-2.3X	NAV	58.35	69	eP	49	16.83	-1.8		1.0s	57.30nm				5.5mb
FBA	14.63	32	eP	42	53.30	2.6	BLA	58.63	69	P	49	18.40	-2.2	PTH	79.46	306	eP	51	37.00	7.7X
BALM	14.73	50	eP	42	51.04	-1.2	SOD	59.07	354	iP	49	21.80	-1.4	WTTA	79.58	2	iPc	51	29.80	0.2
SIT	17.69	66	eP	43	33.00	3.3X	CVL	59.16	67	eP	49	22.70	-1.6		1.1s	34.90nm				5.3mb
	1.4s	107.40nm				4.8mb	WHN	60.18	282	eP	49	31.00	-0.3							
BRW	18.31	9	eP	43	37.56	0.4	XAN	60.75	288	P	49	34.30	-0.9	FVI	80.26	1	P	51	30.60	-2.4
INK	21.24	33	eP	44	06.00	-3.4X	GTA	61.79	299	iPc	49	41.00	-1.4	MLR	80.85	352	eP	51	38.00	1.7
	0.9s	58.00nm				5.0mb				1.0s	23.00nm		5.3mb	KHT	81.49	283	iPc	51	40.60	0.7
YKA	27.90	51	eP	45	13.40	0.4	Z	18s	1.40um				5.2Msz	RIY	81.52	360	eP	51	39.40	-0.2
	0.8s	12.10nm				4.6mb	N	15s	0.67um					BNJ	81.60	5	Pd	51	42.10	1.8
MBC	28.71	21	eP	45	20.00	-0.1				sP	50	01.00		NDI	81.62	308	iPc	51	40.20	-0.2
	1.0s	12.00nm				4.5mb	OZH	61.83	274	P	49	42.70	0.1	CKI	82.31	4	P	51	44.00	0.2
PNT	28.77	79	eP	45	23.00	2.0				0.8s	37.00nm		5.6mb	MME	82.62	2	P	51	47.20	1.5
NEW	30.72	80	eP	45	37.50	-1.0	LZH	62.08	294	eP	49	43.50	-0.9	BDI	82.75	3	P	51	47.40	1.2
	0.8s	22.92nm				5.0mb				1.5s	57.00nm		5.5mb	SFI	82.92	2	P	51	48.50	1.6
LBFM	31.66	95	eP	45	48.00	1.1	Z	23s	1.25um				5.0MszX	PGD	82.97	2	P	51	49.20	1.8
YAK	34.00	310	iP	46	05.40	-1.4	N	10s	0.24um					ARV	83.36	1	P	51	50.40	1.2
										pP	49	58.50	55kmX	MNS	84.47	1	P	51	55.30	0.4
							KAF	64.31	354	iP	49	56.70	-1.7	DUI	85.20	360	P	52	00.30	1.7
										0.5s	14.80nm		5.3mb	KNT	85.39	353	eP	52	00.00	0.5
							WMO	64.44	310	P	49	57.60	-2.1	BBTK	85.63	346	iPd	52	02.00	1.1
										1.2s	22.00nm		5.1mb	MGR	86.71	359	P	52	06.10	0.1
							Z	20s	1.31um				5.1Msz	CSI	87.06	358	P	52	08.20	0.4
ARN	34.44	100	e(P)	46	11.40	0.5	NB2	65.77	2	P	50	06.40	-1.5	ROI	87.26	358	P	52	08.50	-0.3
LRM	34.71	81	eP	46	13.30	-0.2				1.1s	38.10nm		5.4mb	CZI	87.62	358	P	52	09.20	-1.2
HPI	35.50	84	eP	46	20.80	0.5	CD2	65.98	290	P	50	09.80	0.1	IPM	88.18	275	ePc	52	14.20	0.7
BONR	35.95	96	eP	46	25.10	1.0				1.0s	72.00nm		5.7mb	HYB	90.41	301	iPc	52	24.00	0.0
							NUR	66.01	354	iP	50	07.80	-1.5		1.0s	140.00nm				6.2mb X
FFC	36.33	62	eP	46	34.00	7.2X	GZH	66.35	277	Pc	50	12.50	0.5	PSI	90.93	276	eP	52	26.50	0.2
	0.8s	8.00nm				4.7mb	HFS	66.70	0	eP	50	11.70	-2.1	POO	91.83	305	iPc	52	32.60	2.1
BCH	36.77	101	eP	46	31.70	0.9				0.4s	21.70nm		5.6mb	BUL	144.86	336	iPKPc	58	59.20	-0.6
SYF	37.30	102	eP	46	50.00	14.7X	Z	18s	0.43um				4.7Msz	WIN	149.01	355	iPKPd	59	11.50	4.9X
ISA	37.39	99	eP	46	37.00	1.1				LR	12	03.00			0.6s	13.33nm				
BW06	38.15	83	eP	46	42.00	-0.5	UPP	66.94	358	iP	50	13.50	-1.8	BFT	149.75	331	ePKP	59	14.00	6.4X
	1.0s	9.17nm				4.6mb	GYA	67.70	285	iPc	50	20.80	0.1	SLR	150.29	334	ePKP	59	02.60	-5.7X
SBB	38.45	100	eP	46	46.00	1.2				1.2s	86.00nm		5.7mb							
DAU	38.58	87	eP	46	46.89	0.7	EKA	70.59	10	Pd	50	37.80	-0.1							
GSC	38.62	98	eP	46	47.00	0.7				1.0s	30.40nm		5.3mb	JOZ	150.75	326	iPKPd	59	15.50	6.7X
MWC	38.64	100	eP	47	01.00	14.4X	KMI	70.98	287	Pc	50	40.00	-1.0		0.6s	12.00nm				
MSU	39.24	90	eP	46	53.05	1.4				1.5s	110.00nm		5.7mb	PRY	151.64	334	iPKPc	59	17.40	7.1X
PLM	39.95	100	eP	46	58.00	0.5	Z	20s	1.20um				5.2Msz		1.0s	20.00nm				
BAR	40.55	101	eP	47	14.00	11.8X				pP	50	49.00	29kmX	VIR	152.90	335	ePKP	59	11.00	-1.1
RSSD	40.60	77	eP	47	02.00	-0.8	OIZ	71.55												

09d 15h

4.9mb (9 obs.) FOX ISLANDS, ALEUTIAN ISLANDS (9)				
SDN	3.60	62 eP	48 58.60	1.3
ADK	6.71	258 eP	49 44.20	3.0X
KDC	8.62	57 eP	50 12.30	4.4X
SVW	9.23	33 eP	50 25.80	9.4X
TTA	10.56	26 eP	50 42.30	7.7X
SLKM	10.90	46 eP	50 38.92	-0.4
TOA	13.40	44 eP	51 12.30	-0.4
IMA	13.74	22 eP	51 23.50	6.2X
		i	51 29.00	
FBA	14.44	32 eP	51 31.40	5.1X
	0.9s	7.00nm		4.2mb
INK	21.06	34 eP	52 43.00	-2.6X
NEW	30.77	80 eP	54 16.00	-0.9
KAF	64.02	354 iP	58 33.70	-0.8
	0.6s	5.90nm		4.9mb
NB2	65.49	1 P	58 43.90	-0.2
	0.8s	5.60nm		4.7mb
NUR	65.72	354 eP	58 44.80	-0.7
HFS	66.42	0 eP	58 48.70	-1.3
	0.9s	12.20nm		5.0mb
EKA	70.32	10 P	59 15.00	0.7
	0.9s	7.70nm		4.8mb
CLL	75.26	1 eP	59 43.00	-0.4
MOX	75.91	2 iP	59 47.60	0.5
	1.3s	12.00nm		4.7mb
SPC	77.25	356 e(P)	59 56.20	1.4
KHC	77.44	0 eP	59 57.00	1.3
GUN	77.74	301 P	59 58.16	0.0
	0.9s	48.00nm		5.5mb
KKN	78.15	301 P	00 00.28	0.1
PKI	78.26	301 P	00 00.86	-0.1
	1.1s	36.00nm		5.3mb
GKN	78.30	302 P	00 00.96	0.0
	0.9s	41.00nm		5.4mb
DMN	78.38	301 P	00 01.78	0.2
HYB	90.18	300 ePd	01 01.00	0.0
BUL	144.56	336 iPKPd	07 36.90	-0.4
	1.0s	25.00nm		

S.D. = 0.8 on 20 of 27 obs.

& OCT 09, 1991 16h 10m 04.84s 61.980 N 151.397 W DEPTH = 80.6km SOUTHERN ALASKA (2) <AEIC>				
SKT	0.06	270 iPd	10 15.83	1.0
		iS	10 24.62	
SUA	0.60	149 iPd	10 19.51	-0.4
		eS	10 30.79	
CUT	0.68	51 iPc	10 19.91	-0.6
NCG	0.68	212 iPd	10 19.87	-0.8
		eS	10 32.08	
CGLM	0.73	204 iPd	10 20.26	-1.0
PWA	0.79	114 iPc	10 21.60	-0.1
CRP	0.80	207 iPd	10 21.25	-0.8
		eS	10 33.89	
BGL	0.86	214 iPd	10 22.06	-0.6
CKL	0.91	210 ePd	10 22.28	-0.9
		eS	10 35.94	
PLRM	1.15	109 ePc	10 24.73	-1.2
PMR	1.15	109 iP	10 25.30	-0.6
PMS	1.15	129 ePc	10 25.60	-0.4
		eS	10 42.69	
GHO	1.19	99 iPc	10 26.03	-0.6
		eS	10 42.35	
NKA	1.24	176 iPc	10 28.61	1.4
HUR	1.29	38 iPc	10 27.14	-0.7
		eS	10 44.39	
SML	1.46	95 iPc	10 29.02	-1.1
ROT	1.49	199 ePd	10 29.50	-1.1
		eS	10 49.53	
KNK	1.51	111 iPc	10 29.53	-1.2
TRF	1.56	19 iPc	10 30.85	-0.7
		iS	10 50.82	
SLKM	1.58	158 iPc	10 30.91	-0.8
		eS	10 51.26	
KTH	1.59	8 ePc	10 31.12	-0.8
		eS	10 50.71	
RDN	1.61	205 iPd	10 31.37	-0.8
		eS	10 50.86	
REF	1.62	203 ePd	10 31.77	-0.6
		eS	10 52.63	
RS2	1.66	204 ePd	10 32.26	-0.6

RSO	1.66	204 eP	10 32.28	-0.6
RS1	1.66	204 eP	10 32.32	-0.6
		eS	10 52.65	
RED	1.70	204 eP	10 32.69	-0.7
RND	1.85	38 iPc	10 34.29	-1.1
SCM	1.93	93 ePc	10 35.07	-1.4
NNL	1.95	179 eP	10 38.22	1.7
INE	2.09	204 eP	10 38.25	-0.4
MCK	2.09	32 eP	10 37.91	-0.6
INW	2.10	205 eP	10 38.65	-0.1
SEW	2.11	152 eP	10 39.67	0.9
SVW	2.20	248 eP	10 38.54	-1.6
GLI	2.34	116 iPc	10 39.32	-2.7
TTA	2.35	296 eP	10 40.80	-1.3
BWN	2.37	21 ePc	10 41.44	-0.9
KNIM	2.41	131 eP	10 43.95	1.0
CNPM	2.46	178 eP	10 43.29	-0.4
TOA	2.46	85 iP	10 43.20	-0.5
OPT	2.50	202 eP	10 44.37	0.2
LTI	2.60	137 ePc	10 42.96	-2.6
KLU	2.65	98 ePc	10 44.06	-2.3
FID	2.67	115 iPc	10 43.49	-3.0
SDG	2.79	76 eP	10 46.95	-1.3
NEA	2.81	21 ePc	10 46.54	-1.9
TZL	2.82	86 eP	10 47.35	-1.2
WRH	2.91	29 iPc	10 48.31	-1.6
PAX	2.93	68 ePc	10 48.79	-1.4
CCB	3.13	30 ePc	10 50.74	-2.1
HDA	3.16	38 ePc	10 51.67	-1.6
MDM	3.31	24 iPc	10 53.84	-1.6
GLM	3.51	29 eP	10 55.87	-2.4
GLB	3.65	95 eP	10 57.62	-2.6
IMA	4.23	347 eP	11 06.90	-1.4
TGL	4.30	103 eP	11 08.10	-1.2
WAX	4.41	107 eP	11 08.56	-2.2
BALM	4.44	98 eP	11 07.91	-3.3

59 obs. associated

? OCT 09, 1991 17h 17m 43.61 ± 3.61s
3.811 N ± 16.3km 76.943 W ± 35.2km
DEPTH = 33.0km (normol)
COLOMBIA (103)
MD 2.7 (UVC).

ANCC	0.30	166 iPd	17 51.64	0.2
		eS	17 57.90	
CLMC	0.39	80 ePd	17 53.14	0.4
		eS	18 00.50	
HOOC	0.46	138 iPd	17 53.56	-0.3
HOBC	0.97	56 ePd	18 00.72	-0.3
		eS	18 13.80	

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

? OCT 09, 1991 17h 19m 15.87 ± 9.25s
2.907 N ± 22.4km 74.785 W ± 76.3km
DEPTH = 33.0km (normol)
COLOMBIA (103)
MD 4.1 (UVC).

PURC	1.68	250 iPd	19 43.76	-0.1
HOOC	1.93	287 iPd	19 47.51	0.3
		eS	20 10.80	
HOBC	1.97	317 eP	19 47.93	0.2
CLMC	2.02	299 eP	19 47.81	-0.7
ANCC	2.16	286 ePc	19 50.63	0.3
		eS	20 16.30	

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

? OCT 09, 1991 17h 21m 38.35 ± 1.35s
30.759 N ± 21.4km 97.008 E ± 11.9km
DEPTH = 10.0km (geophysicist)
XIJANG (306)

KMI	7.56	137 Pc	23 31.50	0.0
	2.0s	0.11nm		2.7mb X
GUN	10.12	256 P	24 11.64	4.6X
PKI	10.62	255 P	24 13.78	-0.2
KKN	10.66	257 P	24 14.28	-0.1
	0.4s	6.00nm		5.3mb X
DMN	10.86	256 P	24 17.88	0.7
GKN	11.13	259 P	24 20.94	0.2
BHD	44.30	288 eP	29 48.00	-2.1
		eS	36 15.00	
		eSSS	40 05.00	
BMR	57.30	310 ePd	31 30.00	1.5
ASPA	64.65	142 iPd	32 46.00	27.4X
	0.9s	3.60nm		

S.D. = 1.3 on 7 of 9 obs.				
OCT 09, 1991 17h 21m 57.41 ± 0.29s 11.421 S ± 4.8km 77.537 W ± 6.5km DEPTH = 49.6km (14 depth phases) 4.9mb (15 obs.) 4.9Msz (1 obs.) NEAR COAST OF PERU (115) Felt (IV) at Lima.				
PT10	0.86	139 iPd	22 14.40	1.0
		e(S)	22 23.40	
NNA	0.88	130 iPc	22 15.00	1.2
	0.5s	492.96nm		
		e	22 27.00	
ARE	7.72	131 eP	23 55.00	4.8X
		iS	25 29.90	
ZOBO	10.33	119 P	24 25.80	-0.7
	2.0s	0.93um		
		LR	09 12.00	
LPB	10.47	120 P	24 34.00	5.7X
	1.0s	80.00nm		5.8mb
CNCB	10.70	121 P	24 33.00	1.5
CCH	12.52	120 P	24 55.00	-0.8
PURC	13.70	5 ePc	25 12.75	1.2
HOQC	14.82	4 eP	25 27.25	1.4
ANCC	14.85	3 eP	25 23.74	-2.4
CLMC	15.23	4 eP	25 31.69	0.5
BUGC	15.27	5 eP	25 31.95	0.4
HOBC	15.73	5 eP	25 41.14	3.6X
BOG	16.31	12 e(P)	25 53.00	7.9X
		e(S)	28 50.00	
SIV	16.63	108 P	25 48.00	-0.8
BMG	18.90	14 eP	26 16.00	-1.0
UPA	20.37	354 iPc	26 34.10	1.5
SDV	21.31	19 eP	26 43.10	0.6
ROCH	22.27	165 iP	26 52.50	0.5
TOV	22.43	20 eP	26 54.60	1.1
PEL	22.52	165 iP	26 54.70	0.5
SAN	22.82	165 iP	26 58.00	0.9
LNV	23.12	167 iP	26 59.50	-0.5
GUAN	24.31	30 eP	27 14.00	2.2
BAO	29.02	102 ePc	27 53.00	-2.2
BMA	33.74	114 eP	28 36.00	-0.6
PDCR	37.57	96 eP	29 07.60	-1.6
		i	33 26.00	
TUL	50.13	341 iPc-	30 49.40	-0.5
	0.6s	10.90nm		5.1mb
	2.0s	1.13um		4.9Msz
		e	31 02.30	
		LR	21 22.00	
FVM	50.61	347 P	30 53.10	-0.3
	1.0s	18.00nm		5.1mb
ANMO	53.64	330 P	31 16.20	-0.2
	1.0s	8.00nm		4.7mb
		pP	31 30.00	51km
GOL	57.06	335 P	31 40.00	-1.3
	1.0s	4.50nm		4.5mb
		pP	31 53.80	50km
PLM	58.19	321 P	31 49.50	0.4
PEC	58.74	322 P	31 52.90	0.1
	1.0s	6.67nm		4.7mb
SSK	59.28	322 P	31 57.40	0.7
MSU	59.28	329 P	31 57.00	0.3
		pP	32 10.00	46km
DAU	60.29	331 P	32 02.00	-1.7
		pP	32 17.00	55km
RSSD	60.30	338 P	32 02.00	-1.6
	1.0s	14.91nm		5.1mb
DUG	60.88	330 P	32 07.50	0.0
		pP	32 21.20	49km
BW06	61.38	334 P	32 10.00	-1.0
	1.0s	3.33nm		4.4mb
		pP	32 23.00	46km
HVU	62.07	331 P	32 14.60	-1.0
BONR	62.19	324 P	32 17.70	1.1
CMB	63.45	323 P	32 25.10	0.5
	1.0s	12.50nm		5.0mb
		pP	32 38.80	49km
HPI	63.71	332 P	32 26.60	0.1
		pP	32 40.30	49km
LRM	65.06	334 eP	32 34.80	-0.4
ORV	65.11	324 P	32 35.80	0.5
		pP	32 49.80	50km
FHC	67.37	323 P	32 50.20	0.4
NEW	68.99	333 P	32 59.00	-0.7
	1.0s	19.00nm		5.0mb
		pP	33 14.00	54km

FFC	69.05	345	iPd	32	59.30	-0.6	2	18s	18.56um	5.7msz	RDP	43.15	340	P	30	06.40	1.8		
	0.6s	7.00nm			4.8mb				S	33	04.50								
BMW	70.66	328	P	33	10.10	0.1	HLW	27.90	0 ePKP	27	54.00	-0.5	RMP	43.20	340	P	30	07.30	2.3
		pP		33	24.30	50km			e	32	35.00		HVAR	43.27	344	eP	30	10.90	5.3X
PNT	70.89	332	eP	33	12.00	0.8			eS	32	40.00		CFR	43.29	357	eP	30	05.00	-0.6
MCW	71.95	330	P	33	18.40	0.8			e	38	08.00		ISR	43.36	355	eP	30	07.00	0.7
SNA	74.34	160	eP	33	45.10	13.9X	WIN	27.90	209 iPd	27	56.50	1.7	CMP	43.63	354	ePd	30	09.00	0.5
	1.1s	121.52nm						0.9s	58.82nm		5.3mb		BRD	43.69	356	eP	30	16.00	7.1X
YKA	79.11	343	eP	33	57.50	-0.4			S	33	25.50		MNS	43.71	340	P	30	09.70	0.5
	0.8s	6.80nm			4.6mb		MBH	28.02	7 eP	27	49.20	-6.5X	MLR	43.76	355	ePd	30	10.00	0.3
INK	88.78	342	eP	34	46.50	-0.3	DSI	29.86	7 eP	28	05.50	-6.6X	QUE	44.04	47	eP	30	16.00	3.7X
	0.9s	31.00nm			5.6mb		SEK	30.16	186 iPc	28	15.00	0.0		eS			36	43.00	
		pP		35	00.50	47km			0.6s	53.33nm		5.5mb	VRI	44.07	355	ePc	30	12.00	0.0
MBC	90.93	351	eP	34	57.00	0.4	SHMJ	31.05	7 P	28	21.50	-1.1	TNR	44.10	353	ePc	30	13.00	0.7
	1.0s	18.00nm			5.4mb		BLF	31.12	189 eP	28	24.20	0.7	PPE	44.35	356	eP	30	17.00	2.8X
		pP		35	12.00	51km	HRI	31.58	7 eP	28	20.90	-6.5X	DEV	44.51	352	ePc	30	20.00	4.4X
FBA	92.10	336	P	35	02.40	0.2	FRS	31.89	190 iPd	28	29.50	-0.5	ARV	44.62	341	P	30	15.40	-1.1
	0.8s	8.62nm			5.2mb		BHL	32.19	7 P	28	36.00	3.3X	TIM	44.64	350	iPd	30	23.00	6.4X
		pP		35	16.70	48km			S	33	44.00		CLI	44.70	356	eP	30	18.00	0.9
STK	122.93	220	ePKP	40	49.80	-0.5	HVD	32.70	189 iPd	28	37.80	0.6	POO	44.89	65	iPd	30	24.80	5.7X
	1.2s	1.40nm							(S)	34	34.20		CRE	45.06	340	P	30	19.40	-0.8
BJI	149.02	339	ePKP	41	41.00	3.4X	SHI	34.27	34 eP	28	51.00	0.1	SFI	45.36	340	P	30	20.60	-1.7
	1.5s	28.00nm					YER	35.27	356 eP	28	59.00	-0.2	VBV	45.75	344	ePd	30	25.80	0.4
S.D. = 1.0 on 52 of 58 obs.							BCK	35.49	359 eP	29	13.50	12.4X	RIY	45.85	343	eP	30	26.50	0.4
OCT 09, 1991 17h 22m 05.40± 0.18s							KER	35.59	23 eP	29	02.00	-0.1	ZAG	45.85	345	iP	30	26.50	0.3
1.804 N ± 2.9km 31.293 E ± 3.9km							MSL	36.11	16 ePc	29	03.00	-3.3X	BDI	45.91	339	P	30	25.10	-1.7
DEPTH = 33.0km (normal)									e	29	35.50		PTJ	45.93	345	eP	30	27.10	0.1
5.7mb (51 obs.) 5.4msz (14 obs.)									eS	34	45.50		UZD	45.97	348	iP	30	28.30	1.2
UGANDA (568)									eLO	41	21.50		MME	45.99	339	P	30	26.60	-1.1
Mo=5.0*10**17 Nm (PPT). Felt									eLR	43	24.50		CEY	46.20	344	eP	30	28.50	-0.5
strongly at Kampala.							KIC	36.22	278 P	29	07.16	-0.3	TRI	46.36	343	eP	30	30.40	0.2
CENTROID, MOMENT TENSOR (HRV)									e	44	30.00		LJU	46.44	344	eP	30	30.50	-0.4
Data Used: GDSN							KHL	36.38	358 eP	29	08.00	-0.6	TIO	46.55	312	iP	30	31.00	-1.2
L.P.B.: 24S, 43C							LIC	36.49	278 P	29	09.28	-0.5		i			30	56.00	
Centroid Location:									1.4s	191.50nm		5.8mb	VOY	46.61	343	iPd	30	32.70	0.3
Origin Time 17:22: 8.2 0.5							TIC	36.52	279 P	29	09.10	-0.9	IMI	46.80	337	P	30	33.21	-0.6
Lot 2.21N 0.07 Lon 31.18E 0.06									1.2s	87.50nm		5.5mb	FIN	46.92	337	P	30	33.93	-0.8
Dep 15.0 FIX Holf-duration 2.5							IZM	36.61	355 iP	29	11.30	0.8	PSZ	46.98	350	iPd	30	34.70	-0.5
Moment Tensor; Scale 10**17 Nm							TUH	36.74	197 iPd	29	13.50	1.9	VVI	47.01	342	P	30	40.20	4.8X
Mrr=-1.82 0.09 Mtt= 1.10 0.12							CER	36.76	197 iPd	29	12.00	0.2	PCP	47.08	338	P	30	34.34	-1.7
Mff= 0.73 0.12 Mrt= 0.89 0.34							IR5	37.77	26 eP	29	24.00	3.6X	CKI	47.08	338	P	30	36.20	0.2
Mrf=-1.03 0.29 Mtf= 2.16 0.10							BBTK	37.88	2 eP	29	21.00	-0.3	ROB	47.13	337	P	30	35.88	-0.5
Principal Axes:							IR4	37.94	27 eP	29	25.80	4.0X	SRO	47.19	348	iP	30	37.20	0.5
T Vol= 3.08 Plg= 1 Azm=137							AGG	37.94	349 eP	29	21.54	-0.1		i			30	41.40	
N -0.15 39 47							IR1	37.99	26 eP	29	24.00	1.7	ENR	47.25	337	P	30	37.42	0.0
P -2.93 51 228							EZN	38.11	354 eP	29	27.30	4.3X	SAL	47.29	340	P	30	38.20	0.6
Best Double Couple: Mo=3.0*10**17							IR7	38.20	26 ePd	29	25.00	1.0	STV	47.30	337	P	30	37.93	0.1
NP1:Strike=260 Dip=56 Slip=-41							MEU	38.23	339 P	29	26.10	1.9	CTI	47.31	341	P	30	38.00	0.9
NP2: 15 57 -139							GPA	38.32	359 eP	29	25.60	0.8	FVI	47.45	343	P	30	39.40	0.6
							IZI	38.39	358 eP	29	25.70	0.2	EHUE	47.45	323	eP	30	40.74	1.6
HOI 0 39 173 iP	22	31.00	16.6X	PAIG				38.57	351 eP	29	26.22	-0.7	CDR	47.47	335	ePc	30	43.20	4.1X
KIL 2.05 219 eP	22	31.50	-6.8X	YLV				38.62	358 eP	29	27.70	0.3	PZZ	47.61	337	P	30	39.47	-0.8
		eS		TAB				38.64	19 e(P)	29	30.00	2.3	AFC	47.67	322	eP	30	42.06	1.1
ENT 2.10 146 iP	22	38.00	-1.0	SOI				38.71	341 P	29	29.00	0.9	ECOG	47.70	322	eP	30	42.55	1.5
		eS		HRT				38.87	358 iP	29	29.70	0.3	ECHE	47.70	326	eP	30	42.28	1.3
NAI 6.30 119 eP+	23	38.00	-0.7	OUR				38.92	351 iP	29	30.18	0.4	KBA	47.72	343	iPd	30	41.50	0.3
AAE 10.33 46 eP	24	33.60	-1.2	LIT				38.95	349 eP	29	29.46	-0.7		1.2s	142.00nm			5.9mb	
ARO 14.99 49 eP+	25	36.80	0.0	MFT				38.97	355 eP	29	31.20	0.8		i			30	46.50	
		S		ATN				38.99	340 P	29	31.60	1.1		i			31	26.80	
LSZ 17.25 190 iPn	26	05.00	-0.6	PTS				39.13	335 P	29	32.60	1.0		i			32	39.20	
		i		ISK				39.13	357 eP	29	31.00	-0.6		i			32	41.80	
		iSn		MCT				39.18	338 P	29	38.90	6.6X	ZST	47.81	347	eP	30	41.40	-0.3
		i		GIB				39.35	338 P	29	34.60	1.0		i			30	46.20	
		iSg		KAS				39.45	3 eP	29	34.00	-0.3		e			31	38.50	
		i		SOH				39.50	351 eP	29	34.54	-0.2		e			32	42.00	
SONG 17.36 175 ePn	26	04.10	-2.9	CZI				39.73	341 P	29	36.80	0.3	BHB	47.82	337	P	30	41.32	-0.5
		eSn		SRS				39.75	351 eP	29	36.26	-0.5	EVIA	47.94	324	eP	30	43.53	0.6
		eLg		GRG				39.80	349 eP	29	36.94	-0.2	VKA	48.05	347	iPc	30	43.00	-0.6
MTD 18.47 179 iPn	26	19.50	-1.2	FNA				39.83	348 eP	29	37.38	-0.1		2.0s	791.00nm			6.4mb	
		eSn		KNT				39.91	350 eP	29	38.30	0.3		i			30	48.50	
		iLg		ROI				39.91	342 P	29	38.50	0.3		i			31	00.00	
KRI 18.59 185 iPnc	26	44.00	21.7X	RZN				40.14	352 iP	29	40.00	-0.2		e			32	31.00	
		eSn		CSI				40.19	342 P	29	41.50	1.1	RRL	48.08	337	P	30	47.06	3.0X
		iLg		MMB				40.19	351 iP	29	48.00	7.6X	RSP	48.08	337	P	30	42.34	-1.7
ANAL 21.52 3 iPd	26	54.00	0.2	LCI				40.22	344 P	29	40.40	-0.2	VAI	48.13	339	P	30	43.50	-0.6
AGMR 21.64 3 iPd	26	55.60	0.6	MMN				40.38	342 P	29	41.80	-0.1	SPC	48.15	350	iP	30	45.90	1.4
AKSR 21.77 4 iPd	26	56.50	0.2	KKB				40.56	351 iP	29	53.00	9.6X		i			30	49.40	
BUL 21.97 187 iPnd	26	58.40	-0.1	MGR				40.75	341 P	29	44.80	-0.1		i			32	43.30	
		iSn		BRT				40.93	344 P	29	47.10	0.7	ORD	48.21	338	P	30	43.10	-1.8
		iLR		SGO				41.21	341 P	29	48.90	0.3	ORX	48.21	338	P	30	42.96	-2.0
AMAN 22.06 4 iPd	27	00.50	1.4	DUI				42.48	341 P	30	00.50	1.3	BNI	48.23	337	P	30	47.50	2.4
ASW 22.20 4 iPc	27	01.00	0.4	BUC				42.68	355 ePd	30	06.00	5.3X	OCA	48.23	341	eP	30	45.60	0.3

09d 17h

EBAN	48.39	323	eP	30	46.19	-0.2
WTTA	48.40	342	iPd	30	45.20	-1.3
	1.1 s	97.60nm			5.7mb	
		i	30	46.00		
		i	30	51.20		
		i	31	00.80		
		i	31	34.70		
		i	31	50.10		
		i	31	53.50		
		i	32	42.30		
		i	32	46.30		
		i	32	51.50		
KMR	48.40	345	iP-	30	46.50	0.2
		i	31	06.80		
		i	31	31.50		
		i	32	39.50		
VDL	48.41	340	ePc	30	46.70	0.1
WATA	48.4B	342	iPd	30	46.70	-0.3
	1.1 s	85.60nm			5.7mb	
		i	30	51.40		
		i	30	59.00		
EPRU	48.54	321	eP	30	46.96	-0.6
MMK	48.58	338	ePc	30	47.30	-0.6
DIX	48.81	338	ePd	30	48.60	-1.1
SALF	48.85	331	P	30	49.89	0.0
LLS	48.91	340	ePd	30	49.80	-0.6
HYB	48.93	68	eP	30	50.00	-0.8
		e	31	57.00		
		eS	37	52.00		
EMS	48.98	338	ePc	30	50.10	-0.9
KRA	49.04	350	ePd	30	50.60	-0.5
	1.1 s	136.00nm			5.9mb	
Z	20 s	2.10um			5.1MsZ	
E	18 s	3.20um				
		i	30	55.70		
		i	31	06.00		
		eS	37	55.00		
EHOR	49.08	321	eP	30	51.98	0.4
ETOR	49.15	327	eP	30	53.15	0.9
EGRA	49.20	329	eP	30	50.26	-2.1
SSB	49.28	335	P	30	52.20	-0.9
FUR	49.31	342	eP	30	52.80	-0.5
KHC	49.54	345	P	30	54.00	-1.0
	1.2 s	237.50nm			6.1mb	
Z	18 s	2.00um			5.2MsZ	
N	16 s	1.00um				
E	16 s	2.20um				
		e	31	00.00		
		e	31	06.50		
		eS	38	02.00		
		eSS	41	56.00		
TOL	49.66	324	iPc	30	56.00	-0.1
		eS	38	06.00		
WET	49.74	344	iPd	30	51.10	-5.4
	1.3 s	71.00nm			5.5mb	
		i	31	00.80		
LBL	49.80	334	P	30	57.70	0.6
BTH	49.81	330	iPc	30	58.00	0.8
		i	31	02.50		
		iPp	31	06.50		28km
		PcP	31	25.00		
		eSPp	33	07.00		
		PPP	33	55.00		
		eScP	36	15.00		
		e	38	05.00		
		e	42	05.00		
		SSS	42	40.00		
		(PKKS)	56	40.00		
SLE	49.86	340	ePc	30	56.30	-1.2
EVAL	49.88	320	eP	30	57.93	0.1
BBS	49.94	339	P	30	57.53	-0.6
PRU	50.08	346	P	30	57.70	-1.4
	1.6 s	93.40nm			5.6mb	
Z	19 s	2.60um			5.3MsZ	
N	18 s	1.40um				
E	19 s	2.10um				
		e	31	02.30		
		e	33	02.80		
		eS	38	04.50		
		eSS	41	50.00		

	1.3s	113.00nm			5.7mb
		i	31	06.30	
		ePP	33	03.30	
GRF	50.69	343 eP	31	02.60	-1.2
	1.0s	48.00nm			5.4mb
Z	21s	2.10um			5.1MsZ
		e	31	08.20	
ECH	50.71	339 P	31	05.23	-0.7
CDF	50.83	340 P	31	05.92	-1.1
NKC	50.84	344 eP	31	04.50	-0.4
		e	31	09.60	
BRG	51.05	346 iPd	31	05.60	-0.9
	1.6s	140.00nm			5.7mb
		i	31	10.00	
		i	31	20.20	
		i	32	29.00	
		i	33	10.30	
		e	42	28.00	
HOF	51.07	344 eP	31	05.80	-0.9
		i	31	11.00	
VITF	51.13	338 P	31	06.63	-0.5
GWf	51.20	340 P	31	07.14	-0.5
NDI	51.26	54 eP	31	09.00	0.6
	0.9s	163.87nm			6.0mb
CRZF	51.34	162 eP	31	22.00	13.3X
		eS	38	49.00	
MOX	51.44	344 iP	31	08.90	-0.6
	1.9s	270.00nm			5.9mb
Z	15s	1.80um			5.2MsZ
N	17s	0.70um			
E	18s	1.80um			
		eS	38	30.00	
CLL	51.68	345 eP	31	09.00	-2.3
	1.4s	38.00nm			5.2mb
TNS	52.00	342 ePd	31	13.00	-0.8
WLF	52.29	340 iPc	31	20.35	4.5X
BNS	53.05	341 ePd	31	22.00	0.5
	1.6s	149.00nm			5.7mb
		iC	31	26.60	
MEM	53.14	340 iPc	31	21.92	-0.2
		i	31	27.02	
DOU	53.20	339 Pc	31	21.90	-0.7
Z	14s	2.20um			5.4MsZ
ENN	53.30	340 eP	31	23.00	-0.3
	1.0s	91.00nm			5.7mb
		e	31	28.50	
OBN	53.30	4 eP	31	23.00	-0.2
	1.2s	157.00nm			5.9mb
Z	16s	1.80um			5.2MsZ
		ePP	32	39.00	
		e	33	33.00	
		eS	38	50.00	
		eSS	43	12.00	
SNF	53.66	339 iPc	31	30.34	4.4X
UCC	53.87	339 P	31	33.00	5.5X
WTS	54.06	342 eP	31	29.00	0.2
	1.1s	173.00nm			6.0mb
		e	31	34.00	
BSD	54.79	349 eP	31	30.50	-3.7X
	1.0s	167.00nm			6.0mb
WIT	54.80	342 eP	31	36.00	1.7
		e	31	40.50	
KSH	55.25	41 P	31	42.00	4.0X
		2.50um			
N	11s	3.40um			
E	12s				
COP	55.84	347 eP	31	40.00	-1.8
	1.2s	43.75nm			5.4mb
Z	20s	0.92um			4.9MsZ
		eS	39	28.00	
GKN	57.16	58 P	31	49.74	-2.2
	1.1s	265.00nm			6.2mb
MUD	57.32	346 eP	31	53.00	0.7
	1.5s	310.00nm			6.1mb
DMN	57.45	58 P	31	52.58	-1.5
KKN	57.65	58 P	31	53.28	-2.1
	1.4s	444.00nm			6.3mb
PKI	57.69	58 P	31	53.38	-2.5
	1.4s	156.00nm			5.9mb
GUN	58.19	58 P	31	57.22	-2.2
	1.1s	328.00nm			6.3mb
NUR	58.77	356 eP	32	02.00	-0.4
	1.0s	82.00nm			5.8mb
		eS	40	16.00	
UPP	58.86	352 iP	32	04.60	1.6
		iS	40	05.00	
HFS	59.74	350 eP	32	07.50	-1.7
	1				

	Z	16s		0.90um		5.0Mszx
				LR	53	53.00
KONO		60.09	347	eP	32	14.50
EKA		60.22	338	Pd	32	12.50
		0.9s		12.10nm		5.0mb
KAF		60.28	357	iP	32	12.00
ESY		60.47	339	eP	32	14.20
		1.2s		292.00nm		6.3mb
EBL		60.52	339	eP	32	14.50
EDI		60.68	339	eP	32	16.00
		1.0s		223.00nm		6.2mb
NB2		61.04	349	P	32	16.80
		1.6s		238.20nm		6.1mb
EBH		61.05	339	eP	32	18.30
		1.4s		476.00nm		6.4mb
EDU		61.10	339	eP	32	18.40
		1.5s		389.00nm		6.3mb
EDR		61.22	340	eP	32	18.00
		1.3s		175.00nm		6.0mb
ELO		61.29	339	eP	32	19.00
EAB		61.31	338	eP	32	19.80
LSA		63.12	58	iPc	32	33.00
WMQ		65.04	42	P	32	45.00
		1.4s		46.00nm		5.4mb
	Z	29s		2.79um		5.3Mszx
	N	21s		3.12um		
				iS	41	26.00
				SS	45	38.00
SOD		65.52	358	iP	32	46.50
PSI		67.58	88	ePd	33	01.70
KHT		67.60	75	eP	33	05.30
KEV		67.90	358	eP	33	07.00
		1.0s		62.00nm		5.7mb
BDT		68.19	72	eP	33	03.20
CHG		68.28	71	eP	33	05.80
		1.3s		29.81nm		5.2mb
CHTO		68.28	71	eP	33	04.80
		1.5s		71.51nm		5.5mb
IPM		69.66	86	ePd	33	14.10
		1.0s		29.10nm		5.3mb
LOE		70.80	72	eP	33	21.00
GTA		72.34	49	P	33	30.00
		1.2s		94.00nm		5.7mb
	Z	18s		1.66um		5.4Msz
	E	14s		1.30um		
				S	43	00.00
MAW		72.70	168	iPc	33	35.00
		1.1s		68.00nm		5.6mb
NVL		73.57	187	iPc	33	40.00
				ePcP	33	52.50
				e	34	45.00
				e	34	53.00
				e	35	11.00
				ePP	36	45.00
				e	36	50.50
				ePP	38	14.00
				e	43	18.00
KL1		73.79	96	eP	33	39.40
CD2		74.05	58	eP	33	41.30
LZH		74.86	53	eP	33	48.00
		1.4s		120.00nm		5.7mb
	Z	22s		1.50um		5.2Msz
	E	10s		0.74um		
				sP	33	59.00
				PP	36	37.50
GYA		76.10	63	P	33	52.80
		1.0s		40.00nm		5.4mb
	Z	24s		0.67um		4.9Mszx
				S	43	34.00
BMA		77.29	246	(P)	34	02.00
IRK		78.23	37	ePd	34	08.10
QIZ		78.59	71	P	34	10.50
				eS	44	03.00
XAN		78.74	56	eP	34	09.00
VAO		79.91	246	iPc	34	16.70
				e	34	22.20
BAO		80.17	254	ePd	34	17.00
BTO		80.27	49	eP	34	16.40
HHC		81.46	49	P	34	23.80
		1.5s		160.00nm		5.8mb
	Z	22s		1.81um		5.4Msz

2.0s 150.00nm 5.8mb Z 24s 0.77um 5.0mszx					SYI 1.46 172 eP 47 27.04 -1.5	DOI 0.42 28 P 11 21.00 0.0
eS 45 12.00					SEW 1.67 87 eP 47 30.21 -0.8	eSg 11 27.70
NANU 85.36 113 eP 34 42.60 1.5					SUA 1.73 34 ePd 47 32.15 0.2	ROB 0.67 76 P 11 25.50 -0.3
TIA 85.58 54 eP 34 43.90 1.9					eS 47 54.83	S 11 34.15
MRWA 86.25 119 eP 34 46.20 0.7					SVW 1.76 308 eP 47 31.11 -1.2	IMI 0.70 108 P 11 26.19 -0.1
BAL 86.96 121 eP 34 49.00 0.1					PMS 1.98 52 iPd 47 34.80 -0.3	S 11 35.19
NJ2 86.98 58 eP 34 48.00 -1.0					eS 47 59.45	BHB 0.74 16 P 11 26.53 -0.4
BAG 88.81 74 eP 34 52.00 -6.2X					SKT 2.03 17 ePd 47 35.32 -0.3	S 11 36.69
CN2 91.77 46 eP 35 12.00 0.7					LTI 2.47 88 eP 47 40.26 -1.0	RRL 0.80 350 P 11 28.27 0.2
1.4s 25.00nm 5.4mb					KNK 2.52 55 eP 47 40.57 -1.5	S 11 39.92
Z 16s 4.05um 6.0mszx					KNIM 2.53 81 eP 47 40.21 -2.0	FIN 0.89 85 P 11 29.42 -0.2
YAK 92.38 28 eP 35 14.00 0.4					GHO 2.55 46 eP 47 41.54 -0.9	S 11 41.30
MDJ 94.65 45 eP 35 24.50 0.0					CUT 2.65 26 eP 47 43.42 -0.3	BNI 0.94 347 P 11 35.00 4.5X
RSSD 119.36 324 PKP 40 58.80 5.2X					SML 2.79 49 eP 47 44.12 -1.5	CKI 0.98 72 P 11 31.80 0.7
Z 21s 1.96um 5.7msz					FID 3.20 75 eP 47 49.78 -1.3	eSg 11 45.00
GLD 122.63 321 PKP 41 05.00 5.1X					TRF 3.61 18 eP 47 57.10 0.3	PCP 1.20 70 P 11 35.53 0.7
Z 18s 1.66um 5.7msz					38 obs. associated	
GOL 122.75 321 PKP 40 57.60 -2.6X					S.D. = 0.4 on 11 of 12 obs.	
Z 18s 1.30um 5.6msz					OCT 09, 1991 20h 02m 23.32 ± 0.53s	
LRM 122.77 331 ePKP 41 01.70 1.7					39.755 N ± 5.3km 141.929 E ± 9.8km	
NEW 123.07 335 PKP 40 58.80 -1.5					DEPTH = 76.1 ± 5.6 km	
PNT 123.23 338 ePKP 40 59.00 -1.5					4.7mb (4 obs.)	
BW06 123.33 326 PKP 41 01.50 0.3					EASTERN HONSHU, JAPAN (227)	
PV09 125.81 322 PKP 41 07.60 1.3					OFUJ 0.70 197 iP+ 02 38.10 -0.8	BKM 3.82 166 iP 07 19.50 5.0X
ANMO 126.15 317 PKP 41 08.60 1.7					S 02 48.10	PVC 3.91 165 iP 07 23.00 7.4X
Z 20s 1.60um 5.7msz					AOMJ 1.44 304 P 02 47.40 -0.6	HNR 8.44 301 eP 08 16.00 1.7
MSU 127.64 324 PKP 41 12.50 2.8X					YAMJ 2.16 224 iPd 02 57.60 -0.3	BRS 19.00 223 iPd 10 25.50 2.1
ORV 131.87 332 PKP 41 19.00 1.6					MRRJ 2.74 347 eP 03 05.90 0.0	0.7s 14.50nm 4.6mb
CMB 132.50 329 PKP 41 20.00 1.3					eS 03 40.00	iS 13 52.00
GSC 132.54 324 ePKP 41 22.00 3.1X					HOOJ 2.82 21 eP 03 08.20 1.3	CTAO 20.97 250 iPc 10 44.50 1.4
GLA 132.84 320 ePKP 41 25.00 5.5X					eS 03 42.00	0.9s 64.88nm 5.2mb
SBB 133.56 324 ePKP 41 24.00 3.1X					NIIJ 3.40 223 eP 03 15.20 0.1	e 10 52.00 28kmX
PEC 133.72 323 PKP 41 24.60 3.4X					KAKJ 3.81 202 P 03 20.10 -0.6	e 11 15.00
PLM 133.91 322 PKP 41 32.50 10.8X					KUSJ 3.94 31 eP 03 21.30 -1.3	eS 14 21.00
S.D. = 1.0 on 236 of 290 obs.					eS 04 05.20	COO 21.77 218 iPc 10 55.00 4.1X
& OCT 09, 1991 19h 47m 01.56s					MAT 4.35 224 eP 03 29.00 0.6	1.1s 145.00nm 5.4mb
60.054 N 152.771 W					0.6s 18.00nm (S) 04 33.00	QLP 24.92 236 iPc 11 22.00 1.1
DEPTH = 114.9km					CHJJ 4.37 213 eP 03 29.10 0.4	0.5s 100.00nm 5.7mb
SOUTHERN ALASKA (2)					ASAJ 4.39 7 eP 03 29.70 0.7	i 11 23.90 7kmX
<AEIC>.					MTMJ 4.54 227 eP 03 31.60 0.5	CMS 26.27 225 iPc 11 33.50 0.3
INE 0.15 273 eP 47 16.93 0.7					IIDJ 5.33 218 eP 03 43.10 1.0	i 12 13.00 198km
eS 47 28.89					GUN 47.34 273 P 10 51.76 0.0	BWA 26.56 217 eP 11 35.20 -0.7
INW 0.18 274 ePc 47 16.88 0.6					0.6s 23.00nm 5.3mb	e 12 15.40 201km
iS 47 29.53					KKN 47.86 274 P 10 55.66 0.0	CNB 26.68 214 iPd 11 38.00 1.1
RED 0.37 360 ePc 47 17.92 -0.6					0.7s 23.00nm 5.2mb	1.2s 83.00nm 5.3mb
eS 47 30.04					PKI 47.87 273 P 10 55.42 -0.5	i 12 19.50 209km
RS1 0.41 1 ePc 47 18.38 -0.5					DMN 48.09 274 P 10 57.58 0.1	CAN 26.88 214 eP 11 39.40 0.7
iS 47 31.56					GKN 48.25 274 P 10 57.78 -0.8	QIS 27.17 252 eP 11 41.40 -0.1
RS2 0.41 1 ePc 47 18.51 -0.4					HFS 71.78 336 eP 13 39.20 0.2	e 12 21.00 197km
eS 47 31.21					0.4s 1.40nm 4.2mb	PGZ 27.72 165 eP 11 44.00 -2.1
RSO 0.41 1 eP 47 18.41 -0.5					NB2 71.84 337 P 13 39.60 0.2	0.4s 30.00nm 5.4mb
iS 47 30.61					0.7s 2.10nm 4.2mb	LTZ 29.06 172 P 11 57.70 -0.4
REF 0.44 4 ePc 47 18.49 -0.6					S.D. = 0.7 on 20 of 20 obs.	
iS 47 31.37					OCT 09, 1991 20h 17m 16.67 ± 0.74s	
RDN 0.46 0 ePc 47 18.69 -0.4					43.429 N ± 4.9km 5.446 E ± 6.0km	
eS 47 31.07					DEPTH = 5.0km (geophysicist)	
OPT 0.46 210 iPc 47 17.90 -1.1					NEAR SOUTH COAST OF FRANCE (379)	
iS 47 30.55					ML 2.8 (STR).	
RDT 0.55 19 ePc 47 19.07 -0.6					GELF 0.05 197 Pg 17 17.70 -0.4	TOO 30.46 216 eP 12 11.60 1.1
iS 47 32.03					TREF 0.20 347 Pg 17 20.49 -0.3	BWZ 30.56 176 P 12 10.20 -1.0
HOM 0.69 124 eP 47 19.91 -0.7					PUYF 0.21 61 Pg 17 20.71 -0.3	BFD 31.93 219 eP 12 22.00 -1.3
iS 47 34.78					BERF 0.21 123 Pg 17 21.77 0.7	TUZ 31.97 177 Pc 12 23.50 0.1
NNL 0.74 90 iPc 47 21.38 0.4					CDR 0.34 43 eP 17 14.50 -9.0X	WR2 31.97 255 eP 12 22.80 -1.1
AUL 0.75 207 iPd 47 20.18 -0.9					e(Pg) 17 23.10	0.8s 12.80nm 4.6mb
eS 47 35.56					i(Sg) 17 28.50	ASPA 32.93 248 iPc 12 31.30 -0.9
AUP 0.77 206 eP 47 20.27 -1.1					PRAF 0.43 332 Pg 17 25.84 0.6	0.8s 64.20nm 5.3mb
eS 47 34.48					VILF 0.47 25 Pg 17 25.97 -0.1	i 13 19.00 234kmX
XLV 0.80 138 iPc 47 20.40 -1.2					TAVF 0.48 67 Pg 17 26.12 -0.2	eS 17 31.60
iS 47 35.11					S.D. = 0.6 on 7 of 8 obs.	
CNPM 0.94 124 iPc 47 22.11 -0.8					OCT 09, 1991 23h 11m 12.47 ± 1.95s	
eS 47 37.84					44.135 N ± 10.2km 6.972 E ± 11.2km	
NKA 1.03 47 eP 47 25.42 1.7					DEPTH = 10.0km (geophysicist)	
CKL 1.17 10 iPd 47 25.28 -0.1					FRANCE (538)	
eS 47 43.70					ML 2.3 (GEN).	
MCNL 1.18 223 ePd 47 23.79 -1.6					STV 0.28 67 P 11 18.11 -0.2	WARB 39.87 246 iPc 13 31.00 0.7
CDD 1.21 202 iPc 47 23.99 -1.8					S 11 22.04	0.4s 13.00nm 4.8mb
eS 47 41.26					ENR 0.34 74 P 11 19.15 -0.3	PMO 43.39 97 iP 14 01.20 2.1
BGL 1.23 9 iPd 47 26.15 0.1					S 11 23.65	0.8s 25.00nm 4.8mb
CGLM 1.31 16 iPd 47 26.97 0.0					PZZ 0.38 14 P 11 20.42 0.1	VAH 43.63 98 iP 14 02.70 1.6
iS 47 46.76					S 11 26.07	0.8s 20.00nm 4.7mb
SLKM 1.35 69 ePc 47 26.66 -0.7						TPT 43.66 97 iP 14 03.30 2.0
eS 47 45.24						0.8s 20.00nm 4.7mb
NCG 1.39 12 eP 47 28.17 0.3						0.8s 30.00nm 4.9mb
eS 47 48.82						MBL 45.63 254 iPc 14 17.30 0.4
						KLB 48.46 240 iPc 14 37.80 -1.0
						NWAO 49.13 238 iPc 14 43.30 -0.6

10d 00n

	0.5s	17.00nm	4.7mb			e	19 56.00	202km	FIN	144.93	333	PKP	25 28.54	-0.8	
BAL	49.20	242 eP	14 43.60	-0.9	LRM	93.26	44 eP	19 07.10	-0.6	SOI	144.94	319	PKPc	25 30.00	0.5
RKG	49.62	236 eP	14 47.00	-0.6	NVL	93.82	188 Pd	19 09.00	-0.6	RRL	144.95	336	PKP	25 29.87	0.2
MRWA	49.64	243 iPc	14 47.30	-0.5			e	20 07.00	237kmX	BST	145.00	350	PKP	25 29.79	0.5
	0.5s	8.00nm	4.5mb		ANMO	94.88	55 eP	19 15.90	0.6	ROB	145.01	334	PKP	25 29.05	-0.5
NANU	49.65	252 iPc	14 48.30	0.4			pP	20 06.70	205km	PZZ	145.16	335	PKP	25 29.05	-0.8
	0.7s	52.00nm	5.1mb		SIV	123.74	120 PKP	24 51.30	0.5	PLDF	145.22	340	PKP	25 31.01	1.2
MUN	49.83	240 eP	14 49.40	0.2	KAF	124.46	339 ePKP	24 50.20	-0.6	ENR	145.25	334	PKP	25 28.95	-1.0
BAG	55.09	302 eP	15 28.00	-0.5		0.6s	16.30nm			ATN	145.26	319	PKP	25 29.80	-0.3
		e	16 12.10	195km	NUR	126.14	338 iPKP	24 53.90	-0.2	STV	145.28	334	PKP	25 28.95	-1.1
MAT	57.21	332 iPc	15 42.10	-0.8	MTD	126.62	237 iPKPd	25 15.00	18.6X	IMI	145.31	333	PKP	25 29.36	-0.7
	0.7s	12.33nm	4.7mb		BUL	127.05	231 iPKPd	24 57.00	-0.3	AGO	145.31	340	PKP	25 30.94	1.0
NJ2	65.10	316 Pc	16 36.00	0.1	PPD	127.96	133 ePKP	24 58.20	-0.6	COLF	145.59	339	PKP	25 31.96	1.5
	0.8s	34.00nm	5.2mb		KRI	128.17	235 iPKPd	25 00.50	1.0	PYM	145.62	340	PKP	25 31.98	1.4
QIZ	65.34	299 P	16 38.20	0.6	APD	129.57	343 ePKP	24 45.00	-15.7X	MNO	145.89	319	PKPc	25 33.10	1.7
MDJ	67.58	332 Pc	16 51.00	-0.3		0.4s	0.70nm			LBL	145.99	340	PKP	25 33.68	2.5X
	1.0s	55.00nm	5.2mb		NB2	129.87	345 PKP	25 00.80	-0.5	USI	146.34	322	PKPc	25 33.70	1.9
DL2	67.66	323 P	16 52.80	0.9		0.8s	9.30nm			CDR	146.39	335	iPKPc	25 34.20	2.4X
TIA	68.74	318 eP	16 58.10	-0.6	LSZ	130.17	236 iPKPc	25 04.00	0.7	MTHF	148.25	338	PKP	25 39.43	4.6X
CN2	68.97	329 P	17 00.00	0.2	HRI	132.05	302 ePKP	24 59.70	-6.7X	LSPF	148.46	339	PKP	25 39.91	4.8X
	0.7s	33.00nm	5.2mb		DSI	132.68	300 ePKP	25 00.70	-6.8X	LESF	148.60	340	PKP	25 40.29	5.0X
GYA	71.25	304 P	17 14.60	0.4	RMN	133.50	299 ePKP	25 01.80	-7.4X	GRBF	148.68	340	PKP	25 39.97	4.4X
	1.0s	10.00nm	4.5mb		KRA	135.22	330 ePKP	25 12.10	0.4	MLS	148.73	340	PKP	25 39.81	4.3X
BJI	71.65	321 eP	17 16.00	-0.1	SPC	135.64	329 e(PKP)	25 14.70	1.9	TRGS	148.83	339	PKP	25 40.71	4.8X
	1.8s	57.00nm	5.0mb		KSP	136.33	334 ePKP	25 13.60	-0.2	SALF	148.87	340	PKP	25 40.03	4.2X
LOE	71.76	294 eP	17 17.60	0.4			i	25 15.80		BTH	148.99	342 iPKPc	25 41.60	5.7X	
TIY	72.67	317 iPc	17 23.60	1.3	BZS	137.14	324 ePKP	25 12.00	-3.5X			i	25 44.50		
	1.0s	34.00nm	5.0mb		BRG	137.30	335 iPKP	25 15.60	0.0			i	25 49.60		
XAN	73.15	312 Pc	17 25.50	0.4		1.0s	18.00nm			ENSF	149.11	341	PKP	25 42.59	6.3X
	0.7s	13.00nm	4.8mb		CLL	137.33	336 iPKP	25 15.80	0.1	EBR	150.83	339 ePKP	25 45.00	6.3X	
		sP	17 36.50			1.1s	21.00nm			KIC	169.09	227	PKPc	25 58.98	-0.2
KMI	73.88	302 Pc	17 31.00	1.3	SRO	137.52	329 ePKP	25 20.60	4.5X		1.1s	22.50nm			
	1.5s	100.00nm	5.3mb		PRU	137.72	334 ePKP	25 16.50	0.1	LIC	169.19	225	PKPc	25 59.24	0.0
CHG	74.74	294 eP	17 36.00	1.5			e	28 33.50			1.0s	13.00nm			
	0.9s	25.21nm	4.9mb		ZST	137.85	330 ePKP	25 17.30	0.6	TIC	169.48	227	PKP	25 59.22	-0.2
CHTO	74.74	294 iPc	17 35.60	1.1	MOX	138.40	337 iPKPd	25 20.00	2.3X		S.D. = 1.0 on 148 of 182 obs.				
	0.8s	20.13nm	4.9mb			1.4s	12.00nm				OCT 10, 1991 00h 38m 17.93±1.20s				
HHC	74.98	320 P	17 36.60	1.0	KHC	138.78	334 ePKP	25 19.00	0.5		43.129 N ± 4.5km 126.563 W ± 10.4km				
CD2	75.52	307 P	17 39.40	0.7	GRF	139.31	336 ePKP	25 16.40	-3.0X		DEPTH = 10.0km (geophysicist)				
	1.0s	17.00nm	4.7mb			0.9s	6.00nm				4.2mb (1 obs.)				
BTO	75.82	319 eP	17 39.80	-0.5	ENN	140.27	341 ePKP	25 24.00	3.0X		OFF COAST OF OREGON (30)				
LZH	77.78	312 P	17 58.00	6.7X		1.0s	12.00nm			DBO	2.43	89 Pc	38 57.57	-0.8	
	1.8s	79.00nm	5.1mb		MEM	140.39	341 PKP	25 21.40	0.2	H50	2.57	80 Pc	38 59.52	-0.8	
Z	15s	0.68um	5.1mszX		LJU	140.61	330 e(PKP)	25 22.40	0.6			S	39 31.97		
		pP	18 40.00	171kmX	VBY	140.63	329 e(PKP)	25 16.00	-5.8X	MPOR	2.58	57 Pc	38 59.70	-0.8	
YAI	81.26	343 iPc	18 09.40	0.4	CEY	140.88	330 e(PKP)	25 22.00	-0.3	HBO	3.17	76 Pc	39 08.84	-0.1	
		i	18 57.00	195km	VOY	140.93	330 e(PKP)	25 15.60	-6.9X	KMOR	3.34	40 P	39 10.53	-0.7	
GTA	82.11	314 iPc	18 15.70	1.5			e	25 21.20				S	39 49.57		
	0.6s	36.00nm	5.3mb		WTTA	141.04	333 iPKPc	25 10.10	-12.7X	GT2	3.69	55 P	39 16.73	0.4	
MAW	82.59	202 eP	18 17.00	1.0		0.8s	18.60nm					S	40 01.78		
SYF	84.14	52 eP	18 25.00	0.5			i	25 18.20		NLO	3.70	36 Pc	39 16.28	-0.2	
ORV	84.88	47 eP	18 28.80	0.8			i	25 22.90		TCO	3.73	73 P	39 17.36	0.3	
		pP	19 17.00	196km	WLF	141.16	340 PKP	25 17.00	-5.6X	PGO	3.76	50 P	39 18.53	1.3	
MWC	85.52	53 eP	18 31.00	-0.5	DOU	141.27	342 PKP	25 26.20	3.4X	LBFM	3.90	116 eP	39 21.60	2.2	
FBA	85.62	18 eP	18 31.00	-0.1	PDCR	142.92	134 ePKP	25 22.90	-3.8X	VLMM	4.04	52 Pd	39 21.64	0.4	
	1.0s	2.50nm	4.0mb X				e	25 26.20				S	40 09.92		
		pP	19 18.80	194km	ARV	143.22	328 PKP	25 25.20	-1.3	TDH	4.05	56 P	39 21.90	0.4	
ISA	85.69	52 eP	18 33.00	0.8	VAI	143.36	335 PKP	25 24.10	-2.4X	RVW	4.07	41 P	39 21.75	0.2	
SB8	85.86	53 eP	18 33.00	0.0	SFI	143.46	330 PKPc	25 25.70	-1.1	VBEM	4.07	60 P	39 22.15	0.4	
RVR	85.97	54 eP	18 34.00	0.5	PGD	143.56	330 PKPc	25 26.00	-1.2	BMW	4.10	34 P	39 21.20	-0.8	
BAR	86.09	55 eP	18 34.00	-0.2	CRE	143.63	329 PKPc	25 25.40	-1.9	LVP	4.18	44 P	39 23.43	0.3	
PLM	86.16	54 eP	18 35.00	0.3	DUI	143.67	325 PKP	25 25.80	-1.6	VLL	4.21	55 Pc	39 24.26	0.6	
CWC	86.26	51 eP	18 35.00	-0.1	ROI	143.73	320 PKP	25 27.00	-0.5	MTMW	4.25	46 P	39 23.98	-0.2	
CLC	86.41	52 eP	18 36.00	0.3	AQU	143.78	326 PKP	25 26.30	-1.2			S	40 13.95		
GSC	86.85	53 eP	18 38.00	0.2	CSI	143.78	321 PKP	25 25.90	-1.6	GMO	4.27	70 Pc	39 23.82	-0.7	
GLA	87.68	55 eP	18 43.00	1.2	MME	143.81	331 PKP	25 26.70	-1.0	VFP	4.27	57 P	39 25.27	0.7	
GUN	89.00	299 PKPc	18 48.76	0.2	ORX	143.88	335 PKP	25 25.36	-2.3	FL2	4.29	43 Pc	39 25.26	0.4	
	0.7s	41.00nm	5.5mb		ORO	143.89	335 PKP	25 25.90	-1.7	SHW	4.35	44 P	39 26.10	0.4	
PKI	89.30	299 PKPc	18 49.96	0.0	SGO	143.89	323 PKPc	25 25.90	-1.7	JLK	4.36	45 P	39 25.18	-0.6	
	0.7s	47.00nm	5.5mb		MMN	143.90	321 PKP	25 25.80	-1.8	APM	4.36	52 P	39 26.03	0.2	
KKN	89.47	299 PKPc	18 50.80	0.2	BDI	143.96	331 PKPc	25 25.30	-2.5X	HSR	4.36	44 P	39 26.23	0.3	

ASR 4.66 48 P 39 30.21 0.1
S 40 26.01
LMW 4.66 39 P 39 30.17 0.1
VTHM 4.78 63 P 39 31.44 -0.3
GLK 4.92 44 P 39 33.93 0.2
LON 4.95 41 P 39 34.52 0.4
REMR 4.98 41 P 39 34.94 0.3
S 40 33.15
GL2 4.98 53 P 39 34.29 -0.3
RVC 5.01 39 P 39 35.35 0.3
WPW 5.04 43 P 39 35.44 0.0
S 40 34.21
FMW 5.14 41 P 39 37.28 0.3
S 40 36.97
GSM 5.29 38 P 39 39.02 0.1
JBO 5.36 62 P 39 39.29 -0.7
EBG 5.69 46 P 39 44.65 0.1
HTW 5.76 34 P 39 44.83 -0.7
RSW 5.94 34 P 39 47.51 -0.6
MDW 5.96 52 P 39 48.02 -0.2
GBL 6.12 53 P 39 50.19 -0.4
ARN 6.94 145 eP 40 01.50 -0.6
PNT 7.84 35 eP 40 14.00 -0.7
S 40 15.00nm 5.4mb X
BGMT 10.64 74 eP 40 54.10 0.4
FFC 19.77 46 eP 42 50.00 -0.8
S 40 10.00nm 4.2mb
S.D. = 0.6 on 58 of 58 abs.

OCT 10, 1991 00h 41m 29.92± 1.17s
38.101 N ±10.5km 22.031 E ± 6.6km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 3.1 (ATH), 2.8 (THE).

AGG 0.95 14 ePg 41 49.96 1.9
VLS 1.14 274 ePn 41 51.80 0.5
ATH 1.34 95 ePn 41 55.10 0.6
LIT 2.03 10 ePb 42 04.48 -0.1
KZN 2.21 355 ePn 42 08.40 1.1
PAIG 2.23 35 ePn 42 06.56 -0.9
eSn 42 31.40
KEK 2.37 313 ePn 42 08.00 -1.5
OUR 2.70 34 ePn 42 13.12 -1.0
FNA 2.73 349 ePn 42 14.68 0.1
GRG 2.87 6 ePn 42 16.68 0.2
SOH 2.90 20 ePn 42 16.68 -0.4
KNT 3.13 12 ePn 42 20.12 -0.1
SRS 3.24 21 ePn 42 21.12 -0.7
eSn 42 56.92
S.D. = 1.0 on 13 of 13 abs.

? OCT 10, 1991 00h 43m 53.62± 2.42s
32.253 S ±21.4km 68.687 W ±33.7km
DEPTH = 80.0km (geophysicist)
MENDOZA PROVINCE, ARGENTINA (139)

ZON 0.70 1 iPc 44 09.50 -0.1
eS 44 23.50
JACH 1.67 255 iPd 44 23.00 1.3
PEL 1.90 242 iPc 44 25.50 0.7
iS 44 52.50
SAN 2.05 234 iPc 44 27.40 0.6
iS 44 56.20
PCH 2.05 228 iPc 44 27.90 1.0
iS 44 58.00
ROCH 2.09 249 iPc 44 27.20 -0.3
iS 44 56.00
CHCH 2.35 224 iPc 44 31.50 0.6
iS 45 04.50
TACH 2.35 233 iPc 44 31.00 0.1
iS 45 03.00
LCCH 2.71 243 iPd 44 34.20 -1.7
LNV 2.85 233 iP 44 35.50 -2.2
iS 45 12.00
S.D. = 1.3 on 10 of 10 abs.

OCT 10, 1991 01h 32m 29.44± 0.14s
17.505 S ± 3.9km 174.535 W ± 3.8km
DEPTH = 152.0km (17 depth phases)
5.3mb (46 abs.)
TONGA ISLANDS (173)
Ma=2.0*10**17 Nm (PPT).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 24S, 50C
Centroid Location:

Origin Time 01:32:33.1 0.4
Lat 17.44S 0.04 Lon 174.25W 0.03
Dep 158.7 1.2 Half-duration 2.5
Mament Tensor: Scale 10**17 Nm
Mrr=-1.40 0.07 Mtt=-2.88 0.11
Mff= 1.48 0.11 Mrt=-0.58 0.08
Mrf=-1.55 0.08 Mtf= 1.10 0.12
Principal Axes:
T Val= 3.22 Plg=42 Azm=105
N -0.07 48 279
P -3.15 3 12
Best Double Couple: Mo=3.2*10**17
NP1: Strike=140 Dip=59 Slip= 149
NP2: 247 64 35

AFI 4.45 37 iPd 33 30.20 -6.3X
eS 34 10.00
UDU 5.39 284 ePc 33 53.30 4.3X
KRO 5.80 271 eP 33 59.00 4.5X
NDE 5.95 278 ePc 34 01.50 5.0X
MBU 6.47 274 ePc 34 07.90 4.4X
VUN 6.69 265 ePc 34 11.60 5.1X
SVA 6.70 264 ePc 34 11.90 5.3X
NDF 7.65 267 eP 34 23.20 3.9X
WCZ 20.85 206 eP 37 01.10 0.5
HBZ 29.99 196 eP 37 04.00 2.0
0.3s 61.00nm 5.5mb
KUZ 21.01 202 P 37 03.60 1.4
URZ 21.94 198 eP 37 10.10 -1.2
NOZ 22.02 196 eP 37 13.70 1.6
TAZ 22.09 199 eP 37 14.60 1.8
MOZ 22.91 202 eP 37 21.60 0.8
RUZ 23.28 200 eP 37 24.20 -0.2
AFR 23.61 94 iP 37 27.10 -0.6
1.2s 100.00nm 5.2mb
PAE 23.79 94 iP 37 29.00 -0.4
1.2s 225.00nm 5.6mb
PPT 23.80 94 iP 37 29.30 -0.2
1.2s 270.00nm 5.6mb
PPN 23.94 94 iP 37 30.50 -0.3
1.2s 50.00nm 4.9mb
TVO 24.09 95 iP 37 32.00 -0.4
1.2s 350.00nm 5.8mb
TBI 24.19 108 iP 37 34.10 0.9
1.4s 490.00nm 5.8mb
PGZ 24.36 197 eP 37 35.10 0.4
CAW 25.17 199 eP 37 40.50 -1.7
WDW 25.34 199 eP 37 42.50 -1.2
MRW 25.39 199 eP 37 43.00 -1.2
TCW 25.51 200 eP 37 44.30 -1.1
PMO 25.69 88 iP 37 46.40 -0.7
VAH 25.90 89 iP 37 48.00 -1.1
TPT 25.95 88 iP 37 48.90 -0.7
RUV 26.15 89 iP 37 50.30 -1.1
THZ 26.47 201 eP 37 53.60 -0.6
KHZ 26.84 200 eP 37 56.50 -0.9
0.3s 47.00nm 5.6mb
LTZ 27.59 201 eP 38 02.30 -2.0
MQZ 28.28 200 eP 38 10.30 -0.1
WVZ 28.40 203 eP 38 10.70 -0.7
EWZ 28.73 202 eP 38 13.80 -0.6
BWZ 29.96 203 eP 38 24.40 -0.9
LRCZ 30.62 203 eP 38 30.20 -1.1
TUZ 31.28 202 eP 38 37.20 0.4
BRS 31.69 246 iPd 38 41.50 0.8
0.8s 17.50nm 4.9mb
iS 38 49.00 26kmX
iS 38 53.00
iSP 39 19.00
iS 44 39.00
COO 33.17 241 iPc 38 55.80 2.2
0.7s 50.00nm 5.3mb
iS 39 33.00 176kmX
CNB 36.62 234 iPd 39 23.70 0.9
e 39 57.00 150km
CAN 36.90 234 eP 39 24.10 -1.1
e 40 03.10 179kmX
BWA 37.08 236 eP 39 23.20 -3.4X
e 40 02.90 183kmX
RKT 37.44 105 iP 39 30.20 0.5
1.2s 170.00nm 5.6mb
CMS 38.44 241 iPc 39 38.20 0.1
i 40 16.00 175kmX
QLP 39.13 249 iPc 39 44.00 0.2
0.6s 113.00nm 5.8mb
TOO 40.31 232 iPc 39 53.70 0.3
0.4s 22.00nm 5.2mb

MDG 40.67 283 eP 40 33.20 183kmX
STK 42.07 242 iPd 40 08.60 0.8
0.5s 43.30nm 5.3mb
e 40 46.40 173kmX
BFD 42.44 234 eP 40 08.70 -2.0
QIS 43.35 258 eP 40 17.50 -0.9
ADE 44.97 238 iPd 40 30.60 -0.6
0.4s 108.47nm 5.8mb
WR2 48.31 259 iPc 40 56.10 -1.4
0.7s 37.00nm 5.2mb
WRA 48.33 259 P 40 56.00 -1.7
0.3s 33.00nm 5.5mb
GUMO 50.60 305 eP 41 31.00 16.1X
MTN 52.51 267 eP 41 28.00 -1.3
FORR 53.48 244 eP 41 35.00 -1.2
0.3s 23.00nm 5.5mb
WARB 54.89 250 eP 41 45.30 -1.4
0.4s 23.00nm 5.4mb
COOL 59.46 244 eP 42 17.00 -1.7
MBL 61.65 255 eP 42 32.10 -1.6
0.3s 98.00nm 6.2mb
KLB 62.30 243 eP 42 37.00 -0.9
0.6s 38.00nm 5.5mb
NWA0 62.65 242 eP 42 39.00 -1.2
RKG 62.74 240 eP 42 40.00 -0.7
BAL 63.29 244 eP 42 43.00 -1.4
0.5s 26.00nm 5.4mb
MUN 63.59 243 eP 42 45.00 -1.3
0.6s 40.00nm 5.5mb
MRWA 64.04 246 eP 42 48.00 -1.3
PCI 66.52 277 ePd 43 07.00 1.6
ADK 69.12 359 eP 43 19.50 -1.1
1.0s 36.00nm 5.2mb
BAG 72.25 294 eP 43 40.90 0.4
SYP 73.25 45 eP 43 45.00 -0.9
SDN 73.53 8 e(P) 43 46.00 -0.9
PAS 74.26 46 eP 43 51.00 -0.6
MWC 74.38 46 eP 43 52.00 -0.6
RVR 74.72 46 eP 43 53.00 -1.3
SBB 74.80 46 eP 43 54.00 -0.8
e 44 32.00 155km
PEC 74.81 47 P 43 53.50 -1.4
ISA 74.91 44 eP 43 55.00 -0.4
e 44 33.00 154km
CMB 75.05 41 P 43 55.00 -1.2
1.0s 16.00nm 4.7mb
ORV 75.28 40 P 43 57.00 -0.4
CLC 75.58 45 eP 43 58.00 -1.3
e 44 37.00 159km
KDC 77.18 12 eP 44 07.50 0.0
KLI 79.61 268 eP 44 21.00 -0.8
e 44 46.00 95kmX
RSO 79.66 11 P 44 20.20 -1.1
PGC 79.99 32 eP 44 22.00 -1.0
MDJ 80.03 323 eP 44 24.00 0.7
1.0s 27.00nm 4.9mb
SLKM 80.18 12 P 44 22.90 -0.9
pP 45 00.60 151km
MSU 80.68 45 P 44 28.00 0.8
pP 45 07.00 157km
PMR 81.39 12 eP 44 30.70 0.7
0.5s 12.00nm 4.9mb
TTA 81.48 8 eP 44 31.50 0.9
DL2 81.88 315 eP 44 34.20 1.2
CN2 82.00 321 eP 44 34.00 0.4
1.0s 17.00nm 4.7mb
eP 45 11.00 148km
eS 54 34.00
SNY 82.10 318 Pd 44 35.20 1.1
1.0s 21.00nm 4.8mb
PNT 82.36 33 ePd 44 35.00 -0.4
0.7s 13.00nm 4.8mb
AIA 82.42 157 eP 44 38.10 2.7
BALM 82.42 15 P 44 35.20 -0.4
TOA 82.47 13 eP 44 36.20 0.5
PV09 82.74 46 P 44 37.30 -0.7
ANMO 82.98 50 P 44 39.00 -0.1
1.1s 37.97nm 5.1mb
pP 45 17.00 151km
LRM 84.33 38 ePc 44 45.40 -0.4
BW06 84.56 42 P 44 45.90 -1.0
1.0s 11.67nm 4.7mb
pP 45 24.00 151km
FBA 84.66 11 eP 44 46.30 -0.3
1.0s 70.00nm 5.4mb
IMA 84.79 8 eP 44 48.10 0.6

10d 01h																				
MAW	85.46	199	epP	45	25.80	149km	PRU	146.78	349 PKP	51	55.00	2.1X	TMA	151.34	355	ePKPd	52	06.60	6.3X	
	1.0s		iPd	44	52.40	1.6		1.0s	28.50nm				KKB	151.41	332	iPKP	52	07.00	6.7X	
GOL	85.89	46	P	44	53.10	-0.6			e	51	56.60		MMK	151.46	356	ePKPd	52	07.80	7.2X	
	1.0s								e	52	08.00		DIX	151.46	357	ePKPd	52	07.90	7.3X	
			pP	45	33.00	159km	ENN	146.81	359	ePKP	51	55.00	2.1X	EMS	151.49	358	ePKPd	52	07.80	7.2X
BJI	86.13	314	eP	44	55.50	1.1		1.0s	30.00nm				PLDF	151.58	3	PKP	52	01.50	1.0	
	1.5s						MEM	146.97	359	iPKPc	51	55.38	2.3X	SAL	151.66	353	PKP	52	07.20	6.7X
			pP	45	33.00	148km			e	52	37.20		PYM	151.76	4	PKP	52	02.09	1.3	
SNG	87.25	278	eP	45	02.00	1.6	SNF	147.06	1	iPKPc	51	55.59	2.3X	ORO	151.88	356	PKP	52	07.60	6.6X
			e	45	39.80	149km	MLR	147.28	333	ePKP	51	54.50	0.5	BNI	152.52	358	PKP	52	10.30	8.3X
SES	87.54	35	eP	45	01.00	-0.1	PSZ	147.44	342	ePKP	51	53.00	-1.1	SFI	153.12	350	PKP	52	03.70	1.1
TIY	87.78	311	eP	45	04.00	1.4	DOU	147.48	1	PKPc	51	56.90	2.9X	ARV	153.32	348	PKP	52	03.60	0.6
GYA	88.07	298	P	45	05.80	1.5	GRF	147.56	353	iPKPc	51	57.20	3.0X	LIC	164.81	136	PKP	52	17.30	0.5
	1.2s						Z	22s	0.10um			4.6Msz	KIC	165.10	137	PKP	52	17.20	0.1	
			pP	45	42.40	143km	PSN	147.60	328	ePKP	51	58.00	3.6X	TIC	165.12	135	PKP	52	17.50	0.4
RSSD	88.74	43	P	45	06.00	-1.2	KHC	147.77	350	iPKP	51	54.80	0.2	S.D. = 1.1 on 164 of 220 obs.						
	1.0s							1.4s	77.80nm				? OCT 10, 1991 01h 42m 38.45± 8.28s							
			pP	45	44.50	151km			e	51	57.70		19.107 N ± 33.2km 64.857 W ± 60.8km							
MEO	88.80	53	iPd	45	06.50	-1.0			e	52	36.70		DEPTH = 10.0km (geophysicist)							
XAN	88.98	306	P	45	09.50	1.2	WLF	147.92	359	iPKPc	51	58.66	4.0X	VIRGIN ISLANDS (91)						
	1.0s						ZST	147.94	345	ePKP	51	55.10	0.3							
HHC	89.66	313	Pd	45	13.00	1.5			i	51	59.00		LPR	1.25	231	P	43	01.50	-0.1	
	1.2s								e	52	37.60		S			S	43	16.50		
INK	90.56	14	eP	45	14.00	-0.8	SRO	147.99	344	iPKP	51	58.60	3.7X	CPD	1.46	224	P	43	04.80	-0.1
BTO	90.64	313	eP	45	17.70	1.7	VKA	148.06	346	ePKP	51	55.00	0.0	SJG	1.58	231	P	43	06.30	-0.2
LNV	90.80	126	ePd	45	18.00	1.2			i	52	02.30		S			S	43	26.30		
LCCH	90.85	125	eP	45	18.00	1.7			e	52	39.00		CLLP	1.92	238	P	43	12.20	0.7	
SIO	90.89	53	eP	45	17.20	0.1	BUD	148.09	342	ePKP	51	54.70	-0.3	S			S	43	35.50	
KMI	90.96	296	Pc	45	20.60	2.7	BHL	148.43	307	PKP	52	00.00	3.8X	PORP	1.99	238	P	43	12.50	0.0
	1.8s						GWf	148.56	357	PKP	51	56.41	0.6	S			S	43	35.50	
			pP	45	58.50	148km	HRI	148.61	306	ePKP	51	48.00	-8.5X	LRS	2.05	247	P	43	13.30	-0.1
TACH	91.27	126	eP	45	20.50	1.4	BZS	148.90	338	ePKP	51	53.50	-2.9X	MCP	2.24	253	P	43	16.00	-0.2
TUL	91.34	53	ePc	45	19.50	0.4	UZD	149.03	342	PKP	51	56.50	-0.1	MGP	2.38	243	P	43	18.20	0.0
	1.8s						FUR	149.05	352	ePKP	52	00.90	4.3X	S.D. = 0.3 on 8 of 8 obs.						
ROCH	91.47	125	eP	45	22.00	1.7	CDf	149.14	358	PKP	51	56.45	-0.4	? OCT 10, 1991 01h 47m 59.32± 0.70s						
SAN	91.56	126	eP	45	22.00	1.6	BHG	149.26	350	iPKPc	52	01.50	4.6X	33.251 S ± 6.8km 70.997 W ± 7.7km						
PCH	91.61	126	ePd	45	23.00	2.3		1.2s	73.00nm				DEPTH = 33.0km (normol)							
PEL	91.66	125	iPc	45	23.00	2.1	ECH	149.34	358	PKP	51	57.61	0.6	CHILE-ARGENTINA BORDER REGION (127)						
CHG	92.35	289	iPd	45	26.70	2.6	VITF	149.37	359	PKP	51	57.47	0.4	ROCH	0.28	358	eP	48	07.00	-0.1
	1.2s						JVI	149.41	304	ePKP	51	49.70	-8.0X	eS	48	15.00				
CHTO	92.35	289	iP	45	25.00	0.9	FEL	149.64	357	PKP	51	57.74	0.1	PEL	0.28	68	iPc	48	07.10	0.2
	1.2s						MOF	149.70	358	PKP	51	57.52	-0.2	iS	48	15.10				
LZH	93.59	307	eP	45	30.00	0.3	SLE	149.72	356	ePKPd	52	02.50	4.9X	TACH	0.40	173	iPd	48	09.40	0.9
	1.0s						KBA	149.80	349	iPKPc	51	56.80	-1.2	eS	48	18.70				
FVM	96.07	52	P	45	40.80	-0.1		0.9s	36.80nm				LCCH	0.53	245	eP	48	10.50	0.1	
	1.0s								i	52	02.20		PCH	0.55	133	eP	48	10.30	-0.4	
ZOBO	100.12	111	ePd	46	02.00	1.6			i	52	47.80		iS	48	21.20					
			SKS	56	36.00		WATA	149.83	352	iPKPd	51	57.90	-0.1	CHCH	0.74	157	iPc	48	13.20	-0.1
			LR	19	46.00			0.9s	48.80nm				iS	48	25.50					
SIV	106.47	113	(PKP)	50	48.00	9.4X			i	52	02.40		LNV	0.78	206	iP	48	13.30	-0.6	
OBN	135.57	335	ePKP	51	33.00	0.1			i	52	42.60		iS	48	26.40					
BUL	136.23	212	ePKP	51	34.90	-0.5	WTTA	149.89	352	iPKPc	51	57.00	-1.1	S.D. = 0.6 on 7 of 7 obs.						
NB2	136.32	356	PKP	51	23.20	-11.0X		0.9s	104.00nm				OCT 10, 1991 02h 05m 11.74± 0.72s							
	0.7s								i	52	02.70		40.804 N ± 6.8km 29.221 E ± 6.9km							
HFS	137.01	354	ePKP	51	23.40	-12.1X			i	52	41.90		DEPTH = 10.0km (geophysicist)							
	0.4s								i	52	45.20		TURKEY (366)							
MTD	137.31	218	iPKPc	51	35.10	-2.4X	BEO	150.00	338	e(PKP)	51	58.00	-0.1	GBZT	0.17	95	ePg	05	16.20	0.6
WIT	144.75	359	ePKP	51	49.50	0.1	ZLA	150.01	356	ePKPd	52	03.70	5.6X	iSg	05	18.80				
			e	52	31.50		BBS	150.07	357	PKP	51	58.10	-0.1	YLV	0.26	154	iPg	05	17.60	0.3
KRA	145.50	343	iPKPd	51	50.90	0.1	LOMF	150.21	358	PKP	51	57.83	-0.6	iSg	05	22.60				
	1.3s						FVI	150.37	350	PKPc	52	03.40	4.9X	ISK	0.29	335	iPg	05	18.10	0.3
WTS	145.57	359	iPKPd	51	51.10	0.3	PTJ	150.37	345	e(PKP)	51	58.10	-0.6	iSg	05	22.60				
	1.0s						PGB	150.38	331	iPKP	52	04.00	5.2X	HRT	0.34	87	iPg	05	18.10	-0.7
KSP	145.63	348	iPKPc	51	50.80	-0.2	ZAG	150.44	345	iPKPc	52	04.00	5.3X	iSg	05	22.80				
	1.4s						KDZ	150.48	329	iPKPc	52	04.00	5.1X	IZI	0.50	158	iPg	05	21.80	-0.2
CLL	145.74	352	iPKPc	51	51.40	0.2	RMN	150.48	301	ePKP	51	52.40	-7.0X	CTT	0.69	300	iPg	05	25.10	-0.3
	1.2s						LJU	150.56	347	ePKPc	52	04.10	5.2X	iSg	05	35.10				
			iP	52	29.90				e	52	44.00		S.D. = 0.6 on 6 of 6 obs.							
KAS	146.02	320	iPKPd	51	54.30	2.2X	LLS	150.57	355	ePKPd	52	05.10	5.9X	OCT 10, 1991 02h 44m 49.64± 0.58s						
BRG	146.03	350	iPKPc	51	52.30	0.7	OSS	150.64	353	ePKPd	52	05.40	6.2X	41.399 N ± 9.1km 43.259 E ± 8.8km						
	1.1s						VOY	150.70	348	ePKP	51	59.10	-0.1	DEPTH = 10.0km (geophysicist)						
			i	52	31.40				e	52	04.50		4.4mb (3 obs.)							
SPC	146.20	342	ePKP	51	52															

BBTK 8.14 262 eSg 47 35.00
 BHD 8.16 173 ePn 46 52.00 1.3
 eSn 49 04.00
 eSg 50 06.00
 VRI 12.78 296 eP 48 07.50 13.4X
 MLR 13.23 294 eP 48 00.10 -0.1
 MAIO 13.63 107 eP 48 07.00 1.5
 OBN 14.40 344 eP 48 19.00 3.7X
 SPC 17.92 304 eP 49 02.60 2.0
 SRO 18.84 298 eP 49 12.50 0.8
 ZST 19.71 299 eP 49 21.80 -0.2
 PTJ 20.22 292 eP 49 26.00 -1.4
 KSP 20.84 306 ePc 49 33.00 -0.8
 PRU 21.71 303 P 49 42.50 -0.1
 KHC 22.17 300 P 49 47.50 0.3
 e 50 04.40

NUR 22.29 335 eP 49 48.50 0.3
 CLL 22.96 306 eP 49 55.00 0.0
 KAF 23.10 340 iP 49 56.90 0.6
 GRB1 23.46 301 iPc 50 00.10 0.3
 1.1s 29.00nm 4.7mb
 HFS 26.12 326 eP 50 24.00 -1.1
 0.8s 8.00nm 4.5mb
 NB2 27.64 326 P 50 37.00 -2.1
 0.9s 1.50nm 3.7mb
 S.D. = 1.1 on 18 of 21 obs.

* OCT 10, 1991 03h 13m 33.87± 0.99s
 38.958 N ± 10.5km 25.792 E ± 9.1km
 DEPTH = 23.5 ± 9.7 km
 AEGEAN SEA (365)
 ML 3.3 (ATH).

PRK 0.47 52 iPbc 13 43.90 0.4
 EZN 0.96 25 iPg 13 54.40 2.7X
 eSg 14 06.10
 IZM 1.28 115 iPn 13 56.50 0.1
 ATH 1.90 239 ePn 14 06.00 0.7
 ALN 1.95 6 eP 14 10.00 4.0X
 MFT 2.16 32 ePn 14 11.00 1.9
 RDO 2.19 355 ePb 14 00.40 -9.1X
 KDZ 2.70 354 iP 14 18.00 1.2
 RZN 2.85 344 iPd 14 19.00 0.0
 CTT 2.98 42 ePn 14 20.60 -0.1
 IZI 3.16 63 ePn 14 22.00 -1.3
 YLV 3.19 59 ePn 14 23.00 -0.8
 KKB 3.57 325 iP 14 27.00 -2.1
 S.D. = 1.4 on 10 of 13 obs.

% OCT 10, 1991 05h 48m 46.62± 0.69s
 40.452 N ± 6.0km 23.094 E ± 6.3km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 MD 2.0 (THE).

SOH 0.42 28 ePg 48 55.28 0.1
 LIT 0.58 233 ePg 48 58.40 0.0
 eSg 49 08.20
 OUR 0.69 100 ePg 49 00.64 0.4
 PAIG 0.69 139 ePg 48 59.92 -0.3
 eSg 49 09.88
 KNT 0.72 348 ePg 49 00.24 -0.6
 eSg 49 11.92
 GRG 0.73 314 ePg 49 01.44 0.5
 eSg 49 13.52
 S.D. = 0.6 on 6 of 6 obs.

OCT 10, 1991 06h 10m 03.98± 0.74s
 42.331 N ± 8.2km 25.128 E ± 4.4km
 DEPTH = 5.0km (geophysicist)
 BULGARIA (359)
 MD 3.2 (THE).

PLD 0.39 235 iPg 10 10.00 -1.8
 DIM 0.41 133 iPg 10 12.00 -0.2
 Sg 10 18.00
 RZN 0.71 206 iPg 10 15.00 -3.2X
 PGB 0.74 287 iPg 10 19.00 0.1
 Sg 10 30.00
 JMB 1.09 82 iPd 10 25.00 0.1
 VTS 1.44 281 P 10 31.00 0.0
 ALN 1.59 154 ePb 10 32.52 -0.3
 eSb 10 52.93
 KKB 1.59 254 iP 10 32.00 -0.9
 SRS 1.67 224 ePb 10 33.60 -0.4
 SOH 2.01 222 ePbd 10 39.96 1.0

DMK 2.02 104 ePn 10 42.00 2.9X
 KNT 2.04 236 ePb 10 40.84 1.5
 eSb 11 06.36
 OUR 2.17 204 ePb 10 42.64 1.4
 eSb 11 08.82
 THE 2.35 224 ePn 10 46.04 2.2X
 GRG 2.46 237 ePn 10 48.00 2.5X
 PAIG 2.64 205 ePn 10 47.80 -0.1
 CTT 2.74 114 ePn 10 49.00 -0.4
 SKO 2.77 264 eP 10 56.50 6.7X
 MLR 3.21 10 eP 11 08.00 11.8X
 S.D. = 1.0 on 13 of 19 obs.

% OCT 10, 1991 06h 18m 26.59± 1.04s
 39.632 N ± 6.2km 16.571 E ± 10.7km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN ITALY (390)

ROI 0.06 181 P 18 29.60 0.7
 CSI 0.26 304 P 18 32.30 0.2
 ACI 0.40 226 P 18 33.10 -1.7
 CZI 0.53 219 P 18 36.40 -1.0
 MGR 0.93 303 P 18 45.40 1.0
 eSg 18 59.80
 BRT 1.34 21 P 18 50.10 -1.1
 eSg 19 10.00
 SGO 1.34 314 P 18 54.00 2.8X
 SOI 1.61 195 P 18 55.80 0.7
 ATN 1.70 211 P 18 57.70 1.2
 S.D. = 1.3 on 8 of 9 obs.

OCT 10, 1991 06h 32m 16.76± 0.43s
 6.935 N ± 10.2km 73.145 W ± 8.4km
 DEPTH = 170.6 ± 8.1 km
 3.7mb (1 obs.)
 NORTHERN COLOMBIA (99)

BMG 0.15 27 iPc 32 40.00 -1.0
 BOG 2.47 202 eP 33 00.00 0.6
 iS 33 31.00
 SDV 3.15 52 iPnc 33 09.20 1.6
 eSn 33 47.20
 HOBC 3.93 229 iPc 33 17.11 -0.3
 eS 33 52.00
 BUGC 4.33 226 eP 33 22.73 0.1
 TOV 4.36 49 ePn 33 24.60 1.6
 eSn 34 14.50
 CLMC 4.56 228 eP 33 25.45 -0.2
 HOQC 4.89 225 ePc 33 29.06 -1.1
 ANCC 5.03 228 eP 33 31.58 -0.1
 SILC 5.28 217 ePc 33 35.82 0.4
 PURC 5.59 215 eP 33 40.72 1.1
 UPA 6.65 288 ePc 33 53.00 -0.1
 S 34 05.00
 OLLA 6.98 64 eP 33 56.80 -0.9
 CAR 7.10 60 eP 34 04.00 4.8X
 LLAU 7.18 60 eP 33 59.90 -0.5
 CUMC 7.58 219 eP 34 06.19 0.1
 GUAN 8.00 67 eP 34 09.90 -1.3
 LIC 67.62 86 P 42 57.70 0.0
 KIC 67.89 86 P 42 59.30 -0.1
 NB2 81.24 29 P 44 17.70 3.0X
 0.6s 1.00nm 3.7mb
 S.D. = 0.9 on 18 of 20 obs.

% OCT 10, 1991 06h 48m 25.81± 1.05s
 39.642 N ± 5.9km 16.557 E ± 10.2km
 DEPTH = 10.0km (geophysicist)

SOUTHERN ITALY (390)
 ROI 0.07 172 P 48 28.80 0.6
 CSI 0.25 303 P 48 31.40 0.3
 ACI 0.40 223 P 48 33.20 -0.8
 MMN 0.50 300 P 48 34.40 -1.6
 CZI 0.53 218 P 48 35.60 -1.0
 MGR 0.92 303 P 48 44.70 1.4
 eSg 48 59.10
 SGO 1.33 314 P 48 51.70 1.5
 BRT 1.33 22 P 48 49.00 -1.3
 eSg 49 09.00
 SOI 1.62 194 P 48 56.20 1.8
 eSg 49 17.30
 ATN 1.71 210 P 48 55.00 -0.8
 S.D. = 1.4 on 10 of 10 obs.

* OCT 10, 1991 07h 04m 02.53± 0.74s
 31.656 S ± 12.0km 57.778 E ± 21.0km

DEPTH = 10.0km (geophysicist)
 5.1mb (7 obs.)
 SOUTHWEST INDIAN RIDGE (428)

NVL 46.43 199 Pd 12 30.50 -0.2
 POO 52.23 19 eP 13 17.00 1.0
 HYB 52.71 25 ePc 13 20.00 0.4
 1.0s 30.00nm 5.2mb
 QUE 62.12 9 eP 14 27.80 1.6
 CHG 63.85 44 eP 14 38.50 0.9
 CHTO 63.85 44 eP 14 36.90 -0.7
 1.0s 7.25nm 4.8mb
 DMN 64.43 27 P 14 41.00 -0.6
 PKI 64.52 27 P 14 41.10 -1.1
 1.3s 29.00nm 5.3mb
 GKN 64.61 26 P 14 41.88 -0.7
 1.0s 60.00nm 5.7mb
 KKN 64.66 27 P 14 42.42 -0.6
 0.9s 35.00nm 5.5mb
 GUN 65.00 27 P 14 45.12 -0.3
 WR2 68.70 101 eP 15 08.00 -0.7
 0.8s 5.20nm 4.8mb
 STK 69.35 115 eP 15 13.70 1.2
 1.0s 3.00nm 4.4mb
 MLR 82.04 338 eP 16 24.00 -0.2
 YKA 148.76 353 ePKP 23 50.00 3.0X
 0.8s 6.20nm
 S.D. = 0.9 on 14 of 15 obs.

OCT 10, 1991 07h 19m 24.27± 0.51s
 39.639 N ± 5.7km 16.652 E ± 4.9km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN ITALY (390)

ROI 0.09 224 P 19 28.20 1.3
 CSI 0.31 296 P 19 30.50 -0.3
 ACI 0.45 230 P 19 31.40 -2.1
 MMN 0.57 296 P 19 35.20 -0.6
 eSg 19 41.80
 CZI 0.58 224 P 19 34.80 -1.2
 MGR 0.98 301 P 19 45.00 2.1
 eSg 19 58.90
 LCI 1.22 55 Pc 19 48.80 1.9
 eSn 20 05.50
 BRT 1.31 19 Pc 19 48.10 -0.3
 eSn 20 05.50
 SGO 1.38 312 P 19 51.00 1.5
 eSn 20 08.00
 BAI 1.49 6 P 19 50.50 -0.5
 SOI 1.63 197 P 19 53.80 0.7
 eSn 20 15.70
 ATN 1.74 213 P 19 56.00 1.2
 eSn 20 18.40
 MNO 2.29 222 P 20 02.50 -0.4
 HVAR 3.54 358 ePn 20 18.50 -1.8
 FNA 3.79 71 eP 20 22.76 -1.3
 SKO 4.32 56 e(Pn) 20 41.50 10.0X
 AGG 4.45 96 eP 20 34.76 1.5
 GRG 4.59 71 eP 20 35.72 0.4
 KNT 5.01 70 eP 20 39.92 -1.3
 PAIG 5.42 85 iP 20 46.32 -0.8
 S.D. = 1.4 on 19 of 20 obs.

* OCT 10, 1991 07h 39m 53.34± 2.98s
 36.016 N ± 25.0km 15.553 E ± 10.6km
 DEPTH = 10.0km (geophysicist)
 SICILY (398)

MEU 1.19 335 P 40 16.20 0.6
 eSg 40 31.00
 FAI 1.96 310 P 40 26.90 -0.1
 SOI 2.09 11 Pc 40 29.10 0.3
 eSn 40 53.20
 ATN 2.14 358 P 40 30.10 0.5
 eSg 40 54.50
 CZI 3.23 8 P 40 44.00 -1.0
 ROI 3.64 12 P 40 51.50 0.6
 CSI 3.80 9 P 40 53.80 0.6
 MGR 4.11 0 P 40 56.00 -1.6
 eSn 41 41.00
 AGG 6.17 59 eP 41 26.80 0.1
 S.D. = 0.9 on 9 of 9 obs.

? OCT 10, 1991 07h 49m 10.57± 5.68s
 2.599 N ± 19.2km 75.677 W ± 41.6km
 DEPTH = 10.0km (geophysicist)
 COLOMBIA (103)

10d 07h

MD 3.1 (UVC).

SILC 0.67 278 iPd 49 23.99 -0.1
eS 49 35.30
PURC 0.74 248 eP 49 25.35 0.0
eS 49 37.70
HOQC 1.29 312 eP 49 34.50 -0.1
ANCC 1.50 307 eP 49 38.16 0.6
CLMC 1.55 325 eP 49 38.08 -0.3
S.D. = 0.5 on 5 of 5 obs.

? OCT 10, 1991 07h 50m 31.24±0.91s
33.088 S ± 9.3km 70.905 W ± 12.0km
DEPTH = 33.0km (normal)

CHILE-ARGENTINA BORDER REGION (127)

ROCH 0.15 322 eP 50 38.90 1.2
iS 50 47.00
PEL 0.19 107 (P) 50 40.00 2.2
iS 50 47.50
JACH 0.48 33 iPd 50 40.00 -1.7
iS 50 49.50
TACH 0.56 183 iPd 50 43.00 0.2
iS 50 54.60
PCH 0.62 149 iP 50 43.20 -0.5
eS 50 55.00
LCCH 0.68 235 eP 50 44.50 0.2
CHCH 0.87 166 iPd 50 46.50 -0.6
iS 51 00.50
LNV 0.96 206 iPd 50 47.50 -0.9
iS 51 02.30
S.D. = 1.5 on 8 of 8 obs.

* OCT 10, 1991 07h 52m 46.19±1.25s
17.657 N ± 13.7km 101.041 W ± 11.4km
DEPTH = 77.1 ± 19.2 km

NEAR COAST OF GUERRERO, MEXICO (58)

ACX 1.38 125 iP 53 09.25 -0.9
iS 53 24.00
III 1.66 64 iP 53 13.50 -0.6
iS 53 36.00
MRX 2.04 356 eP 53 18.00 -1.1
iS 53 45.50
UNM 2.43 46 eP 53 25.50 0.8
PPM 2.69 58 iP 53 28.00 -0.6
CGX 3.07 312 eP 53 34.50 1.0
ISM 3.72 69 eP 53 42.50 0.0
OXX 4.16 97 (P) 53 51.00 2.1
ZOBO 46.78 134 eP 01 10.00 -0.6
S.D. = 1.4 on 9 of 9 obs.

? OCT 10, 1991 08h 29m 08.25±5.89s
2.730 N ± 22.4km 75.031 W ± 44.7km
DEPTH = 10.0km (geophysicist)

COLOMBIA (103)

MD 3.9 (UVC).

SILC 1.31 268 iPd 29 32.06 -0.7
eS 29 49.40
PURC 1.39 253 iPd 29 34.21 0.1
eS 29 53.10
HOQC 1.76 295 iPd 29 39.43 0.2
eS 30 02.30
CLMC 1.91 307 ePd 29 41.00 -0.3
eS 30 05.00
HOBC 1.95 326 ePc 29 41.65 -0.3
ANCC 1.99 293 iPc 29 43.01 0.6
eS 30 08.50
S.D. = 0.6 on 6 of 6 obs.

* OCT 10, 1991 08h 52m 37.55±0.87s
13.291 N ± 10.5km 121.088 E ± 9.2km
DEPTH = 53.2km (3 depth phases)
5.0mb (19 obs.)

MINDORO, PHILIPPINE ISLANDS (250)

HKC 11.12 325 eP 55 16.20 -0.3
QZH 11.83 349 Pc 55 26.90 0.8
0.7s 70.00nm 5.8mb
GZH 12.20 324 Pc 55 31.00 -0.1
QIZ 12.21 299 eP 55 33.40 2.1
SSE 17.72 0 P 56 43.50 1.4
1.0s 21.00nm 4.2mb
WHN 18.26 341 Pd 56 50.00 1.2
1.2s 70.00nm 4.7mb
NJ2 18.78 354 eP 56 55.00 -0.2

GYA 18.83 316 iPc 57 11.60
1.0s 60.00nm 4.8mb
CHG 21.97 287 ePd 57 39.00 10.4X
CHTO 21.97 287 iP 57 30.80 2.2
0.8s 10.61nm 4.3mb
TIA 23.10 352 eP 58 18.90
0.9s 68.00nm 5.1mb
XAN 23.43 334 iPd 57 42.50 -0.3
0.5s 42.00nm 5.2mb
PP 58 10.80
CD2 23.72 320 P 57 45.00 -0.6
0.8s 170.00nm 5.6mb
TIY 25.52 344 eP 58 02.00 -0.8
1.0s 57.00nm 5.0mb
DL2 25.52 1 P 58 02.40 -0.3
BJI 26.99 352 eP 58 15.50 -0.8
1.5s 63.00nm 5.0mb
LZH 27.49 329 eP 58 20.00 -1.0
1.5s 110.00nm 5.3mb
SNY 28.51 4 Pd 58 29.40 -0.6
1.2s 20.00nm 4.6mb
HHC 28.69 345 P 58 31.20 -0.6
1.3s 60.00nm 5.1mb
BTO 28.88 342 eP 58 32.00 -1.5
MDJ 32.05 11 eP 59 01.50 0.2
GTA 32.08 328 Pc 59 01.00 -0.8
1.0s 74.00nm 5.5mb
pP 59 13.00 4.6km

LSA 32.15 305 iPc 59 03.20 0.2
MBL 34.26 182 eP 59 29.00 8.3X
WR2 35.52 158 eP 00 03.20 31.7X
0.7s 12.10nm
GUN 35.87 299 P 59 34.64 -0.2
PKI 36.18 299 P 59 36.86 -0.6
0.7s 51.00nm 5.6mb
KKN 36.35 299 P 59 38.18 -0.5
DMN 36.45 299 P 59 39.18 -0.4
GKN 36.95 299 P 59 42.96 -0.8
WARB 39.61 172 eP 00 16.00 10.3X
MAIO 59.42 304 eP 02 37.00 -0.3
KAF 80.59 332 iP 04 45.00 -0.6
0.3s 1.40nm 4.4mb
NUR 81.69 330 eP 04 51.50 0.2
INK 83.34 21 eP 05 02.00 2.2
MBC 83.87 12 eP 05 03.50 1.1
1.0s 17.00nm 5.0mb
UPP 85.25 330 iP 05 09.20 -0.3
KRA 86.94 321 eP 05 18.40 0.3
HFS 87.01 331 ePKP 05 18.30 0.1
0.4s 1.70nm 4.6mb
NB2 87.79 333 P 05 21.20 -0.8
1.2s 13.80nm 5.0mb
S.D. = 0.9 on 36 of 40 obs.

% OCT 10, 1991 09h 25m 56.95±0.56s
37.815 N ± 5.7km 15.008 E ± 4.9km
DEPTH = 10.0km (geophysicist)

SICILY (398)

MNO 0.27 295 P 26 03.60 0.8
eSg 26 09.00
ATN 0.50 46 P 26 07.60 0.5
eSg 26 16.40
MEU 0.72 185 P 26 10.70 -0.4
eSg 26 19.50
GIB 0.80 283 P 26 12.00 -0.5
eSg 26 24.90
SOI 0.87 72 P 26 14.20 0.6
eSg 26 27.90
FAI 1.19 243 Pd 26 19.50 0.4
ROI 2.14 34 P 26 32.20 -1.0
CSI 2.20 27 P 26 34.30 0.2
MMN 2.21 20 P 26 34.60 0.5
eSg 27 01.40
MGR 2.36 10 P 26 36.00 -0.3
eSg 27 04.70
SGO 2.75 5 P 26 41.00 -0.9
eSg 27 14.00
S.D. = 0.7 on 11 of 11 obs.

% OCT 10, 1991 09h 27m 56.92±0.64s
37.805 N ± 6.5km 15.012 E ± 5.3km
DEPTH = 10.0km (geophysicist)

SICILY (398)

MNO 0.27 295 P 26 03.60 0.8
eSg 26 09.00
ATN 0.50 46 P 26 07.60 0.5
eSg 26 16.40
MEU 0.72 185 P 26 10.70 -0.4
eSg 26 19.50
GIB 0.80 283 P 26 12.00 -0.5
eSg 26 24.90
SOI 0.87 72 P 26 14.20 0.6
eSg 26 27.90
FAI 1.19 243 Pd 26 19.50 0.4
ROI 2.14 34 P 26 32.20 -1.0
CSI 2.20 27 P 26 34.30 0.2
MMN 2.21 20 P 26 34.60 0.5
eSg 27 01.40
MGR 2.36 10 P 26 36.00 -0.3
eSg 27 04.70
SGO 2.75 5 P 26 41.00 -0.9
eSg 27 14.00
S.D. = 0.7 on 11 of 11 obs.

% OCT 10, 1991 09h 27m 56.92±0.64s
37.805 N ± 6.5km 15.012 E ± 5.3km
DEPTH = 10.0km (geophysicist)

SICILY (398)

MNO 0.28 297 P 28 04.10 1.2
eSg 28 07.60
ATN 0.50 45 Pc 28 08.20 1.1
eSg 28 16.00
MEU 0.71 185 Pd 28 10.10 -0.8
eSg 28 19.60
GIB 0.80 284 P 28 12.90 0.4
eSg 28 24.30
SOI 0.87 72 P 28 14.30 0.7
eSg 28 27.80
MCT 1.11 261 P 28 24.30 6.5X
(Sg) 28 39.10
FAI 1.19 244 P 28 20.00 1.0
CZI 1.66 32 P 28 25.30 -0.9
USI 1.70 303 P 28 25.00 -1.8
ROI 2.14 34 P 28 32.80 -0.4
CSI 2.21 26 P 28 34.90 0.7
MMN 2.22 20 P 28 34.20 0.0
eSg 29 01.40
MGR 2.37 10 P 28 35.50 -0.9
SGO 2.76 5 P 28 41.70 -0.3
S.D. = 1.0 on 13 of 14 obs.

? OCT 10, 1991 09h 43m 26.46±1.18s
31.777 S ± 29.2km 69.098 W ± 24.7km
DEPTH = 33.0km (normal)

SAN JUAN PROVINCE, ARGENTINA (137)

MD 4.0 (SAN).

ZON 0.42 57 iPc 43 36.00 0.0
eS 43 50.00
JACH 1.56 234 iP 43 53.60 1.4
iS 44 14.70
PEL 1.91 224 iPc 43 57.20 -0.2
iS 44 21.50
ROCH 2.01 233 eP 43 58.00 -1.0
iS 44 22.60
PCH 2.19 213 iP 44 02.20 0.8
iS 44 31.10
TACH 2.43 219 iPd 44 03.60 -1.1
iS 44 34.50
CHCH 2.52 211 iPd 44 06.10 0.1
iS 44 37.50
LNV 2.92 221 iPd 44 08.50 -3.1X
iS 44 41.60
S.D. = 1.1 on 7 of 8 obs.

% OCT 10, 1991 10h 33m 20.23±0.65s
37.772 N ± 6.7km 15.085 E ± 5.5km
DEPTH = 10.0km (geophysicist)

SICILY (398)

MNO 0.35 297 P 33 27.00 -0.5
eSg 33 32.30
ATN 0.49 38 P 33 31.00 0.8
eSg 33 39.50
MEU 0.68 190 P 33 33.00 -0.8
eSg 33 43.10
SOI 0.82 68 P 33 37.20 1.1
eSg 33 50.00
GIB 0.86 285 P 33 36.40 -0.5
eSg 33 49.20
MCT 1.16 263 P 33 43.80 1.8
FAI 1.22 247 P 33 43.00 0.0
eSg 33 59.10
CZI 1.66 29 P 33 48.10 -1.4
USI 1.77 302 P 33 47.90 -3.1X
ROI 2.14 32 P 33 55.70 -0.8
CSI 2.21 25 P 33 57.70 0.2
MMN 2.23 18 P 33 57.50 -0.2
eSg 34 23.50
MGR 2.39 9 P 33 57.90 -2.1X
eSg 34 26.30
SGO 2.79 4 P 34 06.00 0.3
S.D. = 1.0 on 12 of 14 obs.

? OCT 10, 1991 11h 05m 11.84±3.02s
3.424 N ± 27.9km 76.459 W ± 19.8km
DEPTH = 33.0km (normal)

COLOMBIA (103)

MD 3.1 (UVC).

HOQC 0.18 284 iPd 05 18.63 0.1
ANCC 0.42 283 iPc 05 21.18 -0.1
CLMC 0.47 347 iPc 05 22.14 0.0

BUGC 0.51 23 eS 05 31.50
eP 05 22.51 -0.2
eS 05 32.20
HOBC 0.98 19 ePc 05 29.56 0.2
eS 05 44.50
S.D. = 0.2 on 5 of 5 obs.

OCT 10, 1991 11h 41m 08.80±0.64s
40.658 N ± 5.5km 15.976 E ± 6.6km
DEPTH = 10.0km (geophysicist)

SOUTHERN ITALY (390)

SGO 0.52 259 P 41 19.00 -0.3
eSg 41 26.30
MGR 0.61 212 P 41 21.00 -0.1
eSg 41 31.50
MMN 0.77 179 P 41 25.20 1.4
eSg 41 37.50
BAI 0.82 55 P 41 24.00 -0.6
eSg 41 36.00
CSI 0.91 165 P 41 26.50 0.2
eSg 41 41.50
BRT 0.96 76 P 41 25.00 -1.2
eSg 41 39.30
ROI 1.18 157 P 41 31.30 0.5
CZI 1.44 175 P 41 34.10 -0.8
DUI 1.52 312 P 41 35.00 -1.1
eSg 41 54.40
LCI 1.54 101 P 41 40.10 3.8X
eSn 42 00.80
ATN 2.53 189 P 41 50.00 -0.5
eSn 42 19.80
HVAR 2.54 8 ePn 41 53.30 2.6
SOI 2.58 179 P 41 51.40 0.1
eSn 42 21.30
SKO 4.32 71 ePn 42 21.00 5.0X
S.D. = 1.2 on 12 of 14 obs.

% OCT 10, 1991 12h 46m 49.22±1.72s
43.908 N ± 13.7km 7.781 E ± 6.8km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
ML 2.0 (GEN).

IMI 0.08 88 P 46 51.94 0.2
S 46 53.99
ROB 0.39 9 P 46 57.68 0.4
S 47 03.83
FIN 0.43 45 P 46 57.88 -0.1
S 47 04.14
STV 0.47 316 P 46 58.81 0.0
S 47 05.27
PZZ 0.77 321 P 47 04.24 -0.1
S 47 15.01
PCP 0.84 41 P 47 05.16 -0.3
S 47 16.34
S.D. = 0.3 on 6 of 6 obs.

% OCT 10, 1991 13h 01m 00.66±0.86s
37.737 N ± 8.0km 14.980 E ± 7.0km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO 0.30 311 P 01 07.00 0.0
eSg 01 13.50
ATN 0.57 42 P 01 12.00 -0.2
eSg 01 20.10
MEU 0.64 184 P 01 13.00 -0.5
eSg 01 24.30
GIB 0.80 289 P 01 17.00 0.8
eSn 01 30.00
SOI 0.91 68 P 01 19.00 0.9
eSg 01 33.20
CZI 1.73 31 P 01 16.90 -14.1X
ROI 2.21 34 P 01 38.80 0.8
eSg 02 02.60
MGR 2.44 10 P 01 39.30 -1.8
eSn 02 07.30
S.D. = 1.2 on 7 of 8 obs.

OCT 10, 1991 13h 09m 33.09±0.47s
43.082 N ± 7.0km 0.630 W ± 3.4km
DEPTH = 10.0km (geophysicist)
PYRENEES (378)
ML 1.0 (STR).

ESCF 0.04 95 Pg 09 34.61 -0.6

ATE 0.05 275 Pg 09 34.98 -0.3
Sg 09 36.06
OGE 0.14 53 Pg 09 36.28 -0.2
MADF 0.15 295 Pg 09 36.71 0.0
Sg 09 39.21
LHE 0.17 178 Pg 09 37.16 0.2
JAU 0.20 103 Pg 09 37.43 -0.1
Sg 09 39.96
ELYF 0.28 289 Pg 09 39.03 0.1
Sg 09 43.58
BOH 0.28 274 Pg 09 39.23 0.2
Sg 09 43.50
BTH 0.31 82 iPg 09 40.30 0.7
iSg 09 44.80
S.D. = 0.4 on 9 of 9 obs.

? OCT 10, 1991 13h 19m 27.59±3.39s
33.609 N ± 28.1km 138.542 E ± 15.8km
DEPTH = 33.0km (normal)
4.2mb (1 obs.)

SOUTH OF HONSHU, JAPAN (211)

IIDJ 1.94 345 P 19 58.30 -0.6
S 20 22.80
CHJJ 2.46 9 P 20 06.60 0.3
WKYJ 2.53 285 P 20 07.30 0.0
S 20 37.50
TSRJ 2.86 313 iPd 20 11.80 0.0
eS 20 46.50
KAKJ 2.92 27 eP 20 12.50 -0.2
MAT 2.94 355 eP 20 13.00 0.0
eS 20 49.00
MTMJ 3.03 349 iP+ 20 14.90 0.5
eS 20 52.30
NB2 76.41 337 P 31 20.60 5.4X
0.7s 1.80nm 4.2mb
S.D. = 0.4 on 7 of 8 obs.

% OCT 10, 1991 14h 05m 33.10s
59.782 N 151.460 W
DEPTH = 50.4km
KENAI PENINSULA, ALASKA (14)
<AEIC>. ML 2.7 (AEIC).

HOM 0.15 217 iPd 05 41.05 -0.2
eS 05 47.70
NNL 0.27 17 iPd 05 42.82 0.7
CNPM 0.28 156 ePc 05 41.62 -0.6
eS 05 48.37
BRLK 0.29 93 iPc 05 41.93 -0.4
XLV 0.35 202 eP 05 41.87 -1.0
eS 05 48.95
INE 0.85 290 iPc 05 48.09 -1.1
eS 05 59.78
INW 0.89 290 ePc 05 48.58 -1.1
iS 06 00.90
OPT 0.91 263 ePc 05 48.85 -0.9
eS 06 00.61

RED 0.92 315 iPd 05 49.12 -0.9
eS 06 02.21

RDT 0.92 330 iPd 05 49.15 -0.9
eS 06 02.44

RS1 0.94 317 iPd 05 49.67 -0.7
RSO 0.94 317 iPd 05 49.64 -0.8
eS 06 02.95

REF 0.94 319 iPd 05 49.62 -0.8
eS 06 02.76

RS2 0.94 317 iPd 05 49.67 -0.8
eS 06 03.24

SLKM 0.96 40 ePc 05 50.01 -0.5
NKA 0.97 6 iPd 05 52.07 1.5

RDN 0.98 319 iPd 05 49.96 -1.0
eS 06 03.62

AUE 1.06 247 ePc 05 51.14 -0.7
eS 06 05.48

SEW 1.06 71 eP 05 49.95 -1.9
AUL 1.08 249 ePc 05 51.55 -0.6

AUP 1.08 248 iPc 05 51.65 -0.6
AGU 1.09 248 iPc 05 51.59 -0.8

AUH 1.09 248 ePc 05 51.76 -0.6
AUI 1.10 247 ePc 05 51.52 -0.9
eS 06 06.40

AUW 1.10 249 ePd 05 51.60 -0.9
SYI 1.27 203 eP 05 53.76 -1.0
eS 06 09.37

CDD 1.41 234 iPc 05 55.88 -0.9
eS 06 11.67

SPU 1.44 348 iPd 05 56.60 -0.6
CKL 1.48 343 iPd 05 57.32 -0.6
CRP 1.53 347 eP 05 58.53 -0.1
CGLM 1.55 350 ePc 05 58.45 -0.4
BGL 1.56 343 ePd 05 58.60 -0.3
MCNL 1.59 249 eP 05 58.23 -1.0
eS 06 17.65

NCG 1.66 348 iPd 06 00.25 -0.2
SUA 1.72 12 eP 06 01.44 0.1
eS 06 25.24

PMS 1.74 32 ePc 06 01.43 0.0
eS 06 23.44

LTI 1.84 80 eP 06 01.31 -1.4
KNIM 1.95 71 ePc 06 02.48 -1.9

PWA 2.03 22 eP 06 05.90 0.4
PLRM 2.15 31 ePc 06 06.28 -0.8

PMR 2.15 31 eP 06 06.13 -1.0
KNK 2.21 41 ePc 06 07.11 -0.9

GHO 2.35 31 ePc 06 09.31 -0.8
GLI 2.43 61 iPc 06 08.86 -2.4

SVW 2.45 305 eP 06 09.73 -1.8
SML 2.55 36 eP 06 10.48 -2.3

FID 2.67 66 eP 06 11.75 -2.7
CUT 2.69 12 eP 06 14.89 0.0

VZW 2.75 60 ePc 06 13.79 -2.0
VLZ 2.88 60 eP 06 15.68 -1.8

SCM 2.89 43 eP 06 16.77 -1.0
KLU 3.22 55 ePc 06 20.34 -2.2

TOA 3.48 46 ePc 06 25.11 -1.0
TZL 3.72 50 eP 06 28.36 -1.1

TRF 3.72 8 eP 06 27.69 -2.0
KTH 3.79 4 eP 06 31.02 0.5

RND 3.84 18 eP 06 29.78 -1.5
SDG 3.97 44 eP 06 33.43 0.4

GLB 4.12 63 eP 06 32.50 -2.6
CRQM 4.26 73 eP 06 35.56 -1.6

PAX 4.31 39 eP 06 36.50 -1.3
BALM 4.69 71 eP 06 40.79 -2.4

YAH 4.90 79 eP 06 44.60 -1.8
63 obs. associated

% OCT 10, 1991 14h 12m 35.73±0.85s
44.326 N ± 8.9km 8.059 E ± 5.6km
DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)
ML 1.5 (GEN).

ROB 0.14 257 P 12 39.53 0.5
S 12 41.27

FIN 0.16 137 P 12 40.35 0.9
S 12 42.60

PCP 0.41 58 P 12 43.63 -0.5
IMI 0.43 196 P 12 43.53 -1.1

ENR 0.47 258 P 12 45.58 0.3
S 12 53.17

STV 0.53 261 P 12 46.40 -0.2
S 12 54.60
S.D. = 0.9 on 6 of 6 obs.

% OCT 10, 1991 14h 45m 43.64s
59.179 N 153.045 W
DEPTH = 79.6km
4.6mb (15 obs.)

SOUTHERN ALASKA (2)
<AEIC>. Felt (IV) at Port Graham
and (II) at Homer.

AUE 0.25 317 iPd 45 55.24 -0.5
AUI 0.25 309 iPd 45 55.08 -0.7

AUP 0.27 314 iPd 45 55.37 -0.6
AGU 0.27 313 iPd 45 55.38 -0.6

AUH 0.28 312 iPd 45 55.43 -0.6
AUL 0.29 316 iPd 45 55.44 -0.5

AUW 0.29 311 iPd 45 55.44 -0.5
CDD 0.40 231 iPc 45 55.87 -0.9

OPT 0.48 349 iPd 45 56.87 -0.6
SYI 0.66 149 iPc 45 58.41 -0.7

MCNL 0.67 271 iPd 45 58.52 -0.6
XLV 0.73 67 iPc 45 58.97 -0.9

IVS 0.83 359 ePc 46 00.48 -0.8
eS 46 13.05
HOM 0.86 56 ePc 46 00.85 -0.4

INE 0.88 359 iPd 46 00.77 -1.0
INW 0.89 357 iPd 46 00.81 -1.0

10d 14h

BRLK	1.25	61	iPc	46 04.99	-1.1	MDM	6.22	19	eP	47 12.01	-2.8				
RED	1.25	6	iPd	46 05.30	-0.9	FBA	6.25	21	ePn	47 12.10	-3.0				
			eS	46 21.90		GLM	6.40	22	eP	47 14.43	-2.9				
RS1	1.29	6	iPd	46 06.12	-0.7	YKU	6.82	81	eP	47 21.04	-1.9				
RS2	1.30	6	iPd	46 06.13	-0.8	IMA	6.92	358	ePn	47 22.74	-1.8				
RSO	1.30	6	iPd	46 06.11	-0.8				eS	48 40.02					
REF	1.33	7	iPd	46 06.46	-0.8	ANM	7.94	318	eP	47 37.24	-1.1				
RDN	1.35	6	iPd	46 06.81	-0.6	FYU	8.22	22	eP	47 39.45	-2.8				
RDT	1.44	13	iPd	46 07.70	-0.9	SIT	9.61	95	eP	47 56.55	-4.6				
			eS	46 26.05		BRW	12.27	354	eP	48 32.60	-4.1				
KDC	1.46	168	iPnd	46 08.05	-0.8	INK	12.52	35	P	48 38.00	-1.9				
			eS	46 25.83			1.0s	2.30nm		3.9mb					
NKA	1.81	29	ePc	46 14.63	1.1	ADK	15.19	252	eP	49 15.36	0.7				
SLKM	1.95	46	ePc	46 14.16	-1.3		0.7s	40.70nm		4.7mb					
SEW	2.05	62	ePc	46 14.80	-1.9	YKA	18.83	63	eP	49 56.90	-2.5				
			eS	46 40.77			0.8s	10.70nm		4.1mb					
CKL	2.05	10	iPd	46 16.44	-0.5	MCW	20.47	108	eP	50 17.36	0.5				
SPU	2.07	13	iPd	46 16.48	-0.6	MBC	20.79	22	eP	50 17.00	-2.8				
			eS	46 41.73			0.5s	24.00nm		4.8mb					
BGL	2.12	9	iPd	46 17.36	-0.4	GMW	21.27	110	eP	50 25.91	1.1				
CRP	2.14	12	ePd	46 17.83	-0.3	PNT	21.66	102	eP	50 30.00	1.3				
CGLM	2.20	13	iPd	46 18.41	-0.5		0.7s	12.00nm		4.4mb					
NCG	2.28	11	iPd	46 19.48	-0.5	RMW	21.81	109	eP	50 31.54	1.2				
			eS	46 46.36		BMW	21.83	112	eP	50 31.81	1.4				
SVW	2.33	327	iPnd	46 19.90	-0.7	LON	22.31	110	eP	50 36.64	1.5				
SUA	2.56	26	iPc	46 23.59	-0.3	NEW	23.60	102	ePc	50 48.70	1.1				
			eS	46 54.85			0.8s	18.75nm		4.6mb					
PMS	2.71	39	ePc	46 24.79	-1.0	LRM	27.60	101	ePd	51 25.00	-0.2				
LTl	2.78	70	ePc	46 24.92	-1.8	HPI	28.77	105	eP	51 36.05	0.2				
			eS	46 55.76		CMB	29.74	121	eP	51 44.50	0.2				
KNIM	2.93	64	ePc	46 26.32	-2.6		1.0s	6.67nm		4.3mb					
PWA	2.94	31	ePc	46 28.06	-0.9	PTI	29.75	105	eP	51 44.90	0.5				
PLRM	3.10	37	ePc	46 29.09	-2.2	BONR	30.74	118	eP	51 53.91	0.6				
PMR	3.10	37	ePn	46 29.09	-2.2	BW06	31.23	102	eP	51 57.20	-0.3				
			ePg	46 33.74			1.0s	9.17nm		4.5mb					
KNK	3.20	44	ePc	46 30.81	-1.8	DUG	31.55	109	eP	52 00.50	0.3				
			eS	47 10.07		DAU	32.14	107	eP	52 06.31	0.7				
GHO	3.31	36	eP	46 32.17	-2.0	BCH	32.26	123	eP	52 07.30	0.9				
GLI	3.44	58	ePc	46 32.89	-3.1	ISA	32.56	121	eP	52 09.00	0.0				
MID	3.45	83	eP	46 34.38	-1.7	ABL	32.92	123	eP	52 12.40	0.1				
CUT	3.51	22	ePc	46 35.76	-1.2	RSSD	33.07	95	eP	52 13.10	-0.5				
SML	3.52	39	eP	46 35.26	-1.9		0.6s	10.57nm		4.9mb					
FID	3.66	62	ePc	46 35.67	-3.3	MSU	33.17	110	ePc	52 15.20	0.7				
VZW	3.76	57	ePc	46 38.27	-2.1	GSC	33.61	119	eP	52 18.00	-0.1				
			eS	47 19.13		SBB	33.67	121	eP	52 19.00	0.4				
SCM	3.88	44	eP	46 40.36	-1.8	MWC	33.96	122	eP	52 22.00	0.8				
VLZ	3.88	57	eP	46 39.77	-2.3	RVR	34.45	121	eP	52 25.00	-0.3				
			eS	47 22.11		PLM	35.22	121	eP	52 32.60	0.6				
CVA	3.93	66	eP	46 39.84	-2.9	GOL	35.62	102	eP	52 35.90	0.4				
TTA	4.03	340	iPnc	46 43.18	-1.1	YAK	35.95	308	iPd	52 35.50	-2.1				
			eS	47 26.27		DAG	41.29	14	ePc	53 19.50	-2.3				
HUR	4.16	22	eP	46 45.33	-0.7	MDJ	47.12	288	eP	54 06.50	-2.6				
SGAM	4.17	68	ePc	46 43.14	-3.1	CN2	49.73	290	Pc	54 27.20	-2.1				
KLU	4.23	54	iPc	46 44.85	-2.3		0.6s	45.00nm		5.7mb X					
			eS	47 32.06				pP	54 46.00	75kmX					
RAGM	4.40	70	ePc	46 46.73	-2.7	SNY	52.13	290	Pd	54 45.60	-1.8				
KAIM	4.45	77	ePc	46 48.06	-2.1		0.8s	10.00nm		4.9mb					
TOA	4.48	46	ePc	46 48.99	-1.6	NB2	59.49	9	P	55 36.60	-3.5				
TRF	4.49	16	ePd	46 49.38	-1.4		1.2s	5.50nm		4.6mb					
KTH	4.51	12	ePd	46 50.37	-0.6	HFS	60.57	8	eP	55 43.70	-3.6				
HMT	4.59	72	eP	46 49.32	-2.8		0.4s	1.20nm		4.4mb					
RND	4.70	24	eP	46 51.39	-2.2	EKA	63.32	19	Pd	56 03.60	-2.1				
TZL	4.73	49	eP	46 52.72	-1.2		0.8s	7.40nm		4.7mb					
SDG	4.97	44	eP	46 55.17	-2.2	GTA	64.88	305	P	56 13.40	-2.9				
MCK	4.98	22	eP	46 56.02	-1.4		1.0s	17.00nm		4.9mb					
GLB	5.12	60	ePc	46 56.48	-3.0			pP	56 27.60	51kmX					
			eS	47 50.81		XAN	65.30	295	eP	56 16.40	-2.5				
CROM	5.22	68	eP	46 58.09	-2.9	WMO	65.84	316	eP	56 18.00	-4.3				
SNH	5.27	75	ePc	46 59.17	-2.4	CD2	70.30	297	P	56 47.40	-2.7				
PAX	5.29	41	eP	46 59.71	-2.2	GUN	80.56	310	P	57 48.00	-0.8				
BWN	5.29	17	ePc	47 00.26	-1.6	KKN	80.91	310	P	57 49.54	-0.9				
WAX	5.30	72	eP	46 58.90	-3.1		0.5s	13.00nm		5.1mb					
TGL	5.37	69	ePc	47 00.02	-3.0	GKN	80.97	311	P	57 49.00	-1.7				
CYK	5.44	76	eP	47 01.46	-2.3	PKI	81.05	310	P	57 50.38	-0.9				
SDN	5.58	230	ePn	47 05.55	-0.2	DMN	81.14	310	P	57 50.98	-0.7				
			eS	48 12.04		BFT	146.46	355	iPKPc	05 16.50	1.1				
WRG	5.66	77	eP	47 04.55	-2.4		0.7s	23.97nm							
BALM	5.67	66	eP	47 03.84	-3.3	SLR	146.56	358	iPKPd	05 15.30	-0.1				
NEA	5.73	17	ePc	47 05.38	-2.6		0.9s	33.61nm							
WRH	5.81	22	eP	47 05.84	-3.1	KSR	146.70	0	ePKP	05 15.50	-0.2				
YAH	5.83	73	iPc	47 07.27	-2.3	VIR	148.91	0	ePKP	05 20.50	1.4				
HDA	5.99	26	eP	47 08.62	-2.9		0.5s	21.13nm							
DJE	6.00	33	eP	47 10.88	-0.8	SEK	149.15	359	iPKPd	05 23.00	3.5				
CCB	6.02	22	eP	47 08.52	-3.4		0.7s	13.70nm							
			eS	48 14.53		FRS	150.55	3	iPKPc	05 25.00	3.7				
CTGM	6.13	68	eP	47 11.19	-2.4		0.7s	17.12nm							
							149 obs.	associated							

% OCT 10, 1991 15h 06m 31.89±1.43s
33.022 S ±11.4km 71.260 W ±11.1km
DEPTH = 33.0km (normal)
NEAR COAST OF CENTRAL CHILE (135)

PEL 0.50 104 iPc 06 43.00 0.5
iS 15 52.00
LCCH 0.52 210 iP 06 43.10 0.3
iS 06 54.00
J

KHZ 17.71 193 eP 58 44.10 -0.7
 LTZ 18.34 196 P 58 51.10 0.1
 WVZ 19.03 199 eP 58 58.20 0.9
 EWZ 19.39 198 eP 59 01.60 0.9
 BWZ 20.61 199 eP 59 10.70 -1.2
 CAN 27.61 242 eP 00 14.70 0.2
 BWA 27.89 244 eP 00 14.80 -2.2
 TOO 30.88 238 iPd 00 44.00 1.4
 STK 33.30 250 iPd 01 05.20 2.2

0.4s 3.60nm 4.4mb
 WR2 41.30 268 iPc 02 07.10 -1.4
 0.3s 23.50nm 5.2mb

WAR8 46.81 257 eP 02 50.20 -1.1
 CHG 89.19 291 eP 07 08.00 0.6
 CHTO 89.19 291 eP 07 07.80 0.4

1.0s 2.50nm 4.1mb
 UPP 143.01 344 iPKP 13 35.10 -5.7X
 NB2 143.21 350 PKP 13 36.40 -4.9X

0.9s 13.90nm
 HFS 143.62 348 ePKP 13 37.40 -4.5X
 0.5s 25.70nm

KRA 150.32 332 iPKPc 13 57.50 4.6X
 KSP 151.12 337 iPKP 13 59.30 5.2X

e 14 08.80
 CLL 151.79 341 iPKPc 14 01.70 6.7X
 0.9s 15.00nm

i 14 11.30
 BRG 151.88 340 iPKP 14 01.00 5.8X
 0.8s 12.00nm

i 14 12.10
 PRU 152.45 338 ePKP 14 02.20 6.2X
 MOX 152.78 342 ePKP 14 15.80 19.3X

1.0s 7.00nm
 KHC 153.51 338 ePKP 14 05.20 7.6X
 e 14 19.80

S.D. = 1.2 on 21 of 31 obs.

% OCT 10, 1991 20h 09m 51.98±0.78s
 33.466 S ± 6.9km 70.947 W ± 5.7km

DEPTH = 10.0km (geophysicist)
 CHILE-ARGENTINA BORDER REGION (127)

PEL 0.39 34 iP 10 00.00 0.0
 iS 10 00.00

PCH 0.39 113 eP 10 00.00 -0.1
 iS 10 07.20

LCCH 0.52 269 eP 10 02.50 0.0
 iS 10 10.00

CHCH 0.53 152 eP 10 02.70 0.0
 iS 10 10.50

LNV 0.62 218 iPd 10 04.50 0.0
 iS 10 13.00

S.D. = 0.1 on 5 of 5 obs.

& OCT 10, 1991 20h 28m 47.29s
 61.527 N 146.625 W

DEPTH = 32.4km
 SOUTHERN ALASKA (2)

<AEIC>. ML 3.0 (AEIC), 3.0
 (PMR).

KLU 0.34 95 iPc 28 54.92 -0.7
 eS 29 01.32

VLZ 0.42 160 iPc 28 55.61 -1.0
 eS 29 02.68

SCM 0.45 313 iPc 28 56.55 -0.7
 eS 29 03.78

VZW 0.47 176 iPc 28 56.42 -1.1
 eS 29 04.42

TOA 0.62 20 iPc 28 59.30 -0.4
 GLI 0.69 199 iPc 28 59.62 -1.0

eS 29 09.91
 TZL 0.77 47 iPc 29 00.92 -0.9
 FID 0.78 175 iPc 29 01.16 -0.8

eS 29 13.72
 SML 0.86 290 iPc 29 01.86 -1.3
 eS 29 13.68

KNK 0.89 263 iPc 29 02.89 -0.6
 eS 29 15.30

CVA 1.07 156 iPc 29 05.12 -0.9
 eS 29 20.80

GHO 1.12 284 iPc 29 05.95 -1.0
 eS 29 20.92

SDG 1.13 26 iPc 29 05.61 -1.3
 eS 29 19.81

PLRM 1.20 274 iPc 29 07.31 -0.5
 eS 29 23.18

PMR 1.20 274 iPc 29 07.90 0.0
 iS 29 23.60

SGAM 1.24 146 ePc 29 07.16 -1.3
 eS 29 25.04

KNIM 1.30 205 iPc 29 08.54 -0.8
 eS 29 25.91

GLB 1.35 92 iPc 29 08.61 -1.5
 eS 29 25.94

PMS 1.44 260 iPc 29 11.28 -0.1
 eS 29 30.08

RAGM 1.49 139 ePd 29 10.99 -1.1
 PAX 1.55 20 ePc 29 11.57 -1.4

PWA 1.56 276 eP 29 12.70 -0.4
 LTI 1.61 203 ePc 29 12.73 -1.1

HMT 1.66 135 eP 29 13.49 -1.1
 CROM 1.86 113 eP 29 16.27 -1.3

CUT 1.93 299 eP 29 17.76 -0.7
 KAIM 1.94 145 eP 29 17.38 -1.2

SUA 1.98 270 ePc 29 19.19 -0.1
 SEW 1.99 225 eP 29 18.97 -0.3

TGL 2.00 111 eP 29 17.32 -2.2
 HUR 2.03 317 eP 29 19.37 -0.5

SLKM 2.03 241 ePc 29 19.71 -0.2
 BALM 2.12 102 iPc 29 19.38 -2.0

eS 29 45.34
 WAX 2.13 119 ePc 29 19.43 -2.0

RND 2.15 332 eP 29 21.03 -0.6
 SNH 2.29 124 eP 29 24.23 0.6

MCK 2.46 335 eP 29 26.03 0.0
 DJE 2.55 9 eP 29 27.47 0.2

TRF 2.57 320 eP 29 27.14 -0.6
 CGLM 2.60 268 eP 29 28.87 0.9

CTGM 2.62 100 ePc 29 26.47 -1.9
 SPU 2.64 265 eP 29 29.26 0.7

YAH 2.65 114 eP 29 27.14 -1.8
 NCG 2.66 270 eP 29 28.42 -0.5

WRG 2.70 122 eP 29 30.61 1.2
 CKL 2.77 266 eP 29 30.38 -0.1

BGL 2.79 267 eP 29 30.40 -0.3
 KTH 2.85 317 eP 29 30.72 -0.8

HDA 2.89 357 eP 29 32.49 0.4
 CNPM 3.04 231 eP 29 33.06 -1.1

CCB 3.18 351 eP 29 33.82 -2.3
 FBA 3.43 352 eP 29 39.50 -0.2

TTA 4.61 292 eP 29 57.10 0.5
 IMA 5.52 329 eP 30 08.60 -0.9

54 obs. associated

? OCT 10, 1991 20h 46m 32.94±1.67s
 3.841 N ±10.3km 76.093 W ±18.1km

DEPTH = 33.0km (normal)
 COLOMBIA (103)

MD 2.7 (UVC).

CLMC 0.47 275 ePc 46 44.72 1.4
 eS 47 01.80

HOBC 0.51 355 eP 46 43.55 -0.3
 eS 46 59.80

DIAC 0.56 191 eP 46 45.07 0.6
 eS 47 02.50

HOOC 0.65 236 eP 46 45.65 -0.3
 ANCC 0.84 247 eP 46 46.98 -1.4

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

% OCT 10, 1991 20h 57m 45.96±0.83s
 40.079 N ±7.5km 23.449 E ±6.1km

DEPTH = 10.0km (geophysicist)
 GREECE (364)

MD 1.9 (THE).

PAIG 0.23 131 ePg 57 51.02 0.1
 OUR 0.48 58 ePg 57 55.42 -0.3

LIT 0.74 272 ePg 58 00.46 0.0
 eSg 58 10.06

SRS 1.04 6 ePg 58 06.38 0.7
 eSg 58 19.78

KNT 1.16 339 ePg 58 07.10 -0.5
 eSg 58 21.06

GRG 1.19 318 ePg 58 08.10 0.0
 S.D. = 0.6 on 6 of 6 obs.

% OCT 10, 1991 21h 12m 16.88±3.96s
 43.182 N ±17.1km 18.273 E ±25.9km

DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)

ML 1.7 (TTG).

HMT 3.44 133 eP 27 13.55 -1.1
 BALM 3.73 115 P 27 21.90 3.1

IMA 3.80 332 iP 27 20.00 0.2

BRY 0.34 145 iPg 12 24.46 0.4
 iSg 12 29.54

NKY 0.65 124 iPg 12 29.58 -0.3
 iSg 12 39.98

HCY 0.75 167 iPg 12 31.08 -0.5
 iSg 12 43.32

PLE 0.83 79 iPg 12 33.12 0.1
 iSg 12 46.66

BDV 0.99 155 iPg 12 35.94 0.3
 iSg 12 50.90

TTG 1.05 136 iPg 12 36.22 -0.4
 iSg 12 52.46

ULC 1.42 149 iPg 12 43.10 0.4
 iSg 12 50.90

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

& OCT 10, 1991 21h 26m 20.24s
 62.790 N 149.299 W

DEPTH = 12.9km
 CENTRAL ALASKA (1)

<AEIC>. ML 2.8 (AEIC), 2.8
 (PMR).

HUR 0.24 321 iPd 26 25.49 -0.2
 eS 26 29.24

CUT 0.59 230 ePc 26 31.80 -0.2
 RND 0.65 18 iPc 26 32.53 -0.5

TRF 0.80 326 ePd 26 35.56 -0.1
 eS 26 47.75

MCK 0.96 10 ePc 26 38.44 0.2
 GHO 1.04 170 ePd 26 39.30 -0.3

eS 26 53.88
 KTH 1.06 317 ePd 26 40.46 0.4
 eS 26 54.88

SML 1.08 155 eP 26 40.28 -0.1
 S 26 54.60

PWA 1.18 194 iPc 26 42.10 0.2
 PLRM 1.20 176 ePc 26 42.30 -0.1

eS 26 58.34
 PMR 1.20 176 iPd 26 43.00 0.6
 iS 26 58.60

SKT 1.32 233 iPd 26 44.35 0.0
 eS 27 02.82

SCM 1.33 135 ePd 26 44.11 -0.4
 eS 27 02.01

BWN 1.39 357 eP 26 46.19 0.9
 KNK 1.44 164 iPc 26 46.25 0.3

SUA 1.49 208 ePc 26 47.21 0.4
 eS 27 07.83

PMS 1.56 185 ePc 26 48.28 0.6
 TOA 1.61 114 iPd 26 49.80 1.3

SDG 1.75 97 ePd 26 51.14 0.6
 eS 27 14.00

PAX 1.76 82 ePc 26 51.34 0.6
 eS 27 13.73

WRH 1.77 17 ePc 26 50.87 0.1
 NEA 1.80 3 eP 26 51.96 0.8

HDA 1.93 32 ePc 26 53.30 0.2
 NCG 1.93 225 ePd 26 54.49 1.3

eS 27 20.24
 TZL 1.95 111 eP 26 54.77 1.4

CGLM 1.96 222 eP 26 55.29 1.7
 CCB 1.98 19 ePc 26 53.56 -0.2

CRP 2.04 223 eP 26 58.08 3.3
 DJE 2.05 51 eP 26 55.05 0.3

eS 27 21.47
 KLU 2.05 128 ePd 26 55.43 0.5
 eS 27 22.11

SPU 2.07 220 eP 26 56.52 1.3
 BGL 2.11 225 eP 26 58.32 2.5

CKL 2.15 223 eP 26 58.54 2.2
 VZW 2.17 142 eP 26 56.66 0.1

VLZ 2.18 139 eP 26 56.67 0.1
 GLI 2.18 150 eP 26 58.08 1.3

FBA 2.22 17 eP 26 57.70 0.4
 MDM 2.23 12 ePc 26 57.37 -0.1

SLKM 2.33 191 eP 27 01.81 2.9
 GLM 2.36 20 eP 27 00.22 0.9

FID 2.45 146 eP 27 02.14 1.7
 KNIM 2.56 162 eP 27 03.69 1.6

RDN 2.82 217 eP 27 04.39 -1.5
 LTI 2.85 165 eP 27 07.34 1.2

RSO 2.86 217 P 27 11.00 4.5
 TTA 3.08 276 eP 27 14.20 4.7

i 27 18.20
 HMT 3.44 133 eP 27 13.55 -1.1

BALM 3.73 115 P 27 21.90 3.1
 IMA 3.80 332 iP 27 20.00 0.2

10d 20h

49 obs. associated
OCT 10, 1991 22h 28m 57.14±0.67s
42.303 N ± 5.1km 19.446 E ± 4.8km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 2.0 (TTG).

TTG 0.19 313 iPg 29 01.34 0.1
iSg 29 04.94
ULC 0.37 203 iPg 29 04.60 -0.2
iSg 29 10.34
BDV 0.46 268 iPg 29 06.68 0.2
iSg 29 14.06
PVY 0.49 53 iPg 29 07.28 0.2
iSg 29 14.08
NKY 0.61 327 iPg 29 09.48 0.0
iSg 29 18.90
IVA 0.66 30 iPg 29 10.24 -0.1
iSg 29 20.46
HCY 0.72 282 iPg 29 11.44 0.2
iSg 29 22.06
BRY 0.89 312 iPg 29 14.08 -0.3
iSg 29 29.06
PLE 1.03 358 iPg 29 16.50 -0.1
iSg 29 32.50
SKO 1.52 102 ePn 29 33.00 8.6X
iSg 29 48.60
OHR 1.56 139 ePn 29 27.80 2.7X
S.D. = 0.2 on 9 of 11 obs.

? OCT 10, 1991 22h 47m 25.86±3.27s
37.908 N ± 27.8km 22.064 E ± 13.5km
DEPTH = 10.0km (geophysicist)
SOUTHERN GREECE (368)
ML 3.0 (ATH). MD 2.9 (THE).

AGG 1.13 11 ePg 47 45.02 -2.1
eSg 47 56.58
VLS 1.19 283 ePg 47 47.50 -0.6
eSg 48 03.00
ATH 1.31 87 ePb 47 57.10 7.1X
VLI 1.38 149 ePg 48 03.50 12.4X
LIT 2.21 8 ePb 48 03.42 0.2
eSb 48 28.58
PAIG 2.38 32 ePn 48 05.66 0.2
KZN 2.41 355 ePn 48 06.50 0.5
KEK 2.53 316 ePg 48 13.50 5.9X
OUR 2.85 31 ePn 48 12.14 0.0
FNA 2.92 350 ePn 48 13.94 0.7
KNT 3.31 11 ePn 48 18.82 0.0
OHR 3.35 343 ePn 48 20.30 1.0
S.D. = 1.0 on 9 of 12 obs.

OCT 10, 1991 23h 01m 57.75±0.45s
40.258 N ± 4.9km 28.287 E ± 3.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

EDC 0.34 286 iPg 02 04.00 -0.7
iSg 02 09.00
YLV 0.88 69 ePg 02 13.90 -0.9
CTT 0.90 7 iPg 02 14.90 0.0
iSg 02 27.40
IZI 0.91 85 ePg 02 14.40 -0.8
eSg 02 27.40
MFT 0.93 305 ePn 02 15.00 -0.6
ISK 1.00 36 iPn 02 16.90 0.3
GBZT 1.03 59 ePg 02 18.00 0.8
iSg 02 33.50
HRT 1.19 61 iPn 02 19.90 -0.1
GPA 1.55 88 ePn 02 26.10 0.7
EZN 1.57 255 ePn 02 26.10 0.5
DMK 1.61 346 iPn 02 27.10 0.8
IZM 2.02 203 ePn 02 32.80 0.5
KHL 2.16 153 ePn 02 34.00 -0.3
CIN 2.66 143 ePn 02 44.00 2.6X
S.D. = 0.7 on 13 of 14 obs.

? OCT 10, 1991 23h 06m 05.83±10.64s
40.092 N ± 56.7km 28.179 E ± 51.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZI 1.02 76 iPg 06 25.30 0.1
eSg 06 38.90
YLV 1.03 62 ePg 06 24.90 -0.4

CTT 1.07 10 iPg 06 25.90 -0.1
iSg 06 39.90
ISK 1.18 34 ePg 06 28.00 0.2
HRT 1.35 57 iPn 06 30.90 0.2
S.D. = 0.4 on 5 of 5 obs.

OCT 10, 1991 23h 20m 07.59±0.33s
3.514 N ± 6.3km 83.322 W ± 4.8km
DEPTH = 10.0km (geophysicist)
5.0mb (18 obs.) 4.9msz (1 obs.)
OFF COAST OF CENTRAL AMERICA (76)

CUMC 6.01 115 eP 21 38.88 -0.3
ANCC 6.44 90 eP 21 44.71 -0.2
SALC 6.64 94 eP 21 47.14 -0.7
HOQC 6.68 90 ePd 21 47.62 -0.8
CLMC 6.75 87 ePd 21 49.60 0.2
PURC 7.05 99 eP 21 53.73 -0.2
BUGC 7.06 87 eP 21 53.99 0.3
DIAC 7.12 92 ePc 21 53.86 -0.6
HOBC 7.22 83 ePc 21 55.07 -0.8
BOG 9.30 83 eP 22 27.00 1.9
BMG 10.80 70 iPd 22 47.50 2.0
YHJ 15.78 25 eP 23 53.97 2.4
STH 15.82 23 eP 23 58.67 6.6X
GWJ 15.84 24 eP 23 58.97 6.4X
BBJ 15.92 21 eP 23 59.88 6.4X
NNA 16.69 157 eP 24 03.80 0.5
1.5s 61.11nm 4.5mb
CUM 20.22 69 eP 24 43.00 -2.6
ARE 23.04 150 eP 25 18.00 3.5X
ZOBO 24.74 143 Pc 25 32.20 0.9
1.2s 84.46nm 5.3mb
Z 24s 1.76um 4.5mszX

LPB 24.96 143 P 25 34.00 0.7
Z 18s 3.44um 4.9msz
S 30 16.00
LR 33 28.00
CNCB 25.25 144 P 25 34.00 -2.2
S 30 16.00
LR 35 15.00
CCH 26.81 141 eP 25 54.00 3.7X
SIV 29.32 132 eP 26 13.00 0.1
GBTN 32.00 359 eP 26 35.00 -1.3
MEO 34.19 337 iPd 26 54.90 -0.5
FVM 34.92 350 P 27 00.00 -1.6
1.5s 51.22nm 5.2mb
ACO 36.09 338 e(P) 27 12.90 1.3
ALQ 37.93 328 ePc 27 27.50 0.2
1.4s 31.40nm 4.9mb
ANMO 37.93 328 P 27 27.00 -0.3
1.2s 15.63nm 4.7mb

PEL 38.37 163 eP 27 31.00 0.2
LNV 38.93 164 eP 27 32.00 -3.3X
GOL 41.19 334 P 27 54.60 0.2
1.5s 25.16nm 4.7mb
GLA 41.60 319 eP 27 59.00 1.5
PLM 43.14 317 P 28 11.00 0.7
MSU 43.65 327 P 28 15.00 0.6
PEC 43.66 318 P 28 15.50 1.1
1.5s 18.33nm 4.7mb
RSSD 44.39 339 P 28 20.20 -0.1
2.0s 96.15nm 5.3mb
MWC 44.46 318 eP 28 21.00 0.0
CLC 45.10 320 eP 28 26.00 0.0
BW06 45.54 333 P 28 29.00 -0.6
2.0s 29.11nm 4.9mb
LRM 49.21 333 eP 28 58.00 -0.3
ORV 49.82 321 P 29 03.10 0.3
SES 52.24 338 eP 29 21.00 -0.1
NEW 53.16 332 P 29 27.00 -1.0
1.1s 13.58nm 4.8mb
PNT 55.08 332 eP 29 42.00 0.0
0.5s 7.00nm 4.9mb
YKA 63.26 344 eP 30 36.00 -2.4
1.3s 7.20nm 4.7mb

INK 72.90 343 eP 31 38.00 -0.5
MBC 75.39 352 ePd 31 52.80 0.0
1.5s 45.00nm 5.3mb
FBA 76.20 337 P 31 55.00 -2.6
1.4s 12.50nm 4.8mb
TIC 77.99 84 P 32 08.30 -0.2
LIC 78.00 84 P 32 08.20 -0.3
TOL 79.52 50 iPd 32 17.50 1.1
1.6s 133.33nm 5.7mb

ENN 86.83 39 eP 32 53.00 -0.5
1.1s 16.00nm 5.2mb
WTS 87.34 38 eP 32 56.50 0.5
1.0s 13.00nm 5.1mb
CLL 91.24 39 e(P) 33 14.00 -0.4
KHC 91.88 41 eP 33 18.30 0.8
BRG 91.89 39 e(P) 33 18.40 1.0
SPA 93.49 180 iPd 33 25.40 0.8
0.8s 20.83nm 5.6mb

GKN 146.59 20 PKP 39 49.04 -1.3
KKN 147.00 19 PKP 39 51.74 0.6
GUN 147.07 18 PKP 39 53.10 1.7
DMN 147.11 19 PKP 39 52.92 1.6X
PKI 147.24 19 PKP 39 52.96 1.3
KMI 150.93 349 PKPc 39 57.50 0.2
1.5s 0.08nm
pP 40 14.00
HYB 152.57 40 ePKP 39 58.50 -1.1
S.D. = 1.1 on 58 of 65 obs.

? OCT 10, 1991 23h 21m 35.73±4.25s
3.832 N ± 59.4km 82.996 W ± 36.1km
DEPTH = 10.0km (geophysicist)
4.7mb (7 obs.)
SOUTH OF PANAMA (83)

GBTN 31.70 358 eP 28 02.70 0.9
FVM 34.66 350 eP 28 26.00 -1.5
1.2s 27.94nm 5.0mb
GLD 41.03 334 eP 29 21.60 0.5
1.3s 13.79nm 4.5mb
GOL 41.05 333 eP 29 22.00 0.6
1.0s 9.50nm 4.5mb
PLM 43.13 317 eP 29 38.90 0.5
MSU 43.56 326 eP 29 42.80 0.9
PEC 43.65 317 eP 29 42.50 0.1
RSSD 44.21 338 iP 29 48.00 1.0
1.0s 32.54nm 5.1mb
BW06 45.41 332 eP 29 55.00 -1.7
1.0s 4.50nm 4.4mb
ORV 49.78 321 eP 30 30.10 -0.5
SES 52.07 338 eP 30 48.00 0.0
NEW 53.04 332 eP 30 53.90 -1.3
1.1s 3.09nm 4.2mb
INK 72.69 343 eP 33 05.50 0.1
MBC 75.12 352 ePd 33 19.60 0.2
1.0s 13.00nm 4.9mb
S.D. = 1.0 on 14 of 14 obs.

OCT 10, 1991 23h 34m 15.13±0.48s
3.635 N ± 10.7km 83.264 W ± 7.7km
DEPTH = 10.0km (geophysicist)
4.4mb (7 obs.)
OFF COAST OF CENTRAL AMERICA (76)

ANCC 6.39 91 eP 35 51.96 0.3
HOQC 6.62 91 eP 35 54.55 -0.6
DIAC 7.06 93 eP 36 01.40 0.1
HOBC 7.15 84 eP 36 02.59 0.2
ZOBO 24.80 143 eP 39 33.00 -6.5X
i 39 40.00
LPB 25.02 144 P 39 42.00 0.6
CNCB 25.31 144 P 39 42.00 -2.3
ALQ 37.86 328 eP 41 34.20 0.0
1.0s 5.25nm 4.3mb
GOL 41.11 334 eP 42 01.90 0.7
1.0s 3.50nm 4.0mb
PLM 43.09 317 eP 42 17.10 -0.4
RSSD 44.29 339 iP 42 27.50 0.4
0.8s 14.02nm 4.9mb
SES 52.15 338 eP 43 28.00 0.0
NEW 53.08 332 eP 43 32.90 -2.0
1.0s 2.25nm 4.1mb
PNT 55.00 332 eP 43 49.00 0.1
YKA 63.16 344 eP 44 44.00 -1.2
0.8s 2.00nm 4.4mb
INK 72.80 343 eP 45 45.00 -0.4
MBC 75.28 352 eP 45 59.50 -0.2
1.0s 6.00nm 4.6mb
SPA 93.61 180 iPd 47 33.10 0.4
1.0s 7.50nm 5.0mb
GKN 146.46 20 PKP 53 58.10 0.4
KKN 146.86 19 PKP 53 59.40 1.0
GUN 146.94 18 PKP 54 00.00 1.3
DMN 146.98 19 PKP 53 59.60 0.9
PKI 147.11 19 PKP 54 00.00 1.0

S.D. = 1.0 on 22 of 23 obs.
 * OCT 10, 1991 23h 34m 51.48±1.20s
 38.411 N ± 8.7km 22.130 E ±13.7km
 DEPTH = 10.0km (geophysicist)

GREECE (364)
 ML 3.0 (ATH). MD 2.6 (THE).

AGG	0.63	14	ePg	35	03.14	-1.0
			eSg	35	14.82	
VLS	1.23	260	ePn	35	05.50	-8.9X
			eSn	35	21.40	
ATH	1.33	109	ePn	35	17.60	1.7
LIT	1.71	9	ePb	35	20.94	-0.6
			eSb	35	44.78	
VLI	1.81	159	ePn	35	21.80	-1.1
KZN	1.91	352	ePb	35	25.00	0.5
PAIG	1.93	38	ePb	35	23.74	-1.0
KEK	2.23	306	ePn	35	22.00	-7.1X
OUR	2.40	36	ePn	35	30.38	-1.0
FNA	2.44	346	ePn	35	33.46	1.4
GRG	2.55	5	ePn	35	35.34	1.8
KNT	2.81	12	ePn	35	37.34	0.1
OHR	2.89	340	ePn	35	37.50	-0.9

S.D. = 1.3 on 11 of 13 obs.

? OCT 10, 1991 23h 50m 39.23±6.45s
 18.136 N ±16.3km 76.264 W ±39.9km
 DEPTH = 10.0km (geophysicist)

JAMAICA REGION (86)
 MD 2.8 (HOJ).

YHJ	0.33	222	iP	50	46.08	0.1
			S	50	53.16	
GWJ	0.46	262	iP	50	48.52	0.0
			S	50	57.17	
STH	0.53	264	iP	50	49.94	0.0
			S	50	58.73	
PCJ	0.95	246	iP	50	57.09	-0.2
			S	51	08.06	
BBJ	0.98	285	iP	50	57.95	0.0
			S	51	14.99	
SPJ	1.24	264	iP	51	02.46	0.1
			S	51	21.13	

S.D. = 0.1 on 6 of 6 obs.

* OCT 10, 1991 23h 50m 43.95±3.37s
 33.396 S ± 8.1km 70.728 W ±14.2km
 DEPTH = 77.2 ± 32.0 km

CHILE-ARGENTINA BORDER REGION (127)

SAN	0.08	136	iPc	50	55.20	-0.2
			iS	51	03.90	
PEL	0.25	8	iPc	50	55.90	0.0
			iS	51	05.00	
PCH	0.29	142	iPd	50	56.40	0.3
			iS	51	05.30	
TACH	0.31	214	iPc	50	56.20	0.0
			iS	51	04.50	
ROCH	0.49	331	iP	50	57.50	-0.3
			iS	51	08.00	
CHCH	0.54	173	iPd	50	58.00	0.0
			iS	51	09.20	
LCCH	0.71	263	iP	51	00.10	0.4
			iS	51	12.50	
JACH	0.72	9	iP	51	00.00	0.1
			iS	51	11.00	
LNV	0.80	225	iP	51	00.30	-0.3
			iS	51	13.00	

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

* OCT 11, 1991 00h 14m 38.24±1.62s
 37.598 N ±13.2km 16.511 E ±10.7km
 DEPTH = 10.0km (geophysicist)

IONIAN SEA (399)

SOI	0.60	323	Pd	14	52.20	1.9
			eSg	14	59.70	
ATN	1.00	304	P	14	57.60	0.4
			eSg	15	09.30	
MEU	1.35	249	Pc	15	03.70	0.5
			eSg	15	18.00	
MNO	1.48	284	P	15	04.80	-0.3
			eSg	15	21.00	
CZI	1.64	350	P	15	07.30	0.1
ROI	1.97	1	P	15	13.20	1.1
GIB	2.01	282	P	15	11.90	-0.7

CSI	2.18	356	P	15	17.00	1.9
FAI	2.28	263	P	15	17.90	1.4
MMN	2.32	350	P	15	17.20	0.1
MGR	2.64	344	P	15	21.00	-0.6
			eSg	15	49.00	
USI	2.85	294	P	15	21.90	-2.7
LCI	2.95	22	P	15	26.10	0.1
SGO	3.10	343	P	15	27.20	-0.8
BRT	3.32	9	P	15	29.40	-1.8
			eSn	16	04.00	
BAI	3.53	4	P	15	32.50	-1.6
OHR	4.83	42	ePn	15	53.50	0.7

S.D. = 1.4 on 17 of 17 obs.

% OCT 11, 1991 00h 47m 02.14±1.11s
 40.689 N ± 9.1km 15.798 E ± 7.8km
 DEPTH = 10.0km (geophysicist)

SOUTHERN ITALY (390)

SGO	0.39	251	P	47	10.60	0.4
			eSg	47	16.20	
MGR	0.58	199	P	47	12.80	-1.1
			eSg	47	23.20	
MMN	0.81	169	P	47	19.60	1.7
			eSg	47	30.00	
BAI	0.92	62	P	47	20.00	0.3
			eSg	47	33.00	
CSI	0.99	157	P	47	20.00	-0.9
BRT	1.08	80	P	47	22.00	-0.5
			eSg	47	37.80	
ROI	1.26	152	P	47	26.50	0.9
			eSg	47	43.80	
CZI	1.49	170	P	47	28.10	-0.8
LCI	1.68	101	P	47	36.50	4.8X
			eSg	48	00.50	

S.D. = 1.2 on 8 of 9 obs.

? OCT 11, 1991 01h 13m 20.99±1.54s
 22.956 N ±47.7km 95.060 E ±43.7km
 DEPTH = 33.0km (normal)

MYANMAR (296)

SHL	3.89	313	eP	14	21.00	0.8
			eS	15	07.50	
CHG	5.49	138	ePg	15	07.00	24.3X
			eSg	16	21.30	
CHTO	5.49	138	(P)	14	41.50	-1.2
BDT	6.78	146	eP	15	02.00	1.2
			0.8s	75.30nm	5.6mb	
GUN	9.65	303	P	15	41.00	0.0
PKI	9.87	300	P	15	43.96	-0.1
			0.5s	22.00nm	5.6mb	
KKN	10.07	301	P	15	45.96	-0.7
			0.5s	15.00nm	5.5mb	
DMN	10.13	299	P	15	48.00	0.5
GKN	10.67	300	P	15	54.14	-0.7
			0.4s	21.00nm	5.7mb	

S.D. = 1.0 on 8 of 9 obs.

% OCT 11, 1991 01h 41m 42.61±1.01s
 44.114 N ±11.6km 9.937 E ± 6.0km
 DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)

BDI	0.48	96	P	41	52.10	-0.3
			eSg	41	59.40	
MME	0.56	81	P	41	54.00	-0.1
			eSg	42	02.00	
BOB	0.74	332	P	41	56.00	-1.2
			eSg	42	08.00	
CKI	1.23	285	P	42	05.50	0.0
			eSg	42	23.00	
PGD	1.31	100	P	42	07.00	0.0
SAL	1.55	15	P	42	11.00	0.7
			eSg	42	32.00	
ORO	2.05	318	P	42	18.40	0.7
			eSn	42	43.80	
CTI	2.28	32	P	42	21.00	0.0

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

% OCT 11, 1991 02h 02m 14.92±0.73s
 10.753 N ± 6.4km 60.986 W ± 8.0km
 DEPTH = 10.0km (geophysicist)

TRINIDAD (98)
 MD 2.8 (TRN).

TBH	0.28	197	eP	02	20.31	-0.5
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TRN	0.42	256	eS	02	26.84	
			eP	02	23.46	-0.1
			eS	02	31.09	
PIG	0.43	19	eP	02	24.19	0.5
			eS	02	32.94	
TPR	0.48	25	eP	02	24.43	-0.2
			eS	02	33.38	
BOT	0.49	33	eP	02	24.59	-0.2
			eS	02	33.60	
TPP	0.63	227	eP	02	28.59	1.0
			eS	02	37.78	
TCE	0.76	266	eP	02	29.20	-0.5
			eS	02	40.05	
GRW	1.55	335	eP	02	42.59	0.0
			eS	03	04.17	

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

? OCT 11, 1991 02h 03m 24.70±1.22s
 31.111 S ±19.1km 68.559 W ±29.6km
 DEPTH = 80.0km (geophysicist)

SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.23	161	iPc	03	37.00	0.2
RTCB	0.43	209	iPd	03	37.50	-0.6
			S	03	48.80	
ZON	0.45	193	eP	03	39.00	0.8
			eS	03	52.00	
CFA	0.57	151	eP	03	39.00	-0.3
			S	03	51.60	
RTRS	1.22	320	iPc	03	46.70	0.0
			S	04	04.80	

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

OCT 11, 1991 02h 16m 30.39±0.36s
 29.573 S ± 8.6km 177.535 W ± 9.5km
 DEPTH = 33.0km (normal)
 5.2mb (11 obs.)

KERMADEC ISLANDS, NEW ZEALAND (178)

WCZ	9.33	225	P	18	59.00	13.4X
URZ	9.74	206	P	18	50.90	-0.3
			S	20	45.00	
MNG	12.41	206	P	19	27.00	-0.5
			eS	21	45.20	
MRW	13.23	206	eP	19	47.00	8.6X
			eS	22	04.00	
THZ	14.42	210	P	19	53.60	-0.5
			S	22	33.10	
KHZ	14.70	207	P	19	57.10	-0.5
LTZ	15.52	209	P	20	10.50	2.1
DZM	16.23	294	iPc	20	25.30	7.6X
EWZ	16.73	211	P	20	27.20	3.6X
COO	26.44	260	iPd	22	13.10	6.9X

11d 02h

MWC	84.74	46	eP	29	03.00	0.3						
PLM	84.93	47	eP	29	04.00	0.4						
RVR	85.02	46	eP	29	04.00	0.2						
SB8	85.19	46	eP	29	05.00	0.3						
ISA	85.43	44	eP	29	06.00	0.1						
NJ2	86.02	310	Pc	29	10.00	1.2						
	1.0s	26.00nm				5.4mb						
GLA	86.05	48	eP	29	10.00	1.0						
CLC	86.07	45	eP	29	09.00	-0.1						
GSC	86.22	46	eP	29	10.00	0.1						
WHN	88.17	307	eP	29	18.50	-0.8						
MDJ	88.18	325	eP	29	18.50	-0.5						
SNY	89.42	320	eP	29	25.00	0.1						
TIA	89.71	313	eP	29	27.00	0.5						
CN2	89.73	323	eP	29	26.20	-0.2						
	1.0s	18.00nm				5.3mb						
		eP	29	48.00	79kmX							
ALO	92.74	51	eP	29	40.40	-0.4						
	1.0s	4.50nm				4.9mb						
		e	29	57.70								
ANMO	92.75	51	P	29	41.00	0.2						
TIY	93.62	312	eP	29	46.40	1.8						
XAN	93.94	307	eP	29	47.50	1.4						
KEV	137.40	348	ePKP	35	53.00	1.5						
		e	36	29.00								
SOD	139.49	346	ePKP	35	53.00	-2.4						
KAF	143.90	341	iPKP	35	59.20	-4.0X						
OBN	144.71	326	ePKP	36	02.00	-2.8						
	0.8s	26.00nm										
		e	36	02.50								
MSL	145.40	292	ePKP	36	02.00	-4.6X						
NUR	145.67	341	iPKP	36	04.50	-1.8						
	0.8s	83.60nm										
NB2	147.99	352	PKP	36	11.50	1.4						
	0.8s	34.30nm										
UPP	148.02	346	iPKP	36	11.30	1.2						
HFS	148.51	349	ePKP	36	12.50	1.6						
	0.7s	37.30nm										
KOND	149.54	353	ePKP	36	16.60	4.1X						
HR1	151.44	286	ePKP	36	23.80	7.5X						
BHL	151.52	287	PKP	36	22.00	5.6X						
MLL	151.68	284	ePKP	36	24.50	7.9X						
KAS	152.07	303	ePKP	36	25.00	8.0X						
RMN	152.19	280	ePKP	36	25.20	7.7X						
MUD	152.71	352	ePKP	36	24.30	7.1X						
	1.2s	6.00nm										
COP	152.95	348	iPKPd	36	15.30	-2.3						
	0.7s	19.18nm										
BSD	152.96	344	ePKP	36	24.00	6.4X						
	0.5s	14.00nm										
EKA	153.94	7	PKP	36	26.00	7.0X						
	0.7s	3.30nm										
KIC	155.93	162	PKP	36	25.00	2.0						
KSP	156.35	338	ePKP	36	32.40	9.9X						
		i	36	50.20								
CLL	156.90	343	ePKP	36	21.00	-2.1						
	1.1s	17.00nm										
		i	36	35.90								
		i	36	51.40								
BRG	157.04	341	iPKP	36	33.60	10.3X						
	1.0s	20.00nm										
		i	36	52.80								
KHC	158.71	340	ePKP	36	25.50	0.1						
	S.D. = 1.2 on 48 of 73 obs.											
* OCT 11, 1991 02h 26m 29.00±0.94s												
21.926 N ±9.0km 105.213 E ±11.1km												
DEPTH = ±0.0km (geophysicist)												
4.1mb (2 obs.)												
SOUTHEAST ASIA						(299)						
ML 4.1 (BJI).												

GTA	2.0s	21.00nm			4.5mb
	18.03	346 eP	30	41.00	-0.4
	1.0s	7.00nm			3.7mb
	S.D. = 1.4 on 7 of				10 obs.
<hr/>					
? OCT 11, 1991	02h 26m	51.09± 5.42s			
6.014 S	±32.0km	147.909 E	±46.8km		
DEPTH = 53.6 ± 24.0 km					
4.0mb (4 obs.)					
EASTERN NEW GUINEA REG., P.N.G. (207)					
YYYY	1.95	263 eP	27	24.10	1.7
		eS	27	53.80	
MDG	2.25	290 iPc	27	25.60	-1.0
PMG	3.45	192 iPc	27	43.20	-0.5
		eS	28	29.00	
MNDI	4.23	268 eP	27	57.50	2.7X
		eS	28	58.00	
OIS	16.55	208 eP	30	40.50	-0.7
	0.6s	5.00nm			3.8mb
WR2	19.11	222 eP	31	09.60	-3.0X
	0.6s	10.90nm			4.3mb
RMO	20.38	178 eP	31	37.00	11.0X
		i	32	49.00	
QLP	20.75	189 iPc	31	30.00	0.1
ASPA	22.13	216 iPd	31	42.70	-1.0
	0.4s	15.90nm			4.8mb
		eS	35	47.10	
STK	26.40	192 eP	32	26.30	1.8
	0.8s	2.30nm			3.8mb
WARB	28.54	223 eP	32	43.50	-0.5
	S.D. = 1.5 on 8 of				11 obs.
<hr/>					
? OCT 11, 1991	02h 44m	31.59± 4.38s			
50.145 S	±52.3km	164.679 E	±16.3km		
DEPTH = 33.0km (normal)					
4.4mb (1 obs.)					
AUCKLAND ISLANDS REGION (166)					
SIZ	4.00	36 eP	45	33.60	1.6
BCZ	4.65	28 eP	45	41.40	0.1
		eS	46	29.30	
TUZ	5.35	40 P	45	52.80	1.7
		eS	46	49.80	
TLC	5.78	33 P	45	57.30	0.0
CMCZ	5.88	34 eP	45	58.50	-0.3
		eS	47	01.10	
LSCZ	5.95	34 P	45	59.50	-0.2
MMCZ	5.96	32 P	45	59.90	0.0
MHZ	5.96	33 eP	46	00.10	0.2
LRCZ	5.98	34 eP	46	00.10	-0.2
MSCZ	5.98	34 eP	45	59.70	-0.4
ODZ	6.50	41 eP	46	07.60	0.2
		eS	47	16.30	
BWZ	6.63	34 eP	46	07.60	-1.6
MOZ	8.44	43 eP	46	34.80	0.4
LTZ	9.03	38 eP	46	40.50	-2.2
TAU	13.95	295 eP	47	47.00	-2.0
		eS	50	05.00	
CAN	18.71	316 eP	48	51.00	1.6
		eTT	04	38.00	
WRA	38.56	310 P	51	54.00	1.1
	0.4s	2.40nm			4.4mb
	S.D. = 1.2 on 17 of				17 obs.
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OCT 11, 1991	03h 01m	51.27± 0.19s			
2.769 S	± 3.6km	153.070 E	± 4.4km		
DEPTH = 27.5km (6 depth phases)					
5.4mb (49 obs.) 5.1msz (16 obs.)					
NEW IRELAND REGION, P.N.G. (190)					
Mo=2.0*10**17 Nm (PPT).					
CENTROID, MOMENT TENSOR (HRV)					
Data Used: GDSN					
L.P.B.: 21S, 47C					
Centroid Location:					
Origin Time 03:01:54.8 0.4					
Lat 2.77S 0.04 Lon 153.27E 0.04					
Dep 15.0 FIX Half-duration 2.5					
Moment Tensor; Scale 10**17 Nm					
Mrr= 1.03 0.05 Mtt= 0.13 0.07					
Mrf=-1.16 0.08 Mrt=-0.22 0.15					
Mrrf= 2.66 0.17 Mtf= 0.52 0.05					
Principal Axes:					
T Vol= 2.82 Plg=56 Azm=274					
N 0.22 7 173					
P -3.04 33 78					
Best Double Couple: Mo=2.9*10**17					

				NP1:Strike=141	Dip=14	Slip=	57
				NP2:355	78		98
RAB	1.67	212	iPd-	02	21.00		1.9
PMG	8.84	221	iPd+	04	03.00		2.8
HNR	9.51	134	eP	04	07.00		-2.6
			eS	04	19.00		
GUA	18.11	334	eP	06	03.20		0.5
	0.9s	181.51nm					5.2mb
GUMO	18.17	334	eP	06	03.40		-0.1
			eS	09	12.00		
PJG	18.17	334	eP	06	03.40		-0.1
CTAO	18.45	201	iPc+	06	08.00		1.1
	1.8s	134.68nm					4.8mb
			i	06	12.00		
			eS	09	12.00		
			iS	09	41.00		
DZM	23.17	147	iPc	06	57.00		0.2
MTN	23.91	244	eP	07	04.00		0.1
	0.5s	88.00nm					5.5mb
RMO	23.95	190	iPc	07	14.90		10.7X
	0.3s	18.00nm					
			e	10	11.00		
BRS	24.49	181	iPc	07	11.00		1.5
	0.5s	20.00nm					4.9mb
			i	07	16.50		20km
			i	07	21.50		
			i	07	28.50		
			iS	11	30.00		
WR2	25.00	226	eP	07	13.70		-0.8
	0.6s	134.30nm					5.7mb
QLP	25.15	199	eP	07	16.00		0.2
COO	27.68	182	eP	07	38.50		0.6
			i	07	41.50		11kmX
ASPA	27.85	220	iPc	07	39.80		-0.9
	1.0s	59.80nm					5.3mb
Z	21s	5.30um					5.1MsZ
			i	08	20.00		199kmX
DAV	29.14	290	eP	07	55.90		3.5X
CMS	29.37	193	eP	07	53.00		-1.3
			i	08	03.00		35km
STK	30.91	199	iPc	08	07.50		-0.5
	1.2s	6.80nm					4.3mb X
			eS	13	18.70		
BWA	31.79	187	eP	08	15.20		-0.5
CNB	32.56	186	iPc	08	23.30		0.8
CAN	32.61	186	eP	08	22.90		0.0
WSI	33.27	257	ePd	08	28.70		-0.1
			e	11	57.50		
WARB	34.43	225	iPc	08	38.10		-0.7
	0.5s	23.00nm					5.4mb
ADE	34.71	201	iPc	08	40.80		-0.2
	0.9s	121.01nm					5.8mb
TOO	35.33	190	eP	08	47.00		0.7
BFD	35.58	195	iPc	08	46.00		-2.4
	0.9s	53.00nm					5.5mb
			i	08	54.00		27km
			i	11	15.00		
TSM	35.86	281	ePc	08	52.00		0.9
FORR	36.56	218	eP	08	55.50		-1.2
	0.4s	33.00nm					5.6mb
MBL	37.15	238	eP	09	00.00		-1.9
BAG	37.33	302	ePc	09	03.00		-0.6
	1.5s	1100.00nm					6.5mb X
			eS	14	29.00		
KHKI	37.68	260	ePc	09	05.90		-0.4
			e	11	07.50		
KKM	37.83	283	ePc	09	07.70		-0.1
TAU	40.29	187	eP	09	30.00		2.2
TRT	40.55	261	iPc	09	31.60		1.4
COOL	41.12	224					

			S	16	40.00		VAH	59.68	106	iP	11	56.30	0.2		1.0s	7.40nm	5.1mb			
RKG	46.10	222	eP	10	13.00	-2.0		0.9s	20.00nm			5.2mb		MAIO	94.51	306	iPc	15	11.60	0.8
GZH	46.47	306	iPc	10	19.50	1.5	RUV	59.91	106	iP	11	58.00	0.4		HPI	94.67	47 P	15	16.80	5.1X
	Z	20s	1.25um		4.9Msz			0.8s	20.00nm			5.3mb		DUG	94.92	50 P	15	17.40	4.7X	
			S	17	03.00		LZH	59.98	315	iPc	11	58.00	-0.1		HVU	94.93	48 P	15	16.50	3.7X
NJ2	47.46	320	Pc	10	26.00	0.2		2.0s	190.00nm			5.9mb		LRM	95.10	44 eP	15	21.50	7.9X	
	1.4s		54.00nm		5.4mb		Z	21s	1.30um			5.0Msz		SES	95.88	40 eP	15	17.00	0.2	
	Z	22s	0.85um		4.7Msz		E	15s	1.23um					DAU	96.11	50 P	15	17.40	-1.0	
			S	17	20.00				ePP	14	15.00			BW06	97.29	47 P	15	25.10	1.6	
OIZ	47.70	299	Pc	10	28.50	0.6			eS	20	07.00				1.1s	5.95nm	5.0mb			
	E	16s	1.46um				GTA	64.37	316	iPc	12	27.60	0.3		ALO	100.17	55 ePd	15	37.00	0.2
			S	17	25.00			1.0s	71.00nm			5.7mb			2.0s	22.06nm	5.3mb			
KLI	48.14	266	ePd	10	31.00	-0.4		Z	21s	2.69um		5.4Msz			Z	20s	0.98um	5.3Msz		
			e	11	12.00	185kmX		E	16s	2.60um										
WHN	49.60	315	Pc	10	42.50	0.2			S	21	07.00			RSSD	101.18	46 Pd	15	42.00	0.9	
	0.7s		28.00nm		5.4mb		SHL	65.53	300	iP	12	35.00	-0.1			1.1s	3.73nm	4.9mb		
	Z	22s	0.91um		4.7Msz				iS	21	20.00			ME0	106.62	55 e(PKP)	20	29.10	13.0X	
			pP	10	50.00	25km	YAK	67.03	348	eP	12	43.80	0.0		NB2	115.10	341 PKP	20	32.40	1.0
			S	17	48.00				ePP	13	19.00	146kmX				0.9s	1.70nm			
TIA	51.26	323	eP	10	53.60	-1.3			ePcP	13	27.00			SPC	118.80	327 ePKP	20	38.80	-0.2	
	Z	18s	1.53um		5.1Msz				ePP	15	15.00			PSZ	119.69	326 ePKP	20	40.00	-0.6	
MDJ	51.63	339	eP	10	55.50	-2.1			eS	21	35.00			SRO	120.63	326 ePKP	20	43.80	1.6	
	1.0s		27.00nm		5.1mb				eScS	22	34.00			BRG	121.04	331 e(PKP)	20	45.20	2.3	
	Z	25s	0.72um		4.6MszX				eSSS	29	03.00					e	21	04.40		
			eS	18	12.00		LSA	67.33	304 P	12	48.00	1.1		PRU	121.32	330 ePKP	20	45.50	2.0	
SNY	51.84	332	Pc	11	01.80	2.7		N	10s	0.59um					Z	22s	0.50um	5.1Msz		
	1.6s		37.00nm		5.1mb				sP	13	01.00				N	22s	0.30um			
	Z	20s	1.46um		5.0Msz				S	21	32.00				E	22s	0.50um			
	N	12s	0.96um				IRK	68.48	330	eP	12	47.30	-5.8X				e	21	04.50	
			S	18	20.00				e	13	08.30	80kmX		KHC	122.35	330	ePKP	20	47.00	1.5
IPM	52.51	278	ePc	11	04.70	-0.1			e	21	51.00					e	21	08.50		
	1.2s		101.50nm		5.6mb				e	22	44.10					e	21	16.80		
CN2	52.58	335	eP	11	02.60	-2.1			e	24	28.20			PTJ	123.05	325 ePKP	20	46.10	-1.0	
	1.0s		18.00nm		5.0mb		GUN	71.32	301 P	13	11.86	0.5		LPB	135.04	117 PKP	21	14.00	2.7	
	Z	20s	4.50um		5.5Msz			0.9s	260.00nm			6.3mb		CNCB	135.05	117 PKP	21	14.00	2.5	
			epP	11	18.00	58kmX	PKI	71.64	300 P	13	13.50	0.2		ZOBO	135.12	116 ePKP	21	05.00	-6.6X	
			S	18	29.00			1.1s	200.00nm			6.1mb				LR	05	50.00		
			sS	18	48.00		KKN	71.80	300 P	13	14.44	0.3		CCH	136.45	119 ePKP	21	15.00	1.2	
			eSS	22	08.00			0.9s	200.00nm			6.1mb		SIV	141.44	120 PKP	21	24.60	2.0	
SNG	53.27	281	eP	11	10.50	0.2	DMN	71.91	300 P	13	15.40	0.6		PPD	145.71	137 ePKP	21	28.90	-0.9	
			eS	18	44.00			1.1s	439.00nm			6.4mb X		TIO	146.39	328 iPKP	21	32.40	1.6	
			e	23	51.40		GKN	72.41	300 P	13	17.94	0.4				i	21	39.50		
GYA	53.40	306	iPc	11	12.00	0.7		1.1s	431.00nm			6.4mb X				i	21	48.50		
	1.2s		69.00nm		5.5mb		KDC	74.28	27 eP	13	28.70	1.1		BAO	152.28	132 e(PKP)	21	49.00	8.8X	
			pP	11	19.00	23km	WMO	74.45	317 iPc	13	29.00	0.0			S.D. = 1.2	on 124 of 142 obs.				
			sP	11	22.00			1.5s	24.00nm			5.0mb								
DHM	53.68	61	P	11	11.60	-1.6		Z	20s	3.08um		5.6Msz								
BJI	54.37	325	eP	11	16.50	-1.5		N	11s	1.82um										
	1.5s		20.00nm		4.9mb				iS	23	05.30									
	Z	18s	0.88um		4.9Msz				ScS	23	32.80									
			eS	18	52.00				SS	27	54.00									
			eScS	21	04.00		RSO	75.64	25 P	13	35.00	-0.7								
			eSS	22	32.00		TTA	75.79	21 eP	13	36.40	0.0								
KKH	54.74	64	P	11	21.80	0.8	HYB	76.10	289 iPc	13	39.20	0.3								
TIY	55.12	321	eP	11	22.50	-1.1		1.0s	65.00nm			5.6mb		ADK	0.69	14 iPd	08	06.20	-0.4	
	Z	20s	1.63um		5.1Msz				S	23	32.80			SMY	5.73	289 e(P)	09	19.70	1.5	
	N	13s	0.96um				SLKM	76.73	25 P	13	40.70	-0.9		SDN	10.68	61 eP	10	27.70	0.7	
			S	19	06.00		PMR	77.74	24 eP	13	48.00	0.9		SVW	15.39	42 eP	11	34.00	4.5X	
XAN	55.36	315	iPc	11	24.40	-1.0		1.0s	32.80nm			5.3mb		KDC	15.59	56 eP	11	32.50	0.5	
	0.8s		35.00nm		5.4mb		IMA	78.46	19 eP	13	51.40	0.2		TTA	16.25	36 eP	11	43.00	2.5	
			S	19	06.00			1.1s	30.90nm			5.2mb		IMA	19.00	30 eP	12	13.20	-1.4	
NST	55.46	291	eP	11	29.20	2.9X	KLU	79.04	25 P	13	55.60	1.2			1.3s	33.50nm	4.4mb			
KMI	56.10	303	Pc	11	31.50	0.4	FBA	79.91	22 eP	13	57.90	-1.0		TOA	19.91	45 eP	12	24.60	-0.1	
	1.5s		170.00nm		5.9mb			1.0s	20.00nm			5.1mb		FBA	20.37	37 eP	12	26.80	-2.6X	
			pP	11	44.00	44kmX	BALM	80.40	26 P	14	01.80	0.0		MBC	33.33	22 eP	14	27.50	-2.2	
			sP	11	50.00		POO	80.67	289 iP	14	04.80	0.9			0.5s	4.00nm	4.6mb			
BDT	56.91	293	eP	11	35.50	-1.2	BRW	80.74	15 P	14	03.50	0.3		SNY	40.94	281 iPd	15	34.70	0.7	
CHG	57.38	294	iPc	11	40.60	0.6	INK	86.47	21 eP	14	30.50	-1.9			1.6s	49.00nm	5.0mb			
	1.1s		50.63nm		5.5mb		SPA	87.25	180 iPd	14	37.00	0.5		Z	23s	1.66um	4.8MszX			
HHC	57.58	323	eP	11	40.30	-0.9		1.0s	30.00nm			5.5mb		BTO	49.92	288 eP	16	45.70	0.0	
	1.0s		15.00nm		5.0mb		MAW	87.54	203 eP	14	38.00	0.4		TIY	50.27	283 Pd	16	49.00	0.7	
	Z	21s	2.03um		5.2Msz			1.1s	23.00nm			5.4mb		XAN	54.82	282 eP	17	21.40	-1.0	
	N	11s	0.36um				GMW	88.07	42 P	14	43.60	3.0X		LZH	56.54	287 P	17	34.30	-0.6	
			S	11	52.00		LBFM	88.08	49 P	14	39.20	-1.8			1.5s	45.00nm	5.3mb			
CD2	57.64	310	iPc	11	41.60	-0.2	MCW	88.16	41 P	14	40.40	-0.6		HYB	85.35	292 ePd	20	27.60	-0.9	
	1.0s		120.00nm		5.9mb		ORV	88.22	50 P	14	41.20	-0.3			1.0s	25.00nm	5.4mb			
			S	19	40.00		SHW	88.30	44 P	14	40.40	-1.5								
SMY	58.07	15	e(P)	11	43.50	-0.7	BCH	89.00	55 P	14	43.30	-2.1								
BTO	58.35	322	iPc	11	46.00	-0.6	PNT	90.32	41 eP	14	52.00	0.8								
	1.0s		50.00nm		5.5mb			0.7s	6.00nm			5.0mb								
	N	17s	1.24um				MWC	90.61	56 eP	14	56.00	3.0X								
	E	17s	1.88um				SBB	90.82	55 eP	14	58.00	4.1X								
			eS	19	45.00		CLC	91.06	54 eP	14	59.00	4.1X								
PMO	59.40	106	iP	11	54.70	0.6	RVR	91.16	56 eP	14	50.00	-5.3X								
	0.9s		30.00nm		5.4mb		DPW	91.18	42 P	14	54.40	-0.8								
TPT	59.67	106	iP	11	56.40	0.4	TNP	91.46	52 P	14	56.80	-0.1		SHI	2.53	142 eP	15	23.00	2.2	
	0.9s		20.00nm		5.2mb		PLM	91.56	57 eP	15	01.00	3.5X								

IR4	3.57	2	iPc	15	36.20	0.6	KNT	24.25	301	iP	19	55.66	0.1	UPP	35.77	332	iPc	21	37.00	-1.1
IR1	3.75	359	iPc	15	39.00	0.9	AGG	24.25	296	eP	19	56.94	1.4	COP	35.96	323	iPd	21	40.70	0.9
IR7	4.04	358	iPc	15	42.50	0.3	KKB	24.29	303	iPc	19	56.00	0.0		1.3s	100.00nm			5.6mb	
KER	4.07	312	eP	15	47.00	4.3X	LIT	24.32	298	eP	19	56.38	0.1	BNI	36.61	304	P	21	44.30	-1.3
TEH	4.10	7	ePc	15	44.00	0.8	GRG	24.56	300	eP	19	59.34	0.7	RSL	36.71	305	P	21	45.09	-1.4
DHR	5.36	186	iPc	16	03.00	2.3	POO	24.61	117	iP	20	03.20	4.0X	HFS	37.55	330	eP	21	52.40	-0.7
			iS	17	40.00		KZN	24.90	298	eP	20	03.00	1.1		0.7s	128.10nm			5.9mb	
BHD	5.61	288	ePn	15	54.00	-10.2X	AAE	25.12	209	eP	20	10.00	5.6X	Z	18s	0.86um			4.6Msz	
			eP*	16	08.00		FNA	25.29	299	eP	20	06.54	1.0			LR	36	24.00		
			ePg	16	27.00		OBN	25.49	341	iPc	20	07.00	-0.2	WTS	37.80	316	eP	21	59.00	3.7X
			iSn	17	08.00			1.3s	420.00nm			5.9mb			0.9s	10.00nm			4.7mb	
			iSg	17	47.00		Z	19s	1.50um			4.5Msz	MUD	37.95	323	ePc	21	57.80	1.3	
TAB	7.35	332	eP	16	48.00	19.1X	N	19s	1.50um					1.0s	22.00nm			5.0mb		
MJMA	7.50	221	ePc	16	27.00	-3.9X	E	19s	1.10um				MEM	37.95	313	P	22	01.80	5.2X	
			eS	18	10.00				iPp	20	32.00	118kmX	ENN	38.04	313	eP	21	58.00	0.7	
RYD	7.81	209	iPc	16	34.00	-1.2			eSp	20	44.00			1.0s	11.00nm			4.7mb		
			iS	18	20.00				ePP	21	11.50		SOD	38.48	345	iP	22	01.40	0.5	
MSL	7.87	309	ePnc	16	34.00	-2.0			eS	24	44.00		DOU	38.74	312	P	22	13.30	10.1X	
			eP*	16	52.00				e	24	50.00		SNF	39.01	313	P	22	08.80	3.3X	
			ePg	17	10.00				eSS	25	45.00		NB2	39.07	331	P	22	04.70	-1.2	
			iSn	18	02.00				LR	28	40.00			0.9s	51.40nm			5.3mb		
			iS*	18	29.50				e	31	10.00		KONO	39.10	328	iP	22	05.90	-0.2	
			iSg	18	50.00		VLS	25.49	293	eP	20	07.40	-0.1	GTA	40.27	65	P	22	17.00	0.8
			i	19	07.00		SKO	25.51	302	iPc	20	08.00	0.5		1.2s	68.00nm			5.3mb	
QASM	8.41	231	ePc	16	41.00	-2.5	N	16s	4.57um							pP	22	21.00	14kmX	
			eS	18	30.00		E	14s	1.16um					EBR	41.07	297	eP	22	24.00	1.5
MAIO	8.62	55	ePn	16	46.00	-0.4			iS	24	42.00		ASK	41.45	328	eP	22	27.40	2.0	
	0.9s		e4nm		5.0mb				iSSS	26	52.00		FOO	41.97	329	iPd	22	29.85	0.2	
	</																			

Z 19s 1.40um 5.1msz
 MBC 72.18 358 eP 26 03.50 0.1
 1.0s 7.00nm 4.6mb
 INK 80.29 2 eP 26 44.00 -5.0X
 IMA 80.79 10 eP 26 52.20 0.3
 1.4s 21.90nm 4.9mb
 FBA 82.67 8 eP 27 02.20 0.6
 TTA 83.34 12 eP 27 05.70 0.5
 YKA 85.44 353 eP 27 17.50 1.9
 0.9s 4.00nm 4.6mb
 TOA 85.57 8 eP 27 17.70 1.3
 PMR 85.69 9 eP 27 17.30 0.4
 1.4s 37.50nm 5.4mb
 WRA 95.03 110 P 28 03.00 1.7
 0.7s 0.60nm 4.1mb X
 ZOBO 122.74 270 PKP 33 28.00 -7.7X
 LPB 122.84 270 ePKP 33 35.00 -0.7
 CNCB 122.86 270 ePKP 33 35.00 -0.9
 S.D. = 1.1 on 153 of 180 obs.

* OCT 11, 1991 03h 43m 11.83±1.09s
 50.998 N ±17.8km 176.625 W ±12.2km
 DEPTH = 33.0km (normal)
 4.6mb (2 obs.)
 ANDREANOF ISLANDS, ALEUTIAN IS. (7)
 ML 4.4 (PMR). Felt (11) on Adok.

ADK 0.89 358 iPc 43 28.10 0.2
 KDC 15.54 55 eP 46 50.30 0.4
 TTA 16.31 35 eP 47 01.10 1.4
 IMA 19.09 29 eP 47 33.20 -0.9
 1.4s 18.90nm 4.1mb
 FBA 20.43 36 eP 47 47.10 -1.4
 LZH 56.80 288 eP 52 55.00 -0.3
 1.3s 22.00nm 5.0mb
 GUN 73.27 294 P 54 42.24 0.3
 KKN 73.70 294 P 54 44.46 0.1
 PKI 73.79 294 P 54 45.00 0.0
 GKN 73.91 295 P 54 45.50 0.0
 DMN 73.94 294 P 54 45.94 0.2
 S.D. = 0.8 on 11 of 11 obs.

OCT 11, 1991 04h 41m 04.01±1.15s
 37.219 N ±11.2km 20.983 E ±6.4km
 DEPTH = 10.0km (geophysicist)
 3.4mb (1 obs.)
 IONIAN SEA (399)
 MD 3.7 (THE). 3.6 (ATH).

VLS 1.01 342 ePg 41 23.00 -0.1
 VLI 1.64 107 ePg 41 32.30 -0.7
 AGG 2.09 30 ePb 41 42.02 2.5
 eSb 42 06.38
 ATH 2.30 70 ePn 41 45.00 2.5
 IGT 2.37 348 iPn 41 45.02 1.5
 eSn 42 14.02
 KEK 2.66 340 ePn 41 49.00 1.4
 LIT 3.11 22 ePn 41 55.02 1.0
 eSn 42 31.02
 KZN 3.14 11 ePn 41 55.50 0.9
 PAIG 3.43 37 ePn 41 57.82 -0.8
 eSn 42 38.18
 FNA 3.57 5 ePn 42 01.02 0.4
 OHR 3.89 358 ePn 42 03.20 -2.0
 GRG 3.89 16 ePn 42 04.94 -0.2
 eSn 42 51.34
 OUR 3.89 36 ePn 42 03.94 -1.2
 LCI 3.91 324 Pc 42 04.60 -0.7
 eSn 42 47.50
 SOI 4.00 284 P 42 06.50 -0.2
 eSn 42 50.20
 ROI 4.19 305 P 42 10.10 0.7
 KNT 4.21 20 iPn 42 09.22 -0.4
 CZI 4.31 299 P 42 12.70 1.6
 SRS 4.39 27 iPn 42 11.06 -1.1
 iSn 43 02.25
 BRT 4.69 322 P 42 15.70 -0.8
 eSn 43 07.90
 MMN 4.74 306 P 42 16.20 -0.9
 SKO 4.76 4 ePn 42 15.00 -2.5
 MEU 4.84 270 P 42 17.50 -1.2
 eSn 43 12.00
 SGO 5.54 309 P 42 31.10 2.6
 eSn 43 33.90
 NB2 24.63 349 P 46 23.00 -2.5
 0.7s 0.70nm 3.4mb
 S.D. = 1.5 on 25 of 25 obs.

* OCT 11, 1991 04h 51m 26.43±1.25s
 37.018 N ±11.0km 21.022 E ±8.2km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN GREECE (368)
 MD 3.5 (THE). 3.4 (ATH).

VLS 1.21 344 ePb 51 48.00 -0.9
 VLI 1.56 100 ePb 51 54.00 -0.3
 AGG 2.25 27 ePn 52 06.42 2.1
 eSn 52 32.30
 IGT 2.57 348 ePn 52 10.94 2.2
 LIT 3.29 20 ePn 52 18.94 -0.1
 eSn 52 58.26
 KZN 3.34 10 ePn 52 20.00 0.3
 FNA 3.77 4 ePn 52 26.22 0.3
 OUR 4.04 34 ePn 52 28.38 -1.2
 GRG 4.08 15 ePn 52 29.70 -0.5
 OHR 4.09 358 ePn 52 29.50 -0.9
 KNT 4.39 19 ePn 52 34.86 0.3
 SRS 4.56 25 ePn 52 36.42 -0.6
 BRT 4.87 323 P 52 40.00 -1.4
 MEU 4.87 273 Pc 52 42.10 0.5
 eSn 53 36.90
 SKO 4.96 4 ePn 52 48.00 5.3X
 S.D. = 1.2 on 14 of 15 obs.

* OCT 11, 1991 04h 54m 06.45±1.26s
 37.076 N ±11.9km 21.063 E ±7.9km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN GREECE (368)
 MD 3.4 (THE). ML 3.3 (ATH).

VLS 1.16 341 ePg 54 27.20 -1.0
 VLI 1.54 103 ePb 54 34.50 0.5
 AGG 2.19 27 ePn 54 45.32 2.0
 eSn 55 13.52
 ATH 2.29 66 ePn 54 46.00 1.1
 IGT 2.52 347 iPn 54 50.80 2.7
 eSn 55 20.92
 KEK 2.81 340 ePn 54 53.50 1.2
 LIT 3.22 20 ePn 54 57.08 -1.0
 FNA 3.71 4 iPn 55 04.04 -1.0
 OUR 3.97 34 ePn 55 07.00 -1.7
 GRG 4.01 15 ePn 55 09.80 0.5
 OHR 4.03 357 ePn 55 05.20 -4.4X
 SOI 4.10 286 P 55 10.00 -0.5
 KNT 4.32 19 ePn 55 12.80 -0.9
 SRS 4.49 25 ePn 55 14.32 -1.7
 BRT 4.84 323 P 55 23.00 1.9
 SKO 4.90 3 ePn 55 21.00 -0.9
 MEU 4.90 272 P 55 20.80 -1.2
 eSn 56 18.10
 MGR 5.29 307 P 55 31.00 3.6X
 eSn 56 29.00
 S.D. = 1.5 on 16 of 18 obs.

? OCT 11, 1991 05h 32m 58.14±11.19s
 31.987 S ±85.1km 71.561 W ±34.5km
 DEPTH = 33.0km (normal)
 NEAR COAST OF CENTRAL CHILE (135)
 MD 4.3 (SAN).

IHA 1.04 184 eP 33 15.50 -0.9
 eS 33 32.00
 JACH 1.07 130 iP 33 17.00 0.0
 iS 33 34.50
 PEL 1.37 148 iP 33 21.30 0.1
 LCCH 1.48 180 iP 33 23.50 0.7
 SAN 1.65 153 eP 33 25.00 -0.2
 iS 33 50.20
 TACH 1.74 163 iP 33 26.30 -0.2
 iS 33 51.90
 PCH 1.85 152 iP 33 28.00 -0.2
 LNV 1.97 176 iP 33 30.00 0.2
 CHCH 2.09 159 iP 33 31.40 -0.1
 iS 34 00.50
 S.D. = 0.5 on 9 of 9 obs.

* OCT 11, 1991 05h 42m 33.96±1.70s
 24.841 N ±9.8km 122.084 E ±13.4km
 DEPTH = 10.0km (geophysicist)
 4.2mb (1 obs.)
 TAIWAN REGION (243)
 TWC 0.31 223 iPc 42 40.40 -0.1
 eS 42 44.00

TWZ 0.52 299 iPc 42 44.80 0.2
 eS 42 51.50
 TATO 0.56 284 ePc 42 45.00 -0.3
 TWD 0.88 211 ePd 42 51.00 0.2
 SSE 6.28 353 eP 44 22.50 13.6X
 e 46 02.60
 WRA 46.09 164 P 51 00.00 -0.1
 0.4s 1.10nm 4.2mb
 S.D. = 0.3 on 5 of 6 obs.

OCT 11, 1991 05h 59m 37.82±0.56s
 6.342 S ±7.0km 130.060 E ±10.3km
 DEPTH = 128.6km (2 depth phases)
 4.9mb (14 obs.)
 BANDA SEA (280)

MTN 6.55 171 eP 01 12.20 -0.9
 KNA 9.44 188 iPd 01 50.00 -2.0
 0.2s 153.00nm 6.4mb X
 eS 03 29.00
 WSI 10.22 250 ePc 02 04.00 1.7
 eS 03 54.50
 e 05 59.30
 WR2 14.16 163 iPc 02 49.40 -4.4X
 0.4s 206.20nm 5.8mb
 eS 05 20.40
 OIS 16.89 148 eP 03 25.80 -2.2
 0.7s 52.00nm 4.9mb
 iS 06 22.00
 ASPA 17.62 168 iPc 03 35.20 -1.6
 0.4s 171.40nm 5.7mb
 eS 06 43.80
 MBL 17.75 213 eP 03 38.20 -0.2
 0.3s 9.00nm 4.5mb
 e 03 44.00
 WARB 20.00 189 eP 04 04.00 1.5
 0.3s 15.00nm 4.9mb
 eS 07 32.00
 CTAO 20.83 133 iP 04 12.00 1.0
 1.0s 15.00nm 4.3mb
 NANU 21.37 220 eP 04 17.00 0.8
 0.6s 32.00nm 4.9mb
 QLP 24.24 148 eP 04 45.00 0.8
 e 09 18.00
 FORR 24.45 184 eP 04 46.00 -0.1
 0.3s 15.00nm 5.0mb
 MRWA 26.35 209 eP 05 03.00 -0.6
 0.4s 5.00nm 4.5mb
 e 05 37.00 166kmX
 eS 10 00.00
 RMO 26.81 140 eP 05 26.00 18.1X
 i 05 52.00 121km
 BAL 27.20 206 eP 05 11.00 -0.4
 e 05 45.00 165kmX
 eS 10 24.00
 STK 27.60 158 eP 05 16.00 1.0
 0.4s 2.30nm 4.2mb
 eP 05 44.80 136km
 eS 10 38.50
 KLB 27.63 203 eP 05 15.00 -0.3
 0.3s 7.00nm 4.8mb
 MUN 28.60 205 eP 05 24.00 0.0
 e 06 04.00 197kmX
 NWA0 29.02 203 eP 05 27.50 -0.2
 ADE 29.58 166 e(P) 05 33.60 0.8
 RKG 30.57 201 eP 05 42.00 0.6
 BDT 38.61 308 iPd 06 50.00 -0.2
 0.7s 49.40nm 5.4mb
 CHG 39.57 310 ePc 06 58.90 0.7
 0.9s 18.91nm 4.9mb
 GUN 54.57 311 P 08 54.80 -0.8
 PKI 54.75 310 P 08 55.80 -1.0
 KKN 54.96 310 P 08 57.20 -1.0
 DMN 55.00 310 P 08 56.40 -2.2
 GKN 55.55 310 P 09 01.60 -0.8
 HYB 56.08 296 eP 09 05.10 -1.1
 MAW 75.58 201 eP 11 11.00 1.3
 MAIO 78.32 309 iPc 11 26.30 0.7
 0.8s 48.13nm 5.3mb
 KIC 135.09 273 PKP 18 46.20 1.6
 LIC 135.37 272 PKP 18 46.60 1.5
 TIC 135.38 273 PKP 18 46.70 1.5
 CNCB 150.89 142 PKP 19 20.00 7.6X
 LPB 151.03 142 PKP 19 20.00 7.6X
 ZOBO 151.22 142 PKP 19 20.30 7.4X
 CCH 151.51 146 PKP 19 21.50 6.6X
 PPD 151.77 177 ePKP 19 19.70 6.8X

11d 06h

S.D. = 1.2 on 32 of 39 obs.					ALN	1.12	47	ePg	08 14.24	0.8	MOZ	37.69	153	P	28 37.40	1.3	
* OCT 11, 1991 06h 11m 27.15± 0.72s					PRK	1.34	131	eSg	08 29.12		RUZ	38.43	153	P	28 43.60	1.2	
26.326 S ± 6.5km 27.510 E ± 9.0km					SOH	1.41	300	ePb	08 18.50	1.3	URZ	38.57	151	P	28 43.70	0.2	
DEPTH = 5.0km (geophysicist)								iSb	08 17.93	-0.3	DIW	39.23	156	P	28 49.40	0.4	
REPUBLIC OF SOUTH AFRICA (584)					SRS	1.43	313	ePb	08 39.58		THZ	39.66	158	P	28 52.50	-0.1	
mbLg 3.5 (BUL).								eSb	08 18.01	-0.5	KIW	39.69	155	P	28 52.80	0.0	
KSR	0.72	310	iPd	11 43.00	1.5				08 38.16		TCW	39.72	156	P	28 53.30	0.3	
			S	11 53.50		KDZ	1.55	13	iPc	08 20.00	-0.1	MNG	39.72	155	P	28 52.90	-0.2
SLR	0.91	50	iPd	11 46.00	0.9	RZN	1.56	353	iPc	08 21.00	0.5		0.7s	125.00nm		5.8mb	
			S	11 58.40		THE	1.61	289	ePb	08 21.16	0.2	BAG	39.88	304	ePd	28 55.30	0.5
VIR	1.84	198	iPd	12 04.00	4.2X				eSb	08 41.84		MRW	39.91	156	P	28 54.10	-0.4
			S	12 27.50		MMB	1.73	327	eP	08 23.00	0.2	CAW	39.95	155	P	28 54.60	-0.4
SEK	1.99	177	iPd	12 04.20	2.2	KNT	1.88	304	ePb	08 24.84	-0.1	COOL	40.02	227	eP	28 55.20	-0.5
			S	12 28.40					eSb	08 52.00			0.3s	6.00nm		4.9mb	
BFT	2.37	75	iPc	12 11.00	3.5X	MFT	1.88	69	ePn	08 24.80	-0.2	PGZ	40.07	154	P	28 55.30	-0.5
			S	12 33.50		LIT	1.90	270	iPb	08 24.20	-1.1	MTW	40.18	155	P	28 56.30	-0.5
FRS	3.92	209	iPd	12 28.60	-0.7				eSb	08 50.24		MQW	40.29	155	P	28 57.10	-0.6
			i	13 04.50		DIM	1.96	12	eP	08 27.00	1.0	LTZ	40.32	159	P	28 58.20	0.2
JOZ	4.23	106	eP	12 44.00	10.3X	PLD	1.97	354	eP	08 27.00	0.7	BLW	40.34	155	P	28 57.50	-0.6
	0.8s	53.73nm				GRG	2.12	294	ePn	08 28.72	0.3	KHZ	40.46	158	P	28 58.30	-0.8
			S	13 34.00					eSn	08 53.56			0.5s	62.00nm		5.7mb	
HVD	4.62	202	iPc	12 38.40	-0.9	EDC	2.23	84	ePn	08 29.00	-1.0	EWZ	40.50	161	eP	29 00.50	1.2
			S	13 25.50		KKB	2.24	321	eP	08 30.00	-0.2	BWZ	41.13	163	P	29 04.00	-0.5
BUL	6.24	10	iPn	13 02.80	0.5	AGG	2.32	242	iPn	08 31.25	-0.2	KLB	42.88	228	iPc	29 18.20	-0.8
			iSn	14 11.50					eSn	09 00.16			0.4s	16.00nm		5.1mb	
			iSg	14 41.50		PGB	2.48	346	eP	08 33.00	-0.7	MRWA	43.14	232	iPc	29 20.70	-0.5
POF	7.35	244	eP	13 16.50	-1.3	IZM	2.49	134	ePn	08 33.00	-0.7		0.4s	9.00nm		4.9mb	
	1.0s	70.00nm				JMB	2.63	27	eP	08 42.00	6.4X	BAL	43.20	230	eP	29 21.00	-0.7
KRI	9.65	12	iPn	13 50.00	0.1	DMK	2.70	51	ePn	08 36.50	-0.2	NWAO	43.92	227	eP	29 26.70	-0.8
			iSn	15 31.00		VTS	2.79	332	iPg	08 40.00	1.9	MUN	44.22	229	eP	29 29.20	-0.7
			iSg	16 27.50		FNA	2.81	284	ePn	08 38.40	0.0		0.8s	32.00nm		5.1mb	
CER	10.00	224	eP	13 43.00	-11.6X	CTT	2.82	68	iPn	08 37.60	-0.9	RKG	44.92	225	eP	29 35.60	0.2
	1.0s	134.00nm				PVL	3.09	5	eP	08 40.00	-2.1		0.6s	53.00nm		5.5mb	
			S	15 41.00		SKO	3.24	306	ePn	08 54.00	9.7X	LOE	56.71	295	eP	31 01.00	-3.7X
S.D. = 0.8 on 28 of 30 obs.					OCT 11, 1991 07h 21m 30.21± 0.79s					CHG	59.67	295	eP	31 26.00	0.8		
					5.5B5 S ± 4.6km 154.298 E ± 4.5km					CHTO	59.67	295	P	31 25.80	0.6		
					DEPTH = 113.4 ± 7.3 km								pP	31 46.80	82kmX		
					5.2mb (23 obs.)					CD2	60.38	310	eP	31 29.00	-0.9		
					SOLOMON ISLANDS (193)					LZH	62.83	315	eP	31 46.50	0.1		
RAB	2.53	303	iPd	22 10.50	-0.3							1.3s	19.00nm		4.9mb		
	0.8s	895.52nm							iS	22 48.00		GTA	67.24	317	Pc	32 15.50	0.7
HNR	6.78	125	eP	23 08.00	-0.7							0.9s	20.00nm		5.0mb		
			eS	24 27.00								SHL	67.99	300	iP	32 19.50	-0.2
PMG	8.04	241	iPd	23 26.20	0.4							GUN	73.80	301	P	32 55.12	0.3
			eS	24 58.00								PKI	74.11	301	P	32 56.66	0.1
CTAO	16.40	208	iPc	25 17.00	1.9							KKN	74.28	301	P	32 57.54	0.1
	1.0s	90.00nm										DMN	74.38	301	P	32 57.96	-0.1
			i	25 28.50								GKN	74.89	301	P	33 00.14	-0.7
DZM	20.17	146	iPc	25 57.00	-1.0							FBA	82.06	21	P	33 39.00	0.1
OIS	20.62	222	iPd	26 02.30	-0.2								0.8s	3.70nm		4.2mb	
	0.8s	123.00nm										SPA	84.45	180	iPc	33 52.10	0.9
RMO	21.45	194	iPc	26 21.90	11.1X								0.9s	56.82nm		5.5mb	
	0.5s	126.00nm										MAW	85.42	203	eP	33 57.00	1.2
BRS	21.73	184	iPd	26 15.00	1.4								0.8s	35.00nm		5.3mb	
	1.0s	33.00nm										S.D. = 0.8 on 64 of 66 obs.					
			i(pP)	26 25.00	38kmX							% OCT 11, 1991 07h 49m 13.79± 1.05s					
			i	26 34.00								41.087 N ± 9.8km 22.415 E ± 6.0km					
QLP	22.99	204	iPc	26 27.00	1.3							DEPTH = 10.0km (geophysicist)					
	0.7s	409.00nm										NORTHWESTERN BALKAN REGION (383)					
MTN	23.96	251	eP	26 36.00	0.7							MD 2.1 (THE).					
WR2	24.07	232	iPd	26 37.30	0.9							GRG	0.13	184	iPg	49 17.22	0.2
	0.4s	64.60nm												iSg	49 19.26		
COO	24.96	185	iPc	26 44.60	-0.2							KNT	0.37	78	ePg	49 21.50	0.0
	1.2s	220.00nm												iSg	49 26.62		
ASPA	26.62	225	iPc	26 59.80	-0.3							THE	0.62	137	ePg	49 25.86	-0.3
	1.0s	29.00nm												iSg	49 33.74		
			e	27 15.70								SOH	0.76	110	iPg	49 28.94	0.3
KNA	27.01	246	eP	27 03.70	0.1									eSg	49 38.66		
STK	28.74	203	iPc	27 18.80	-0.2							FNA	0.84	249	ePg	49 30.02	-0.1
	0.7s	13.60nm												eSg	49 42.14		
BWA	29.21	190	iPc	27 22.40	-0.9							SRS	0.89	88	iPg	49 30.74	-0.1
CNB	29.93	188	eP	27 30.00	0.3									eSg	49 42.86		
CAN	29.99	189	iPc	27 29.80	-0.4							LIT	0.99	177	ePg	49 32.50	0.0
ADE	32.59	204	eP	27 52.60	-0.4							S.D. = 0.3 on 7 of 7 obs.					
	0.8s	95.52nm										OCT 11, 1991 08h 10m 27.63± 0.70s					
BFD	33.23	197	eP	27 56.00	-2.4							22.775 S ± 5.1km 67.558 W ± 9.2km					
	1.0s	54.00nm										DEPTH = 164.2 ± 9.1 km					
WARB	33.43	229	iPc	28 00.30	0.0							4.7mb (10 obs.)					
	0.3s	9.00nm										CHILE-BOLIVIA BORDER REGION (124)					
FORR	35.18	221	eP	28 14.00	-1.1							CCH	5.53	14	P	11 48.20	-1.2
WCZ	35.39	151	P	28 18.20	1.4									i	12 48.00		
MBL	36.81	242	eP	28 28.00	-1.0							CNCB	5.95	356	iPd	11 58.20	3.0
TAU	37.68	188	iPc	28 37.20	1.2							LPB	6.23	355	iPd	11 58.20	-0.6

1.0s 300.00nm 5.5mb
 ZOBO 6.49 355 iPd 12 01.20 -1.3
 ARE 7.29 329 eP 12 09.00 -3.9X
 CFA 8.82 184 ePc 12 34.00 1.1
 JACH 10.23 195 eP 12 56.50 5.1X
 ROCH 10.61 196 eP 13 00.50 4.0X
 PEL 10.69 194 eP 12 58.90 1.4
 SAN 10.98 194 eP 13 04.50 3.2X
 PCH 11.11 193 eP 13 03.70 0.7
 LCCH 11.23 197 eP 13 02.00 -2.4
 TACH 11.24 195 eP 13 04.50 -0.1
 CHCH 11.45 193 eP 13 08.00 0.7
 LNV 11.64 196 eP 13 08.00 -1.8
 NNA 13.91 319 iP 13 43.20 4.2X
 0.9s 7.56nm 4.1mb
 PPD 15.05 90 eP 13 53.30 0.1
 e 13 56.90
 e 13 59.30
 e 14 11.10
 BAO 19.78 72 ePd 14 48.50 1.1
 BMA 21.59 94 eP 15 05.50 0.3
 e 15 07.20
 e 15 11.70
 DIAC 27.25 341 eP 15 58.71 0.1
 ANCC 27.67 340 eP 16 02.17 0.0
 PDCR 28.90 74 eP 16 11.90 -1.4
 MBO 61.80 58 iP 20 31.50 0.1
 TUL 64.19 335 eP 20 46.10 -0.7
 0.4s 0.70nm 3.9mb
 SIO 64.25 334 eP 20 40.50 -6.7X
 LIC 67.55 73 P 21 07.90 -0.7
 0.9s 18.50nm 4.9mb
 TIC 67.75 72 P 21 09.24 -0.7
 1.0s 41.50nm 5.2mb
 KIC 67.87 73 P 21 10.18 -0.4
 0.6s 38.00nm 5.3mb
 ALQ 68.24 326 eP 21 13.00 0.2
 0.9s 3.57nm 4.2mb
 e 21 53.50
 ANMO 68.25 326 P 21 13.70 0.9
 GOL 71.48 330 P 21 31.50 -0.9
 1.0s 7.00nm 4.4mb
 BUL 87.79 111 iPc 23 02.30 2.4
 1.0s 55.00nm 5.5mb
 LSZ 89.34 106 iP 23 12.00 4.8X
 KRI 89.98 108 iPc 23 14.50 4.3X
 MTD 91.72 109 iPd 23 17.00 -1.1
 YKA 92.80 340 eP 23 22.90 0.9
 0.6s 1.90nm 4.5mb
 HYB 147.78 93 ePKP 29 56.60 4.5X
 GKN 154.38 73 PKP 30 13.58 11.9X
 KKN 154.96 73 PKP 30 14.90 12.4X
 S.D. = 1.3 on 28 of 39 obs.
 OCT 11, 1991 09h 49m 55.32±0.20s
 53.821 N ± 5.7km 155.195 E ± 4.1km
 DEPTH = 405.9km (3 depth phases)
 4.5mb (30 obs.)
 KAMCHATKA (217)
 ASAJ 12.72 225 eP 52 45.10 -0.1
 KUSJ 12.77 217 eP 52 41.50 -4.2X
 eS 54 53.80
 HOOJ 13.91 219 eP 52 56.10 -1.8
 eS 55 18.30
 ADK 17.05 85 eP 53 28.60 -1.8
 1.1s 58.90nm 4.9mb
 OFUJ 17.40 218 eP 53 34.80 0.9
 eS 56 37.70
 YAMJ 18.80 220 eP 53 49.20 1.4
 MDJ 19.00 251 P 53 50.50 0.8
 0.8s 21.00nm 4.6mb
 MAT 20.93 221 eP 54 10.00 1.6
 0.7s 36.30nm 4.9mb
 CN2 21.85 255 P 54 17.40 0.3
 0.7s 9.50nm 4.3mb
 SNY 24.16 253 eP 54 38.60 0.3
 TTA 26.52 50 eP 54 59.40 -0.1
 JMA 27.50 43 eP 55 08.20 0.1
 0.7s 16.80nm 4.5mb
 RSO 28.34 55 P 55 16.10 0.5
 KDC 29.06 61 eP 55 21.10 -0.5
 SLKM 29.57 55 P 55 24.80 -1.3
 PMR 29.88 52 P 55 28.60 -0.1
 1.0s 18.00nm 4.1mb
 FBA 30.00 46 eP 55 30.70 1.0

0.9s 33.33nm 4.7mb
 TOA 31.15 51 eP 55 41.10 1.3
 BALM 33.19 52 P 55 58.00 0.8
 INK 35.09 38 ePc 56 13.80 0.9
 0.4s 21.00nm 4.8mb
 MBC 37.52 23 eP 56 34.50 1.5
 0.5s 7.00nm 4.3mb
 GTA 39.63 272 Pd 56 52.20 1.3
 1.0s 23.00nm 4.5mb
 WMO 43.96 286 P 57 26.50 1.0
 YKA 44.58 41 eP 57 30.60 0.5
 0.6s 7.10nm 4.2mb
 PNT 50.10 58 eP 58 13.00 0.5
 0.9s 14.00nm 4.3mb
 KEV 51.15 339 eP 58 20.00 0.1
 NEW 52.04 58 P 58 26.10 -0.8
 1.1s 25.31nm 4.5mb
 SOD 53.17 338 iP 58 34.70 0.0
 FFC 54.58 44 eP 58 45.00 -0.1
 0.8s 25.00nm 4.6mb
 ORV 55.65 68 P 58 52.20 -0.6
 GUN 55.92 272 P 58 54.58 -0.7
 LRM 56.04 57 ePc 58 56.00 0.2
 KKN 56.37 272 P 58 57.86 -0.3
 PKI 56.45 272 P 58 58.50 -0.4
 GKN 56.59 273 P 58 59.62 -0.1
 DMN 56.61 272 P 58 59.62 -0.3
 CMB 57.34 69 P 59 05.30 0.7
 1.1s 32.35nm 4.7mb
 KAF 57.61 334 eP 59 05.10 -1.0
 0.4s 4.80nm 4.3mb
 NUR 59.40 334 eP 59 10.90 -7.3X
 BW06 59.67 58 P 59 20.90 0.2
 1.0s 23.33nm 4.6mb
 ISA 60.11 70 eP 59 23.00 -0.5
 OBN 60.27 324 iPc 59 23.00 -1.2
 1.5s *****nm 7.7mb X
 CLC 60.49 69 eP 59 26.00 0.1
 SBB 61.19 70 eP 59 31.00 0.4
 GSC 61.30 69 eP 59 32.00 0.6
 RSSD 61.39 54 P 59 32.00 0.0
 1.0s 54.23nm 5.0mb
 MWC 61.40 70 eP 59 33.00 0.9
 MSU 61.44 63 P 59 33.00 0.5
 UPP 61.68 337 iP 59 33.00 -0.4
 RVR 61.95 70 eP 59 35.00 -0.5
 NB2 61.96 341 P 59 34.20 -1.1
 0.6s 4.80nm 4.2mb
 PEC 62.15 70 P 59 36.80 0.0
 1.0s 7.33nm 4.2mb
 HFS 62.30 339 eP 59 36.20 -1.2
 0.4s 1.90nm 4.0mb
 PLM 62.71 70 eP 59 41.00 0.3
 PV09 63.05 61 P 59 43.00 0.0
 BAR 63.32 71 eP 59 44.00 -0.4
 GOL 64.07 58 P 59 50.00 0.6
 1.0s 5.25nm 4.1mb
 ANMO 67.14 62 P 00 08.90 0.2
 1.0s 10.00nm 4.5mb
 ALQ 67.14 62 ePc 00 08.90 0.2
 1.0s 11.75nm 4.6mb
 e 01 35.00 393km
 EKA 69.76 347 P 00 24.00 0.0
 0.4s 3.30nm 4.3mb
 SIO 71.62 54 eP 00 35.40 0.1
 TUL 71.74 54 eP 00 35.50 -0.4
 0.6s 14.00nm 4.8mb
 FVM 72.53 49 P 00 40.20 -0.3
 1.0s 18.00nm 4.7mb
 CTAO 74.00 189 iPc 00 49.00 0.0
 1.0s 17.50nm 4.6mb
 QIS 75.28 195 eP 00 55.20 -1.0
 WR2 75.63 200 iPd 00 57.80 -0.3
 0.4s 8.30nm 4.8mb
 i 02 28.50 405km
 ASPA 79.33 200 iPc 01 18.60 0.4
 0.5s 20.50nm 5.1mb
 eP 02 53.00 420km
 SPA 143.64 180 iPKPc 08 39.50 -3.0
 1.0s 22.50nm
 S.D. = 0.8 on 66 of 68 obs.
 ? OCT 11, 1991 09h 50m 43.39±2.58s
 52.828 N ± 43.1km 154.537 E ± 35.3km
 DEPTH = 33.0km (normal)
 5.0mb (6 obs.)
 NORTHWEST OF KURIL ISLANDS (220)

BJI 29.00 259 eP 56 40.00 -1.9
 INK 36.12 37 eP 57 43.00 -0.6
 LZH 38.97 265 eP 58 07.60 -0.5
 2.0s 35.00nm 4.8mb
 SHL 53.64 265 eP 00 06.50 2.6
 OBN 60.85 324 eP 00 53.00 -1.4
 1.5s 70.00nm 5.6mb
 e 00 55.00
 NB2 62.77 341 P 01 03.20 -4.1X
 0.9s 5.70nm 4.7mb
 KRA 70.54 331 eP 01 57.10 0.6
 KSP 70.87 333 ePc 01 58.60 0.1
 CLL 71.30 336 i(P) 02 00.70 -0.4
 1.7s 56.00nm 5.3mb
 BRG 71.46 335 i(P) 02 02.20 0.2
 1.5s 20.00nm 4.9mb
 PRU 72.12 334 eP 02 06.40 0.4
 MOX 72.26 336 iPc 02 07.20 0.4
 1.5s 26.00nm 5.0mb
 KHC 73.16 334 eP 02 12.60 0.5
 e 02 27.20
 S.D. = 1.3 on 12 of 13 obs.
 OCT 11, 1991 10h 44m 50.08±0.15s
 7.599 S ± 2.9km 117.454 E ± 3.7km
 DEPTH = 312.5km (2 depth phases)
 5.1mb (59 obs.)
 BALI SEA (278)
 KHKI 1.98 247 iPc 45 36.00 -2.1
 eS 46 02.80
 e 52 30.00
 WSI 3.48 126 ePc 45 49.00 -2.9
 iS 46 35.70
 e 53 32.00
 TRT 4.78 268 iPd 46 07.50 1.4
 eS 46 55.50
 SJI 5.64 268 ePd 46 16.30 0.2
 eS 47 21.00
 MNI 11.62 40 ePd 47 33.50 4.6X
 TSM 11.82 2 ePd 47 36.00 4.6X
 KLI 12.81 282 eP 47 43.00 -0.4
 eS 50 07.60
 e 50 54.00
 KKM 13.61 355 iPc 47 54.60 1.5
 0.9s 346.30nm 5.7mb
 MBL 13.68 171 eP 47 52.50 -1.3
 0.3s 20.00nm 4.9mb
 eS 50 28.00
 KNA 13.72 127 eP 47 53.20 -1.2
 eS 50 18.00
 MTN 14.43 112 eP 48 02.00 -0.9
 0.4s 183.00nm 5.8mb
 eS 50 35.00
 NANU 14.99 187 eP 48 08.00 -1.2
 0.4s 19.00nm 4.8mb
 eS 50 58.00
 KGM 17.03 304 ePc 48 31.80 0.9
 IPM 20.37 306 ePc 49 05.00 0.5
 0.5s 39.00nm 5.0mb
 WARB 20.45 156 eP 49 06.00 0.8
 0.4s 29.00nm 5.0mb
 WR2 20.48 129 iPd 49 05.90 0.4
 0.3s 49.20nm 5.3mb
 eS 53 08.30
 MRWA 21.55 183 eP 49 16.00 0.2
 0.5s 32.00nm 4.9mb
 e 49 47.00
 eS 53 25.00
 SNG 22.30 311 eP 49 24.00 0.9
 eS 53 18.00
 ASPA 22.46 137 iPd 49 25.40 0.8
 0.5s 60.20nm 5.2mb
 eS 53 07.40
 iScS 59 58.50
 BAL 22.90 182 eP 49 28.00 -0.7
 0.4s 27.00nm 5.0mb
 e 50 03.00 182kmX
 BAG 24.05 7 ePd 49 39.50 -0.1
 QIS 25.01 123 iPc 49 48.00 -0.2
 0.2s 12.00nm 5.0mb
 e 50 35.20 249kmX
 eS 53 47.80
 FORR 25.19 158 eP 49 49.00 -0.6
 0.3s 17.00nm 4.9mb
 NWA0 25.20 180 iPd 49 49.20 -0.6
 0.6s 45.00nm 5.1mb

11d 10h

RKG	26.84	181	iPc	50	31.00	215kmX	0.8s	26.00nm	4.6mb	PNT	116.87	38	ePKP	03	00.00	0.8									
OIZ	27.50	344	Pc	50	11.60	1.0	46.73	320	P	52	49.70	-1.2	NEW	118.80	38	PKP	03	02.50	-0.4						
	1.2s	94.00nm			5.1mb		0.8s	80.00nm	5.1mb	DMN	46.95	319	P	52	51.60	-0.9	SES	121.43	34	ePKP	03	08.00	0.1		
NST	28.79	323	eP	50	25.50	3.5X	0.9s	158.00nm	5.3mb	KKN	46.96	320	P	52	51.56	-1.0	ISA	121.90	53	ePKP	03	09.00	-0.3		
KHT	29.06	320	iPc	50	25.20	0.8	0.9s	129.00nm	5.3mb	TNP	122.21	50	PKP	03	09.60	-0.4	PAS	122.52	54	ePKP	03	12.00	1.6		
LOE	29.30	328	iPc	50	26.60	0.1	46.99	23	P	52	52.80	0.4	CLC	122.55	52	ePKP	03	11.00	0.5						
CTAO	30.53	117	iPc	50	38.00	0.7	47.41	359	eP	52	55.50	0.0	MWC	122.59	54	ePKP	03	11.00	0.2						
	1.0s	65.00nm			5.1mb		1.2s	170.00nm	5.2mb	KIC	122.65	273	PKP	03	10.60	-0.6		1.0s	13.00nm						
BDT	30.69	324	iPc	50	38.00	-0.6	47.52	319	P	52	55.70	-1.1	SBB	122.66	54	ePKP	03	11.00	0.2						
	0.6s	96.50nm			5.5mb		1.0s	190.00nm	5.3mb	LRM	122.71	39	ePKP	03	10.90	0.2		122.92	273	PKP	03	10.94	-0.8		
GZH	30.76	353	iPc	50	40.30	1.2	47.91	24	P	52	58.40	-1.0	LIC	122.92	273	PKP	03	10.94	-0.8		0.8s	8.50nm			
OLP	31.68	130	iPd	50	48.00	0.8	47.92	22	eP	52	58.60	-1.0	TIC	122.95	273	PKP	03	11.04	-0.8		0.9s	10.50nm			
CHG	31.97	325	ePc	50	50.90	1.2	48.03	23	iPc	52	59.60	-0.8	GSC	123.31	53	ePKP	03	13.00	1.0		1.2s	160.00nm			
	1.0s	60.00nm			5.0mb		48.44	352	P	53	03.60	0.0	PEC	123.40	54	PKP	03	12.50	0.3		0.9s	10.50nm			
OZH	32.36	2	eP	50	53.50	0.5	48.51	354	Pc	53	04.40	0.3	HVU	124.16	44	PKP	03	13.80	0.2		1.2s	160.00nm			
TATO	32.61	7	P	50	54.50	-0.6	48.52	25	P	53	02.30	-1.8	DUG	124.74	46	PKP	03	15.50	0.8		0.9s	10.50nm			
	1.0s	240.00nm			5.6mb		48.95	23	P	53	05.60	-1.7	MSU	125.82	47	PKP	03	18.00	1.0		1.2s	160.00nm			
STK	33.00	140	iPc	50	58.90	0.5	49.27	113	iPd	53	11.10	0.9	BN06	125.91	42	PKP	03	16.60	-0.5		0.9s	10.50nm			
	0.5s	10.10nm			4.6mb		49.50	6	iPc	53	10.80	-0.6	RSSD	128.75	38	PKP	03	21.40	-1.0		1.2s	240.00nm			
							1.2s	240.00nm	5.4mb	GOL	130.13	43	PKP	03	25.60	0.4		128.95	38	PKP	03	21.40	-1.0		
ADE	33.52	147	iPd	51	03.50	0.7	49.55	342	iPc	53	13.00	1.0	ALO	131.42	49	ePKP	03	28.00	0.2		1.0s	210.00nm			
	0.9s	63.87nm			5.1mb		1.0s	210.00nm	5.4mb																
GUMO	34.41	52	eP	51	09.70	-0.7		PcP	54	28.60		FVM	140.62	36	PKP	03	37.00	-7.6X							
								ScP	57	54.20		OLY	141.62	39	PKP	03	40.30	-6.1X							
PJG	34.41	52	eP	51	09.80	-0.6		ScS	02	28.80		ELC	141.79	35	PKP	03	41.30	-5.3X							
GUA	34.41	53	eP	51	09.70	-0.8	YAMJ	50.16	23	P	53	16.80	0.2	MIM	142.08	7	PKP	03	41.50	-5.4X					
	0.6s	570.67nm			6.2mb X		POO	50.24	302	eP	53	16.00	-1.5	BNH	142.38	10	PKP	03	43.40	-4.1X					
RMD	35.17	126	iPc	51	28.50	11.7X	OFUJ	51.59	24	P	53	27.00	-0.2	PWLA	144.06	37	PKP	03	47.60	-3.0					
	1.0s	49.00nm					CN2	51.67	7	iPc	53	26.40	-1.2	TBR	145.02	15	PKP	03	52.20	0.2					
								86.00nm	5.1mb					LVNJ	145.18	16	PKP	03	52.50	0.2					
GYA	35.44	343	iPc	51	20.60	1.5	NDI	52.97	315	iP	53	33.50	-4.0X	GBTN	145.74	32	PKP	03	53.50	0.1					
	1.2s	72.00nm			5.0mb		MDJ	53.11	11	iPc	53	38.00	-0.3	TKL	145.97	32	PKP	03	53.70	-0.1					
								450.00nm	5.9mb					NAV	146.09	27	PKP	03	54.00	0.0					
KMI	35.54	337	Pc	51	22.50	2.4X	MRRJ	54.25	21	eP	53	46.20	-0.3	BLA	146.34	26	PKP	03	55.10	0.7					
CMS	35.57	136	iPd	51	21.40	1.3	HOOJ	55.05	23	eP	53	52.50	0.3	CVL	146.50	23	PKP	03	54.30	-0.2					
BFD	37.24	146	iPd	51	33.40	-0.6	KUSJ	56.21	24	eP	53	59.90	-0.5	CEH	148.03	26	PKP	03	57.60	0.5					
	1.0s	54.00nm			4.9mb		ASAJ	56.29	22	P	54	00.60	-0.3	PPD	148.56	200	ePKP	04	03.20	4.9X					
WHN	38.04	356	Pc	51	42.50	1.9	WMO	57.84	335	iPc	54	11.30	-0.6	PDCR	149.31	230	ePKP	04	04.90	5.3X					
	1.2s	180.00nm			5.3mb			80.00nm	5.2mb					CNCB	155.16	168	PKP	04	11.00	2.4X					
SSE	38.64	5	Pc	51	47.50	2.0	THZ	59.48	134	eP	54	23.50	0.3	LPB	155.40	167	ePKP	04	11.00	2.3X					
BRS	38.80	125	iPd	51	49.00	1.9	IRK	60.69	351	eP	54	30.10	-0.9	ZOBO	155.65	167	PKPc	04	10.20	0.9					
	0.8s	17.00nm			4.4mb										1.1s	9.28nm									
BWA	39.05	138	eP	51	51.80	2.8X	MNG	61.00	132	eP	54	32.50	-0.8	SIV	156.52	184	PKPc	04	11.20	1.4					
							QUE	61.30	310	iPc	54	33.50	-2.2		S.D. = 1.0 on 146 of 165 obs.										
TOO	39.19	144	eP	51	52.00	1.9	URZ	61.62	129	eP	54	36.90	-0.5		? OCT 11, 1991 11h 11m 48.10± 2.61s										
NJ2	39.45	2	Pc	51	53.60	1.5	HBZ	62.39	128	eP	54	42.50	0.0		3.257 N ±11.8km 77.118 W ±35.0km										
	1.2s	390.00nm			5.6mb		MAIO	69.67	313	iPc	55	27.20	-1.2		DEPTH = 80.0km (geophysicist)										
COD	39.50	130	eP	51	53.00	0.2									NEAR WEST COAST OF COLOMBIA (102)										
	0.8s	19.00nm			4.5mb		MAW	70.03	199	iPc	55	30.60	0.7		MD 3.2 (UVC).										
CAN	39.96	138	eP	51	57.80	1.3	SMY	76.87	31	P	56	09.60	0.3	ANCC	0.36	44	eP	12	00.80	-0.2					
CD2	40.48	342	Pc	52	01.20	0.5	ADK	81.48	35	P	56	34.50	0.6	SALC	0.51	124	eP	12	02.87	0.6					
	0.6s	170.00nm			5.5mb		SPA	82.45	180	eP	56	40.00	1.1	HOOC	0.53	67	eP	12	02.59	0.0					
SHL	41.30	324	iP	52	07.70	0.1		0.6s	24.63nm					CLMC	0.83	42	eP	12	05.58	0.0					
HNR	42.05	96	eP	52	13.00	-0.7	SLR	86.01	245	iPc	56	57.00	-0.4	DIAC	0.92	88	iPc	12	06.60	0.0					
XAN	42.19	349	iPc	52	14.50	-0.1	SEK	86.30	242	eP	57	00.80	2.0	PURC	1.20	141	eP	12	10.00	-0.4					
	1.2s	73.00nm			4.8mb			0.6s	13.33nm																
SHNJ	43.47	17	eP	52	24.90	0.2	KSR	87.23	244	eP	57	04.00	0.7		S.D. = 0.4 on 6 of 6 obs.										
TIA	43.58	360	P	52	25.40	-0.2		1.0s	23.00nm																
	1.4s	70.00nm			4.7mb		DSI	87.23	302	eP	57	08.50	5.5X		* OCT 11, 1991 11h 52m 16.07± 2.58s										
TKSJ	44.25	20	eP	52	31.50	0.6	LSZ	87.33	255	iPc	57	04.00	0.2		43.070 N ±15.5km 138.928 E ±16.0km										
LSA	44.89	327	P	52	37.40	0.8									DEPTH = 148.3 ± 28.3 km										
	1.0s	90.00nm			5.0mb		PRNI	87.34	301	iPc	57	09.20	5.7X		4.5mb (10 obs.)										
WKYJ	45.00	21	eP	52	37.60	0.7	ADI	87.64	304	eP	57	10.70	5.8X		EASTERN SEA OF JAPAN (223)										
YONJ	45.16	19	iP+	52	38.90	0.8	OBNI	90.97	325	iPd	57	19.00	-0.8	MAT	6.54	185	eP	53	51.00	-0.1					
LZH	45.30	344	iPc	52	40.30	0.9		1.2s	*****nm																
	2.0s	180.00nm			5.0mb		SDN	91.69	34	P	57	23.00	-0.1	CHTO	41.41	247	P	59	50.70	1.4					
TIY	45.32	354	iPc	52	39.50	0.1		0.7s	72.67nm						IMA	42.59	34	eP	00	02.10	3.5X				
	1.0s	100.00nm			5.1mb		TTA	95.13	27	P	57	39.50	0.6		0.7s	9.40nm									

0.6s 2.20nm 4.3mb
KAF 62.10 331 eP 02 22.00 -0.7
0.4s 7.20nm 5.0mb
WR2 62.84 185 eP 02 26.80 -1.2
0.4s 2.70nm 4.5mb
NUR 63.75 330 eP 02 33.20 -0.4
0.3s 6.90nm 5.1mb
HFS 67.82 334 eP 02 58.80 -0.7
0.4s 3.80nm 4.6mb
NB2 67.90 335 P 02 59.40 -0.7
0.5s 2.90nm 4.4mb
LRM 71.17 44 eP 03 19.20 -1.3
PDCR 149.53 356 ePKP 11 46.60 2.0
e 11 52.60
S.D. = 1.2 on 16 of 17 obs.

& OCT 11, 1991 12h 51m 16.57s
58.545 N 143.586 W
DEPTH = 10.0km (geophysicist)
GULF OF ALASKA (15)
<AEIC>. ML 2.6 (AEIC).

KAIM 1.45 343 eP 51 38.41 -4.4
CYK 1.64 20 eP 51 41.07 -4.5
eS 51 59.82
MID 1.68 303 eP 51 40.22 -5.8
SNH 1.68 13 eP 51 41.61 -4.6
eS 52 01.57
WRG 1.70 27 eP 51 41.52 -4.9
eS 52 01.47
HMT 1.83 349 eP 51 43.67 -4.7
eS 52 03.66
RAGM 1.93 344 eP 51 44.89 -4.9
WAX 1.95 11 eP 51 45.08 -5.0
eS 52 07.37
YAH 2.05 26 iP 51 47.00 -4.7
SGAM 2.13 338 eP 51 48.30 -4.3
eS 52 13.27
CROM 2.23 6 eP 51 49.29 -5.0
YKU 2.24 61 eP 51 49.50 -4.6
TGL 2.25 9 eP 51 49.44 -5.1
eS 52 15.94
CVA 2.29 332 eP 51 49.45 -5.5
PCA 2.31 46 eP 51 50.37 -5.0
HIN 2.38 323 iP 51 51.96 -4.3
PNL 2.44 61 eP 51 52.39 -4.7
eS 52 20.54
BCPM 2.47 53 eP 51 53.04 -4.5
BALM 2.58 14 eP 51 54.11 -5.0
eS 52 22.49
HON 2.60 68 eP 51 54.29 -5.1
eS 52 23.58
LTI 2.65 306 eP 51 54.69 -5.4
FID 2.66 328 eP 51 55.77 -4.4
CTGM 2.68 24 eP 51 55.61 -5.1
KNIM 2.79 312 eP 51 56.70 -5.3
eS 52 27.15
GLB 2.91 358 eP 51 58.65 -5.1
VZW 2.93 331 eP 51 58.81 -5.3
GLI 2.94 324 eP 51 58.93 -5.2
VLZ 2.94 333 eP 51 58.83 -5.3
KLU 3.18 339 eP 52 02.42 -5.2
SEW 3.39 300 eP 52 05.10 -5.4
TZL 3.63 346 eP 52 09.27 -4.7
KNK 3.78 322 eP 52 11.45 -4.6
SCM 3.79 332 eP 52 13.16 -3.2
SLKM 3.91 303 eP 52 12.71 -5.3
SML 4.04 326 eP 52 14.60 -5.2
PMS 4.05 315 eP 52 15.36 -4.5
CNPM 4.07 287 eP 52 16.32 -3.9
PLRM 4.13 320 eP 52 16.51 -4.5
SPU 5.02 305 eP 52 28.17 -5.6
CUT 5.09 322 eP 52 30.05 -4.6
NCG 5.17 307 eP 52 30.92 -5.0
SKT 5.24 314 eP 52 32.12 -4.8
42 obs. associated

OCT 11, 1991 13h 15m 47.29±0.47s
42.388 N ± 4.3km 19.762 E ± 3.7km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 2.4 (TTG).

PVY 0.26 37 iPg 15 52.30 -0.5
iSg 15 57.24
TTG 0.37 277 iPg 15 55.10 0.1
iSg 16 02.50

IVA 0.49 12 iPg 15 57.38 0.1
iSg 16 05.82
ULC 0.57 222 iPg 15 58.20 -0.7
iSg 16 07.06
BDV 0.70 262 iPg 16 00.86 -0.3
iSg 16 12.96
NKY 0.71 307 iPg 16 01.08 -0.2
iSg 16 13.44
HCY 0.94 274 iPg 16 05.60 0.4
iSg 16 20.98
PLE 0.98 344 iPg 16 05.90 -0.1
iSg 16 22.54
BRY 1.03 300 iPg 16 07.50 0.6
iSg 16 24.34
SKO 1.31 108 ePn 16 12.00 0.4
iSn 16 29.00
OHR 1.49 148 iPg 16 14.40 0.2
iSg 16 32.40
Lg 16 36.20
S.D. = 0.4 on 11 of 11 obs.

& OCT 11, 1991 13h 49m 44.83s
63.291 N 151.380 W
DEPTH = 7.8km
CENTRAL ALASKA (1)
<AEIC>. ML 2.6 (AEIC).

KTH 0.33 38 iP 49 51.31 -0.4
eS 49 56.85
TRF 0.52 71 eP 49 54.97 -0.3
eS 50 02.65
HUR 0.85 111 iP 50 00.86 -0.6
eS 50 12.07
CUT 1.03 150 iP 50 04.35 0.0
eS 50 21.47
RND 1.15 83 eP 50 06.10 -0.4
eS 50 24.69
SKT 1.32 183 eP 50 08.83 -0.6
eS 50 25.55
NEA 1.64 37 eP 50 14.93 0.8
PWA 1.79 156 eP 50 16.36 0.2
SUA 1.86 171 eP 50 17.84 0.5
WRH 1.88 49 eP 50 17.78 0.3
GHO 1.90 142 eP 50 17.56 -0.4
NCG 1.93 191 eP 50 17.71 -0.7
PLRM 2.00 147 eP 50 17.78 -1.5
CGLM 2.01 189 eP 50 19.43 -0.1
CRP 2.06 190 eP 50 20.33 0.0
CCB 2.08 48 eP 50 20.11 -0.4
BGL 2.09 194 eP 50 20.93 0.2
TTA 2.14 262 eP 50 22.34 1.0
SPU 2.14 189 eP 50 21.52 0.1
CKL 2.15 192 eP 50 21.89 0.3
MDM 2.17 38 eP 50 22.41 0.6
PMS 2.22 157 eP 50 22.99 0.4
eS 50 50.83
FBA 2.26 43 eP 50 25.82 2.8
HDA 2.26 58 eP 50 23.95 0.9
KNK 2.33 143 eP 50 24.61 0.6
SCM 2.38 126 eP 50 24.49 -0.4
GLM 2.44 44 eP 50 25.30 -0.4
TOA 2.68 114 eP 50 29.48 0.4
SDG 2.78 103 eP 50 30.65 0.2
SLKM 2.85 168 eP 50 32.96 1.5
RS2 2.91 194 eP 50 35.65 3.1
RS1 2.92 194 eP 50 35.55 3.0
KLU 3.12 123 eP 50 35.14 -0.1
FID 3.44 136 eP 50 40.30 0.5
34 obs. associated

& OCT 11, 1991 14h 11m 06.79s
61.760 N 151.220 W
DEPTH = 75.1km
SOUTHERN ALASKA (2)
<AEIC>.

SKT 0.27 327 iPd 11 17.77 -0.8
eS 11 26.70
SUA 0.37 142 iPc 11 19.33 0.0
eS 11 29.73
NCG 0.57 232 iPd 11 20.38 -0.7
eS 11 31.29
CGLM 0.59 220 ePd 11 20.60 -0.6
S 11 31.68
PWA 0.65 99 iPc 11 21.70 0.0
CRP 0.67 223 iPd 11 21.50 -0.6
SPU 0.71 215 iPd 11 21.64 -0.8

BGL 0.75 229 ePd 11 22.27 -0.7
CKL 0.78 224 iPd 11 22.47 -0.8
CUT 0.79 34 iPc 11 22.60 -0.6
PMS 0.95 122 ePc 11 24.34 -0.9
PLRM 1.01 99 iPd 11 24.91 -1.0
eS 11 39.52
PMR 1.01 99 iPd 11 25.50 -0.4
NKA 1.02 180 iPc 11 27.71 1.7
GHO 1.09 88 ePd 11 26.12 -0.9
eS 11 42.02
RDT 1.32 206 iPd 11 29.33 -0.7
eS 11 48.20
SLKM 1.35 158 eP 11 29.45 -0.9
eS 11 47.54
KNK 1.37 104 iPd 11 29.50 -1.1
eS 11 47.95
SML 1.37 87 ePd 11 29.43 -1.2
eS 11 47.44
HUR 1.43 30 eP 11 30.12 -1.3
eS 11 48.01
RDN 1.46 212 iPd 11 31.22 -0.7
REF 1.46 210 iPd 11 31.52 -0.5
RS2 1.50 211 ePd 11 32.26 -0.3
eS 11 49.62
RSO 1.50 210 ePd 11 32.23 -0.3
RS1 1.50 210 ePd 11 32.29 -0.3
eS 11 51.93
RED 1.54 210 ePd 11 32.40 -0.6
NNL 1.72 181 ePc 11 36.14 0.8
TRF 1.75 14 iPd 11 34.54 -1.4
eS 11 56.31
KTH 1.81 4 ePd 11 35.19 -1.3
SCM 1.85 86 ePd 11 35.54 -1.6
SEW 1.87 152 eP 11 36.84 -0.5
INE 1.93 209 ePd 11 37.45 -0.8
INW 1.94 210 eP 11 37.67 -0.7
RND 1.98 33 eP 11 37.72 -1.2
BRLK 2.01 175 eP 11 37.90 -1.4
HOM 2.12 186 eP 11 38.23 -2.5
GLI 2.18 112 iPd 11 38.89 -2.7
KNIM 2.21 128 ePd 11 38.94 -3.1
SVW 2.21 255 iPd 11 41.00 -1.1
CNPM 2.24 180 ePc 11 41.48 -1.0
eS 12 10.58
MCK 2.24 27 eP 11 42.38 -0.1
OPT 2.33 206 eP 11 43.20 -0.6
VZW 2.35 105 eP 11 41.56 -2.5
LTI 2.38 135 eP 11 41.59 -2.8
TOA 2.41 80 iPd 11 44.30 -0.6
VLZ 2.43 103 ePd 11 42.28 -2.7
FID 2.51 112 ePd 11 42.77 -3.3
TTA 2.52 300 iPd 11 45.10 -1.3
KLU 2.55 94 iPd 11 44.32 -2.4
BWN 2.55 18 eP 11 48.67 2.0
TZL 2.76 82 ePd 11 48.30 -1.3
SDG 2.77 71 eP 11 48.47 -1.4
CVA 2.92 112 eP 11 48.41 -3.4
PAX 2.94 63 ePd 11 50.72 -1.5
MCNL 3.01 212 eP 11 52.15 -0.9
WRH 3.07 26 eP 11 51.64 -2.3
CDD 3.08 204 eP 11 53.64 -0.5
SGAM 3.18 111 eP 11 51.64 -3.8
CCB 3.28 27 eP 11 54.43 -2.5
HDA 3.29 34 eP 11 54.89 -2.1
RAGM 3.47 111 eP 11 55.91 -3.6
MDM 3.48 21 eP 11 57.31 -2.4
FBA 3.51 25 eP 11 57.80 -2.3
GLB 3.55 92 eP 11 58.00 -2.8
HMT 3.67 110 eP 11 58.20 -4.2
CROM 4.03 101 eP 12 04.80 -2.8
TGL 4.18 100 eP 12 06.29 -3.2
WAX 4.27 104 eP 12 06.87 -3.9
BALM 4.33 96 eP 12 08.34 -3.3
IMA 4.46 347 eP 12 11.10 -2.4
YAH 4.81 103 eP 12 15.43 -3.1
CTGM 4.82 95 eP 12 16.00 -2.6
72 obs. associated

OCT 11, 1991 14h 19m 59.60±1.10s
42.374 N ± 8.0km 19.338 E ± 8.7km
DEPTH = 38.4 ± 15.4 km
NORTHWESTERN BALKAN REGION (383)
ML 1.3 (TTG).

TTG 0.08 315 iPg 20 05.84 -0.1
iSg 20 11.20
BDV 0.39 257 iPg 20 08.70 -0.1

OUR	0.33	119	iPg	44	11.74	0.7
			eSg	44	17.02	
SOH	0.38	330	iPg	44	11.66	-0.2
			eSg	44	16.74	
THE	0.50	286	ePg	44	14.50	0.1
PAIG	0.57	174	iPg	44	14.89	-0.9

SRS 0.62 359 iPg 44 16.26 -0.5
 iSg 44 26.14
 LIT 0.94 245 ePg 44 22.86 0.2
 eSg 44 34.62
 GRG 1.02 297 iPg 44 24.58 0.5
 eSg 44 38.02
 S.D. = 0.7 on 7 of 7 obs.

? OCT 11, 1991 17h 04m 44.64± 1.04s
 15.956 N ± 18.2km 94.009 W ± 9.4km
 DEPTH = 33.0km (normol)
 NEAR COAST OF OAXACA, MEXICO (66)

SCX 1.53 59 iP 05 10.00 0.1
 iS 05 28.50
 TPX 1.98 122 eP 05 16.50 0.0
 (S) 05 30.00
 OXX 2.83 294 (P) 05 29.00 0.2
 (S) 06 15.00
 IISM 4.41 314 eP 05 59.00 8.0X
 PPM 5.38 306 (P) 06 05.00 -0.2
 S.D. = 0.3 on 4 of 5 obs.

% OCT 11, 1991 17h 59m 08.38± 0.67s
 40.490 N ± 5.9km 23.570 E ± 6.1km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 MD 2.3 (THE).

OUR 0.35 116 ePg 59 15.32 -0.3
 eSg 59 20.46
 SOH 0.37 334 iPg 59 15.21 -0.8
 eSg 59 20.32
 THE 0.48 287 ePg 59 16.80 -1.4
 eSg 59 23.81
 PAIG 0.57 171 iPg 59 18.46 -1.4
 iSg 59 26.14
 SRS 0.63 2 ePg 59 19.73 -1.3
 eSg 59 28.96
 LIT 0.91 245 ePg 59 25.40 -0.5
 eSg 59 37.94
 GRG 1.00 298 ePg 59 27.44 0.0
 eSg 59 41.84
 S.D. = 0.7 on 7 of 7 obs.

OCT 11, 1991 18h 43m 00.36± 0.81s
 45.831 N ± 8.5km 11.659 E ± 5.4km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 2.7 (VIE).

CTI 0.22 358 Pd 43 04.60 -0.5
 eSg 43 07.50
 SAL 0.82 255 P 43 15.50 -0.8
 eSg 43 25.80
 FVI 1.09 45 P 43 21.10 0.3
 eSg 43 37.20
 SCE 1.21 2 iPg 43 23.00 0.0
 OSS 1.36 310 ePd 43 25.10 -0.3
 WTTA 1.43 359 iPg 43 27.20 0.6
 iSg 43 46.70
 TRI 1.48 94 ePg 43 26.10 -0.9
 iSg 43 47.60
 VOY 1.57 82 ePn 43 29.10 0.7
 eSn 43 50.90
 VDL 1.66 294 ePd 43 30.10 0.3
 TMA 1.96 279 ePc 43 36.20 2.0
 ORO 2.58 267 P 43 46.80 3.8X
 eSg 44 19.90
 MMK 2.59 276 ePc 43 46.80 3.6X
 ZLA 2.79 307 ePc 43 44.60 -1.4
 KHC 3.55 21 ePn 44 06.50 9.9X
 ePg 44 10.50
 eSn 44 41.50
 eSg 44 55.50
 S.D. = 1.0 on 11 of 14 obs.

% OCT 11, 1991 19h 08m 33.93± 1.08s
 42.407 N ± 7.8km 19.807 E ± 7.6km
 DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)
 ML 1.6 (TTG).

PVY 0.23 33 iPg 08 38.68 -0.2
 iSg 08 42.56
 TTG 0.40 273 iPg 08 41.80 -0.4
 iSg 08 48.70

IVA 0.47 8 iPg 08 43.76 0.3
 iSg 08 51.14
 ULC 0.61 223 iPg 08 46.06 -0.1
 iSg 08 55.48
 NKY 0.72 304 iPg 08 48.00 -0.2
 iSg 08 59.20
 BDV 0.74 261 iPg 08 48.70 0.3
 iSg 09 00.00
 HCY 0.97 273 iPg 08 52.80 0.4
 iSg 09 07.48
 BRY 1.05 298 iPg 08 53.82 -0.1
 iSg 09 10.84
 S.D. = 0.4 on 8 of 8 obs.

OCT 11, 1991 19h 23m 31.63± 0.86s
 51.633 N ± 5.9km 16.259 E ± 7.7km
 DEPTH = 10.0km (geophysicist)
 POLAND (548)
 ML 3.8 (VIE), 3.8 (GRF).

KSP 0.79 178 iP 23 46.30 -0.7
 iS 23 55.30
 BRG 1.64 243 iPn 24 00.40 -0.2
 iPg 24 02.00
 iSg 24 21.70
 PRU 1.97 214 Pn 24 05.00 -0.4
 0.7s 53.80nm
 Pg 24 07.70
 e 24 11.30
 Sn 24 24.00
 Sg 24 30.30
 CLL 2.06 262 iPn 24 07.10 0.4
 iPg 24 10.00
 eSg 24 36.00
 NKC 2.79 241 Pn 24 17.40 0.3
 Pg 24 23.80
 Sg 24 58.40
 KRA 2.82 123 eP 24 27.30 9.8X
 iS 25 05.50
 KHC 3.04 215 Pn 24 20.70 0.1
 ePg 24 26.50
 eSn 24 53.50
 Sg 25 03.00

HOF 3.07 246 ePn 24 20.90 -0.1
 MOX 3.09 253 ePn 24 22.00 0.7
 iPg 24 30.00
 iSg 25 09.00
 WET 3.30 222 ePn 24 23.90 -0.5
 VKA 3.37 179 iPnc 24 26.90 1.5
 iPg 24 34.10
 iSn 25 08.10
 iSg 25 18.80
 ZST 3.48 171 e(Pn) 24 27.30 0.4
 e 24 39.70
 e 25 21.80
 Lg 25 32.00
 SPC 3.53 132 eP 24 33.30 5.5X
 i 24 40.80
 i 25 24.60
 GRF 3.75 241 iPnc 24 30.80 0.0
 ePg 24 44.00
 e 25 17.40
 eSg 25 28.90

SRO 4.05 160 eP 24 30.40 -4.5X
 e 24 42.80
 e 25 02.60
 e 25 13.30
 PSZ 4.40 146 ePn 25 02.50 22.5X
 BHG 4.49 211 ePn 24 56.80 15.6X
 WTTA 5.31 216 ePn 24 53.00 0.0
 i(Sg) 26 20.30

FVI 5.54 206 P 24 55.00 -1.0
 eSn 26 28.00
 HFS 8.64 351 eP 25 39.20 -0.4
 0.2s 0.20nm 4.1mb X
 S.D. = 0.7 on 15 of 20 obs.

OCT 11, 1991 20h 04m 25.80± 1.73s
 6.061 S ± 6.6km 130.336 E ± 9.4km
 DEPTH = 106.2 ± 17.0 km
 5.1mb (20 obs.)
 BANDA SEA (280)

MTN 6.79 173 eP 06 04.30 -0.1
 KUPT 7.80 238 eP 06 27.50 9.2X
 eS 07 35.00
 WSI 10.57 250 e(P) 06 56.60 0.9

WR2 14.35 165 iPd 07 41.50 -3.7X
 0.3s 101.70nm 5.5mb
 iS 10 13.50

OIS 16.99 149 iPc 08 16.50 -1.8
 0.5s 57.00nm 5.1mb
 iS 11 13.20
 ASPA 17.84 169 iPc 08 27.90 -0.9
 0.4s 180.50nm 5.7mb
 eS 11 35.50

MBL 18.13 213 iPd 08 32.20 -0.1
 0.2s 9.00nm 4.7mb
 eS 11 43.00
 WAR8 20.32 190 iPd 08 56.50 0.9
 0.3s 8.00nm 4.5mb
 eS 12 38.00

NANU 21.76 220 eP 09 11.00 1.0
 0.4s 5.00nm 4.2mb
 eS 13 10.00
 QLP 24.33 149 eP 09 36.00 1.0
 e 12 38.00

FORR 24.75 185 eP 09 38.00 -0.9
 0.3s 15.00nm 5.0mb
 COOL 26.16 198 eP 09 52.00 0.0
 MRWA 26.72 209 eP 09 57.00 -0.1
 eS 15 00.00

BAL 27.57 206 eP 10 04.40 -0.4
 STK 27.76 159 iPd 10 06.50 0.0
 0.6s 9.10nm 4.6mb
 eS 15 34.00
 KLB 28.00 203 eP 10 08.00 -0.6
 e 10 49.00

MUN 28.97 205 eP 10 18.00 0.6
 ADE 29.79 166 eP 10 24.60 -0.1
 BWA 32.81 152 eP 10 52.60 1.5
 CAN 33.81 152 eP 11 00.20 0.4
 BDT 38.66 307 eP 11 40.70 -0.1
 0.8s 33.70nm 5.2mb

WHN 39.49 338 ePc 11 49.70 2.2
 CHG 39.60 309 iPc 11 49.80 1.1
 0.8s 28.17nm 5.1mb
 XAN 44.74 334 P 12 30.20 -0.1
 0.8s 9.30nm 4.6mb

LZH 48.74 331 eP 13 01.00 -0.8
 1.0s 21.00nm 5.0mb
 SHL 48.82 312 eP 13 02.00 -0.6
 HHC 49.76 341 eP 13 10.40 0.9
 LSA 51.76 316 P 13 25.80 0.5
 0.6s 10.00nm 5.0mb

GTA 53.32 331 P 13 36.60 0.4
 1.0s 15.00nm 5.0mb
 GUN 54.59 310 Pc 13 45.08 -1.0
 0.5s 83.00nm 6.0mb

PKI 54.78 310 Pc 13 45.96 -1.5
 0.6s 26.00nm 5.4mb
 KKN 54.99 310 Pc 13 47.56 -1.2
 0.7s 65.00nm 5.7mb

DMN 55.03 310 P 13 47.84 -1.3
 0.5s 36.00nm 5.6mb
 GKN 55.59 310 Pc 13 51.84 -1.2
 0.4s 68.00nm 6.0mb

WMO 62.80 327 P 14 43.00 0.7
 0.9s 9.70nm 4.8mb
 S.D. = 1.0 on 33 of 35 obs.

OCT 11, 1991 20h 22m 16.28± 0.38s
 20.599 S ± 4.2km 178.501 W ± 6.5km
 DEPTH = 612.9 ± 4.3 km
 5.0mb (29 obs.)
 FIJI ISLANDS REGION (181)

SVA 3.79 310 ePc 23 41.60 0.0
 KRO 3.83 328 iPc 23 41.70 -0.3
 VUN 3.86 311 ePc 23 41.60 -0.5
 TVI 3.93 338 ePc 23 42.90 0.2
 MBU 4.46 323 iPc 23 46.80 0.4
 NDE 4.50 332 iPc 23 46.60 -0.1

SGE 4.52 311 eP 23 47.80 0.9
 NDF 4.76 306 eP 23 48.20 -0.3
 DZM 14.11 261 iPc 25 17.20 1.7
 WCZ 16.52 201 eP 25 42.50 3.9X
 KUZ 16.86 196 eP 25 44.50 2.7

URZ 18.01 191 eP 25 51.10 -1.4
 NOZ 18.20 189 eP 25 55.10 0.7
 RUZ 19.21 195 eP 26 03.30 -0.4
 MNG 20.60 193 eP 26 15.10 -1.3
 0.1s 6.00nm 5.1mb

11d 20h

CAW	21.16	194	eP	26	20.50	-1.0	TOA	86.35	15	eP	33	55.60	0.2		0.8s	42.00nm				
WDW	21.33	194	eP	26	22.20	-0.7	TIY	86.99	312	eP	33	59.40	0.4	ZST	149.73	339	ePKP	40	52.40	-1.1
MRW	21.36	194	eP	26	22.10	-1.1	PNT	87.00	34	eP	34	00.00	1.4					40	58.70	
THZ	22.32	197	eP	26	31.80	-0.1	XAN	87.82	308	P	34	03.50	0.7					41	07.10	
KHZ	22.76	195	P	26	34.90	-0.9		0.8s	9.30nm				4.6mb	MEM	149.84	354	iPKPd	40	59.29	5.7X
LTZ	23.44	197	P	26	40.70	-1.2	ALO	87.83	51	ePd	34	03.00	-0.1	KHC	149.94	344	PKP	40	54.00	0.1
BWZ	25.74	199	eP	27	01.70	-0.3		1.0s	7.50nm				4.4mb		1.3s	30.20nm				
LRCZ	26.39	200	eP	27	07.90	0.0	IMA	88.42	10	eP	34	04.90	-0.1					40	59.80	
MMCZ	26.40	200	eP	27	07.80	-0.2		1.0s	16.80nm				4.8mb	GRF	149.96	347	ePKP	40	54.00	0.1
CMCZ	26.49	200	eP	27	09.10	0.4	FBA	88.44	13	eP	34	03.70	-1.3					40	59.60	
TLC	26.59	200	eP	27	09.70	0.1	NVL	88.59	183	Pc	34	06.00	0.3					41	08.20	
BRS	27.06	250	iPd	27	15.00	1.2	HHC	89.09	315	eP	34	09.00	0.4					41	08.20	
	0.9s	5.50nm				4.2mb		1.1s	19.00nm				4.9mb	SNF	150.07	356	iPKPc	41	00.49	6.6X
RMQ	30.53	253	iPd	27	55.00	11.5X	LRM	89.09	40	eP	34	07.70	-1.0	DOU	150.46	356	PKP	41	00.70	6.1X
	0.8s	38.00nm					BDT	89.21	289	iPc	34	10.20	0.8					41	11.00	
CTAO	33.01	265	iPd	28	05.00	0.6		0.8s	41.50nm				5.4mb	WLF	150.76	354	iPKPd	41	01.55	6.6X
	1.0s	80.00nm				5.3mb	CHG	89.84	290	ePd	34	13.90	1.5	FUR	151.39	346	ePKP	41	02.60	6.5X
CMS	33.70	244	iPc	28	01.50	-8.5X		0.9s	31.09nm				5.2mb					41	13.90	
	0.7s	31.00nm				5.0mb	BTO	90.01	314	eP	34	13.60	0.8	BHG	151.42	344	ePKP	41	02.40	6.3X
QLP	34.58	253	iPd	28	18.20	0.9	CD2	90.45	303	eP	34	15.60	0.6					41	14.60	
	0.5s	72.00nm				5.5mb	LZH	92.46	308	Pd	34	24.90	0.6	WTTA	152.15	345	i(PKP)	40	56.90	-0.5
PMG	34.91	283	eP	28	19.50	-0.6		1.0s	26.00nm				5.2mb		0.7s	14.60nm				
	0.9s	134.45nm				5.6mb	INK	94.49	15	ePd	34	31.30	-1.3					41	04.10	
STK	37.33	244	iPd	28	41.40	1.6	GTA	96.67	309	eP	34	43.20	-0.1					41	17.20	
	0.7s	7.30nm				4.4mb		1.2s	13.00nm				5.1mb	LJU	152.46	340	ePKP	41	06.50	8.9X
		eS					YKA	96.80	25	eP	34	42.10	-1.0	VOY	152.67	341	ePKP	41	04.40	6.4X
		iScS						0.8s	1.30nm				4.3mb	VBY	152.70	339	ePKP	41	05.60	7.7X
ASPA	44.04	257	iPd	29	33.20	-0.1	QUE	120.80	294	ePKP	40	00.00	-1.9	SKO	152.84	326	iPKP	41	05.50	7.2X
	0.9s	110.20nm				5.4mb	KEV	128.48	349	ePKP	40	14.00	-1.2		S.D. = 1.1	on 107	of 139	obs.		
		i					KAF	135.12	344	ePKP	40	22.20	-5.8X							
		iPcS					OBN	136.61	331	ePKP	40	30.00	-1.1							
		eS						1.5s	35.00nm											
		iScS																		
WR2	44.10	262	iPc	29	33.00	-0.7	NUR	136.90	343	ePKP	40	30.20	-1.3							
	0.3s	48.50nm				5.5mb		0.7s	9.50nm											
		i					NB2	139.02	353	PKP	40	24.60	-10.8X							
		eS						0.7s	4.00nm											
GUA	49.44	310	P	30	13.80	-0.2	HFS	139.56	351	ePKP	40	26.70	-9.6X							
	1.0s	224.00nm				5.6mb		0.4s	3.50nm											
GUMO	49.51	310	eP	30	21.00	6.5X	MUD	143.74	353	iPKPc	40	42.30	-1.3							
WARB	50.35	253	eP	30	20.10	-0.6		0.9s	70.00nm											
COOL	54.76	246	eP	30	51.00	-1.1	COP	144.02	349	iPKPc	40	43.20	-0.9							
MBL	57.28	258	eP	31	08.40	-1.0		0.8s	62.69nm											
KLB	57.58	245	eP	31	11.00	-0.4	BSD	144.08	347	iPKPc	40	43.00	-1.3							
MUN	58.86	244	eP	31	20.00	0.1		0.9s	102.00nm											
MRWA	59.37	248	eP	31	22.50	-0.8	EKA	145.14	5	PKPc	40	46.30	0.2							
WSI	59.78	271	ePc	31	26.10	-0.1		1.0s	23.70nm											
		e					KAS	145.74	314	ePKP	40	50.00	2.4							
NANU	60.92	255	iPd	31	34.10	0.6	DMU	146.14	9	iPKPd	40	49.20	1.5							
	0.6s	42.00nm				4.9mb		1.0s	93.00nm											
SPA	69.53	180	iPc	32	27.90	1.5	DCN	146.62	10	iPKPd	40	50.50	2.0							
	1.0s	50.00nm				5.0mb		0.7s	64.00nm											
MAT	70.01	324	eP	32	28.00	-1.4	BHL	147.03	301	PKP	40	53.00	3.0X							
	0.8s	20.90nm				4.7mb	BBTK	147.12	313	ePKP	40	52.00	2.1							
ADK	72.19	1	eP	32	40.20	-1.4	HRI	147.12	300	iPKPd	40	50.50	8.4X							
	0.7s	56.80nm				5.2mb	KRA	147.17	338	ePKPd	40	52.00	2.5							
KLI	75.81	270	eP	33	01.00	-1.7														
OZH	76.08	304	Pd	33	03.50	-0.4	KSP	147.64	342	iPKP	40	53.80	3.5X							
SSE	77.39	310	eP	33	09.50	-1.3														
GZH	79.36	300	iPc	33	22.60	1.3														
RVR	79.56	48	eP	33	23.00	0.8	JVI	147.74	297	iPKPd	41	00.10	9.0X							
PLM	79.57	48	eP	33	22.00	-0.5	SPC	147.78	337	ePKP	40	53.80	3.0X							
NJ2	79.58	310	Pd	33	22.60	0.3	CLL	148.05	346	iPKP	40	50.70	-0.2							
	1.2s	55.00nm				4.9mb		1.0s	80.00nm											
SBB	79.63	47	eP	33	23.00	0.4														
ISA	79.74	46	eP	33	24.00	0.8														
MDJ	80.33	325	iPd	33	26.00	0.1	MLR	148.05	327	ePKP	40	49.00	-2.3							
	1.0s	55.00nm				5.0mb	BRG	148.24	345	ePKP	40	51.30	0.1							
CLC	80.42	46	eP	33	27.00	0.3														
GSC	80.67	47	eP	33	28.00	0.0														
GLA	80.85	50	eP	33	31.00	2.1														
KDC	81.01	14	eP	33	28.60	-0.5	LFK	148.31	304	ePKP	40	55.00	3.1X							
AIA	81.06	157	eP	33	32.20	2.8	WTS	148.39	354	iPKPd	40	56.40	5.0X							
DL2	81.48	317	eP	33	32.00	0.1		1.0s	84.00nm											
SNY	81.98	320	Pd	33	34.20	-0.1	MBH	148.53	294	iPKPd	41	02.00	9.6X							
CN2	82.09	323	eP	33	34.40	-0.4	CMP	148.67	327	ePKPd	40	57.00	4.9X							
	1.0s	40.00nm				4.9mb	PRU	148.90	344	PKPd	40	57.00	4.8X							
		pP						0.9s	24.70nm											
WHN	82.12	307	Pc	33	36.20	0.9														
TIA	83.00	313	eP	33	39.00	-0.6	PSZ	148.96	336	iPKP	40	56.50	4.0X							
TTA	85.12	10	eP	33	49.30	-0.2	MOX	148.97	347	iPKP	40	52.00	-0.3							
PMR	85.22	14	eP	33	49.20	-0.6		1.5s	52.00nm											
	1.4s	66.80nm				5.1mb	HOF	149.23	347	iPKPd	40	57.60	4.8X							
BJI	85.63	316	eP	33	52.00	-0.3	SRO	149.64	337	e(PKP)	40	58.50	5.1X							
	1.5s	40.00nm				4.9mb														
GYA	86.29	300	P	33	56.80	0.9	BUD	149.65	336	ePKP	40	59.00	5.6X							
	1.2s	12.00nm				4.5mb	ENN	149.69	354	ePKP	40	58.50	5.1X							

* OCT 11, 1991 20h 56m 55.28±1.48s
 10.338 N ± 9.6km 124.924 E ±13.1km

	0.7 s	3.90nm		4.3mb
		e	14	17.00
SNY	31.56	358 eP	11	26.40 0.5
LZH	32.16	327 eP	11	32.00 0.5
	2.0 s	39.00nm		5.0mb
Z	15 s	0.63um		4.4MsZx
		pP	11	38.50 23kmX
		sP	11	43.00
HHC	32.79	341 P	11	37.10 0.3
	1.3 s	28.00nm		5.0mb
BTO	33.09	339 eP	11	39.80 0.4
QIS	33.74	155 eP	11	44.30 -0.9
	0.7 s	13.00nm		5.0mb
ASPA	34.73	166 iPd	11	53.30 -0.4
	0.6 s	10.50nm		4.9mb
WARB	36.16	177 eP	12	06.00 0.2
GTA	36.76	327 eP	12	11.00 0.1
	1.0 s	14.00nm		4.8mb
GUN	40.74	301 P	12	43.62 -0.8
	0.9 s	61.00nm		5.3mb
PKI	41.04	301 P	12	46.00 -0.9
	0.7 s	15.00nm		4.8mb
KKN	41.21	301 P	12	48.14 0.0
DMN	41.31	300 P	12	48.46 -0.5
GKN	41.82	301 P	12	52.72 -0.3
NWAO	43.48	189 eP	13	05.00 -1.3
STK	44.72	160 iPc	13	17.00 0.6
	0.7 s	5.00nm		4.5mb
HYB	45.58	284 eP	13	23.50 0.0
BWA	49.60	154 eP	13	57.20 2.6
CAN	50.61	155 eP	14	08.20 5.9X
DZM	51.76	129 iPc	14	12.70 1.4
YAK	51.88	3 iPc	14	10.40 -1.1
MAIO	64.33	305 eP	15	42.00 2.6
TTA	76.01	28 eP	16	50.30 0.4
IMA	77.26	24 eP	16	57.50 0.6
	0.9 s	6.60nm		4.7mb
PMR	79.18	29 eP	17	07.20 0.0
	0.8 s	11.00nm		4.9mb
TOA	80.56	28 eP	17	15.90 1.1
INK	84.85	21 ePd	17	36.50 -0.1
MBC	86.09	12 eP	17	43.00 0.3
	1.0 s	4.00nm		4.6mb
YKA	94.36	24 eP	18	21.50 -0.3
	0.6 s	1.20nm		4.5mb
S.D. = 1.2 on 37 of 38 obs.				
* OCT 11, 1991 22h 48m 43.38±0.69s				
12.368 N ±18.6km 143.324 E ±15.7km				
DEPTH = 33.0km (normal)				
4.6mb (5 obs.)				
SOUTH OF MARIANA ISLANDS				(210)
GUMO	1.93	51 iPd	49 14.40	-0.1
		eS	49 36.50	
PJG	1.93	51 eP	49 14.40	-0.1
GUA	1.94	53 iP	49 14.50	-0.1
ASPA	36.98	194 eP	55 52.90	1.2
	0.4 s	3.90nm		4.6mb
INK	76.06	22 ePd	00 29.00	0.0
MBC	79.81	14 eP	00 50.50	1.0
	0.5 s	3.00nm		4.5mb
YKA	84.63	27 eP	01 15.50	0.8
	0.4 s	2.40nm		4.7mb
KAF	91.20	335 eP	01 47.00	0.8
	0.6 s	2.40nm		4.7mb
NUR	92.70	334 eP	01 54.40	1.3
NB2	97.64	339 P	02 15.60	-0.3
	0.6 s	0.80nm		4.4mb
KIC	143.20	299 PKP	08 15.20	-1.7
TIC	143.30	299 PKP	08 15.40	-1.7
LIC	143.52	299 PKP	08 16.30	-1.1
S.D. = 1.1 on 13 of 13 obs.				
% OCT 11, 1991 23h 10m 01.48±1.65s				
10.382 N ±18.0km 61.217 W ±12.6km				
DEPTH = 33.0km (normal)				
TRINIDAD				(98)
MD 2.6 (TRN).				
TBH	0.18	55 eP	10 07.90	0.0
		eS	10 12.56	
TPP	0.24	254 eP	10 09.01	0.5
		eS	10 14.37	
TRN	0.32	325 eP	10 08.30	-1.2
		eS	10 14.92	
TCE	0.61	301 eP	10 13.06	-0.6

TPR	0.91	28	eS	10	21.34	
			eP	10	17.18	-0.7
			eS	10	30.28	
GRW	1.82	346	eP	10	33.06	2.0
S.D. = 1.5 on 6 of 6 obs.						

%	OCT	12, 1991	00h	40m	40.00±	0.71s
	42.412	N ± 5.9km		19.290	E ± 5.1km	
DEPTH = 18.0 ± 14.4 km						
NORTHWESTERN BALKAN REGION						(383)
ML 1.3 (TTG).						
TTG	0.03	310	iPgc	40	43.28	0.0
			iSg	40	45.38	
BDV	0.37	250	iPgd	40	47.46	-0.3
			iSg	40	53.86	
ULC	0.45	184	iPgd	40	49.32	0.2
			iSg	40	56.04	
NKY	0.45	332	iPgc	40	49.18	-0.1
			iSg	40	56.60	
PVY	0.54	70	iPgd	40	50.62	-0.1
			iSg	40	58.94	
HCY	0.59	274	iPgd	40	51.36	-0.1
			iSg	41	00.76	
IVA	0.64	44	iPgd	40	52.44	0.0
			iSg	41	02.62	
BRY	0.74	312	iPgc	40	54.44	0.4
			iSg	41	05.70	
S.D. = 0.3 on 8 of 8 obs.						

	OCT	12, 1991	00h	48m	02.38±	0.71s
	42.403	N ± 5.8km		19.278	E ± 5.1km	
DEPTH = 18.2 ± 14.3 km						
NORTHWESTERN BALKAN REGION						(383)
ML 1.2 (TTG).						
TTG	0.03	334	iPgc	48	05.70	0.0
			iSg	48	08.34	
BDV	0.35	250	iPgc	48	10.00	0.1
			iSg	48	16.36	
ULC	0.44	183	iPgc	48	11.16	-0.2
			iSg	48	17.84	
NKY	0.46	333	iPgd	48	11.40	-0.3
			iSg	48	19.34	
PVY	0.55	69	iPgc	48	13.46	0.2
			iSg	48	21.50	
HCY	0.58	275	iPgd	48	13.86	0.2
			iSg	48	23.08	
IVA	0.65	44	iPgd	48	15.02	0.0
			iSg	48	24.64	
BRY	0.74	313	iPgd	48	16.54	0.1
			iSg	48	28.28	
S.D. = 0.2 on 8 of 8 obs.						

	OCT	12, 1991	01h	24m	28.51±	0.90s
	42.388	N ± 5.9km		19.315	E ± 5.1km	
DEPTH = 24.6 ± 13.0 km						
NORTHWESTERN BALKAN REGION						(383)
ML 1.7 (TTG).						
TTG	0.06	316	iPgc	24	32.96	0.1
			iSg	24	36.24	
BDV	0.38	254	ePg	24	36.82	0.1
			iSg	24	42.94	
ULC	0.43	187	iPgd	24	37.46	-0.1
			iSg	24	44.70	
NKY	0.48	331	iPgd	24	38.14	-0.4
			iSg	24	45.90	
PVY	0.53	67	iPgc	24	39.14	-0.1
			iSg	24	47.72	
HCY	0.61	276	iPgd	24	40.36	-0.1
			iSg	24	49.76	
IVA	0.65	41	iPgd	24	41.28	0.1
			iSg	24	51.38	
BRY	0.77	312	iPgd	24	43.34	0.1
			iSg	24	54.42	
PLE	0.94	4	iPgd	24	46.28	0.1
			iSg	25	00.46	
OHR	1.69	138	e(Pn)	25	01.40	4.5X
S.D. = 0.2 on 9 of 10 obs.						

	OCT	12, 1991	01h	37m	31.23±	0.61s
	39.532	N ± 9.9km		20.631	E ± 3.8km	
DEPTH = 11.6 ± 3.5 km						
GREECE-ALBANIA BORDER REGION						(392)
MD 3.3 (ATH). 3.1 (THE).						

IGT	0.23	270	iPg	37	37.33	1.0
			eSg	37	42.42	
KEK	0.67	286	eP	37	44.50	0.1
			eS	37	56.50	
KZN	1.17	48	eP	37	52.00	-1.0
			eS	38	09.00	
FNA	1.37	24	ePb	37	56.14	-0.1
			eSb	38	14.02	
AGG	1.41	111	iPb	37	57.66	0.9
			eSb	38	15.54	
LIT	1.54	68	iPb	37	58.74	0.2
			eSb	38	19.50	
OHR	1.58	5	iPn	38	00.70	1.5
			iSg	38	21.70	
GRG	1.96	43	ePb	38	04.77	0.0
			iSb	38	31.29	
THE	2.10	58	ePn	38	07.10	0.4
			eSn	38	32.74	
LCI	2.21	292	P	38	06.20	-2.0
			eSn	38	30.60	
KNT	2.38	46	ePn	38	10.26	-0.4
			eSn	38	39.18	
PAIG	2.38	79	iPn	38	10.58	-0.2
SOH	2.45	57	iPn	38	12.22	0.5
			eSn	38	41.94	
OUR	2.70	72	ePn	38	14.50	-0.7
			iSn	38	49.18	
SRS	2.76	54	ePn	38	15.38	-0.8
BRT	2.95	298	P	38	19.70	0.9
			eSn	38	51.30	
ROI	3.14	272	P	38	20.20	-1.3
CSI	3.36	276	P	38	26.90	2.2
SOI	3.86	249	P	38	30.90	-0.8
			eSn	39	11.60	
MGR	3.96	280	P	38	32.80	-0.2
SGO	4.21	286	P	38	35.60	-1.1
S.D. = 1.1 on 21 of 21 obs.						

* OCT 12, 1991 01h 49m 42.47± 0.87s						
19.614 N ±13.6km 120.983 E ±18.2km						
DEPTH = 33.0km (normal)						
4.6mb (5 obs.)						
PHILIPPINE ISLANDS REGION (248)						
HKC	6.90	294	eP	51	22.20	-1.8
GZH	7.91	297	eP	51	35.00	-3.2X
XAN	17.93	326	eP	53	50.60	-0.4
CD2	19.19	309	P	54	05.60	-0.8
TIY	19.51	339	iPc	54	12.10	2.0
BJI	20.77	350	eP	54	22.50	-0.6
	1.0s	10.00nm			4.2mb	
CHG	20.83	271	eP	54	27.00	3.1X
CHTO	20.83	271	P	54	26.20	2.4
LZH	22.28	321	Pd	54	38.50	0.0
	1.4s	28.00nm			4.5mb	
Z	18s	0.20um			3.6MsZ	
		sP	54	47.50		
WR2	41.45	161	eP	57	27.30	-0.6
	0.6s	14.60nm			4.9mb	
QIS	43.89	154	eP	57	47.20	-0.6
	0.3s	3.00nm			4.6mb	
ASPA	44.82	163	iPc	57	55.00	0.4
	0.6s	10.50nm			4.9mb	
		eS	04	29.50		
S.D. = 1.5 on 10 of 12 obs.						

? OCT 12, 1991 02h 25m 35.02± 6.80s						
51.200 N ±33.7km 15.641 E ±46.9km						
DEPTH = 10.0km (geophysicist)						
POLAND (548)						
BRG	1.12	254	iPg	25	56.40	0.4
			iSg	26	16.20	
PRU	1.40	210	Pg	26	01.60	1.0
	0.4s	5.40nm				
		e	26	06.20		
		Sn	26	18.20		
		Sg	26	24.60		
CLL	1.66	275	ePg	26	04.50	0.2
		eSg	26	30.00		
NKC	2.25	246	Pn	26	11.90	-0.9
		Pg	26	18.70		
		e	26	47.20		
		Sg	26	51.50		
KHC	2.46	213	ePn	26	15.00	-0.8
		Pg	26	20.50		
		Sn	26	47.20		

12d 02h

MOX 2.61 259 eSg 26 56.20
 ePg 26 24.00 6.1X
 iSg 27 03.00
 GRF 3.20 244 e(Pg) 26 40.60 14.2X
 e(Sg) 27 23.00
 S.D. = 1.2 on 5 of 7 obs.

% OCT 12, 1991 03h 09m 43.64 ± 2.32s
 37.804 N ± 10.5km 1.968 W ± 20.0km
 DEPTH = 5.0km (geophysicist)

SPAIN (377)
 mbLg 2.3 (MDD).

EHUE 0.50 271 eP 09 52.40 -1.2
 eS 10 00.00

ENIJ 0.85 193 ePg 10 00.00 -0.6
 eSg 10 11.00

EVIA 0.93 333 ePg 10 02.40 0.4
 eSg 10 15.00

ECOG 1.38 248 ePg 10 11.50 1.9
 eSg 10 30.20

EBAN 1.48 285 ePn 10 10.40 -0.6
 eSn 10 30.00

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

% OCT 12, 1991 03h 12m 06.55 ± 1.42s
 40.617 N ± 10.6km 22.920 E ± 6.9km

DEPTH = 5.0km (geophysicist)

GREECE (364)
 MD 1.7 (THE).

THE 0.04 66 iPg 12 07.82 0.0
 eSg 12 09.05

SOH 0.39 58 iPg 12 14.37 0.0
 eSg 12 21.26

GRG 0.52 311 ePg 12 17.25 0.3
 iSg 12 23.62

KNT 0.54 358 ePg 12 16.86 -0.6
 iSg 12 25.06

SRS 0.71 45 ePg 12 21.34 0.5
 eSg 12 30.14

OUR 0.86 109 ePg 12 23.34 -0.2
 eSg 12 37.29

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

% OCT 12, 1991 03h 40m 11.37 ± 0.62s
 40.594 N ± 4.6km 22.878 E ± 5.0km

DEPTH = 5.0km (geophysicist)

GREECE (364)
 MD 2.3 (THE).

THE 0.08 60 iPg 40 13.50 0.3
 eSg 40 14.70

SOH 0.43 58 iPg 40 19.78 -0.2
 eSg 40 26.30

GRG 0.51 315 ePg 40 21.30 -0.3
 eSg 40 28.74

KNT 0.57 2 iPg 40 22.58 -0.2
 eSg 40 31.14

LIT 0.57 211 ePg 40 23.42 0.5
 eSg 40 31.70

SRS 0.75 46 ePg 40 26.98 0.5
 eSg 40 37.22

OUR 0.88 107 ePg 40 28.66 -0.1
 eSg 40 40.54

PAIG 0.91 137 ePg 40 28.50 -0.7
 eSg 40 41.13

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

* OCT 12, 1991 04h 11m 41.97 ± 0.70s
 24.275 N ± 15.2km 95.421 E ± 8.6km

DEPTH = 33.0km (normal)

MYANMAR (296)

CHG 6.35 148 ePn 13 15.70 0.0
 eSg 14 57.50

KMI 6.71 81 eP 13 21.00 0.0
 pP 13 26.00

GUN 9.31 295 P 13 57.58 0.3
 PKI 9.59 292 P 14 01.46 0.3

KKN 9.77 293 P 14 03.52 0.0
 0.4s 16.00nm 5.6mb

DMN 9.86 292 P 14 05.38 0.6
 GKN 10.38 293 P 14 10.58 -1.2

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

& OCT 12, 1991 05h 00m 54.38s

60.244 N 151.069 W
 DEPTH = 58.9km
 KENAI PENINSULA, ALASKA
 <AEIC>. ML 2.8 (AEIC).

NNL 0.23 209 iPd 01 04.73 0.7

BRLK 0.49 169 iPd 01 05.74 -0.6
 eS 01 14.57

SLKM 0.50 57 iPd 01 05.97 -0.4
 eS 01 15.33

NKA 0.51 351 iPd 01 07.75 1.3

HOM 0.65 206 iPd 01 07.97 -0.1
 eS 01 18.40

CNPM 0.73 187 iPd 01 08.30 -0.7
 eS 01 19.05

RDT 0.74 297 iPd 01 08.65 -0.6
 eS 01 19.88

SEW 0.82 99 ePd 01 08.97 -1.2
 eS 01 21.73

REF 0.85 288 iPd 01 10.06 -0.7
 eS 01 21.70

XLV 0.86 203 ePd 01 09.66 -1.0
 eS 01 21.72

RED 0.87 282 iPd 01 10.10 -0.7
 iS 01 22.68

RSO 0.87 285 iPd 01 10.23 -0.7
 iS 01 22.68

RS1 0.87 285 iPd 01 10.34 -0.6
 iS 01 22.68

RS2 0.87 285 iPd 01 10.32 -0.7
 iS 01 22.68

RDN 0.88 289 ePd 01 10.29 -0.8
 eS 01 25.19

NCT 0.98 290 ePd 01 11.69 -0.6
 eS 01 25.19

INE 1.01 260 iPd 01 11.89 -1.0
 eS 01 25.89

INW 1.05 261 iPd 01 12.36 -0.9
 eS 01 26.93

SPU 1.06 333 iPd 01 12.80 -0.6
 eS 01 27.76

CKL 1.14 327 iPd 01 14.07 -0.5
 eS 01 30.37

CRP 1.16 333 iPd 01 14.48 -0.3
 eS 01 30.37

CGLM 1.16 337 iPd 01 14.43 -0.4
 eS 01 30.37

BGL 1.21 328 iPd 01 15.14 -0.4
 eS 01 30.37

SUA 1.23 7 iPd 01 15.22 -0.6
 eS 01 30.37

OPT 1.24 242 iPd 01 14.88 -0.9
 eS 01 31.21

PMS 1.25 36 iPd 01 15.54 -0.4
 eS 01 31.21

NCG 1.28 336 iPd 01 16.09 -0.4
 eS 01 31.21

AUE 1.46 234 eP 01 17.94 -0.9
 eS 01 38.26

AUL 1.48 235 eP 01 18.23 -0.8
 eS 01 38.26

AUP 1.48 234 eP 01 18.64 -0.6
 eS 01 38.26

AGU 1.49 234 eP 01 18.72 -0.6
 eS 01 38.26

AUH 1.49 235 eP 01 18.33 -1.0
 eS 01 38.26

AUW 1.50 235 ePd 01 18.71 -0.6
 eS 01 38.26

AUI 1.50 234 eP 01 18.51 -0.9
 eS 01 38.26

PWA 1.53 22 eP 01 19.54 -0.2
 eS 01 40.65

LTI 1.62 96 iPd 01 19.10 -1.9
 eS 01 40.65

PDB 1.63 255 iPd 01 20.03 -1.2
 eS 01 40.65

PLRM 1.65 34 iPd 01 20.18 -1.3
 eS 01 40.65

KNIM 1.66 85 iPd 01 19.15 -2.5
 eS 01 40.65

KNK 1.74 46 iPd 01 21.39 -1.3
 eS 01 40.65

SKT 1.76 353 ePd 01 22.50 -0.5
 eS 01 44.47

SYI 1.77 203 ePd 01 22.18 -1.0
 eS 01 44.47

GHO 1.86 33 ePd 01 23.04 -1.4
 eS 01 44.47

CDD 1.86 226 iPd 01 23.34 -1.1
 eS 01 44.47

SML 2.06 39 iPd 01 25.86 -1.3
 eS 01 44.47

GLI 2.06 70 iPd 01 24.21 -3.0
 eS 01 44.47

CUT 2.20 10 eP 01 28.66 -0.5
 eS 01 44.47

FID 2.33 75 iPd 01 27.46 -3.5
 eS 01 44.47

VZW 2.37 68 ePd 01 28.97 -2.6
 eS 01 44.47

SCM 2.42 47 eP 01 30.79 -1.5
 eS 01 44.47

VLZ 2.49 67 iPd 01 30.87 -2.4
 eS 01 44.47

KLU 2.81 61 iPd 01 35.64 -2.3
 eS 01 44.47

TOA 3.02 50 iPd 01 39.37 -1.5
 eS 01 44.47

RAGM 3.18 85 eP 01 41.67 -1.5
 eS 01 44.47

TZL 3.28 54 eP 01 42.91 -1.5
 eS 01 44.47

KTH 3.32 1 eP 01 45.07 0.0
 eS 01 44.47

RND 3.34 17 eP 01 44.56 -0.8
 eS 01 44.47

TTA 3.58 321 ePd 01 46.77 -2.0
 eS 01 44.47

GLB 3.75 68 iPd 01 47.85 -3.2
 eS 01 44.47

PAX 3.83 42 ePd 01 50.34 -1.9
 eS 01 44.47

CROM 3.96 79 eP 01 51.65 -2.5
 eS 01 44.47

BALM 4.37 76 eP 01 56.02 -3.8
 eS 01 44.47

YAH 4.64 84 ePc 02 01.72 -2.0
 63 obs. associated

OCT 12, 1991 05h 08m 36.36 ± 0.26s
 22.798 N ± 3.8km 121.536 E ± 4.7km
 DEPTH = 7.7km (3 depth phases)
 5.1mb (29 obs.) 4.8msz (1 obs.)

TAIWAN REGION (243)
 ML 4.8 (BJI).

TWG 0.43 273 iPd 08 47.30 2.3

TWF1 0.59 338 iPd 08 49.90 1.6
 eS 08 56.00

TWM1 1.03 272 iPd 08 58.60 2.6
 eS 09 11.40

TWK 1.07 296 iPd 08 57.90 1.1
 eS 09 11.40

TWD 1.28 2 ePd 09 02.10 1.9
 eS 09 18.50

TWO 1.60 337 iPd 09 07.40 2.3
 eS 09 27.10

TWC 1.83 9 eP 09 11.00 2.7
 TATO 2.17 359 P 09 14.80 1.5

TWZ 2.29 1 eP 09 17.60 2.6
 QZH 3.44 309 iPd 09 30.30 -1.0

Z 28s 13.30um
 iSn 10 06.50

BAG 6.42 188 ePd 10 16.40 2.6
 HKC 6.83 267 iPd 10 18.50 -0.8

GZH 7.56 274 iPd 10 28.40 -1.1
 Z 15s 4.14um

E 12s 3.67um
 SSE 8.27 358 P 10 35.10 -4.4X

Z 16s 4.41um
 N 10s 2.26um

E 10s 1.11um
 SSE 8.27 358 Pb 10 44.50 5.0X

Z 16s 4.40um
 N 10s 2.30um

Pg 10 57.00
 Sn 11 40.50

Sg 12 06.00
 NJ2 9.52 346 Pd 10 54.00 -2.7

1.0s 64.00nm 6.0mb
 Z 18s 2.00um 4.4mszX

N 10s 2.94um
 pP 11 06.00

WHN 10.04 322 P 11 01.00 -2.9
 0.7s 63.00nm 6.2mb X

Z 14s 6.12um 4.1msz
 N 12s 4.25um

E 12s 3.76um
 S 12 51.00

QIZ 11.55 253 eP 11 24.00 -0.7
 TIA 13.90 345 eP 11 55.00 -1.0

Z 16s 3.25um
 N 14s 2.76um

GYA 14.01 288 P 11 56.80 -0.8
 1.4s 110.00nm 5.5mb

Z 14s 2.47um 5.0msz
 N 12s 1.58um

E 12s 3.52um
 pP 12 04.00

PP 12 08.40
 XAN 15.75 318 P 12 18.80 -1.4

N 11s 2.19um
 E 14s 3.42um

PP 12 30.50
 DL2 16.06 0 eP 12 27.00 2.9X

Z 15s 1.51um
 TIY 16.80 334 eP 12 34.00 0.4

Z 14s 8.93um
 N 11s 5.35um

E 12s 3.75um
 pP 12 45.50

PP 12 08.40
 KMI 17.34 281 Pd 12 45.00 4.4X

Z 14s 3.00um
 KKM 17.43 198 ePd 12 47.00 5.3X

BJI 17.78 346 eP 12 47.50 1.7
 1.2s 20.00nm 4.1mb

Z 15s 2.22um
 N 13s 1.13um

CD2 17.79 301 P 12 46.40 0.3
 Z 12s 3.98um

N 11s 4.42um
 SNY 19.05 5 eP 13 05.60 4.2X

Z 13s 1.73um

LOE	19.35	257	eS	16	31.00		BWA	62.38	155	iPc	19	03.60	1.6	GLA	1.40	127	eP	41	45.56	-0.9
HHC	19.87	337	eP	13	06.50	1.2	BFD	62.85	161	iPd	19	03.80	-1.2				eS	42	03.14	
	1.0s		25.00nm			4.5mb		0.7s	57.00nm				5.9mb	ABL	2.70	291	e(P)	42	09.11	3.8
Z	18s		3.63um				CAN	63.39	155	eP	19	09.50	0.8	BCH	3.40	293	e(P)	42	21.30	5.0
N	13s		0.20um				CNB	63.53	155	iPc	19	10.90	1.2	TNP	4.26	349	e(P)	42	26.51	-0.9
E	11s		0.81um					0.9s	50.00nm				5.7mb	MSU	5.62	34	e(P)	42	42.61	-4.1
			sP	13	21.50		TOO	64.14	159	iPd	19	15.00	1.4				8 obs. associated			
			PP	13	31.50		OBN	68.77	322	eP	19	43.00	0.1							
MAT	19.89	43	eP	13	17.00	5.8X	Z	16s	0.40um				4.7MszX							
BTO	20.24	334	eP	13	16.00	1.1			i	19	45.00	6km								
	N	12s	5.51um						LR	20	12.00									
E	12s		4.19um				KDC	68.90	35	e(P)	19	44.10	0.5							
LZH	20.27	315	P	13	15.50	0.1	PWA	69.55	31	eP	19	47.00	-0.5							
	1.5s		74.00nm			4.8mb		0.8s	16.50nm				5.2mb							
Z	15s		2.96um			4.8MszX	FBA	69.89	27	eP	19	49.60	0.1	WRG	1.88	13	iPc	51	38.99	-5.2
E	12s		1.62um				KEV	70.38	338	eP	19	48.00	-4.4X							
			pP	13	22.50	26kmX	SOD	71.05	336	iP	19	55.20	-1.4	CYK	1.88	6	iPc	51	39.50	-4.7
			PP	13	34.00		TOA	71.18	30	eP	19	57.00	0.3							
			eS	16	51.00		KAF	72.51	331	eP	20	03.50	-1.9	KAIM	1.89	336	iPc	51	39.78	-4.5
			sS	17	02.50			0.2s	0.10nm				3.6mb X	SNH	1.97	1	iPc	51	40.60	-4.9
CN2	21.20	8	eP	13	24.80	0.2	NUR	73.74	329	eP	20	11.20	-1.3							
	1.0s		14.00nm			4.3mb	MBC	74.54	13	eP	20	16.00	-1.0	YKU	2.12	49	iPd	51	43.30	-4.3
Z	13s		4.72um			5.1MszX	VRI	77.20	314	ePc	20	31.00	-1.6	MID	2.17	306	ePc	51	44.30	-4.0
N	12s		0.87um				UPP	77.25	330	iPc	20	30.90	-1.6	YAH	2.23	15	iPc	51	44.47	-5.0
E	12s		0.58um				HFS	78.93	331	eP	20	40.10	-1.6							
			epP	13	33.50	32kmX		0.7s	9.10nm				4.9mb	HMT	2.24	342	iPc	51	44.28	-5.1
			eS	17	14.00		Z	17s	0.71um				5.1MszX	RAGM	2.36	338	iPc	51	46.12	-5.0
NST	21.40	254	eP	13	31.00	4.1X		LR	56	59.00				TGL	2.55	1	iPc	51	48.48	-5.4
CHG	21.48	264	ePd	13	29.50	1.8	NB2	79.60	332	P	20	43.60	-1.8							
	1.0s		39.00nm			4.8mb		0.7s	5.70nm				4.7mb	CROM	2.55	357	iPc	51	48.52	-5.4
			eS	17	30.00		KRA	79.92	320	eP	20	46.50	-0.8	CVA	2.76	329	iPc	51	51.09	-5.6
CHTO	21.48	264	P	13	29.10	1.4		0.7s	17.00nm				5.1mb							
			pP	13	31.10	7km	KSP	81.71	322	eP	20	56.20	-0.6	BALM	2.84	5	iPc	51	52.70	-5.4
OFUJ	23.61	42	P	13	48.20	-0.4	SKO	82.18	312	iP	20	59.00	-0.4							
GUMO	23.95	108	eP	13	57.00	4.9X	BRG	83.03	323	e(P)	21	03.00	-0.6	HIN	2.87	321	iPc	51	53.59	-4.7
GUA	24.01	109	eP	13	59.00	6.3X			iSg	37	39.00			CTGM	2.87	15	ePc	51	52.86	-5.6
	0.7s		180.82nm			5.8mb	PRU	83.10	322	eP	21	03.80	-0.2	FID	3.13	326	ePc	51	56.79	-5.2
GTA	24.80	317	eP	14	01.00	0.7	KHC	84.05	321	eP	21	14.00	5.1X	LTJ	3.14	308	iPc	51	57.04	-5.1
	1.0s		25.00nm			4.8mb		e	21	17.00	9km		GLB	3.27	352	iPc	51	58.46	-5.6	
Z	18s		2.80um			4.8Msz														
E	15s		2.63um				YKA	84.12	23	eP	21	08.10	-0.8							
			pP	14	09.40	30kmX		0.9s	2.50nm				4.4mb	KNIM	3.28	313	iPc	51	58.56	-5.6
			sP	14	12.40		MOX	84.44	323	e(P)	21	10.00	-0.8	VZW	3.40	328	eP	52	00.25	-5.7
			sS	18	31.00		WTTA	86.09	320	iPd	21	18.60	-0.8	VLZ	3.41	331	iPc	52	00.14	-5.7
LSA	28.05	291	P	14	32.00	1.1		0.7s	4.60nm				4.8mb							
GUN	32.55	286	P	15	10.52	-0.2	KIC	120.02	292	PKP	27	28.80	-1.3	GLI	3.42	323	iPc	52	00.40	-5.7
	1.0s		73.00nm			5.6mb	TOV	145.77	20	ePKP	28	18.00	-0.2	PLBC	3.61	67	Pd	52	02.50	-6.3
PKI	32.96	286	P	15	13.46	-0.8	CAR	145.88	15	ePKP	28	16.60	-1.8							
KKN	33.08	286	P	15	14.46	-0.7	SDV	146.33	22	ePKP	28	18.30	-1.0	KLU	3.62	336	iPc	52	03.63	-5.5
DMN	33.23	286	P	15	15.42	-1.1	ZOBO	168.82	56	PKP	28	47.00	0.7	HYT	3.79	44	P	52	05.50	-6.0
GKN	33.65	287	P	15	19.10	-0.9		Z	24s	0.15um				SEW	3.87	302	eP	52	06.84	-5.6
	0.8s		28.00nm			5.3mb			LR	09	28.00			TZL	4.04	343	eP	52	10.26	-4.7
WMO	34.85	315	P	15	33.00	2.8X	LPB	168.99	57	PKP	28	47.00	0.8	SIT	4.23	103	iP	52	09.60	-8.0
	1.4s		15.00nm			4.7mb	CNCB	169.25	58	PKP	28	48.00	1.5	TOA	4.23	339	iP	52	13.20	-4.5
Z	16s		1.18um			4.7MszX	SIV	172.80	20	ePKP	28	48.00	0.5	SCM	4.26	330	ePc	52	12.48	-5.6
N	12s		0.76um					S.D. = 1.3	an	86	of 100 abs.		KNK	4.26	321	ePc	52	12.83	-5.3	
			PP	16	48.00								SLKM	4.40	305	ePc	52	14.19	-5.8	
			PcP	18	02.00								BRLK	4.42	294	eP	52	16.01	-4.3	
WR2	44.29	163	eP	16	47.60	-1.0	%	OCT 12, 1991	05h	36m	49.50 ± 0.90s		SML	4.52	325	iPc	52	16.02	-5.7	
	0.5s		11.20nm			5.0mb		42.229 N ± 7.3km		12.951 E ± 7.0km		SDG	4.52	344	eP	52	16.39	-5.4		
			i	18	30.50	574kmX		DEPTH = 10.0km		(geophysicist)		CNPM	4.53	290	ePc	52	17.50	-4.3		
QIS	46.56	156	eP	17	06.20	-0.4		CENTRAL ITALY		(381)		PMS	4.54	315	eP	52	16.59	-5.4		
	0.7s		34.00nm			5.5mb	MNS	0.25	308	P	36	55.30	0.4	PLRM	4.62	320	ePc	52	17.72	-5.4
ASPA	47.72	165	iPd	17	16.30	0.5			eSg	36	59.80		PMR	4.62	320	ePc	52	18.10	-5.0	
	0.8s		12.00nm			5.0mb	AQU	0.36	69	P	36	56.10	-0.8	GHO	4.68	322	ePc	52	18.58	-5.5
WARB	48.94	174	iPc	17	25.10	-0.1			eSg	37	01.10		NNL	4.70	296	eP	52	20.97	-3.3	
	0.4s		20.00nm			5.5mb	RMP	0.46	204	P	36	58.40	-0.4	WHC	4.71	54	P	52	18.00	-6.5
CTAO	48.98	149	iPd	17	27.00	1.5			eSg	37	06.20		XLV	4.75	289	eP	52	20.65	-4.4	
	1.0s		35.00nm			5.3mb	RDP	0.50	200	P	36	59.40	-0.3	PWA	4.92	317	eP	52	22.20	-5.2
MRWA	51.99	186	eP	17	47.00	-1.4			eSg	37	07.10		PAX	4.94	346	ePc	52	21.94	-5.8	
COOL	53.38	180	eP	17	57.30	-1.4	SDI	0.83	129	P	37	06.70	1.1	SYI	5.01	279	eP	52	24.69	-3.9
QLP	53.78	155	iPc	18	02.00	0.3			eSg	37	18.90		SUA	5.13	313	eP	52	24.50	-5.9	
KLB	54.20	184	eP	18	03.50	-1.2		S.D. = 1.1	on	5	of 5 obs.		KDC	5.13	269	eP	52	26.40	-3.9	
NWAO	55.56	184	eP	18	14.00	-0.6							RDT	5.41	300	eP	52	28.31	-6.0	
RMO	55.63	150	iPd	18	26.30	11.1X							SPU	5.51	307	eP	52	29.60	-6.2	
	1.0s		49.00nm										REF	5.51	299	eP	52	30.41	-5.5	
STK	57.66	160	iPd	18	30.00	0.4							RED	5.52	298	eP	52	30.69	-5.3	
	0.6s		8.90nm			5.0mb							RSO	5.53	298	eP	52	31.33	-4.8	
BRS	58.32	147	iPc	18	35.40	1.1							RS1	5.53	298	eP	52	31.33	-4.9	
	0.9s		7.00nm			4.7mb							OPT	5.54	289	eP	52	32.07	-4.2	
CMS	58.78	156	iPd	18	38.60	1.1	PLM	0.80	227	iPc	41	35.20	-0.9	RDN	5.55	299	eP	52	30.00	-6.4
ADE	59.71	164	e(P)	18	44.00	0.0	PEC	0.83	270	iPc	41	35.63	-1.1	CGLM	5.55	308	eP	52	29.99	-6.4
COO	60.54	150	iPd	18	49.60	-0.1														

12d 05h

AUL 5.61 287 eP 52 33.68 -3.4
 NCG 5.66 308 eP 52 31.58 -6.4
 CDD 5.67 282 eP 52 34.21 -3.8
 BGL 5.69 306 eP 52 32.28 -6.1
 SKT 5.74 315 eP 52 32.25 -6.7
 PDB 6.05 290 eP 52 38.26 -5.0
 TRF 6.37 329 eP 52 42.13 -5.9
 KTH 6.63 327 eP 52 45.71 -5.9
 BWN 6.76 335 eP 52 46.80 -6.6
 LIB 6.77 122 P 52 44.00 -9.4
 CCB 6.87 342 eP 52 47.51 -7.3
 FBA 7.10 343 eP 52 50.90 -7.2
 GLM 7.12 344 eP 52 50.38 -8.1
 MDM 7.23 342 eP 52 52.28 -7.6
 SKB 7.91 124 P 53 03.00 -6.3

TTA 8.00 312 eP 53 04.40 -6.3
 IMA 9.34 332 eP 53 22.40 -7.0
 SDN 10.08 261 eP 53 35.40 -4.0
 INK 10.95 19 P 53 44.00 -7.3
 0.2s 1.20nm 4.9mb X
 YKA 14.57 61 eP 54 40.70 1.2
 0.6s 3.70nm 4.2mb
 MBC 19.96 16 eP 55 53.00 6.7
 FFC 22.61 81 eP 56 07.50 -5.9
 0.6s 5.00nm 4.2mb
 83 obs. associated

& OCT 12, 1991 05h 53m 30.00s
 36.855 N 121.618 W
 DEPTH = 8.0km
 CENTRAL CALIFORNIA (39)
 <BRK>. ML 2.6 (BRK).

SAO 0.17 123 iPd 53 33.09 -0.5
 GCC 0.35 300 iPc 53 37.13 0.0
 MHC 0.49 358 ePd 53 40.30 0.5
 0.8s 53 47.80
 ARN 0.50 8 iPc 53 40.11 0.1
 PRS 0.56 159 iPd 53 40.70 -0.6
 LLA 0.59 113 iPc 53 41.54 -0.4
 0.8s 53 50.54
 PCC 0.89 317 iPc 53 46.49 -0.7
 PRI 1.05 133 iPc 53 50.33 0.3
 ZSP 1.20 335 iPd 53 51.51 -1.0
 0.8s 54 10.71
 PHAM 1.42 136 eP 53 55.03 -1.0
 PKEM 1.45 123 eP 53 57.54 1.0
 CMB 1.53 39 eP 53 57.67 -0.1
 FRI 1.54 84 iPc 53 57.13 -0.6
 0.8s 54 17.02
 NWRM 1.89 328 eP 54 07.05 4.2
 BCH 2.08 143 eP 54 03.92 -1.8
 ORV 2.70 2 eP 54 17.30 2.8
 BONR 2.86 66 eP 54 18.56 1.5
 17 obs. associated

? OCT 12, 1991 06h 27m 58.75±3.35s
 34.544 S ±36.4km 70.709 W ±18.3km
 DEPTH = 98.6 ± 11.1 km
 CHILE-ARGENTINA BORDER REGION (127)
 MD 4.0 (SAN).

CHCH 0.61 4 iPc 28 15.60 0.1
 LNV 0.83 315 iPc 28 17.50 0.0
 TACH 0.91 348 iPc 28 18.00 -0.4
 0.8s 28 30.50
 PCH 0.94 10 iPd 28 19.00 0.3
 0.8s 28 31.00
 SAN 1.09 2 iPd 28 20.20 -0.2
 0.8s 28 34.00
 PEL 1.40 1 iPd 28 24.20 0.1
 0.8s 28 40.50
 IHA 1.70 333 iPc 28 28.00 0.1
 0.8s 28 47.70
 ZON 3.44 30 eP 28 53.70 2.3X
 SIV 20.40 28 P 32 30.00 0.0
 S.D. = 0.3 on 8 of 9 obs.

% OCT 12, 1991 07h 10m 01.61±0.88s
 40.682 N ± 6.8km 23.653 E ± 8.6km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 MD 1.8 (THE).

SOH 0.27 302 iPg 10 07.22 0.0
 iSg 10 10.85

OUR 0.43 144 ePg 10 10.24 -0.1
 eSg 10 14.64
 SRS 0.44 354 ePg 10 10.76 0.2
 iSg 10 18.50
 KNT 0.75 310 ePg 10 15.92 -0.3
 eSg 10 25.56
 LIT 1.06 237 iPg 10 21.85 0.2
 S.D. = 0.3 on 5 of 5 obs.

? OCT 12, 1991 07h 32m 07.42±3.71s
 43.104 N ±14.1km 18.047 E ±24.9km
 DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)
 ML 2.5 (TTG).

BRY 0.42 119 iPg 32 15.78 -0.2
 iSg 32 25.88
 HCY 0.74 153 iPg 32 21.16 -0.7
 iSg 32 35.04
 NKY 0.76 112 iPg 32 22.36 0.1
 iSg 32 36.64
 BDV 1.00 145 iPg 32 26.02 -0.4
 iSg 32 44.34
 PLE 1.01 77 iPg 32 25.94 -0.7
 iSg 32 43.56
 TTG 1.12 127 iPg 32 28.84 0.5
 iSg 32 48.42
 IVA 1.38 99 iPnc 32 32.72 0.0
 iSn 32 55.08
 ULC 1.45 142 iPnc 32 34.14 0.5
 iSn 32 56.70
 PVY 1.51 109 iPnc 32 35.50 0.9
 iSn 32 58.78
 S.D. = 0.6 on 9 of 9 obs.

& OCT 12, 1991 08h 33m 18.40s
 31.920 N 115.850 W
 DEPTH = 6.0km (geophysicist)
 BAJA CALIFORNIA, MEXICO (48)
 <PAS-P>. ML 3.6 (PAS).

IKP 0.76 343 iPc 33 32.40 -1.2
 eS 33 41.80
 BAR 1.03 318 iPd 33 36.90 -1.3
 eS 33 50.10
 GLA 1.42 37 eP 33 42.70 -2.1
 eS 33 59.90
 CPE 1.43 312 ePd 33 43.60 -1.2
 PLM 1.66 329 iPc 33 47.96 -0.4
 PEC 2.25 331 ePn 33 55.75 -1.1
 e(S) 34 25.28
 SSK 2.76 326 ePn 33 58.21 -6.0
 ePg 34 05.99
 eS 34 41.87
 ABL 4.06 317 eP 34 22.19 -0.4
 BCH 4.81 314 ePc 34 32.60 -0.6
 TNP 6.25 350 e(P) 34 49.35 -4.2
 MSU 7.23 24 e(P) 35 10.45 3.0
 11 obs. associated

? OCT 12, 1991 08h 48m 09.68±1.08s
 2.353 N ±30.2km 93.409 W ±41.7km
 DEPTH = 10.0km (geophysicist)
 4.4mb (4 obs.)
 GALAPAGOS ISLANDS REGION (696)

ZOBO 31.09 127 P 54 30.80 -0.4
 LR 04 36.00
 LPB 31.26 128 P 54 32.00 -0.6
 i 55 48.00
 CNCB 31.51 128 P 54 35.00 0.1
 i 55 50.00
 MEO 32.62 352 iPd 54 45.40 1.6
 ALO 34.62 341 eP 55 00.20 -1.2
 1.0s 3.25nm 4.2mb
 e 56 16.00
 ANMO 34.63 341 P 55 01.00 -0.4
 1.0s 5.00nm 4.4mb
 SIV 36.79 121 P 55 20.00 0.2
 i 56 36.40
 GOL 38.73 345 P 55 36.70 0.6
 1.0s 10.00nm 4.5mb
 e 55 44.50
 LRM 46.40 342 eP 56 36.30 -2.1
 PNT 51.87 338 eP 57 21.00 0.7
 0.7s 8.00nm 4.8mb
 MBC 75.25 354 eP 59 54.00 0.0

GKN 149.76 3 PKP 07 57.88 0.4
 GUN 149.90 1 PKP 07 59.32 1.4
 KKN 150.01 2 PKP 07 57.78 -0.1
 DMN 150.18 3 PKP 07 58.94 0.7
 PKI 150.23 2 PKP 07 57.80 -0.6
 S.D. = 1.0 on 16 of 16 obs.

? OCT 12, 1991 09h 52m 36.39±3.01s
 2.719 S ±15.4km 152.883 E ±17.2km
 DEPTH = 42.5 ± 25.6 km
 4.0mb (4 obs.)
 NEW IRELAND REGION, P.N.G. (190)

RAB 1.63 206 eP 53 03.00 0.0
 iS 53 29.00
 OIS 21.95 215 eP 57 31.20 2.9X
 0.8s 5.00nm 4.0mb
 DZM 23.32 147 iPc 57 43.10 1.4
 WR2 24.90 225 iPd 57 56.90 -0.2
 0.5s 15.10nm 4.8mb
 ASPA 27.76 220 iPd 58 22.70 -0.7
 1.2s 4.90nm 4.0mb
 STK 30.90 199 eP 58 50.50 -0.8
 0.8s 1.50nm 3.8mb
 GUN 71.13 301 P 03 53.90 0.5
 PKI 71.46 300 P 03 55.34 0.0
 KKN 71.62 300 P 03 57.00 0.8
 DMN 71.73 300 P 03 57.38 0.5
 GKN 72.22 300 P 04 00.26 0.6
 FBA 79.94 22 P 04 40.40 -1.8
 S.D. = 1.1 on 11 of 12 obs.

% OCT 12, 1991 10h 57m 11.72±0.82s
 37.008 N ± 7.7km 5.391 W ± 7.7km
 DEPTH = 10.0km (geophysicist)
 SPAIN (377)
 mbLg 2.8 (MDD).

EPRU 0.13 108 iP 57 14.00 -1.0
 EJIF 0.56 186 ePg 57 23.00 -0.1
 eSg 57 31.00
 EHOR 0.82 8 ePg 57 28.00 0.4
 eSg 57 39.50
 EVAL 1.22 298 ePg 57 34.50 0.0
 eSg 57 52.30
 EGUA 1.47 96 ePg 57 40.10 1.8
 eSg 58 00.00
 ECOG 1.48 79 ePn 57 38.30 -0.2
 eSn 57 58.00
 EBAN 1.72 47 ePn 57 41.00 -0.9
 eSn 58 03.40
 S.D. = 1.1 on 7 of 7 obs.

& OCT 12, 1991 11h 50m 53.10s
 33.900 N 116.160 W
 DEPTH = 4.0km
 SOUTHERN CALIFORNIA (43)
 <PAS-P>. ML 3.5 (PAS).

HAY 0.47 114 iPd 51 02.20 -0.4
 PLM 0.80 227 iPc 51 08.22 -0.9
 eS 51 18.11
 PEC 0.83 270 iPc 51 08.61 -1.1
 eS 51 19.10
 IKP 1.25 178 iPc 51 14.90 -2.0
 CPE 1.29 218 eP 51 15.90 -1.6
 BAR 1.29 200 ePd 51 16.00 -1.6
 SSK 1.31 284 iPd 51 17.33 -0.7
 eS 51 35.11
 GLA 1.40 127 ePn 51 17.49 -2.0
 eS 51 36.79
 SBB 1.59 300 eP 51 21.00 -1.1
 ABL 2.70 291 e(P) 51 37.93 -0.4
 eS 52 17.44
 BCH 3.48 293 eP 51 53.50 4.2
 TNP 4.26 349 ePn 51 58.12 -2.3
 BONR 4.40 337 e(P) 52 00.56 -2.0
 MSU 5.62 34 eP 52 26.17 6.5
 14 obs. associated

& OCT 12, 1991 12h 03m 04.60s
 31.580 N 115.620 W
 DEPTH = 6.0km (geophysicist)
 BAJA CALIFORNIA, MEXICO (48)
 <PAS-P>. ML 3.4 (PAS).

IKP 1.14 339 iPc 03 26.00 -0.4

BAR 1.41 321 eS 03 39.80
 03 29.80 -1.1
 IS 03 47.50
 GLA 1.61 24 eP 03 31.56 -2.2
 PLM 2.06 330 ePn 03 39.64 -0.6
 eS 04 05.99
 4 obs. associated

OCT 12, 1991 12h 23m 47.23±1.11s
 37.791 N ± 8.3km 101.176 E ± 7.5km
 DEPTH = 36.2 ± 14.5 km
 4.3mb (3 obs.)
 QINGHAI, CHINA (325)

GTA 1.94 327 Pg 24 19.00 0.5
 Z 14s 1.46um

LZH 2.73 128 ePn 24 32.40 2.5X
 Pg 24 35.00
 Sn 25 10.00
 Sg 25 13.00

XAN 7.31 118 ePn 25 32.20 -2.2
 N 11s 1.42um
 E 12s 1.07um

BTO 7.42 65 Pn 25 36.80 0.9
 TIY 8.92 87 P 25 56.00 -0.8
 WMO 11.85 305 P 26 36.30 -0.5
 Z 14s 0.59um

BJI 11.90 74 eP 26 38.00 0.6
 GYA 12.21 156 P 26 42.60 0.8
 CHTO 19.01 187 (P) 28 09.60 0.9
 CN2 19.30 64 eP 28 12.80 0.9
 0.8s 10.00nm 4.1mb
 Z 13s 0.47um 4.8MszX

NUR 51.57 322 eP 32 52.00 0.5
 UPF 55.13 322 iP 33 17.80 -0.1
 HFS 56.93 323 eP 33 30.10 -0.7
 0.5s 1.80nm 4.4mb
 Z 16s 0.05um 3.7MszX

NR2 57.77 325 P 33 36.00 -0.8
 0.6s 1.80nm 4.3mb
 S.D. = 1.1 on 13 of 14 obs.

* OCT 12, 1991 13h 07m 28.82±1.18s
 5.261 S ± 8.0km 151.956 E ± 13.4km
 DEPTH = 66.6 ± 11.7 km
 4.0mb (8 obs.)
 NEW BRITAIN REGION, P.N.G. (192)

RAB 1.08 11 iPd- 07 48.10 -0.4
 IS 08 12.80

CTAO 15.75 200 iP 11 10.00 2.0
 1.0s 12.50nm 4.0mb

OIS 19.37 217 eP 11 44.70 -7.4X
 0.5s 3.00nm 3.8mb

RMO 21.33 188 eP 12 19.00 6.7X
 DZM 21.81 141 iPc 12 18.00 0.8

WR2 22.50 228 iPd 12 23.10 -0.8
 1.1s 5.40nm 3.9mb

ASPA 25.25 222 iPc 12 49.70 -0.7
 0.6s 10.70nm 4.5mb

STK 28.21 199 eP 13 15.00 -2.3
 1.7s 1.10nm 3.2mb

CHTO 57.43 296 (P) 17 13.80 0.4
 1.0s 4.50nm 4.5mb

GUN 71.64 302 P 18 46.60 0.5
 PKI 71.95 301 P 18 48.20 0.3

KKN 72.12 301 P 18 48.80 0.0
 DMN 72.22 301 P 18 50.00 0.6

GKN 72.72 301 P 18 52.60 0.3
 PMR 80.45 25 P 19 34.10 -0.4

FBA 82.62 22 P 19 45.80 -0.1
 1.0s 2.00nm 4.0mb

INK 89.18 21 eP 20 18.00 -0.1
 S.D. = 1.1 on 15 of 17 obs.

OCT 12, 1991 13h 52m 12.52±0.83s
 21.681 N ± 7.6km 119.700 E ± 8.8km
 DEPTH = 32.6 ± 6.5 km
 4.2mb (3 obs.)
 TAIWAN REGION (243)

TWG 1.70 48 iPc 52 40.30 -0.1

TWK 1.74 25 eS 53 01.80
 TWF1 2.22 41 ePc 52 40.70 -0.2
 TWO 2.79 22 ePd 52 56.00 0.2

TWD 2.96 36 ePc 52 58.00 -0.3
 TWC 3.52 34 ePc 53 06.60 0.3

TWZ 3.81 27 eP 53 09.80 -0.6
 HKC 5.17 278 eP 53 29.70 0.1

WR2 43.79 160 eP 00 16.30 -0.8
 0.7s 2.80nm 4.2mb

ASPA 47.15 162 iPd 00 43.50 -0.3
 0.5s 3.20nm 4.6mb

STK 57.24 158 iPc 02 00.20 1.1
 1.1s 1.40nm 3.9mb
 S.D. = 0.6 on 11 of 11 obs.

& OCT 12, 1991 14h 39m 32.00s
 33.890 N 116.160 W
 DEPTH = 3.0km

SOUTHERN CALIFORNIA (43)
 <PAS-P>. ML 4.0 (PAS). Felt (IV)
 at Palm Springs. Also felt at
 Indio and Palm Desert.

HAY 0.47 112 iPd 39 41.10 -0.3
 PLM 0.79 228 iPd 39 47.10 -0.8

PEC 0.83 270 iPc 39 47.49 -1.1
 RVR 1.02 276 iPc 39 50.60 -1.3

IKP 1.24 178 iPc 39 53.80 -1.9
 CPE 1.28 218 eP 39 54.70 -1.6

BAR 1.28 200 iPd 39 54.80 -1.6
 SSK 1.31 285 eP 39 55.95 -1.1

GLA 1.39 126 eP 39 56.00 -2.3
 GSC 1.51 339 ePc 39 58.70 -1.3

SBB 1.59 300 eP 39 59.80 -1.4
 MWC 1.61 282 ePc 40 01.10 -0.5

PAS 1.69 279 eP 40 02.10 -0.5
 ABL 2.71 292 eP 40 15.97 -1.5

BCH 3.49 293 eP 40 26.40 -2.0
 PKEM 3.90 305 e(P) 40 41.55 7.4

TNP 4.27 349 eP 40 38.06 -1.5
 BONR 4.41 337 eP 40 40.39 -1.3

CMB 5.37 322 eP 40 54.72 -0.3
 ALO 8.09 80 e(P) 41 30.00 -3.4
 20 obs. associated

& OCT 12, 1991 14h 44m 46.70s
 33.890 N 116.170 W
 DEPTH = 4.0km

SOUTHERN CALIFORNIA (43)
 <PAS-P>. ML 3.6 (PAS).

HAY 0.48 112 iPd 44 55.80 -0.5
 PLM 0.79 227 iPc 45 01.69 -0.8

PEC 0.82 270 iPc 45 02.20 -0.9
 IKP 1.24 178 iPc 45 08.40 -1.9

CPE 1.27 218 eP 45 09.40 -1.5
 BAR 1.28 199 iPd 45 09.40 -1.6

SSK 1.30 285 eP 45 10.70 -0.8
 GLA 1.40 126 eP 45 11.12 -1.9

SBB 1.58 301 eP 45 14.60 -1.1
 MWC 1.60 283 eP 45 15.80 -0.2

ABL 2.70 292 eP 45 30.00 -1.9
 BCH 3.48 293 eP 45 41.73 -1.1

TNP 4.27 349 eP 45 52.63 -1.5
 BONR 4.41 338 eP 45 55.43 -0.8

CMB 5.37 322 e(P) 46 11.00 1.4
 ALO 8.09 80 e(P) 46 47.00 -1.1
 16 obs. associated

& OCT 12, 1991 14h 57m 49.90s
 33.890 N 116.160 W
 DEPTH = 3.0km

SOUTHERN CALIFORNIA (43)
 <PAS-P>. ML 3.3 (PAS).

HAY 0.47 112 iPd 57 59.00 -0.3
 PLM 0.79 228 iPd 58 05.10 -0.7

PEC 0.83 270 iPc 58 05.60 -0.9
 IKP 1.24 178 iPc 58 11.70 -1.9

CPE 1.28 218 iPc 58 12.80 -1.4
 BAR 1.28 200 eP 58 12.70 -1.6

SSK 1.31 285 eP 58 14.20 -0.8
 GLA 1.39 126 eP 58 15.50 -0.7

ABL 2.71 292 e(P) 58 35.00 -0.3
 BCH 3.49 293 e(P) 58 54.90 8.6
 10 obs. associated

* OCT 12, 1991 15h 00m 48.46±1.30s
 33.809 N ± 17.2km 116.130 W ± 10.3km
 DEPTH = 5.0km (geophysicist)

SOUTHERN CALIFORNIA (43)
 ML 2.4 (GS).

PLM 0.76 234 iPc 01 04.20 0.3
 PEC 0.86 276 iPc 01 04.80 -0.7

GLA 1.33 124 eP 01 13.35 -0.1
 SSK 1.36 288 eP 01 13.30 -0.9

ABL 2.76 293 e(P) 01 35.80 1.4
 S.D. = 1.3 on 5 of 5 obs.

& OCT 12, 1991 15h 21m 35.10s
 33.890 N 116.160 W
 DEPTH = 4.0km

SOUTHERN CALIFORNIA (43)
 <PAS-P>. ML 3.3 (PAS).

HAY 0.47 112 eP 21 44.20 -0.3
 PLM 0.79 228 iPc 21 50.17 -0.8

PEC 0.83 270 iPc 21 50.63 -1.1
 eS 22 00.54

CPE 1.28 218 eP 21 58.10 -1.2
 SSK 1.31 285 eP 21 59.38 -0.7

GLA 1.39 126 eP 22 00.50 -0.9
 eS 22 18.68

SBB 1.59 300 iPc 22 04.30 0.1
 ABL 2.71 292 e(P) 22 24.30 3.9

BCH 3.49 293 eP 22 34.00 2.6
 TNP 4.27 349 eP 22 51.26 8.7

BONR 4.41 337 e(P) 22 42.04 -2.6
 MSU 5.63 34 e(P) 23 06.77 4.9
 12 obs. associated

? OCT 12, 1991 15h 24m 51.32±0.94s
 39.794 N ± 11.4km 113.876 E ± 9.1km
 DEPTH = 10.0km (geophysicist)

NORTHEASTERN CHINA (658)
 ML 3.5 (BJI).

BJI 1.78 81 ePn 25 22.50 0.1
 Pg 25 23.50

Sn 25 46.00
 Sg 25 47.50

HHC 2.06 302 Pg 25 26.40 -0.1
 Sg 25 53.00

TIY 2.36 209 Pnc 25 31.00 0.2
 Pg 25 33.60

Sg 26 05.00
 BTO 3.06 286 Pg 25 43.90 3.2X

Sg 26 21.60
 TIA 4.40 143 ePn 25 59.50 -0.2

Pg 26 14.40
 Sn 26 53.20

Sg 27 09.30
 LZH 8.75 248 ePg 27 28.50 27.6X

Sg 29 23.50
 S.D. = 0.3 on 4 of 6 obs.

% OCT 12, 1991 15h 54m 14.19±0.56s
 44.574 N ± 4.3km 7.232 E ± 6.9km
 DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)
 ML 1.5 (GEN).

PZZ 0.12 234 P 54 17.42 0.2
 S 54 19.41

BHB 0.27 5 P 54 19.93 0.1
 S 54 23.31

STV 0.34 169 P 54 21.31 0.1
 S 54 25.57

ENR 0.37 159 P 54 21.67 -0.2
 S 54 26.49

RRL 0.47 317 P 54 23.61 -0.2
 S 54 29.97

ROB 0.54 121 P 54 25.05 0.0
 S 54 32.10

RSP 0.58 2 P 54 26.08 0.1
 S 54 33.56
 S.D. = 0.2 on 7 of 7 obs.

12d 16h

? OCT 12, 1991 16h 22m 28.57± 4.33s
 35.844 N ±30.1km 22.384 E ±36.3km
 DEPTH = 55.8 ± 33.1 km
 4.4mb (1 obs.)
 CENTRAL MEDITERRANEAN SEA (400)

VLI 0.98 27 eP 22 47.00 0.7
 ATH 2.38 26 eP 23 07.50 1.7
 NPS 2.70 101 eP 23 10.00 -0.4
 AGG 3.17 359 eP 23 18.88 1.7
 PAIG 4.20 14 eP 23 31.04 -0.6
 LIT 4.25 1 eP 23 32.64 0.3
 FNA 5.00 351 iP 23 42.98 0.1
 SOH 5.03 8 eP 23 42.64 -0.7
 GRG 5.11 0 iP 23 43.48 -0.9
 KNT 5.33 4 iP 23 46.24 -1.2
 SRS 5.35 10 iP 23 46.32 -1.5
 APO 25.30 350 eP 27 51.90 0.7
 0.1s 1.30nm 4.4mb
 S.D. = 1.2 on 12 of 12 obs.

OCT 12, 1991 16h 26m 24.86± 0.11s
 13.742 S ± 2.9km 166.673 E ± 3.5km
 DEPTH = 43.8km (geophysicist)
 5.9mb (72 obs.) 6.1MsZ (33 obs.)
 VANUATU ISLANDS (186)

Ms 5.9 (BRK). Mo=2.0*10**18 Nm
 (PPT). Depth from broadband
 displacement seismograms.
 FAULT PLANE SOLUTION: P-Waves
 NP1: Strike=185 Dip=54 Slip= 100
 NP2: 348 37 77
 Principal Axes:
 T P1g=78 Azm=132
 P 8 268

Comment: The focal mechanism is
 poorly controlled and
 corresponds to reverse
 faulting with a small strike-
 slip component. The preferred
 fault plane is NP2.

RADIATED ENERGY
 No. of sto: 13 Focal mech. M
 Energy 2.5±0.6*10**13 Nm

MOMENT TENSOR SOLUTION
 Dep 41 No. of sto: 19
 Moment Tensor: Scale 10**18 Nm
 Mrr= 2.66 Mtt=-0.17
 Mff=-2.49 Mrt=-0.24
 Mrf=-0.94 Mtf= 0.73

Principal axes:
 T Vol= 2.87 P1g=77 Azm=123
 N -0.04 9 347
 P -2.83 9 255

Best Double Couple: Mo=2.8*10**18
 NP1: Strike=334 Dip=37 Slip= 74
 NP2: 174 55 102

CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 27S, 73C M.W.: 16S, 26C

Centroid Location:
 Origin Time 16:26:30.4 0.1
 Lat 13.745 0.02 Lon 166.36E 0.01
 Dep 34.9 0.8 Half-duration 4.9
 Moment Tensor: Scale 10**18 Nm
 Mrr= 2.09 0.02 Mtt=-0.20 0.04
 Mff=-1.89 0.04 Mrt= 0.19 0.05
 Mrf=-0.79 0.05 Mtf= 0.81 0.02

Principal Axes:
 T Vol= 2.24 P1g=79 Azm= 86
 N 0.12 3 339
 P -2.36 10 249

Best Double Couple: Mo=2.3*10**18
 NP1: Strike=335 Dip=35 Slip= 85
 NP2: 161 55 94

BKM 4.19 159 iPd 27 32.50 4.6X
 iS 28 24.50
 PVC 4.28 159 iPd 27 34.00 4.8X
 iS 28 28.00

HNR 7.86 302 eP 28 18.00 -1.5
 e(S) 28 34.00
 DZM 8.29 181 iPc 28 25.60 0.1
 iS 29 49.80

NDF 11.12 112 eP 29 09.10 4.9X
 RAB 17.17 302 iP- 30 24.00 0.7
 iS 33 48.00

BRS 18.78 222 iPc 30 44.60 1.4
 1.0s 54.00nm 4.7mb X
 i 30 58.50
 i 31 23.00
 i(S) 34 12.00
 iScP 38 44.00

PMG 19.60 281 eP 30 52.50 0.0
 CTAO 20.52 249 iPd 31 03.25 1.1
 0.8s 387.51nm 5.8mb
 i 31 17.00 62kmX
 i 34 18.00

iS 34 51.00
 i 35 27.11
 i(ScP) 38 48.00

LAT 20.59 288 eP 31 03.20 0.3
 AFI 20.93 93 iPc 31 07.45 1.0
 eS 34 57.50

RMO 21.03 230 iPd 31 20.00 12.6X
 e 38 58.00
 COO 21.59 217 iPd 31 16.40 3.4X
 0.6s 164.00nm 5.6mb

i 31 38.00 104kmX
 i 35 14.90
 e 38 46.00
 e 43 00.00

WCZ 23.16 164 eP 31 31.00 2.7X
 MNDI 23.87 286 eP 31 39.00 3.3X
 RIV 24.46 213 iPc 31 43.80 2.8X
 0.9s *****nm 7.8mb X
 Z 20s 28.16um 5.8MsZ

i 31 59.60 68kmX
 eS 36 00.00
 QLP 24.58 235 iPc 31 44.00 1.7
 0.8s 860.00nm 6.3mb

i 31 59.40 66kmX
 HBZ 25.92 159 P 31 54.60 -0.1
 CMS 26.03 224 iPc 31 57.20 1.3
 i 32 24.00 127kmX
 i 35 24.00
 i 39 02.50

URZ 26.12 161 eP 31 56.10 -0.4
 e 35 32.20
 BWA 26.40 216 eP 31 59.30 0.0
 iPcP 35 24.50

RUZ 26.42 165 eP 32 00.20 0.9
 CNB 26.55 213 iPd 32 02.20 1.6
 1.0s 260.00nm 5.8mb
 i 35 24.90
 i 39 04.00

QIS 26.71 252 eP 32 01.70 -0.5
 0.6s 68.00nm 5.4mb
 iPP 32 19.60 149kmX
 i 32 32.80
 iPcP 35 25.00
 eScP 38 58.70

NOZ 26.74 160 eP 32 02.50 0.2
 CAN 26.75 213 eP 32 03.80 1.4
 ePcP 35 25.80

MNG 27.86 166 eP 32 11.10 -1.4
 eS 36 52.60
 PGZ 28.06 164 eP 32 12.90 -1.3
 TCW 28.16 168 P 32 15.10 0.0

CAW 28.23 167 eP 32 15.40 -0.4
 MRW 28.27 167 eP 32 14.70 -1.4
 WEL 28.34 167 P 32 15.60 -1.1
 Z 19s 72.22um 6.3MsZ
 N 19s 63.89um
 E 21s 28.67um

eS 37 16.00
 e 37 44.00
 WDW 28.37 167 P 32 15.80 -1.2
 MTW 28.38 166 eP 32 15.10 -2.0

THZ 28.44 170 P 32 17.50 -0.2
 MOW 28.57 166 P 32 17.10 -1.7
 BLW 28.57 166 eP 32 17.30 -1.5
 AMW 28.59 166 P 32 19.30 0.4

KHZ 29.18 170 P 32 22.80 -1.5
 STK 29.21 228 iPc 32 26.90 2.2
 0.8s 70.20nm 5.4mb
 iP 32 43.40 69kmX
 iPcP 35 31.90

LTZ 29.34 172 P 32 25.10 -0.7
 WVZ 29.44 174 P 32 27.70 1.1
 EWZ 29.88 174 P 32 30.60 0.1

MQZ 30.30 171 P 32 33.40 -0.8
 TOO 30.31 215 iPc 32 36.00 1.5
 0.7s 99.00nm 5.7mb

i 35 34.30
 i 43 05.00
 BWZ 30.81 176 P 32 37.40 -1.2
 MSZ 30.84 178 P 32 39.50 0.6
 MHZ 31.29 176 P 32 43.20 0.1
 LSCZ 31.35 176 P 32 43.20 -0.4
 ODZ 31.38 175 eP 32 42.70 -1.0
 TLC 31.41 177 P 32 44.40 0.2
 WR2 31.50 254 iPd 32 43.70 -1.4
 0.6s 64.50nm 5.6mb
 i 32 56.90 52kmX
 iPcP 35 37.10
 eScP 39 17.80
 BFD 31.75 218 iPc 32 46.50 -0.5
 1.0s 446.00nm 6.2mb
 i 33 05.00 79kmX

TUZ 32.21 176 P 32 51.20 0.3
 ASPA 32.50 247 iPc 32 52.60 -1.2
 0.6s 164.20nm 6.1mb
 Z 22s 50.50um 6.2MsZ X
 e 33 05.50 50kmX
 RAR 32.81 108 P 32 56.00 -0.4
 S 37 16.00
 ADE 32.91 225 iPc 32 58.20 1.0
 1.1s 911.39nm 6.5mb
 TAU 33.51 206 iPc 33 03.80 1.5
 eS 39 08.00

MTN 34.58 267 eP 33 12.30 0.4
 0.7s 220.00nm 6.2mb
 GUA 34.63 321 eP 33 12.40 0.2
 0.7s 93.15nm 5.8mb
 GUMO 34.70 321 ePc 33 12.42 -0.4
 eS 38 38.92

KNA 36.68 262 eP 33 28.90 -0.7
 0.7s 217.00nm 6.2mb
 WARB 39.45 245 iPc 33 53.00 0.2
 MCQ 41.11 187 iPc 34 09.00 3.0X
 1.1s 103.80nm 5.5mb
 TNE 41.56 287 eP 34 12.00 1.8
 KUPT 42.25 270 e(P) 34 23.00 7.1X
 TBI 42.53 110 eP 34 26.00 7.9X
 1.2s 125.00nm 5.5mb
 TVD 42.54 101 iP 34 20.40 2.1
 0.8s 200.00nm 5.9mb

PMO 43.97 97 iP 34 32.30 2.5
 0.8s 165.00nm 5.8mb
 VAH 44.21 98 iP 34 33.90 2.1
 0.8s 125.00nm 5.7mb
 TPT 44.24 97 iP 34 34.40 2.4
 0.8s 70.00nm 5.5mb
 RUV 44.45 98 iP 34 35.90 2.2
 0.8s 100.00nm 5.7mb
 COOL 45.10 240 eP 34 38.00 -0.9
 0.5s 28.00nm 5.4mb

MBL 45.16 254 eP 34 40.00 0.6
 e 34 53.00 48kmX
 DAV 45.75 294 eP 34 41.20 -2.9
 MKS 47.25 276 ePd 35 03.00 7.0X
 e 37 44.00
 KLB 48.08 240 eP 35 01.00 -1.3
 0.7s 109.00nm 6.0mb
 e 35 14.00 48kmX
 NWAD 48.77 238 iPc 35 07.30 -0.3
 0.7s 148.00nm 6.1mb
 e 35 20.00 46kmX
 eS 42 12.00

BAL 48.81 241 eP 35 07.00 -1.0
 MRWA 49.24 243 iPc 35 11.00 -0.3
 0.5s 40.00nm 5.7mb
 i 35 21.30 35kmX
 MUN 49.45 240 eP 35 12.40 -0.5
 0.8s 301.00nm 6.4mb
 Z 20s 25.40um 6.2MsZ
 KHKI 50.33 270 ePd 35 20.30 0.5
 e 39 50.00
 TSM 51.63 287 ePc 35 30.40 0.8
 TRT 53.34 271 ePc 35 44.00 1.5
 0.7s 99.30nm 5.9mb
 KKM 53.80 288 ePc 35 46.60 0.7
 1.0s 387.80nm 6.4mb
 BAG 54.51 302 ePc+ 35 50.40 -0.8
 1.0s 544.00nm 6.5mb
 e 43 24.00

KAKJ 55.63 334 iP+ 35 58.60 -0.1
 DRV 55.77 192 iPd 36 00.00 0.6
 S 43 48.00
 RKT 55.84 109 eP 36 18.00 17.5X

MAJO	0.8s	25.00nm				TIA	68.22	318	Pc	37	23.10	-0.1	SPA	76.35	180	iPc	38	10.80	-0.3	
	56.77	333	ePc	36	06.20		0.9s	110.00nm				5.9mb		1.0s	260.00nm				6.2mb	
			eS	43	54.13							5.6MszX		Z	20s	6.76um			6.0Msz	
MAT	56.77	333	iPc	36	06.20	-0.8	Z	26s	4.90um							i	40	36.80	737kmX	
	0.8s	201.49nm				6.2mb	N	17s	2.40um							iPc	38	11.90	0.8	
			eS	43	54.00		E	17s	2.25um										1.8	
TATO	58.50	311	iPc	36	18.53	-0.7			pP	37	35.00	40kmX	SPA	76.35	180	iPc	38	11.90	0.8	
			ipPd	36	30.36	41kmX			PcP	37	53.00		LZH	77.23	312	iPc	38	18.27	1.8	
HOOJ	59.85	340	eP	36	28.60	0.3			S	46	16.00			2.0s	950.00nm				6.5mb	
KUSJ	60.04	342	P	36	28.70	-0.9	CN2	68.51	329	iPc	37	25.00	0.2	Z	26s	5.68um			5.8MszX	
OZH	60.64	309	Pc	36	34.00	0.0		0.8s	260.00nm			6.3mb		E	20s	22.98um			40kmX	
	0.5s	47.00nm				5.9mb	Z	26s	15.00um			6.1MszX				ipPd	38	30.27	40kmX	
	Z	28s	7.06um			5.7MszX	N	20s	2.87um							PP	41	06.00		
			S	44	48.00		E	20s	3.09um							iS	48	06.42		
			sS	45	06.00				S	46	24.00					esS	48	23.41		
MRRJ	60.65	338	eP	36	31.00	-2.7	GYA	70.68	305	iPc	37	39.00	0.4			SS	52	58.00		
SAP	61.11	339	eP	36	36.00	-0.9		1.2s	100.00nm			5.7mb		KDC	78.76	21	eP	38	24.30	0.2
ASAJ	61.61	341	P	36	41.00	0.7	Z	30s	2.97um			5.4MszX		PDB	79.77	19	P	38	28.90	-0.8
SSE	62.41	316	eP	36	41.50	-4.3X	N	20s	3.77um					GTA	81.57	314	iPc	38	41.40	1.7
	1.0s	70.00nm				5.7mb	E	20s	3.18um						1.2s	260.00nm			6.1mb	
	Z	20s	12.40um			6.1Msz			pP	37	50.00	36kmX		Z	22s	5.69um			5.9Msz	
	N	18s	3.47um						PcP	37	57.00			E	18s	3.80um				
	E	18s	4.30um						S	46	50.00					pP	38	53.00	38kmX	
			pP	36	53.00	39kmX			S	47	12.00					sP	38	58.00		
			S	45	06.00		BJI	71.14	321	iPc	37	41.55	0.6			S	48	51.00		
			sS	45	30.00				ipPd	37	53.39	40kmX	TTA	81.74	16	eP	38	40.30	0.2	
			SS	49	12.00				(PP)	40	22.78				0.8s	22.41nm			5.2mb	
HKC	62.69	304	eP	36	48.70	0.9			eHPP	40	23.61		MAW	82.58	202	iPc	38	45.00	0.7	
GZH	63.74	305	iPc	36	55.00	0.2			iS	46	55.58				1.0s	114.00nm			5.9mb	
	1.0s	200.00nm				6.1mb			esS	47	12.14		Z	21s	7.00um			6.0Msz		
	N	11s	1.18um						eSKS	47	41.93		PMR	82.77	20	ePc	38	45.00	-0.3	
	E	10s	1.52um						iPc	37	42.00	0.4			0.7s	36.30nm			5.5mb	
			pP	37	07.50	43kmX	LOE	71.17	294	iPc	37	42.00	0.4	Z	20s	13.00um			6.3Msz	
			S	45	29.00		NST	71.98	292	iPc	37	49.50	3.1X						-1.3	
			sS	45	30.00		TIY	72.15	317	iPc	37	47.60	0.4	KLU	83.78	21	P	38	49.30	
			SS	49	12.00			0.9s	180.00nm			6.0mb		PAF	83.85	221	iPd	38	52.00	0.8
SBA	64.12	180	iPc	36	58.00	1.6	N	22s	4.53um							eS	49	32.00		
YSS	64.18	342	P	36	58.00	0.8	E	23s	4.48um							esS	54	44.00		
CSY	64.23	202	iPc	36	57.90	0.6			S	47	05.50		BRK	83.96	49	eP	38	53.20	1.3	
	0.6s	204.30nm				6.4mb			S	47	11.00			Z	20s	5.00um			5.9Msz	
NJ2	64.57	316	Pc	37	00.00	0.0	XAN	72.60	313	iPc	37	50.10	0.2			eS	49	30.00		
	1.8s	560.00nm				6.3mb		0.6s	190.00nm			6.2mb				ePPS	50	35.00		
	Z	22s	3.29um			5.5Msz			S	47	11.00					eS	55	14.00		
	N	15s	1.92um				KHT	73.08	290	eP	37	54.00	1.1			eLO	01	18.00		
	E	16s	1.38um				KMI	73.30	302	iPc	37	55.95	1.6			eLR	04	23.00		
			PcP	37	33.00			1.8s	930.00nm			6.4mb		TOA	84.12	20	eP	38	52.60	0.3
			sS	45	59.00		Z	20s	4.80um			5.8Msz		ARN	84.30	50	P	39	04.00	10.3X
KGM	64.70	279	eP	37	02.50	1.3	N	20s	1.80um					LSA	84.55	302	iPc	38	57.00	1.4
OIZ	64.76	299	Pc	37	02.00	0.5	E	20s	3.20um						0.8s	60.00nm			5.8mb	
	0.8s	59.00nm				5.7mb			ipPd	38	08.03	41kmX				S	49	20.00		
	N	18s	1.61um						iS	47	24.07					sS	49	40.50		
	E	18s	1.79um				BDT	73.54	293	eP	37	55.00	-0.6			ePc	38	55.45	0.2	
			pP	37	14.00	41kmX	CHG	74.15	294	iPc	38	00.50	1.4	SBC	84.62	53	ePc	38	55.45	0.2
			PcP	37	34.50			1.1s	94.94nm			5.7mb		BALM	84.75	22	ePc	38	54.60	-0.9
			S	45	42.00				eS	47	20.00		IRK	84.79	327	eP	38	54.30	-1.5	
SMY	66.51	5	eP	37	11.90	-0.1	CHTD	74.15	294	iPc	37	59.28	0.2			i	38	55.00		
WHN	66.85	312	iPc	37	18.00	3.3X			ipPd	38	11.45	41kmX			e	39	04.00			
	0.7s	89.00nm				5.9mb			esPd	38	16.83				ePcP	39	09.00			
	Z	26s	4.93um			5.6MszX	SDN	74.17	19	P	38	10.00	11.5X			epP	39	19.00	93kmX	
	E	19s	2.82um				Z	20s	20.00um			6.4Msz			esP	39	27.00			
			pP	37	29.70	39kmX	HHC	74.46	320	iPc	38	02.00	1.3			e	39	48.50		
			S	46	06.00			0.8s	110.00nm			5.9mb			ePP	41	56.00			
ADK	66.93	11	eP	37	13.90	-0.9	Z	34s	12.30um			6.0MszX			ePPP	43	15.00			
	1.0s	75.90nm				5.7mb	N	17s	2.26um						eS	49	14.00			
MDJ	67.14	332	iPc	37	16.84	0.6	E	19s	2.68um						e	49	38.00			
	0.8s	290.00nm				6.4mb			PcP	38	13.50				ePS	50	14.00			
	Z	25s	6.18um			5.7MszX			PP	40	46.00				ePPS	50	40.00			
	N	17s	1.49um						S	47	35.00					S	38	56.50	0.5	
	E	17s	1.44um						SKS	47	59.00		IMA	84.85	15	eP	38	56.50	6.2mb	
			epPd	37	28.67	40kmX			iPc	38	04.30	0.7			2.3s	403.70nm				
			iS	46	10.40		CD2	74.95	308	iPc	38	04.30	0.7	ORV	85.15	47	eP	38	57.80	0.0
			esS	46	26.29			0.5s	140.00nm			6.2mb		SIT	85.20	28	e(P)	39	00.40	2.8X
DL2	67.17	323	iPc	37	16.80	0.3	Z	30s	5.20um			5.7MszX			Z	20s	5.00um		5.9Msz	
	1.0s	500.00nm				6.5mb	N	14s	1.80um							49	ePc	38	57.79	-1.4
	Z	27s	6.89um			5.7MszX			ipP	38	16.50	41kmX			1.0s	25.00nm			5.4mb	
	N	18s	2.27um						iS	47	38.00					eS	49	27.35		
	E	18s	4.50um						sS	47	59.90					ePS	50	36.05		
			ePP	37	27.00	33kmX			eScS	48	11.00					i	50	51.22		
			eS	46	00.00		HIA	75.15	330	iPc	38	04.91	0.6			iPc	38	58.20	-1.3	
			esS	46	27.00				ePP	40	53.94					esPd	39	19.23		
IPM	67.62	281	ePc	37	20.10	0.2			iS	47	40.00					eS	49	22.15		
	1.0s	154.40nm				6.0mb			(sS)	47	58.77					isS	49	47.31		
			e	37	32.90	44kmX			iPd	38	06.50	1.0				eP	38	58.80	-0.7	
SNY	68.07	327	iPc	37	22.00	-0.1	BTO	75.30	319	iPd	38	06.50	1.0	FBA	85.59	18	eP	38	58.80	6.2mb
	0.8s	59.00nm				5.7mb		1.0s	86.00nm			5.7mb			0.8s	151.72nm				
	Z	22s	6.15um			5.8Msz	N	20s	3.00um					MWC	85.84	53	eP	39	03.00	1.4
	N	18s	2.81um				E	20s	3.03um					COR	85.87	42	iPc	39	01.61	0.4
	E	20s	3.39um						pP	38	18.50	40kmX				esPd	39	21.81		
			pP	37	35.00	45kmX			ePP	40	54.00			ISA	86.00	52	iPc	39	01.86	-0.4
			S	47	39.50				S	47	39.50					iS	49	31.92		
														SBB	86.17	53	eP	39	02.00	-1.1

AMAN	135.23	290	ePKP	45	45.00	2.8X	LIT	139.10	317	ePKP	45	37.81	-11.2X	TMA	142.70	334	ePKPc	45	50.10	-5.3X							
ANAL	135.50	289	ePKP	45	45.00	2.3	IYA	139.25	322	iPKPd	45	38.64	-10.6X	ARV	142.75	328	PKP	45	51.65	-3.7X							
AGMR	135.62	290	iPKPd	45	43.50	0.6	PLE	139.29	323	iPKPc	45	39.96	-9.4X	VAI	142.94	334	PKP	45	52.00	-3.5X							
	0.1s	225.60nm					BNS	139.33	340	ePKPc	45	41.40	-7.6X	SFI	143.00	329	PKP	45	52.90	-2.8							
PVL	135.71	319	iPKPc	45	42.00	-0.5	Z	21s	4.10um			6.1msz	PGD	143.10	329	PKP	45	52.80	-3.4X								
HLW	135.83	299	ePKP	45	43.00	-0.2	PVY	139.37	321	iPKPd	45	39.90	-9.6X	MMK	143.13	335	ePKPc	45	52.00	-4.2X							
			e	48	20.00		FNA	139.48	318	iPKP	45	43.14	-6.6X	CRE	143.16	329	PKP	45	52.65	-3.5X							
			e	49	34.00				i	45	51.46		DUI	143.18	324	PKP	45	53.11	-3.1X								
KSP	135.90	333	ePKP	45	31.20	-11.5X	PTJ	139.54	328	ePKP	45	42.40	-7.3X		0.9s	72.20nm											
			i	45	44.00		ZAG	139.58	328	iPKP	45	43.20	-6.4X	ASS	143.20	328	PKP	45	52.20	-4.0X							
			i	49	13.40		OHR	139.68	319	iPKP	45	40.00	-10.1X		0.7s	193.30nm											
			e	49	35.50				0.8s	66.00nm			ROI	143.22	320	PKP	45	53.00	-3.3X								
BRN	135.98	337	ePKP	45	43.00	0.3			i	45	47.50		CSI	143.27	320	PKP	45	53.20	-3.2X								
PSZ	136.18	328	ePKP	45	36.00	-7.4X			i	45	51.80		DIX	143.33	336	ePKPc	45	52.90	-3.7X								
YER	136.26	310	ePKP	45	40.00	-3.9X	BHG	139.71	333	iPKPc	45	41.70	-8.1X	MME	143.36	331	PKP	45	53.90	-2.8							
ALN	136.34	316	ePKP	45	31.80	-12.0X	AGG	139.73	315	ePKP	45	40.98	-9.2X	SGO	143.39	322	PKP	45	47.36	-9.1X							
PGB	136.78	319	ePKP	45	34.00	-10.7X			i	45	49.54			0.7s	115.90nm												
RZN	136.85	318	iPKPc	45	32.00	-13.0X			i	45	51.38		SGO	143.39	322	PKP	45	52.90	-3.6X								
BRG	136.87	335	iPKP	45	43.80	-0.7			i	45	50.80		ORX	143.46	335	PKPc	45	52.86	-3.8X								
Z	18s	1.00um			5.6msz		NKY	139.83	322	iPKPc	45	40.66	-9.7X	PDCR	143.46	134	ePKP	45	53.50	-3.9X							
N	18s	2.50um					TTG	139.89	322	iPKPc	45	40.66	-9.6X		e		45	56.40									
E	18s	1.50um					ENN	139.90	341	iPKPc	45	41.90	-8.1X		e		49	28.20									
			i	45	47.00				0.7s	58.00nm				e		49	32.50										
			e	48	27.50				e	45	49.50		ORO	143.46	335	PKP	45	53.00	-3.6X								
			i	49	16.10		KBA	139.98	332	iPKPd	45	41.40	-9.2X	MGR	143.50	321	PKP	45	52.70	-4.0X							
			i	49	42.40				0.7s	47.80nm			BDI	143.51	331	PKP	45	50.91	-5.8X								
CLL	136.92	336	iPKP	45	44.30	-0.3			i	45	51.90			0.6s	508.10nm												
	0.9s	66.00nm					MEM	140.01	341	iPKPc	45	42.38	-7.8X	SDI	143.51	325	PKP	45	52.90	-3.9X							
Z	21s	3.00um			6.0msz				i	48	48.53		EMS	143.53	336	ePKPc	45	53.50	-3.3X								
			iSKP	49	16.10				e	49	23.20		AZI	143.53	326	PKP	45	53.80	-2.9								
SRO	137.05	329	i(PKP)	45	44.30	-0.6	BRY	140.04	323	iPKPc	45	41.18	-9.6X	ACI	143.58	320	PKP	45	54.70	-2.2							
			e	48	29.80		LJU	140.15	329	ePKP	45	41.00	-9.7X	MNS	143.67	327	PKP	45	53.70	-3.3X							
			e	49	15.40		VBY	140.17	328	ePKP	45	43.20	-7.5X		0.7s	58.40nm											
PRU	137.29	334	ePKP	45	31.90	-13.4X			i	45	50.80		GRI	143.75	319	PKP	45	55.38	-1.9								
	0.6s	29.50nm					ULC	140.17	321	iPKPc	45	40.98	-9.9X		0.6s	651.50nm											
Z	21s	5.80um			6.3msz		DCN	140.20	354	ePKP	45	43.10	-7.4X	GRC	143.85	341	PKP	45	55.06	-2.0							
N	21s	3.80um							0.8s	47.00nm			LSD	143.94	335	PKPc	45	55.94	-1.7								
E	20s	0.90um							i	45	41.22	-9.7X	RSL	143.96	336	PKP	45	55.54	-2.0								
			e	45	45.00		BDV	140.24	322	ePKP	45	41.28	-9.8X	RMP	144.05	326	PKP	45	55.20	-2.4							
			PP	48	28.30		HCY	140.34	322	iPKPc	45	41.28	-9.8X	RDP	144.08	326	PKP	45	55.40	-2.3							
VTS	137.37	320	iPKPd	45	34.00	-11.9X	UCC	140.35	342	ePKP	45	46.90	-3.9X	PCP	144.08	333	PKPc	45	55.01	-2.6							
ZST	137.40	330	ePKP	45	45.00	-0.6			e	48	48.00		RSP	144.15	335	PKPc	45	54.40	-3.4X								
			e	48	32.10		CEY	140.42	329	ePKP	45	44.00	-7.2X	CKI	144.29	333	PKP	45	55.50	-2.4							
			e	49	17.30		FVI	140.60	331	PKP	45	44.00	-7.4X	SOB1	144.38	128	ePKPd	45	56.90	-2.1							
MMB	137.55	318	iPKPc	45	34.00	-12.1X	WTTA	140.61	333	iPKPd	45	44.60	-7.1X		e		49	34.90									
UZD	137.72	327	ePKP	45	46.00	-0.2			i	45	49.90		BHB	144.39	335	PKPc	45	55.01	-3.1X								
VKA	137.73	331	iPKPc	45	46.10	-0.1			i	46	00.40		SOI	144.41	318	PKPc	45	57.20	-1.1								
	4.0s	1104.00nm							i	48	48.00		MAO	144.44	328	PKP	45	56.40	-1.9								
Z	25s	1.90um			5.7mszX				i	49	25.30		BN1	144.46	335	PKPc	45	57.30	-1.1								
			i	45	57.20		SNF	140.63	342	iPKPc	45	42.53	-8.8X	GMB	144.48	319	PKP	45	57.36	-1.3							
			i	46	08.00				e	48	52.50			0.7s	1076.50nm												
			i	48	32.00		RIY	140.72	329	ePKP	45	45.00	-6.7X	FIN	144.49	333	PKPc	45	56.24	-2.1							
EKA	137.75	351	PKP	45	34.00	-12.0X	ETA	140.73	353	ePKP	45	44.80	-6.7X	RRL	144.53	335	PKPc	45	57.68	-1.0							
	0.6s	6.50nm							0.9s	115.00nm		ROB	144.57	333	PKPc	45	56.45	-2.1									
BEO	137.78	324	ePKP	45	45.20	-1.2	WLF	140.78	340	iPKPc	45	43.19	-8.4X	DOI	144.68	334	PKP	45	55.50	-3.2X							
KKB	137.82	319	iPKPc	45	34.00	-12.6X	IGT	140.82	317	ePKP	45	43.98	-8.1X	BST	144.69	349	PKP	45	56.91	-1.6							
SRS	137.87	317	ePKP	45	33.50	-13.2X			i	45	54.18		PZZ	144.74	334	PKPc	45	56.45	-2.4								
			i	45	45.90		GWf	140.85	338	PKP	45	44.35	-7.5X	ATN	144.74	319	PKP	45	56.50	-2.4							
WIT	137.89	342	ePKP	45	47.00	0.7	DOU	140.90	342	PKP	45	45.00	-6.9X	ENR	144.82	334	PKPc	45	56.45	-2.5							
MOX	137.99	336	ePKP	45	35.00	-11.6X			e	45	52.00		PLDF	144.83	339	PKP	45	58.68	-0.2								
	1.6s	57.00nm							e	48	54.00		STV	144.85	334	PKPc	45	56.45	-2.6								
OUR	137.99	316	ePKP	45	34.62	-12.3X	HVAR	141.07	325	iPKP	45	45.50	-6.9X	IMI	144.87	333	PKPc	45	57.88	-1.2							
HOF	138.15	336	ePKP	45	35.70	-11.3X	VVI	141.21	331	PKP	45	47.00	-5.6X	LPI	144.88	320	PKP	45	58.31	-0.9							
SOH	138.17	317	ePKP	45	36.14	-11.2X	ECP	141.26	353	ePKP	45	46.10	-6.3X	AGO	144.93	340	PKP	45	58.61	-0.4							
			i	45	45.70				0.9s	158.00nm		SAOF	144.96	333	PKP	45	59.85	0.7									
KNT	138.30	318	ePKP	45	36.22	-11.3X	CDF	141.45	338	PKP	45	46.27	-6.8X	AUTN	145.01	334	PKP	45	58.97	-0.5							
			i	45	49.89		SLE	141.52	336	ePKPc	45	46.50	-6.6X	TOUF	145.07	334	PKP	45	59.01	-0.5							
KHC	138.35	333	PKP	45	37.50	-9.9X	CTI	141.53	332	PKP	45	48.50	-4.8X	SSB	145.10	338	PKP	45	59.33	0.0							
Z	24s	5.20um			6.2mszX		FEL	141.62	337	PKP	45	46.44	-7.0X	AURF	145.14	334	PKP	45	59.01	-0.5							
	N	24s	2.00um				ECH	141.66	338	PKP	45	46.42	-6.9X	COLF	145.20	339	PKP	45	59.69	0.2							
	E	22s	3.90um				OSS	141.71	334	ePKPc	45	47.20	-6.5X	PYM	145.23	340	PKP	45	59.81	0.2							
			i	45	47.00		ZLA	141.79	336	ePKPc	45	47.30	-6.4X	REVF	145.24	333	PKP	45	58.88	-0.8							
PAIG	138.39	316	ePKP	45	35.78	-11.9X	VAL	141.82	357	iPKP	45	48.40	-5.0X	GIO	145.32	318	PKP	46	01.15	1.2							
WTS	138.56	341	ePKP	45	38.00	-9.6X	MOF	141.97	338	PKP	45	47.63	-6.4X	MNO	145.37	319	PKP	46	00.20	-0.1							
	0.8s	90.00nm					LLS	142.04	335	ePKPc	45	48.30	-6.0X	PGF	145.42	330	PKP	46	00.37	0.3							
			e	45	47.50		VITF	142.08	339	PKP	45	48.01	-6.1X	LBL	145.60	339	PKP	46	01.40	1.1							
			ePP	48	39.00		BSF	142.11	338	PKP	45	48.14	-6.1X	MEU	145.70	318	PKP	46	01.10	0.4							
WET	138.64	334	ePKP	45	39.30	-8.6X	VDL	142.15	334	ePKPc	45	48.70	-5.8X	PZI	145.75	318	PKP	46	01.22	0.5							
Z	22s	6.00um			6.3msz		SAL	142.37	332	PKP	45																

12d 16h

[illegible]

OCT 12, 1991 16h 37m 41.42±0.25s
40.195 N ± 3.1km 25.626 E ± 2.3km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
MD 3.5 (THE), ML 3.5 (ATH).

EZN	0.65	124	iPg	37	54.20	-0.2
			eSg	38	02.50	
ALN	0.77	24	iPg	37	56.68	0.2
			eSg	38	07.64	
RDO	0.95	356	ePg	37	59.50	0.0
PRK	1.07	152	ePg	38	02.00	0.4
			eSg	38	17.20	
OUR	1.27	277	iPb	38	04.52	-0.4
			eSb	38	20.88	
KDZ	1.46	354	iPd	38	07.00	-0.8
PAIG	1.52	260	ePb	38	07.96	-0.6
			eSb	38	28.10	
RZN	1.64	335	iP	38	11.00	0.4
EDC	1.72	84	iPn	38	12.00	0.5
SRS	1.80	301	ePb	38	12.12	-0.6
			eSb	38	37.48	
SOH	1.84	291	ePb	38	12.92	-0.5
			eSb	38	39.12	
MMB	2.00	315	iPc	38	16.00	0.3
THE	2.08	283	ePn	38	17.10	0.4
			eSn	38	45.10	
Izm	2.20	144	ePn	38	18.90	0.3
KNT	2.29	296	ePn	38	19.60	-0.2
			eSn	38	49.84	
DMK	2.29	44	ePn	38	19.90	0.1
LIT	2.41	269	ePn	38	21.20	-0.3
KKB	2.55	312	iP	38	24.00	0.5
GRG	2.57	288	ePn	38	24.68	0.9
PGB	2.60	335	iP	38	24.00	-0.2
ATH	2.67	214	ePn	38	23.80	-1.4
ISK	2.75	70	ePn	38	27.00	0.6
AGG	2.80	246	ePn	38	26.48	-0.7
YLV	2.89	81	ePn	38	28.00	-0.4
IZI	2.95	86	ePn	38	29.50	0.3
KZN	2.95	273	ePn	38	31.20	1.9
VTS	3.01	324	iPc	38	30.00	-0.1
PVL	3.03	356	eP	38	29.00	-1.2
HRT	3.14	77	ePn	38	32.20	0.2
FNA	3.29	282	ePn	38	33.70	-0.4
GPA	3.59	87	iPn	38	38.60	0.3
YER	3.70	145	ePn	38	39.00	-0.9
PSN	3.97	28	eP	38	43.00	-0.6
IGT	4.13	262	ePn	38	47.70	1.8

S.D. = 0.7 on 34 of 34 obs.

& OCT 12, 1991 16h 58m 13.00s
40.308 N 124.663 W
DEPTH = 17.0km
NEAR COAST OF NORTHERN CALIF. (35)
<BRK>, ML 3.0 (BRK).

FOX	0.55	67	iPc	58	23.97	0.1
			eS	58	31.73	
FHC	0.71	46	iPc	58	25.98	-0.7
			iS	58	40.00	
WDC	1.64	80	iPc	58	38.99	-2.3
			eS	58	55.00	
LTCM	1.95	92	eP	58	44.30	-1.3
MIN	2.34	88	iPd	58	48.93	-2.5
LBFM	2.35	63	eP	58	50.30	-1.3
ORV	2.55	106	iPc	58	50.53	-3.7
ARN	3.83	139	eP	59	10.20	-2.4

8 obs. associated

* OCT 12, 1991 17h 56m 37.73±1.82s
41.593 N ± 8.7km 20.873 E ± 14.2km
DEPTH = 10.0km (geophysicist)
ALBANIA (391)
MD 2.6 (THE).

OHR	0.48	187	iPg	56	47.70	0.1
			iSg	56	55.10	
			Lg	56	56.10	
SKO	0.57	48	ePg	56	49.00	-0.3
			iSg	56	55.00	
FNA	0.89	155	iPg	56	54.17	-0.7
			eSg	57	06.70	
GRG	1.32	118	ePb	57	01.62	-0.4
			eSb	57	19.14	
KNT	1.58	105	iPb	57	06.26	0.4
			eSb	57	28.06	

LIT 1.93 140 iPb 57 11.34 0.4
SRS 2.10 102 ePn 57 13.46 0.0
OUR 2.67 117 ePn 57 21.86 0.4
PAIG 2.70 127 ePn 57 22.18 0.2
S.D. = 0.5 on 9 of 9 obs.

OCT 12, 1991 18h 19m 42.98±0.73s
37.513 N ± 5.6km 23.514 E ± 11.1km
DEPTH = 10.0km (geophysicist)
SOUTHERN GREECE (368)
MD 3.5 (ATH), 3.3 (THE).

ATH	0.49	19	ePg	19	52.90	0.1
VLI	0.92	210	ePg	19	59.30	-1.2
AGG	1.77	329	iPb	20	14.38	0.5
			eSb	20	37.28	
PAIG	2.41	3	ePn	20	22.40	-0.7
			eSn	20	54.65	
LIT	2.70	343	ePn	20	26.48	-0.8
			eSn	21	01.02	
PRK	2.77	51	ePg	20	36.50	8.3X
NPS	2.81	142	ePn	20	30.00	1.2
OUR	2.84	7	iPn	20	28.10	-1.1
IZM	3.09	72	ePn	20	37.40	4.6X
KZN	3.10	335	ePn	20	35.20	2.3
SOH	3.31	358	iPn	20	35.24	-0.6
			eSn	21	16.11	
GRG	3.55	346	ePn	20	39.16	0.0
SRS	3.60	1	ePn	20	39.48	-0.5
FNA	3.66	334	ePn	20	41.60	0.6
KNT	3.68	353	ePn	20	40.84	-0.2
OHR	4.16	330	ePn	20	41.00	-7.0X

S.D. = 1.1 on 13 of 16 obs.

OCT 12, 1991 18h 42m 38.42±0.96s
7.025 S ± 5.9km 130.124 E ± 12.8km
DEPTH = 139.7 ± 11.0 km
5.0mb (7 obs.)
TANIMBAR ISLANDS REG., INDONESIA(281)

AAI	3.83	330	eP	43	37.90	1.0
MTN	5.87	170	eP	44	05.00	0.7
KUPT	7.15	244	iPd	44	27.50	5.7X
			iS	45	40.00	
KNA	8.77	189	eP	44	42.20	-1.3
	0.2s	46.00nm			5.8mb X	
		eS	46	12.00		
WR2	13.49	163	eP	45	43.00	-2.4
	0.4s	55.90nm			5.3mb X	
		eS	48	04.90		
QIS	16.29	147	eP	46	21.30	0.7
	0.5s	7.00nm			4.2mb	
		iS	49	13.80		
ASPA	16.94	168	iPd	46	28.80	0.2
	0.2s	22.80nm			5.1mb	
		iS	49	29.30		
MBL	17.22	214	eP	46	31.00	-1.0
	0.3s	6.00nm			4.4mb	
		eS	49	26.00		
WARB	19.34	189	eP	46	57.00	1.5
		eS	50	21.00		
MRWA	25.78	209	eP	48	00.00	1.9
		e	48	28.00		
		eS	52	46.00		
BAL	26.62	207	eP	48	06.50	0.8
STK	26.95	158	eP	48	12.50	3.9X
	1.3s	1.20nm			3.3mb X	
CHG	40.05	310	eP	50	02.00	0.4
WHN	40.30	339	eP	50	07.80	4.3X
MAT	43.99	9	eP	50	34.00	0.4
CD2	45.39	328	eP	50	44.50	-0.2
XAN	45.51	335	P	50	44.90	-0.8
LZH	49.48	332	P	51	16.50	-0.2
	1.5s	34.00nm			4.9mb	
CN2	50.76	356	eP	51	26.00	-0.1
GTA	54.05	331	Pc	51	51.10	0.3
	1.0s	28.00nm			5.1mb	
GUN	55.06	311	P	51	58.20	-0.4
	0.6s	17.00nm			5.1mb	
PKI	55.23	311	P	51	59.00	-0.8
KKN	55.45	311	P	52	00.60	-0.6
KKN	55.45	311	P	52	01.00	-0.2
DMN	55.48	310	P	52	01.00	-0.5
GKN	56.04	311	P	52	05.00	-0.4
WMO	63.48	327	Pd	52	56.50	0.7
	0.5s	15.00nm			5.2mb	
CNCB	150.31	143	iPKPc	02	20.40	9.7X

ZOBO 150.64 142 PKP 02 20.60 9.4X
S.D. = 1.0 on 24 of 29 obs.

? OCT 12, 1991 18h 59m 21.41±3.92s
15.426 N ± 36.2km 98.339 W ± 13.3km
DEPTH = 33.0km (normal)
4.0mb (2 obs.)
OFF COAST OF GUERRERO, MEXICO (65)

ACX	2.05	315	iP	59	54.00	-0.2
			iS	00	19.00	
OXX	2.26	43	iP	59	57.00	-0.4
			iS	00	27.50	
III	3.13	340	iP	00	11.00	1.3
			iS	00	47.00	
PPM	3.63	356	iP	00	17.00	-0.2
			iS	00	59.50	
IISM	3.66	14	iP	00	18.00	0.9
			(S)	01	04.00	
UNM	3.97	348	eP	00	20.00	-1.7
LVVM	4.65	23	(P)	00	28.00	-3.1X
MRX	5.05	328	(P)	00	43.00	6.2X
			iS	01	32.00	
ANMO	20.76	341	P	04	01.90	-0.3
	1.0s	3.25nm			3.7mb	
GOL	24.95	347	P	04	44.20	0.6
	0.9s	7.95nm			4.3mb	

S.D. = 1.1 on 8 of 10 obs.

* OCT 12, 1991 20h 07m 05.01±0.46s
17.084 S ± 10.8km 168.121 E ± 11.3km
DEPTH = 33.0km (normal)
4.6mb (5 obs.) 4.8msz (1 obs.)
VANUATU ISLANDS (186)

DZM	5.21	197	iPc	08	21.00	-1.7
			iS	09	24.00	
HNR	11.00	313	eP	09	42.00	-1.3
RMQ	20.25	239	eP	11	52.00	11.6X
CTAO	20.94	258	iPc	11	41.50	-6.0X
	1.0s	15.00nm			4.3mb	
CNB	24.68	219	eP	12	26.00	1.6
BWA	24.68	222	eP	12	23.70	-0.7
CAN	24.90	220	eP	12	30.80	4.3X
QIS	27.20	258	eP	12	49.00	1.2
STK	28.18	234	iPc	12	58.00	1.3
	0.6s	8.40nm			4.6mb	
WR2	32.11	260	eP	13	30.20	-1.4
	0.7s	2.70nm			4.3mb	
ASPA	32.68	253	iPc	13	35.10	-1.6
	0.7s	50.30nm			5.5mb	
Z						

12d 20h

iS 34 24.50
 LNV 2.16 175 (P) 34 02.50 0.7
 CHCH 2.28 159 eP 34 04.00 0.4
 iS 34 29.50
 LPB 15.53 13 P 37 06.00 0.0
 S.D. = 0.7 on 8 of 8 obs.

OCT 12, 1991 20h 49m 22.87±0.41s
 40.164 N ± 5.2km 25.585 E ± 3.3km
 DEPTH = 10.0km (geophysicist)

AEGEAN SEA (365)
 MD 3.0 (ATH), 2.8 (THE).

EZN 0.66 120 iPg 49 35.10 -0.9
 iSg 49 44.60
 ALN 0.81 25 ePg 49 37.68 -0.9
 eSg 49 48.64
 RDO 0.98 358 ePg 49 41.00 -0.5
 PRK 1.06 150 ePg 49 42.70 -0.1
 eSg 49 58.20
 OUR 1.24 278 ePb 49 45.60 -0.3
 eSb 50 02.00
 MFT 1.44 64 ePn 49 49.50 0.5
 PAIG 1.48 261 ePb 49 49.69 0.1
 eSb 50 09.76
 EDC 1.75 83 ePn 49 54.00 0.5
 SRS 1.79 303 ePb 49 54.24 0.2
 eSb 50 18.04
 SOH 1.82 292 ePb 49 55.36 0.8
 eSb 50 19.12
 KNT 2.27 297 ePn 50 00.72 -0.3
 iSn 50 29.24
 LIT 2.37 269 ePn 50 02.40 -0.1
 CTT 2.38 65 ePn 50 03.50 1.0
 GRG 2.55 289 ePn 50 05.05 0.1
 S.D. = 0.6 on 14 of 14 obs.

OCT 12, 1991 21h 00m 17.88±0.42s
 40.190 N ± 5.8km 25.625 E ± 3.5km
 DEPTH = 10.0km (geophysicist)

AEGEAN SEA (365)
 MD 2.9 (THE), 2.9 (ATH).

EZN 0.65 124 iPg 00 30.70 -0.2
 eSg 00 38.60
 ALN 0.78 24 iPg 00 32.21 -0.8
 eSg 00 43.12
 RDO 0.96 356 ePg 00 35.00 -1.1
 PRK 1.07 152 ePg 00 38.00 0.1
 eSg 00 53.70
 OUR 1.27 277 iPb 00 39.93 -1.4
 eSb 00 57.64
 MFT 1.40 64 ePn 00 41.50 -2.0
 PAIG 1.52 261 ePb 00 44.36 -0.7
 eSb 01 05.83
 EDC 1.72 84 iPn 00 48.00 0.0
 SRS 1.80 302 ePb 00 50.02 0.8
 iSb 01 14.24
 SOH 1.84 291 ePb 00 50.68 0.8
 eSb 01 15.48
 KNT 2.29 296 ePn 00 56.68 0.4
 eSn 01 26.74
 DMK 2.29 44 ePn 00 58.00 1.7
 CTT 2.34 65 ePn 00 58.00 1.0
 LIT 2.40 269 ePn 00 59.00 1.1
 GRG 2.57 288 ePn 01 01.21 0.9
 AGG 2.80 246 ePn 01 02.84 -0.7
 YLV 2.89 81 ePn 01 05.00 0.2
 IZI 2.95 86 ePn 01 06.00 0.3
 FNA 3.29 282 ePn 01 10.32 -0.3
 S.D. = 1.0 on 19 of 19 obs.

& OCT 12, 1991 21h 54m 33.05s
 59.894 N 152.989 W
 DEPTH = 117.3km
 4.1mb (1 obs.)
 SOUTHERN ALASKA (2)
 <AEIC>.

INE 0.17 348 iPc 54 48.85 0.7
 eS 55 02.24
 INW 0.19 338 ePc 54 48.68 0.6
 eS 55 01.23
 OPT 0.27 207 iPd 54 49.13 0.9
 eS 55 01.16
 RED 0.54 12 iPc 54 50.55 -0.8
 eS 55 04.15

AUL 0.56 204 iPd 54 50.66 -0.7
 AUE 0.57 200 iPd 54 50.54 -0.8
 eS 55 03.57
 AUP 0.58 203 iPd 54 50.81 -0.8
 eS 55 04.05
 AUH 0.58 204 iPd 54 50.85 -0.7
 AUW 0.58 205 iPd 54 50.75 -0.7
 RS1 0.58 11 iPc 54 50.99 -0.7
 AGU 0.58 203 iPd 54 50.81 -0.8
 RSO 0.58 12 iPc 54 51.03 -0.7
 eS 55 05.06

RS2 0.58 11 iPc 54 51.03 -0.7
 RDW 0.60 9 iPc 54 51.07 -0.8
 AUI 0.60 202 iPd 54 50.72 -0.9
 eS 55 04.46
 REF 0.61 13 iPc 54 51.22 -0.7
 PDB 0.62 261 iPd 54 50.84 -0.9
 eS 55 04.67
 RDN 0.63 10 iPc 54 51.30 -0.7
 NCT 0.67 3 iPc 54 51.52 -0.8
 DFR 0.72 12 iPc 54 51.82 -0.8
 HOM 0.72 109 eP 54 51.94 -0.6
 eS 55 06.29

RDT 0.74 23 iPc 54 51.98 -0.9
 eS 55 06.46
 XLV 0.78 124 iPc 54 52.08 -1.0
 iS 55 07.41
 NNL 0.86 79 iPc 54 54.17 0.3
 CNPM 0.96 112 iPc 54 54.02 -0.8
 eS 55 09.99
 MCNL 0.99 225 iPd 54 53.92 -1.1
 eS 55 10.00
 CDD 1.02 199 iPd 54 54.21 -1.2
 eS 55 11.10
 NKA 1.22 45 iPc 54 58.47 1.1
 SYI 1.32 166 iPd 54 57.45 -1.2
 eS 55 16.43

CKL 1.35 14 iPd 54 58.34 -0.7
 SPU 1.37 19 iPd 54 58.40 -0.8
 eS 55 18.36
 BGL 1.41 12 iPd 54 59.18 -0.5
 CRP 1.44 16 iPd 54 59.54 -0.6
 CGLM 1.50 18 iPd 55 00.09 -0.7
 eS 55 21.27
 SLKM 1.51 65 ePc 54 59.51 -1.4
 eS 55 19.90
 NCG 1.57 15 iPd 55 00.90 -0.7
 SVW 1.78 314 ePd 55 03.20 -1.0
 SEW 1.79 82 ePc 55 02.73 -1.4
 eS 55 25.24

SUA 1.92 34 iPd 55 05.20 -0.8
 KDC 2.17 173 iPd 55 07.10 -1.8
 PMS 2.17 50 iPd 55 07.95 -1.1
 SKT 2.21 18 iPd 55 08.29 -1.3
 eS 55 35.88
 PWA 2.33 40 eP 55 09.80 -1.3
 PLRM 2.55 46 ePd 55 11.53 -2.4
 eS 55 41.39
 PMR 2.55 46 ePd 55 12.00 -1.9
 LTI 2.59 85 iPc 55 13.01 -1.4
 KNIM 2.67 78 iPc 55 13.17 -2.4
 KNK 2.70 54 ePd 55 13.78 -2.2
 eS 55 44.71

GHO 2.74 45 ePd 55 14.28 -2.3
 CUT 2.84 26 iPd 55 16.15 -1.7
 SML 2.98 48 iPd 55 17.41 -2.3
 GLI 3.09 69 eP 55 19.26 -1.9
 FID 3.35 72 eP 55 21.39 -3.3
 eS 55 58.32
 TTA 3.38 336 iPd 55 23.50 -1.6
 SCM 3.38 52 ePd 55 22.80 -2.4
 eS 56 01.44

VZW 3.39 67 eP 55 23.51 -1.8
 MID 3.41 95 eP 55 24.00 -1.4
 HUR 3.49 26 eP 55 25.17 -1.3
 VLZ 3.52 66 eP 55 24.22 -2.6
 CVA 3.67 77 eP 55 26.43 -2.5
 TRF 3.79 19 eP 55 28.32 -2.5
 KTH 3.80 14 ePd 55 28.35 -2.5
 KLU 3.83 62 ePc 55 28.60 -2.6
 TOA 3.99 53 eP 55 31.90 -1.5
 RND 4.04 27 ePd 55 31.53 -2.5
 RAGM 4.19 80 eP 55 34.41 -1.6
 TZL 4.27 56 eP 55 34.95 -2.2
 MCK 4.30 25 eP 55 35.78 -1.8
 KAJM 4.32 86 eP 55 36.24 -1.5
 HMT 4.39 80 eP 55 36.65 -2.1

SDG 4.46 51 eP 55 37.59 -2.2
 BWN 4.60 20 eP 55 39.69 -1.9
 PAX 4.75 46 ePd 55 41.41 -2.3
 GLB 4.77 67 eP 55 41.62 -2.4
 CROM 4.97 76 ePc 55 44.97 -1.9
 NEA 5.04 20 ePd 55 44.90 -2.7
 SNH 5.10 82 eP 55 46.79 -1.6
 TGL 5.12 76 ePc 55 46.89 -1.9
 WRH 5.13 24 ePd 55 45.88 -3.0
 CYK 5.28 83 eP 55 49.07 -1.7
 HDA 5.34 29 eP 55 48.79 -2.9
 CCB 5.35 25 ePd 55 48.68 -3.1
 BALM 5.39 73 iPc 55 50.62 -1.9
 WRG 5.51 84 eP 55 52.25 -1.7
 MDM 5.54 21 eP 55 51.58 -2.9
 FBA 5.57 23 eP 55 52.50 -2.4
 YAH 5.64 80 iPc 55 54.44 -1.6
 GLM 5.73 25 ePd 55 54.07 -3.1
 CTGM 5.87 74 ePc 55 57.45 -1.7
 SDN 6.09 225 eP 55 59.10 -2.8
 IMA 6.21 357 eP 56 01.90 -1.8
 PCA 6.39 83 ePc 56 04.40 -1.8
 BCPM 6.72 84 eP 56 09.73 -0.8
 YKU 6.72 87 eP 56 09.62 -0.9
 PNL 6.87 86 ePc 56 09.91 -2.7
 HQN 7.16 87 ePc 56 14.02 -2.6
 FYU 7.55 24 eP 56 18.79 -3.1
 SIT 9.67 99 e(P) 56 47.80 -2.6
 INK 11.92 37 eP 57 17.00 -3.1
 YKA 18.49 65 eP 58 39.40 -2.9
 0.4s 3.90nm 4.1mb
 100 obs. associated

* OCT 12, 1991 21h 56m 12.95±0.68s
 31.591 S ± 10.3km 69.437 W ± 12.1km
 DEPTH = 110.0km (geophysicist)

SAN JUAN PROVINCE, ARGENTINA (137)

RTCB 0.55 79 iPd 56 30.50 0.0
 S 56 43.00
 CFA 1.02 91 ePc 56 34.70 0.0
 S 56 49.00
 RTRS 1.42 359 iPc 56 39.00 -0.1
 (S) 56 59.50
 JACH 1.46 222 iPc 56 41.20 1.4
 iS 57 03.00
 PEL 1.87 214 iP 56 45.00 0.1
 iS 57 10.00
 ROCH 1.92 224 iP 56 45.50 -0.1
 iS 57 11.40
 PCH 2.22 204 eP 56 50.00 0.6
 iS 57 20.50
 TACH 2.42 211 iPd 56 51.50 -0.4
 iS 57 22.50
 CHCH 2.55 203 iP 56 53.80 0.1
 iS 57 26.20
 LNV 2.89 215 iPd 56 56.40 -1.7
 iS 57 30.50
 S.D. = 0.9 on 10 of 10 obs.

& OCT 12, 1991 23h 03m 51.73s
 61.934 N 148.482 W
 DEPTH = 35.5km
 SOUTHERN ALASKA (2)
 <AEIC>. ML 2.5 (AEIC).

SML 0.14 151 iP 03 57.90 -0.3
 eS 04 03.66
 GHO 0.27 232 iP 03 58.82 -0.5
 eS 04 05.05
 PLRM 0.46 222 iP 04 00.72 -1.0
 eS 04 08.59
 KNK 0.52 179 iP 04 02.00 -0.7
 eS 04 10.56
 SCM 0.56 100 iP 04 01.94 -1.3
 eS 04 10.76
 PWA 0.72 247 eP 04 05.27 -0.2
 PMS 0.86 217 eP 04 06.73 -0.8
 eS 04 18.82
 CUT 0.96 300 eP 04 07.95 -0.9
 TOA 1.10 80 eP 04 10.59 -0.4
 eS 04 25.44
 SUA 1.18 247 eP 04 11.85 -0.2
 eS 04 29.64
 HUR 1.18 333 eP 04 10.88 -1.1
 GLI 1.25 147 iP 04 12.03 -1.0
 eS 04 29.46

VZW 1.28 133 eP 04 12.35 -1.1
 KLU 1.30 109 iP 04 12.52 -1.3
 VLZ 1.31 127 eP 04 12.13 -1.7
 SKT 1.44 273 eP 04 14.88 -1.0
 eS 04 34.81
 TZL 1.45 84 eP 04 16.08 0.1
 RND 1.49 354 eP 04 15.45 -1.2
 SDG 1.50 65 eP 04 16.33 -0.4
 FID 1.53 140 eP 04 16.04 -1.1
 KNIM 1.63 167 eP 04 17.69 -0.9
 SLKM 1.66 211 eP 04 18.50 -0.5
 eS 04 40.62
 TRF 1.74 332 eP 04 19.18 -1.0
 PAX 1.75 52 eP 04 19.68 -0.6
 CGLM 1.80 251 eP 04 21.07 0.0
 NCG 1.83 255 eP 04 21.51 0.0
 SPV 1.87 248 eP 04 21.60 -0.4
 SEW 1.90 195 eP 04 22.28 0.0
 CVA 1.92 135 eP 04 22.44 -0.2
 LTI 1.92 171 eP 04 21.54 -1.2
 KTH 1.98 326 eP 04 22.60 -0.9
 BGL 1.99 252 eP 04 23.55 -0.2
 CKL 1.99 250 eP 04 23.11 -0.7
 GLB 2.28 100 eP 04 26.90 -0.9
 RDT 2.34 236 eP 04 27.59 -1.0
 REF 2.50 236 eP 04 30.49 -0.6
 RDN 2.51 237 eP 04 30.51 -0.7
 NCT 2.55 239 eP 04 31.35 -0.4
 WRH 2.55 4 eP 04 30.85 -0.8
 HDA 2.58 15 eP 04 31.58 -0.4
 CCB 2.74 6 eP 04 33.20 -1.1
 CNPM 2.77 210 eP 04 34.31 -0.4
 MDM 3.04 2 eP 04 36.95 -1.6

43 obs. associated

OCT 13, 1991 00h 46m 55.23±0.41s
 1.796 S ± 4.6km 134.102 E ± 8.3km
 DEPTH = 33.0km (normal)
 4.8mb (6 obs.)
 IRIAN JAYA REGION, INDONESIA (196)

AAI 6.19 252 eP 48 27.50 0.7
 eS 49 37.00
 MTN 11.37 195 eP 49 38.70 0.3
 0.4s 163.00nm 6.6mb X
 eS 51 36.00
 KNA 14.83 200 eP 50 24.00 -0.4
 GUMO 18.64 35 eP 51 13.00 0.4
 OIS 19.41 164 eP 51 20.30 -1.4
 ASPA 21.74 180 iPd 51 46.20 0.3
 0.4s 19.40nm 4.9mb
 Z 21s 18.70um 5.5msz
 iS 55 46.00
 STK 30.75 167 iPc 53 11.00 1.2
 0.8s 1.90nm 3.9mb
 CHG 40.18 302 eP 54 31.30 0.9
 1.0s 10.00nm 4.5mb
 XAN 42.80 329 P 54 51.50 -0.2
 TIY 44.13 335 eP 55 02.50 0.0
 BJI 44.75 340 eP 55 07.00 -0.4
 1.0s 10.00nm 4.6mb
 LZH 47.07 326 Pc 55 26.80 0.7
 1.5s 45.00nm 5.2mb
 HHC 47.15 337 P 55 27.00 0.5
 1.2s 22.00nm 5.0mb
 GTA 51.68 326 eP 56 01.60 0.2
 GUN 54.91 306 P 56 25.60 -0.3
 PKI 55.16 306 P 56 26.80 -0.8
 KKN 55.35 306 P 56 28.20 -0.6
 DMN 55.42 306 P 56 29.00 -0.4
 GKN 55.95 306 P 56 32.60 -0.5
 HYB 57.96 292 eP 56 46.30 -1.0
 WMO 61.49 323 P 57 10.60 -0.7
 QUE 71.31 303 eP 58 15.00 0.8
 MAIO 78.70 307 eP 58 57.00 0.8

S.D. = 0.7 on 23 of 23 obs.

? OCT 13, 1991 00h 47m 47.95±4.36s
 34.019 S ± 29.2km 68.237 W ± 29.0km
 DEPTH = 10.2 ± 3.7 km
 MENDOZA PROVINCE, ARGENTINA (139)
 MD 4.0 (SAN).

PCH 1 94 281 iPd 48 20.40 -0.9
 iS 48 43.50
 CHCH 2.01 272 iP 48 22.00 -0.3
 iS 48 45.00

SAN 2.10 285 iPc 48 23.00 -0.6
 iS 48 48.20
 PEL 2.22 292 (P) 48 25.00 -0.4
 iS 48 53.00
 TACH 2.28 278 eP 48 26.30 0.1
 iS 48 54.00
 JACH 2.38 303 eP 48 28.00 0.3
 iS 48 56.20
 CFA 2.41 360 e(P) 48 28.00 0.0
 S 49 01.00
 ZON 2.49 351 eP 48 37.70 8.5X
 i 49 07.70
 ROCH 2.54 293 eP 48 30.70 0.6
 RTCB 2.57 349 iPc 48 29.50 -0.9
 LNV 2.64 270 eP 48 32.00 0.8
 iS 49 04.20
 LCCH 2.83 280 eP 48 33.00 -1.0
 iS 49 09.10
 RTRS 3.98 345 e(P) 48 50.40 0.2

S.D. = 0.7 on 12 of 13 obs.

OCT 13, 1991 00h 55m 18.76±0.51s
 2.325 N ± 5.7km 127.620 E ± 14.5km
 DEPTH = 24.4km (3 depth phases)
 5.0mb (11 obs.)
 NORTHERN MOLUCCA SEA (266)

KNA 17.99 176 eP 59 30.00 1.0
 OIZ 24.05 315 eP 00 38.80 5.6X
 QZH 24.11 340 eP 00 33.50 -0.2
 MBL 24.55 198 eP 00 38.40 0.4
 OIS 25.60 153 iPd 00 48.70 0.8
 0.6s 56.00nm 5.4mb
 ASPA 26.55 167 iPc 00 56.80 0.0
 0.3s 29.80nm 5.4mb
 i 01 00.50 13kmX
 WARB 28.36 182 eP 01 13.00 -0.1
 WHN 30.75 337 eP 01 37.20 2.8
 1.0s 30.00nm 5.1mb
 CHG 32.51 302 eP 01 50.00 -0.1
 CHTO 32.51 302 P 01 49.80 -0.3
 e 01 57.10 25km
 FORR 32.99 179 eP 01 52.80 -1.2
 MRWA 33.28 199 eP 01 56.10 -0.5
 COOL 33.59 190 eP 01 58.00 -1.4
 BAL 34.36 197 eP 02 05.40 -0.6
 KLB 35.01 195 iPd 02 10.90 -0.6
 MUN 35.79 197 eP 02 17.50 -0.7
 XAN 36.06 333 Pc 02 19.70 -0.8
 0.8s 15.00nm 5.0mb
 NWA0 36.41 195 eP 02 23.00 -0.4
 STK 36.51 160 iPc 02 26.10 1.9
 0.6s 14.00nm 5.0mb
 TIY 37.88 340 eP 02 35.50 -0.2
 RKG 38.03 194 eP 02 37.70 0.8
 BJI 38.95 346 eP 02 43.00 -1.6
 1.0s 10.00nm 4.5mb
 SNY 39.49 355 Pd 02 47.20 -1.9
 1.0s 17.00nm 4.7mb
 LZH 40.16 330 Pc 02 56.00 1.1
 1.5s 48.00nm 5.0mb
 pP 03 02.50 22km
 GTA 44.75 329 P 03 32.40 0.1
 0.9s 15.00nm 4.9mb
 GUN 47.27 307 P 03 52.40 -0.3
 0.4s 9.00nm 5.2mb
 PKI 47.51 306 P 03 54.60 0.1
 KKN 47.70 306 P 03 55.80 -0.1
 DMN 47.77 306 P 03 56.60 0.1
 GKN 48.31 306 P 04 00.60 0.0
 HYB 50.43 291 eP 04 18.30 1.4
 WMO 54.38 325 iPc 04 46.00 0.0
 0.9s 18.00nm 5.1mb
 pP 04 54.00 26km
 sP 05 00.80
 QUE 63.64 303 eP 05 51.60 0.8

S.D. = 1.0 on 32 of 33 obs.

OCT 13, 1991 00h 57m 53.28±0.21s
 2.453 N ± 3.7km 127.727 E ± 5.1km
 DEPTH = 26.5km (20 depth phases)
 5.6mb (38 obs.) 5.5msz (14 obs.)
 NORTHERN MOLUCCA SEA (266)
 Mo=3.0×10¹⁸ Nm (PPT).
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 27S, 68C

Centroid Location:
 Origin Time 00:57:59.5 0.4
 Lat 3.04N 0.03 Lon 127.82E 0.03
 Dep 15.0 FIX Half-duration 3.3
 Moment Tensor; Scale 10¹⁷ Nm
 Mrr= 0.12 0.21 Mtt=-6.04 0.22
 Mff= 5.92 0.30 Mrt= 0.00 0.00
 Mrf= 0.00 0.00 Mti=-4.61 0.20
 Principal Axes:
 T Val= 7.49 Plg= 0 Azm=251
 N 0.12 90 180
 P -7.61 0 161
 Best Double Couple: Mo=7.6×10¹⁷
 NP1: Strike=296 Dip=90 Slip=-180
 NP2: 26 90 0

DAV 5.08 335 ePc+ 59 10.50 0.8
 AAI 6.12 176 eP 59 28.10 3.8X
 eS 00 47.00
 TSM 10.01 281 ePd 00 19.00 0.5
 MKS 11.23 227 ePd 00 35.80 0.6
 KKM 12.02 288 ePd 00 50.50 4.5X
 QCP 13.77 332 eP 01 11.00 1.8
 BAG 15.55 334 ePd- 01 31.00 -1.7
 eS 04 20.00
 MTN 15.57 168 eP 01 31.00 -1.8
 e 01 38.00
 e 01 45.00
 KHKI 16.17 228 ePc 01 40.90 0.4
 e 09 55.10
 MNDI 18.06 118 eP 02 13.00 8.6X
 KNA 18.11 177 eP 02 05.00 0.2
 TRT 18.12 236 iPc 02 06.30 1.3
 1.0s 300.60nm 5.4mb
 GUMO 20.24 56 eP 02 28.70 -0.7
 PJG 20.24 56 eP 02 29.00 -0.4
 GUA 20.25 56 eP 02 28.90 -0.6
 1.0s 240.00nm 5.5mb
 LAT 21.26 115 eP 02 38.90 -1.0
 PMG 22.66 122 eP 02 56.00 2.1
 TATO 23.19 345 (P) 02 58.50 -0.5
 HKC 23.72 327 eP 03 04.20 0.0
 QZH 24.03 339 iPd 03 07.00 -0.2
 1.0s 170.00nm 5.5mb
 Z 18s 23.30um 5.7msz
 N 17s 12.50um
 pP 03 16.00 32km
 S 07 19.00
 SS 08 10.00
 OIZ 24.04 315 P 03 06.50 -0.8
 N 16s 12.30um
 E 16s 7.12um
 KGM 24.39 269 ePc 03 14.30 3.5X
 MBL 24.71 198 eP 03 13.00 -0.8
 0.6s 39.00nm 5.2mb
 GZH 24.80 327 Pd 03 15.40 0.8
 1.6s 340.00nm 5.7mb
 Z 20s 13.50um 5.4msz
 N 12s 1.70um
 E 15s 8.61um
 S 07 35.00
 ASPA 26.65 167 iPd 03 31.90 0.0
 0.6s 49.60nm 5.3mb
 eS 08 17.60
 IPM 26.73 275 ePd 03 32.50 -0.3
 WARB 28.49 182 eP 03 48.00 -0.6
 CTA0 28.85 142 iPc 03 53.00 1.1
 1.0s 285.00nm 5.9mb
 i 03 59.00 21km
 i 04 12.50
 iS 08 48.00
 SSE 29.15 348 Pd 03 54.00 -0.5
 1.0s 27.00nm 4.9mb
 Z 20s 8.70um 5.4msz
 N 11s 3.10um
 E 11s 7.70um
 S 08 40.00
 sS 08 54.00
 LOE 29.54 302 eP 03 57.50 -0.7
 NST 30.19 297 eP 04 06.00 2.0
 NJ2 30.60 345 Pd 04 07.50 0.1
 1.4s 87.00nm 5.4mb
 Z 19s 3.24um 5.0msz
 N 11s 2.66um
 E 11s 5.31um
 S 09 00.00
 WHN 30.68 337 Pd 04 12.00 4.0X

	1.0s	160.00nm		5.8mb	SNY	39.38	355 iPd	05 21.50	-0.8			e	08 00.00		
Z	26s	13.20um		5.5MsZ		1.0s	79.00nm		5.4mb			ePP	09 12.00		
N	13s	2.68um				Z	20s	7.55um		5.5MsZ		eS	14 42.00		
E	14s	5.64um				E	12s	3.94um				e	14 54.00		
KHT	31.25	295 eP	04 12.80	-0.5				pP	05 31.30	33km		e	15 31.00		
GVA	31.28	322 iPd	04 14.00	0.4				sP	05 34.10			eSS	18 36.00		
	1.0s	120.00nm		5.7mb				iS	11 21.10		WMO	54.33	325 iPd	07 20.50 0.5	
N	15s	6.40um			LZH	40.10	329 iPd	05 30.00	1.3		Z	1.0s	86.00nm	5.7mb	
E	15s	5.19um				2.0s	280.00nm		5.7mb		N	30s	8.76um	5.6MsZ	
		S	09 19.00			Z	27s	20.60um	5.8MsZ			14s	4.31um		
		sS	09 33.00			E	22s	14.10um					PcP	08 22.00	
		ScP	10 49.00					pP	05 37.00	24km			PP	09 27.00	
BDT	31.81	299 eP	04 16.20	-2.0				PP	07 03.50				S	14 56.00	
	1.0s	55.90nm		5.4mb				S	11 26.00		NDI	54.65	304 iP	07 21.00 -1.5	
CHG	32.53	302 ePd	04 24.50	-0.1				sS	11 48.00				eS	14 55.00	
	1.1s	43.67nm		5.3mb	COO	40.13	147 eP	05 26.00	-2.8		POO	55.09	291 iPc	07 28.60 2.7	
		eS	09 36.00				i	05 34.20	28km				iS	15 08.00	
OLP	32.98	152 e(P)	04 27.00	-1.3			i	06 07.50			BOM	56.12	291 eP	07 31.70 -1.5	
		i	04 35.00	28km	HHC	40.92	341 P	05 35.80	0.6				eS	15 19.70	
KMI	32.98	315 Pd	04 28.00	-0.6							KSH	59.61	315 P	07 58.00 0.4	
Z	20s	7.50um		5.4MsZ		N	0.9s	50.00nm			N	16s	4.81um		
N	15s	2.40um				E	11s	3.35um			E	14s	3.74um		
E	15s	2.90um						1.44um					S	16 09.00	
		pP	04 40.00	45kmX	BTO	41.21	339 iPc	05 37.50	-0.1		QUE	63.67	303 eP	08 21.50 -3.6X	
		S	09 40.00			0.8s	160.00nm		5.8mb				eS	17 03.00	
FORR	33.12	179 eP	04 26.80	-2.6		N	12s	3.70um			ADK	67.46	34 eP	08 47.50 -1.3	
	0.3s	20.00nm		5.5mb		E	12s	2.01um			DRV	69.52	175 e(P)	09 07.40 6.1X	
MRWA	33.44	199 eP	04 31.00	-1.2				pP	05 48.50	39kmX	CSY	69.69	187 iPc	09 11.40 9.1X	
COOL	33.74	190 eP	04 33.00	-1.9				ePP	07 15.00				0.7s	43.30nm	5.7mb
HNR	34.20	111 eP	04 42.00	2.9				S	11 47.00		MAIO	71.07	308 iPd-	09 12.00 0.5	
BAL	34.51	197 eP	04 40.00	-1.5				sS	12 03.00				0.9s	27.71nm	5.4mb
TIA	34.99	345 Pd	04 45.40	-0.2				eSS	14 51.00						
	2.0s	310.00nm		5.9mb	CN2	41.22	357 eP	05 36.70	-0.8		SHI	75.93	300 e	09 40.00 -0.2	
Z	23s	5.42um		5.2MsZ		1.2s	35.00nm		5.0mb		SDN	77.68	34 e(P)	09 48.80 -0.2	
N	14s	4.62um				Z	15s	13.30um	5.9MsZ				e	09 55.90	23km
E	11s	3.93um				N	10s	2.29um							

INK	90.98	22	eP	10	55.00	-1.0	SSE	21.85	347	Pd	51	05.50	1.7	TACH	0.66	352	eP	54	46.50	-0.2
PRNI	91.13	300	eP	11	03.60	6.1X		1.0s	25.00nm			4.6mb					iS	54	59.00	
KEV	91.42	340	eP	10	58.00	0.0			pP	51	09.50	14kmX		PCH	0.73	21	iPd	54	47.20	-0.3
			e	11	07.00	28km	IPM	25.97	260	ePd	51	45.00	1.2				iS	55	00.90	
SOD	92.02	338	iP	11	03.00	2.2	CHTO	28.32	292	P	52	03.80	-1.4	PEL	1.16	6	iPc	54	52.90	0.3
BBTK	92.26	310	eP	11	04.00	1.4	BJI	31.59	344	eP	52	43.00	9.0X				eS	55	09.00	
MBC	92.97	13	eP	11	05.00	0.0	QIS	32.68	157	iPd	52	42.30	-1.5		S.D. = 0.4 on 5 of 5 obs.					
	1.1s				16.00nm	5.4mb		0.5s	11.00nm			5.0mb								
NUR	94.30	331	eP	11	21.00	9.7X	ASPA	33.95	168	iPd	52	55.00	0.2	% OCT 13, 1991 04h 33m 27.45± 0.36s						
VRI	95.90	316	ePc	11	20.00	0.9		0.7s	3.90nm			4.4mb		39.562 N ± 3.2km 28.852 E ± 3.9km						
MLR	96.51	316	eP	11	21.00	-1.0	PKI	42.69	300	P	54	00.00	-8.3X	DEPTH = 10.0km (geophysicist)						
			e	14	43.00		STK	43.78	162	iPc	54	18.10	1.6	TURKEY						(366)
CMP	97.17	316	ePd	11	38.00	13.1X		0.4s	1.70nm			4.2mb								
DAG	98.66	353	ePc	11	31.00	0.1	HYB	47.31	285	eP	54	45.30	0.4	IZI	0.91	31	iPg	33	44.60	-0.3
KRA	99.45	322	eP	11	45.50	10.5X	MAIO	65.94	305	eP	56	57.00	-0.6				iSg	33	57.90	
HFS	99.60	332	eP	11	32.50	-3.0	SOD	84.93	338	eP	58	45.00	0.1	YLV	1.08	22	iPg	33	48.00	0.2
	0.6s		1.00nm			4.5mb X	KAF	86.28	332	eP	58	52.20	0.5				eSg	34	03.00	
NB2	100.37	334	Pdiff	11	36.80	-2.2		0.5s	5.10nm			5.0mb		EDC	1.09	316	iPg	33	47.50	-0.5
	0.9s		6.20nm			5.1mb	NUR	87.46	331	eP	58	57.70	0.3	ALT	1.10	117	iPg	33	47.50	-0.7
KSP	101.45	323	ePdiff	11	53.80	9.8X		0.4s	4.70nm			5.1mb		GPA	1.34	57	iPn	33	52.40	0.3
			e	16	00.00		HFS	92.70	333	ePKP	59	21.40	-0.6	KHL	1.34	157	iPn	33	52.50	0.2
ZST	101.76	320	ePdiff	11	43.40	-2.0		0.5s	2.50nm			4.9mb		HRT	1.40	26	iPn	33	53.40	0.3
			e	16	00.80		NB2	93.41	334	P	59	23.50	-1.8	ISK	1.51	6	ePn	33	54.50	0.0
PNT	102.69	38	ePdiff	11	55.00	5.4X		0.8s	2.90nm			4.8mb		CTT	1.62	349	iPn	33	55.90	-0.2
PRU	102.79	323	ePdiff	12	01.50	11.5X		S.D. = 1.2 on 13 of 15 obs.						IZM	1.70	227	ePn	33	57.50	0.2
			e	12	17.50		% OCT 13, 1991 03h 31m 50.60± 0.54s						MFT	1.72	316	ePn	33	57.40	-0.2	
BRG	102.85	324	ePdiff	11	57.10	6.9X		40.809 N ± 4.4km 22.920 E ± 4.7km					EZN	1.97	278	iPn	34	01.10	0.0	
	1.6s		26.00nm			5.7mb	DEPTH = 10.0km (geophysicist)					DMK	2.41	340	ePn	34	08.00	0.5		
KHC	103.68	322	ePdiff	12	01.50	7.5X	GREECE						YER	2.46	191	ePn	34	08.50	0.1	
			e	12	17.50		MD 2.1 (THE).						BBTK	3.03	83	eP	34	24.00	7.6X	
WTTA	105.55	321	e(PKP)	16	18.00	2.0								S.D. = 0.4 on 14 of 15 obs.						
	1.2s		18.60nm				THE	0.18	169	iPg	31	54.94	0.3	% OCT 13, 1991 04h 43m 50.00± 1.03s						
			i	16	28.80		SOH	0.33	88	ePg	31	57.82	0.3	39.541 N ± 10.2km 21.151 E ± 7.8km						
GSC	109.08	51	ePKP	16	30.00	7.0X								DEPTH = 10.0km (geophysicist)						
FFC	109.89	28	ePKP	16	33.00	9.3X	KNT	0.35	357	ePg	31	58.02	0.1	GREECE						(364)
	1.1s		19.00nm											MD 2.2 (THE).						
ALO	117.13	48	ePKP	16	39.00	0.5	GRG	0.42	291	ePg	31	59.22	0.0							
Z 20s			1.60um			5.6Msz								IGT	0.63	270	ePg	44	02.66	-0.1
MEO	122.95	45	e(PKP)	16	42.00	-7.3X											eSg	44	13.21	
TUL	124.29	43	ePKP	16	58.90	7.0X	SRS	0.60	59	ePg	32	02.30	-0.3	AGG	1.05	119	iPg	44	10.09	0.2
	1.4s		37.30nm				LIT	0.78	205	iPg	32	05.58	-0.2				eSg	44	25.52	
Z 22s			2.08um			5.8Msz								LIT	1.17	61	ePg	44	11.10	-0.9
N 22s			1.03um				OUR	0.94	120	ePg	32	08.30	-0.2				eSg	44	27.31	
E 22s			1.26um				PAIG	1.05	146	iPg	32	10.42	-0.1	FNA	1.25	8	ePb	44	13.10	-0.3
			e	30	17.00												eSb	44	29.98	
			e	35	22.00													44	21.24	1.2
			LR	57	01.00										S.D. = 1.1 on 5 of 5 obs.					
VVO	124.64	43	ePKP	17	00.50	8.0X								% OCT 13, 1991 05h 18m 31.54± 0.89s						
TIO	125.82	311	iPKP	16	58.00	2.8	* OCT 13, 1991 03h 47m 37.36± 0.81s							39.575 N ± 8.8km 21.207 E ± 6.5km						
KIC	131.74	281	PKP	17	08.96	2.2	52.684 N ± 16.8km 150.961 E ± 14.0km							DEPTH = 10.0km (geophysicist)						
TIC	131.97	281	PKP	17	09.54	2.3	DEPTH = 33.0km (normal)							GREECE						(364)
LIC	132.05	281	PKP	17	09.66	2.3	4.6mb (7 obs.)							MD 2.5 (THE).						
Z 20s			0.34um			5.0Msz	NEAR EAST COAST OF KAMCHATKA							IGT	0.68	267	ePg	18	44.16	-0.8
LNV	143.92	152	ePKP	17	32.20	3.7X											eSg	18	53.54	
TACH	144.39	153	ePKP	17	28.00	-1.4	MAT	21.76	230	eP	52	28.00	0.2	AGG	1.03	122	iPg	18	51.69	0.6
PCH	144.61	153	ePKP	17	29.00	-0.9	FBA	29.20	44	P	53	37.30	-0.2				eSg	19	05.31	
ROCH	144.92	152	ePKP	17	29.50	-1.1	INK	34.61	37	eP	54	25.00	0.2	LIT	1.12	62	ePg	18	51.58	-1.0
PEL	144.93	153	iPKPd	17	30.00	-0.4											eSg	19	07.98	
CFA	147.33	154	e(PKP)	17	36.00	1.7	MBC	37.69	23	eP	54	52.00	1.3	FNA	1.21	6	ePb	18	53.92	-0.3
CUMC	154.18	83	ePKPc	17	47.75	2.1											iSb	19	10.58	
ANCC	154.71	77	ePKP	17	52.09	6.4X								OHR	1.57	349	ePn	19	01.50	2.0
HOOC	154.95	77	ePKPc	17	47.34	1.0	NB2	63.74	343	P	58	06.00	-1.6	PAIG	1.94	79	ePb	19	05.44	0.6
HOBC	155.21	74	ePKP	17	53.30	6.8X								KNT	2.05	39	ePn	19	05.44	-1.0
ARE	156.52	128	ePKP	17	57.00	8.6X	HFS	64.12	342	eP	58	08.80	-1.3	SOH	2.06	52	ePn	19	06.88	0.2
CNCB	158.97	134	PKP	17	54.00	2.4								OUR	2.26	70	iPn	19	09.46	-0.1
			i	18	02.00									SRS	2.39	49	ePn	19	11.01	-0.3
LPB	159.07	133	PKP	18	02.00	10.5X	ANMO	65.64	64	P	58	20.20	-0.2	S.D. = 1.0 on 10 of 10 obs.						
Z 24s			1.55um			5.8MszX	ALO	65.65	64	eP	58	20.00	-0.5	* OCT 13, 1991 06h 12m 23.76± 0.41s						
	1.0s		11.25nm											2.422 N ± 7.8km 126.903 E ± 14.4km						
Z 22s			1.21um			5.7Msz								DEPTH = 33.0km (normal)						
			LR	14	28.00		WTS	73.10	342	eP	59	06.00	0.4	5.0mb (10 obs.)						
ZOBO	159.22	132	PKP	17	53.90	2.0								NORTHERN MOLUCCA SEA						(266)
	1.0s		11.25nm				GRF	74.40	339	eP	59	14.10	0.8							
	Z 22s		1.21um			5.7Msz								MTN	15.74	165	eP	16	04.50	-0.2
			LR	14	28.00									WR2	23.41	162	iPc	17	30.70	-0.1
PPD	160.52	183	ePKP	17	55.90	3.5X	ENN	74.44	343	eP	59	14.00	0.6							
BAO	166.24	198	e(PKP)	18	05.00	6.9X											0.4s	16.00nm		4.9mb
SOB1	166.85	239	ePKP	18	01.80	3.3X	MEM	74.58	343	Pc	59	14.50	0.3	QIZ	23.48	316	P	17	32.40	0.9
			e	18	07.00									GZH	24.39	328	eP	17	41.90	1.6
			e	19	14.00									QIS	26.01	152	eP	17	56.10	0.4
S.D. = 1.3 on 132 of 172 obs.																0.2s	12.00nm		5.1mb	
														ASPA	26.81	166	iPd	18	02.50	-0.6
																	0.5s	6.50nm		4.5mb
* OCT 13, 1991 01h 46m 12.18± 0.68s																				
9.746 N ± 12.8km 126.690 E ± 18.3km																				
DEPTH = 33.0km (normal)																				
4.8mb (8 obs.)																				
MINDANAO, PHILIPPINE ISLANDS (259)																				

13d 06h

WARB	28.44	180	eS	22	46.50	
SSE	29.03	350	eP	18	18.00	0.2
WHN	30.39	338	ePd	18	20.00	-3.0
GYA	30.80	323	P	18	40.20	5.0X
	1.0s	100.00nm		18	40.40	1.4
CHG	31.85	303	ePd	18	48.20	5.6mb
FORR	33.11	178	eP	18	58.00	0.0
MAT	35.52	16	eP	19	21.00	-0.9
XAN	35.66	334	P	19	20.70	1.3
CD2	35.80	325	eP	19	21.90	-0.2
STK	36.86	159	iPd	19	33.00	-0.3
	0.7s	5.20nm		19	33.00	2.0
		iPcP	22	16.70	4.5mb	
TIY	37.55	341	eP	19	37.80	1.0
BJI	38.69	347	eP	19	49.00	2.7X
	1.5s	70.00nm		19	55.60	5.2mb
LZH	39.71	330	Pd	19	55.60	0.5
	1.5s	54.00nm		20	01.40	5.1mb
COO	40.56	146	iPd	20	01.40	-0.5
HHC	40.69	342	P	20	04.00	1.1
MDJ	42.08	3	eP	20	12.00	-2.2
	1.0s	41.00nm		20	33.20	5.1mb
GTA	44.30	330	eP	20	33.20	0.7
	1.0s	20.00nm		20	51.20	4.9mb
GUN	46.64	307	P	20	51.20	-0.3
PKI	46.87	306	P	20	52.60	-0.7
KKN	47.07	307	P	20	54.20	-0.6
DMN	47.13	306	P	20	54.80	-0.5
GKN	47.67	306	P	20	58.80	-0.7
WMQ	53.89	326	P	21	46.00	-0.2
QUE	62.99	303	eP	22	50.00	-0.2
MAIO	70.44	308	eP	23	20.00	-17.2X
IMA	83.50	24	eP	24	53.90	4.4X
	1.1s	11.80nm		25	15.00	4.9mb
OBN	88.21	325	eP	25	15.00	2.3X
	1.2s	*****nm				8.5mb X

S.D. = 1.1 on 28 of 33 obs.

* OCT 13, 1991 07h 28m 27.53±1.27s
27.866 N ±12.6km 51.748 E ±14.4km
DEPTH = 33.0km (normal)
4.3mb (2 obs.)

PERSIAN GULF (352)

SHI	1.90	21	iPc	28	59.00	0.6
			eS	29	30.00	
DHR	2.12	223	eP	29	11.00	9.7X
			iS	30	02.00	
RYD	5.57	237	ePd	29	50.00	-0.4
			iS	30	56.00	
MJMA	6.11	252	ePd	29	59.00	1.1
			eS	31	16.00	
QASM	7.54	258	eP	30	19.00	1.0
			eS	31	43.00	
IR1	7.58	353	eP	30	20.00	1.4
IR7	7.87	353	eP	30	23.50	0.8
AFIF	8.57	246	ePd	30	36.00	3.6X
			eS	32	04.00	
UOSK	8.64	258	ePd	30	34.00	0.7
			eS	31	50.00	
MAIO	10.67	36	eP	31	01.00	-0.2
MSL	11.18	322	eP	31	05.50	-2.7
QUE	13.50	77	eP	31	28.50	-10.9X
POO	22.31	110	eP	33	28.50	4.7X
PRU	35.88	318	eP	35	29.50	3.3X
KHC	36.12	316	eP	35	29.50	1.2
NUR	37.44	338	eP	35	39.00	-0.1
UPP	39.53	334	iP	35	56.30	-0.3
HFS	41.28	332	eP	36	10.70	-0.4
	0.4s	2.90nm		36	23.00	4.4mb
NB2	42.81	332	P	36	23.00	-0.6
	0.7s	3.30nm		38	16.10	4.2mb
TIC	57.63	260	P	38	16.10	-1.0
LIC	57.84	259	P	38	17.60	-1.0

S.D. = 1.1 on 16 of 21 obs.

OCT 13, 1991 07h 46m 29.80±0.80s
39.877 N ±5.7km 22.366 E ±5.9km
DEPTH = 11.1 ± 5.3 km

GREECE (364)

LIT	0.24	23	ePg	46	35.38	0.3
			eSg	46	40.14	
AGG	0.85	182	ePg	46	46.26	0.1
			eSg	46	58.04	
THE	0.88	31	ePg	46	46.98	0.4

PAIG	1.01	87	iPg	46	59.01	0.1
			iSg	47	03.06	
GRG	1.08	1	ePg	46	49.70	-0.3
			eSg	47	03.17	
FNA	1.18	320	ePg	46	50.86	-0.9
			eSg	47	07.12	
SOH	1.21	38	ePb	46	52.78	0.5
			eSb	47	08.98	
OUR	1.32	69	ePb	46	53.93	-0.1
			iSb	47	12.46	
KNT	1.35	17	ePb	46	54.14	-0.3
			eSb	47	12.78	
SRS	1.55	37	ePb	46	57.50	0.1
			eSb	47	18.82	
OHR	1.72	316	e(Pn)	47	01.80	2.0
SKO	2.21	342	ePn	47	06.50	-0.4
			eSg	47	40.00	

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

* OCT 13, 1991 07h 55m 50.65±0.93s
20.504 S ±8.3km 69.149 W ±13.0km
DEPTH = 115.9 ± 12.9 km
4.5mb (2 obs.)

NORTHERN CHILE (123)

ANT	3.40	200	eP	56	43.50	0.7
			iS	57	31.70	
CNCB	3.84	17	iPc	56	51.00	1.6
LPB	4.07	14	Pc	56	53.20	0.7
	1.1s	562.03nm		56	54.00	-0.2
CCH	4.21	43	P	56	56.20	0.2
ZOBO	4.32	13	iPc	56	56.50	-2.9
ARE	4.59	331	iPd	56	56.50	-2.9
			iS	57	58.20	
RTRS	9.63	182	e(P)	58	20.00	12.4X
CFA	11.09	176	e(P)	58	27.00	0.0
PPD	16.70	98	eP	59	39.50	0.5
			e	59	40.20	
			e	59	43.90	
VAO	20.75	101	(P)	00	22.00	-2.1
KIC	68.64	74	P	06	43.10	-0.7
GOL	68.78	331	P	06	45.70	1.3
	1.0s	9.00nm		08	39.50	0.9
YKA	90.18	341	eP	08	39.50	0.9
	0.8s	2.90nm				4.4mb

S.D. = 1.6 on 12 of 13 obs.

? OCT 13, 1991 09h 26m 27.84±1.37s
43.686 N ±11.1km 12.785 E ±12.6km
DEPTH = 10.0km (geophysicist)

CENTRAL ITALY (381)

ARV	0.22	148	P	26	32.90	0.3
			eSg	26	39.70	
RSM	0.34	315	P	26	34.70	-0.2
			eSg	26	42.40	
CRE	0.61	265	P	26	40.50	0.3
			eSg	26	54.40	
ASS	0.62	188	P	26	39.90	-0.5
			eSg	26	53.00	
SFI	0.72	290	P	26	41.30	-0.6
			eSg	26	54.80	
PGD	0.79	284	P	26	44.00	0.6
			eSn	26	57.50	

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

% OCT 13, 1991 11h 39m 02.08±0.74s
2.480 N ±8.6km 76.991 W ±16.1km
DEPTH = 90.0km (geophysicist)

COLOMBIA (103)

PURC	0.65	104	iPd	39	19.05	0.1
ANCC	1.04	7	iPc	39	22.80	0.3
			eS	39	39.00	
HOOC	1.04	20	iPd	39	22.80	-0.1
			eS	39	38.60	
CLMC	1.46	17	iPd	39	27.90	0.1
			eS	39	47.20	
BUGC	1.58	28	eP	39	28.80	-0.7
CUMC	1.75	210	iPc	39	31.90	-0.1
HOBC	2.05	25	eP	39	35.95	0.3
			eS	40	01.50	

S.D. = 0.4 on 7 of 7 obs.

? OCT 13, 1991 11h 45m 52.98±12.12s

32.149 S ±77.2km 72.017 W ±61.8km
DEPTH = 33.0km (normal)
OFF COAST OF CENTRAL CHILE (134)

ROCH	1.18	134	eP	46	12.50	-1.0
			iS	46	26.50	
JACH	1.32	114	iPc	46	15.50	0.2
LCCH	1.38	164	iP	46	15.50	-0.5
PEL	1.50	132	iPd	46	17.50	-0.4
			iS	46	34.10	
SAN	1.73	139	(P)	46	22.00	0.8
			iS	46	42.20	
TACH	1.75	149	iP	46	21.50	-0.1
			iS	46	41.50	
LNK	1.87	164	eP	46	23.60	0.4
			iS	46	46.40	
PCH	1.94	140	iPc	46	24.70	0.4
			iS	46	48.00	
CHCH	2.12	148	iPd	46	27.00	0.2
			iS	46	53.10	

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

* OCT 13, 1991 12h 55m 12.51±0.95s
17.499 N ±16.3km 95.660 W ±10.5km
DEPTH = 106.2 ± 11.1 km
3.9mb (3 obs.)

OAXACA, MEXICO (60)

OXX	1.10	248	iP	55	33.50	-1.5
			iS	55	50.00	
IISM	2.20	312	iP	55	49.50	1.0
			iS	56	13.00	
LVVM	2.35	342	iP	55	48.50	-1.9
			iS	56	15.50	
SCX	2.99	104	eP	56	00.00	1.0
			iS	56	34.00	
PPM	3.22	299	iP	56	04.00	1.3
			iS	56	36.50	
III	3.73	284	iP	56	09.00	-0.3
			iS	56	51.00	
TPX	4.16	128	(P)	56	20.00	5.0X
MRX	5.69	294	(P)	56	37.00	1.0
ALO	19.86	333	eP	59	37.70	-0.1
	1.0s	4.25nm				3.7mb
ANMO	19.87	333	P	59	37.90	0.1
	1.0s	5.50nm				3.9mb
GOL	23.68	341	P	00	16.70	1.1
	0.9s	7.58nm				4.1mb
LRM	31.51	337	eP	01	27.10	0.4
INK	56.11	344	eP	04	41.50	-1.2
MBC	60.05	354	eP	05	09.00	-1.0

S.D. = 1.3 on 13 of 14 obs.

* OCT 13, 1991 13h 44m 53.66±1.33s
4.691 S ±13.6km 129.422 E ±19.7km
DEPTH = 137.4 ± 12.1 km
4.8mb (6 obs.)

BANDA SEA (280)

AAI	1.58	309	ePc	45	24.60	1.1
			eS	45	47.10	
MTN	8.28	168	eP	46	51.00	-1.1
	0.3s	142.00nm				6.1mb X
			eS	48	19.00	
WR2	15.91	163	eP	48	28.50	-2.8
	0.2s	50.10nm				5.5mb
			i	48	32.50	
			eS	51	16.40	
QIS	18.62	149	iPc	49	01.70	-1.7
	0.5s	46.00nm				5.1mb
			eS	52	14.60	
MBL	18.83	209	eP	49	06.00	0.4
ASPA	19.35	168	iPc	49	10.80	-0.3
	0.4s	90.80nm				5.5mb
			eS	52	38.20	
WARB	21.54	187	eP	49	34.70	1.6
	0.3s	6.00nm				4.5mb
CTAO	22.42	134	iPc	49	42.50	0.8
	1.0s	20.00nm				4.5mb
FORR	26.05	183	eP	50	16.00	0.1
STK	29.36	159	iPc	50	47.80	2.0
	0.4s	3.90nm				4.5mb
ADE	31.33	165	iPc	51	03.50	0.4
BWA	34.44	152	eP	51	31.40	1.4
CAN	35.44	152	iPd	51	39.20	0.7
CHG	38.04	309	eP	52	02.00	1.5
GUN	53.02	310	P	53	58.56	-0.6

PKI 53.21 310 P 53 59.70 -0.8
 KKN 53.42 310 P 54 01.20 -0.7
 DMN 53.46 309 P 54 01.60 -0.6
 GKN 54.02 310 P 54 05.44 -0.8
 HYB 54.80 295 eP 54 11.00 -0.9
 S.D. = 1.3 on 20 of 20 obs.

% OCT 13, 1991 14h 15m 21.83±0.81s
 39.535 N ± 7.8km 21.188 E ± 5.8km
 DEPTH = 10.0km (geophysicist)

GREECE (364)

IGT 0.66 270 ePg 15 34.42 -0.6
 AGG 1.02 120 iPg 15 46.05
 LIT 1.15 60 ePg 15 41.89 0.7
 FNA 1.26 7 ePb 15 55.12
 OHR 1.60 349 ePn 15 42.00 -1.4
 GRG 1.70 33 ePb 15 58.84
 PAIG 1.96 78 ePb 15 45.69 0.5
 KNT 2.09 38 ePn 16 01.56
 SOH 2.10 52 ePn 15 51.00 0.7
 SRS 2.42 49 ePn 15 52.00 0.3
 S.D. = 0.7 on 10 of 10 obs.

& OCT 13, 1991 14h 23m 50.46s
 42.154 N 125.287 W
 DEPTH = 5.0km (geophysicist)
 OFF COAST OF OREGON (30)
 <SEA>.

DBO 1.79 57 P 24 15.33 -7.0
 HSO 2.12 49 Pd 24 19.78 -7.3
 LBFM 2.67 106 eP 24 27.00 -8.0
 HBO 2.76 51 P 24 29.73 -6.5
 VIPM 4.14 54 P 24 49.04 -6.8
 5 obs. associated

* OCT 13, 1991 14h 25m 40.77±1.07s
 38.345 N ± 9.1km 22.123 E ± 10.9km
 DEPTH = 5.0km (geophysicist)

GREECE (364)

ML 3.0 (ATH).

AGG 0.70 13 iPg 25 53.17 -1.5
 VLS 1.22 263 eSg 26 04.36
 ATH 1.31 106 ePn 26 01.20 -2.7
 VLI 1.75 158 ePb 26 09.50 4.0X
 LIT 1.78 9 ePb 26 12.90 1.0
 IGT 1.83 311 ePb 26 13.04 0.7
 KZN 1.98 352 ePn 26 15.88 2.7
 PAIG 1.99 37 ePb 26 16.50 1.2
 KEK 2.27 308 ePg 26 14.48 -0.9
 FNA 2.50 347 ePn 26 23.00 3.5X
 GRG 2.62 5 ePn 26 23.24 0.4
 SOH 2.65 21 ePn 26 24.28 -0.2
 KNT 2.88 12 ePn 26 23.64 -1.3
 OHR 2.95 340 ePn 26 28.68 0.6
 SRS 2.99 22 ePn 27 03.72
 SKO 3.66 352 ePn 26 33.80 4.7X
 S.D. = 1.6 on 12 of 16 obs.

? OCT 13, 1991 15h 25m 14.20±2.12s
 41.828 N ± 21.9km 11.875 E ± 12.3km
 DEPTH = 10.0km (geophysicist)

TYRRHENIAN SEA (389)

RMP 0.62 91 P 25 27.20 0.5
 RDP 0.63 96 P 25 34.70
 MAO 0.80 318 P 25 26.50 -0.5
 MNS 0.82 47 P 25 36.50
 S.D. = 0.7 on 4 of 4 obs.

? OCT 13, 1991 15h 33m 00.21±4.96s
 4.040 N ± 22.1km 77.040 W ± 39.3km
 DEPTH = 33.0km (normal)

NEAR WEST COAST OF COLOMBIA (102)
 MD 3.3 (UVC).

CLMC 0.50 108 eP 33 11.30 0.3
 ANCC 0.55 162 eP 33 11.90 0.3
 HOOC 0.70 144 iPc 33 13.40 -0.5
 BUGC 0.80 101 eP 33 22.70
 HOBC 0.96 71 eP 33 15.00 -0.1
 S.D. = 0.5 on 5 of 5 obs.

? OCT 13, 1991 15h 33m 06.49±2.20s
 34.014 S ± 14.9km 70.605 W ± 9.8km
 DEPTH = 10.0km (geophysicist)

CHILE-ARGENTINA BORDER REGION (127)
 MD 4.1 (SAN).

CHCH 0.09 334 iPc 33 10.20 1.1
 PCH 0.40 11 iPc 33 19.00
 TACH 0.45 322 iPc 33 14.10 -0.6
 SAN 0.56 355 iPc 33 26.70
 LNV 0.67 275 iPd 33 16.40 0.7
 PEL 0.87 356 iP 33 30.30 0.1
 LCCH 0.97 304 iP 33 18.00 0.1
 ROCH 1.09 342 eP 33 32.00 -0.2
 IHA 1.31 318 eP 33 49.50 8.8X
 JACH 1.33 0 iPd 33 39.50
 RTCB 2.94 32 iPc 33 30.00 -1.1
 S.D. = 0.8 on 10 of 11 obs.

OCT 13, 1991 15h 38m 23.34±1.46s
 27.789 N ± 9.0km 53.017 E ± 7.2km
 DEPTH = 21.8 ± 10.4 km
 4.7mb (6 obs.)

SOUTHERN IRAN (353)

SHI 1.90 347 iPc 38 57.50 2.4
 DHR 2.96 241 ePc 39 24.00 14.0X
 RYD 6.51 243 ePc 40 10.00
 MJMA 7.17 256 ePc 40 07.00 6.6X
 IR4 7.64 347 eP 41 15.00
 IR5 7.69 345 eP 40 11.00 1.4
 IR1 7.86 346 eP 41 30.00
 IR7 8.15 346 eP 40 16.10 -0.2
 QASM 8.63 261 eP 40 14.00 -2.9
 AFIF 9.58 250 ePd 40 20.00 0.7
 MAIO 10.11 31 eP 40 24.20 0.8
 OUE 12.43 76 eP 40 28.00 -2.0
 HYB 25.69 108 eP 42 00.00 4.8X
 NUR 37.93 338 eP 42 35.00
 KAF 38.61 340 eP 40 50.00 -0.4
 HFS 41.88 332 eP 41 21.80 -0.3
 Z 0.4s 5.90nm 4.9mb
 SOD 42.71 345 eP 45 46.10 -0.2
 CHG 42.91 92 ePc 46 13.00 -0.3
 NB2 43.40 332 P 46 59.00
 LZH 43.51 66 Pc 46 21.00 1.0
 TIC 58.72 260 P 46 23.00 0.7
 LIC 58.93 260 P 46 25.00 -0.8
 WR2 91.83 111 eP 46 26.60 -0.6
 S.D. = 1.3 on 20 of 23 obs.

* OCT 13, 1991 16h 07m 34.05±0.48s

31.863 S ± 10.1km 70.362 W ± 10.4km
 DEPTH = 132.1 ± 7.9 km
 4.7mb (2 obs.)

CHILE-ARGENTINA BORDER REGION (127)
 Felt (III) at Salamanca and (II)
 at Santiago, Chile.

JACH 0.84 193 iPd 07 55.70 -0.4
 ROCH 1.23 206 iPd 08 12.00
 PEL 1.31 192 iPd 07 59.70 -0.3
 ZON 1.47 78 iPc 08 18.90
 IHA 1.59 223 iPc 08 00.60 0.0
 SAN 1.61 189 iPd 08 03.70 1.3
 PCH 1.76 184 iPd 08 02.60 -1.0
 TACH 1.85 195 iPd 08 24.40
 LCCH 1.90 212 iP 08 04.20 0.3
 CHCH 2.08 187 iPd 08 26.70
 LNV 2.27 203 iPd 08 06.50 0.8
 CCH 14.92 16 eP 08 30.80 0.1
 CNCB 15.14 9 P 08 06.90
 LPB 15.40 8 P 08 31.80
 PPD 19.58 65 eP 08 07.00 -0.4
 BAO 26.00 57 iPc 08 10.00 0.4
 TUL 71.51 338 eP 08 37.10
 ANMO 74.62 330 P 08 11.50 -0.3
 GOL 78.26 333 P 11 03.00 3.3X
 WR2 123.29 208 ePKP 11 02.20 -0.6
 S.D. = 0.9 on 18 of 20 obs.

% OCT 13, 1991 16h 27m 03.62±0.94s
 37.340 N ± 6.0km 2.381 W ± 9.5km
 DEPTH = 10.0km (geophysicist)

SPAIN (377)
 mbLg 2.7 (MDD).

ENIJ 0.39 159 eP 27 11.50 -0.2
 EHUE 0.50 341 ePg 27 17.00
 ECOG 0.95 267 ePg 27 12.80 -1.0
 EGUA 1.07 242 ePg 27 19.00
 EVIA 1.30 356 ePn 27 21.50 -0.2
 EBAN 1.38 307 iPn 27 24.00 0.2
 S.D. = 0.8 on 6 of 6 obs.

% OCT 13, 1991 17h 21m 37.75±0.66s
 40.329 N ± 5.3km 21.244 E ± 6.2km
 DEPTH = 5.0km (geophysicist)

GREECE (364)

FNA 0.46 12 iPg 21 47.14 0.1
 OHR 0.85 337 iPg 21 55.66
 LIT 0.98 103 ePg 21 54.20 -0.5
 IGT 1.06 222 ePg 22 08.90
 GRG 1.08 54 ePg 21 55.82 -1.0
 KNT 1.51 56 ePb 22 10.41
 AGG 1.55 147 ePb 22 15.62
 SOH 1.68 72 ePb 22 13.70 0.3
 PAIG 1.91 101 ePb 22 25.85
 S.D. = 0.7 on 9 of 9 obs.

* OCT 13, 1991 17h 41m 36.08±1.49s
 37.999 N ± 10.7km 21.378 E ± 13.9km
 DEPTH = 33.0km (normal)

SOUTHERN GREECE (368)

AGG 1.27 36 ePb 41 59.89 2.3
 IGT 1.74 332 ePb 42 13.46
 S.D. = 0.7 on 4 of 4 obs.

13d 17h

VLI 1.78 135 ePb 42 04.80 -0.3
 KEK 2.11 325 ePn 42 14.00 4.3X
 LIT 2.27 22 ePn 42 11.89 -0.1
 KZN 2.32 7 ePn 42 13.80 0.9
 PAIG 2.63 42 ePn 42 16.82 -0.3
 FNA 2.78 360 ePn 42 18.26 -1.0
 GRG 3.06 15 ePn 42 22.33 -0.9
 OUR 3.09 40 ePn 42 23.57 0.0
 OHR 3.14 352 ePn 42 22.70 -1.7
 SOH 3.21 28 ePn 42 25.42 0.1
 KNT 3.37 20 ePn 42 27.42 -0.2
 SRS 3.55 28 ePn 42 29.85 -0.4
 S.D. = 1.2 on 13 of 14 obs.

& OCT 13, 1991 17h 43m 45.31s
 61.816 N 154.118 W
 DEPTH = 0.0km
 SOUTHERN ALASKA (2)
 <AEIC>. ML 2.6 (AEIC).

BGL 1.00 123 iP 44 04.01 -1.2
 SVW 1.01 226 eP 44 02.91 -2.5
 NCG 1.02 113 eP 44 04.48 -1.2
 CKL 1.06 125 eP 44 05.18 -1.0
 CRP 1.09 120 eP 44 05.91 -0.9
 CGLM 1.13 116 iP 44 06.44 -1.1
 SPV 1.18 122 eP 44 07.42 -0.8
 SKT 1.24 81 iP 44 07.87 -1.4
 TTA 1.42 323 eP 44 08.15 -4.3
 RDN 1.46 153 eP 44 12.33 -0.8
 RDT 1.50 146 eP 44 12.58 -1.0
 REF 1.50 152 eP 44 13.10 -0.6
 RS2 1.51 153 eP 44 13.58 -0.3
 RSO 1.51 153 eP 44 13.44 -0.5
 RS1 1.51 154 eP 44 13.51 -0.4
 RED 1.55 154 eP 44 13.89 -0.4
 SUA 1.65 101 eP 44 15.28 -0.5
 INW 1.82 164 eP 44 18.57 0.3
 INE 1.84 163 eP 44 18.62 0.1
 PWA 2.02 93 eP 44 18.40 -2.7
 PDB 2.04 181 eP 44 19.63 -1.6
 KTH 2.28 39 eP 44 23.94 -1.0
 SLKM 2.30 123 eP 44 24.34 -0.8
 PLRM 2.39 93 eP 44 25.28 -1.0
 TRF 2.41 45 eP 44 27.76 0.9
 KNK 2.74 96 eP 44 30.26 -1.1
 26 obs. associated

* OCT 13, 1991 18h 12m 20.33±0.26s
 56.097 S ± 9.7km 122.633 W ± 8.6km
 DEPTH = 10.0km (geophysicist)
 5.2mb (12 obs.) 6.2Msz (26 obs.)
 SOUTHERN EAST PACIFIC RISE (684)
 Ms 6.3 (BRK). Mo=5.0*10**18 Nm
 (PPT).
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 27S, 70C M.W.: 21S, 38C
 Centroid Location:
 Origin Time 18:12:29.0 0.1
 Lat 55.81S 0.01 Lon 123.21W 0.02
 Dep 15.0 FIX Half-duration 5.4
 Moment Tensor: Scale 10**18 Nm
 Mrr=-0.02 0.03 Mtt=1.76 0.03
 Mff=-1.74 0.03 Mrt=-0.61 0.09
 Mrr=0.12 0.09 Mtf=2.33 0.03
 Principal Axes:
 T Vol= 3.00 Plg= 9 Azm=154
 N -0.05 78 295
 P -2.95 7 63
 Best Double Couple: Mo=3.0*10**18
 NP1: Strike=198 Dip=78 Slip= 179
 NP2: 289 89 12

AIA 28.96 132 eP 18 27.00 5.7X
 SBA 31.91 202 ePc 18 51.10 3.6X
 LNV 41.22 80 eP 20 06.00 -0.6
 LCCH 41.49 79 eP 20 12.00 3.2X

PEL 42.23 79 eP 20 16.00 1.1
 SNA 46.89 156 iPd 20 52.10 0.3
 0.9s 67.23nm 5.7mb
 NVL 49.36 162 ePc 21 11.00 0.0
 e 21 27.00
 e 21 51.00
 ePcP 22 24.00
 e 22 50.00
 ePP 23 10.00
 ePPP 23 55.00
 ANT 49.77 72 eP 21 06.00 -8.8X
 ARE 55.21 65 eP 21 54.00 -1.9
 NNA 56.41 57 eP 22 02.00 -2.2
 1.2s 29.69nm 5.2mb
 MAW 56.55 183 P 22 05.20 0.7
 CNCB 56.73 69 P 22 07.50 0.4
 LPB 56.90 69 P 22 07.00 -1.2
 1.5s 266.67nm 6.0mb
 CNB 60.49 250 eP 22 33.00 0.4
 CAN 60.68 250 eP 22 35.00 1.2
 TOO 60.77 246 e(P) 22 32.00 -2.4
 DZM 61.36 273 iPd 22 34.80 -3.8X
 PPD 61.61 88 eP 22 38.40 -1.9
 e 22 46.00
 BWA 61.67 250 eP 22 36.20 -4.4X
 VAO 63.28 92 eP 22 50.90 -0.5
 e 22 57.20
 BRS 64.79 258 e(P) 23 03.00 1.8
 i 31 00.00
 i 35 02.00
 CMS 65.32 250 ePd 23 03.80 -0.7
 STK 67.21 247 iPd 23 16.70 0.1
 0.7s 4.00nm 4.7mb
 eS 32 20.70
 CUMC 67.41 50 eP 23 19.00 0.4
 RMO 67.69 256 eP 23 28.00 8.3X
 PURC 69.29 51 eP 23 28.89 -1.3
 ANCC 70.14 49 ePc 23 34.51 -0.3
 HOOC 70.20 50 eP 23 36.14 0.7
 CLMC 70.60 50 eP 23 36.95 -0.9
 BOG 72.34 52 eP 23 50.00 1.5
 iS 33 18.00
 FUD 73.24 52 eP 23 47.50 -6.2X
 CTAO 74.18 258 iPd 23 57.30 -1.5
 1.0s 25.00nm 5.2mb
 iS 33 18.00
 OIS 77.40 252 eP 24 14.30 -2.7
 0.9s 26.00nm 5.3mb
 CRZF 77.74 176 ePd 24 22.00 3.5X
 ePP 26 52.00
 eS 34 17.00
 eSS 38 37.00
 SOB1 77.81 88 eP 24 20.90 1.5
 ASPA 77.82 246 iPd 24 15.30 -4.1X
 1.1s 19.00nm 5.1mb
 Z 23s 18.20um 6.3MszX
 eS 34 11.40
 MUN 79.04 228 eP 24 26.00 0.1
 WR2 80.66 248 eP 24 28.50 -6.2X
 1.0s 8.20nm 4.7mb
 i 24 41.20
 PMG 82.39 265 e(P) 24 40.00 -3.8X
 HON 82.72 327 (P) 24 55.00 9.8X
 Z 20s 9.80um 6.2Msz
 BAR 88.57 5 eP 25 14.00 0.0
 GLA 89.04 7 eP 25 18.00 1.7
 PLM 89.23 5 eP 25 18.00 0.7
 HVD 89.47 153 eP 25 15.50 -3.3X
 PEC 89.75 5 eP 25 18.80 -0.8
 PAS 89.97 4 eP 25 25.00 4.5X
 ePPS 38 15.00
 eSS 42 20.00
 eSSS 45 58.00
 eLR 53 30.00
 MWC 90.05 4 eP 25 22.00 0.9
 FRS 90.24 153 e(P) 25 17.50 -4.7X
 SYP 90.29 2 eP 25 24.00 1.8
 SBB 90.52 4 eP 25 24.00 0.9
 BLF 91.07 153 eP 25 38.20 11.9X
 GSC 91.17 5 eP 25 27.00 0.8
 ISA 91.47 3 eP 25 28.00 0.5
 CLC 91.65 4 eP 25 30.00 1.7
 ALO 91.72 13 eP 25 27.00 -1.9
 1.0s 11.75nm 5.2mb
 Z 21s 4.66um 5.9Msz
 ANMO 91.73 13 eP 25 27.30 -1.6
 1.0s 12.50nm 5.2mb

Z 18s 2.99um 5.8Msz
 PRI 91.89 2 ePc 25 31.90 2.4X
 SEK 92.18 154 e(P) 25 32.50 1.1
 MEO 92.82 20 iPd 25 32.50 -1.2
 MHC 93.08 1 eP 25 37.30 2.4X
 BRK 93.60 0 e(P) 25 39.00 1.9
 Z 20s 12.00um 6.4Msz
 e 35 10.00
 eS 36 51.00
 eSS 43 08.00
 eLR 55 49.00
 CMB 93.78 2 ePc 25 36.50 -1.6
 VVO 93.91 22 (PKP) 25 38.20 -0.5
 SIO 94.19 21 (PKP) 25 41.00 1.1
 TUL 94.46 22 ePKP 25 38.60 -2.5
 1.4s 14.80nm 5.2mb
 Z 20s 2.00um 5.6Msz
 eSKS 37 04.00
 e 43 27.00
 LR 52 36.00
 WIN 94.54 143 iPd 25 38.50 -3.9X
 1.0s 20.00nm 5.5mb
 Z 20s 21.28um 6.6Msz
 SLR 94.82 154 eP 25 47.00 3.4X
 Z 18s 24.74um 6.7Msz
 WDC 96.31 0 eP 25 50.80 1.3
 GOL 96.55 13 (P) 26 00.00 9.0X
 Z 18s 5.20um 6.1Msz
 GLD 96.62 13 (P) 26 00.00 8.8X
 Z 18s 5.52um 6.1Msz
 RSSD 101.07 14 ePd diff 26 12.00 0.6
 Z 18s 7.74um 6.3Msz
 SIT 113.26 352 (PKP) 31 10.00 11.6X
 Z 18s 9.52um 6.4Msz
 SDN 115.28 337 (PKP) 31 10.00 7.7X
 Z 20s 10.00um 6.4Msz
 PMR 119.18 346 (PKP) 31 20.00 10.4X
 Z 18s 11.43um 6.5Msz
 SMY 120.28 321 (PKP) 31 20.00 8.1X
 Z 20s 6.40um 6.3Msz
 FBA 122.19 348 ePKP 31 15.00 -0.3
 SSE 129.62 268 ePKP 31 12.00 -18.6X
 Z 20s 2.80um 6.0Msz
 N 20s 1.90um
 pPKP 31 28.00
 PP 34 52.00
 i 45 28.00
 i 50 36.00
 CHG 131.50 237 ePKP 31 34.60 0.1
 MBC 132.09 1 ePKP 31 30.00 -4.0X
 1.0s 7.00nm
 GYA 134.00 251 ePKP 31 43.00 3.8X
 N 22s 4.18um
 E 22s 1.54um
 PP 34 10.00
 CN2 136.28 284 ePKP 31 46.00 3.1X
 Z 22s 4.57um 6.2Msz
 PP 34 22.00
 TOL 137.33 86 ePKP 31 51.00 6.0X
 ePP 34 36.00
 HYB 138.18 211 ePKP 31 49.50 2.2X
 BJI 138.90 273 ePKP 31 45.50 -2.3
 Z 30s 4.07um 6.0MszX
 CD2 139.07 252 ePKP 31 43.40 -5.2X
 Z 26s 2.85um 5.9MszX
 N 19s 2.54um
 ePP 34 40.00
 eSKKS 41 28.00
 TIY 139.37 267 PKP 31 46.80 -2.1
 Z 20s 3.00um 6.0Msz
 N 23s 3.46um
 HHC 142.03 270 PKP 31 55.00 1.3
 Z 26s 2.54um 5.9MszX
 SS 53 34.00
 BTO 142.73 268 PKP 31 53.00 -1.8
 N 20s 2.83um
 E 19s 3.12um
 LZH 142.97 257 ePKP 31 53.50 -2.0
 Z 39s 5.80um 6.1MszX
 E 16s 1.83um
 PKS 35 28.00
 LSA 144.44 236 ePKP 32 01.40 2.9X
 SS 53 56.00
 LBL 144.90 85 PKP 31 56.66 -1.7
 PYM 145.08 84 PKP 31 57.86 -0.8
 PKI 145.12 227 PKP 31 53.96 -5.6X
 GUN 145.23 228 PKP 31 55.42 -4.4X

DMN	145.28	226	PKP	31	54.64	-5.1X	LJU	151.70	93	e(PKP)	32	21.00	12.0X		1.8s	24.80nm										
COLF	145.32	85	PKP	31	58.71	-0.3	MML	151.84	138	ePKP	32	15.80	6.2X		SPC	156.67	91	e(PKP)	32	20.00	4.1X					
AGO	145.33	83	PKP	31	57.82	-1.2	GRF	151.88	83	ePKP	32	13.60	4.5X		KRA	156.93	89	ePKP	32	22.90	7.0X					
CDR	145.33	89	ePKPc	31	59.50	0.5		Z	19s	3.10um			6.1Msz				e	32	33.00							
KKN	145.37	227	PKP	31	54.08	-5.8X				e	32	22.90					e	44	20.00							
PLDF	145.55	84	PKP	32	00.40	1.0	KZN	151.90	109	ePKP	32	18.60	9.1X		BBTK	157.04	125	ePKP	32	17.00	0.4					
SSB	145.65	86	PKP	31	59.76	0.2	OHR	151.96	107	ePKP	32	14.00	4.5X		CMP	157.04	104	ePKPc	32	31.00	14.7X					
GKN	145.82	226	PKP	31	56.06	-4.5X	LIT	152.13	110	iPKP	32	18.06	8.3X		WMO	157.16	250	ePKP	32	18.20	1.6					
AFIF	146.39	156	ePKPc	32	01.00	-0.5	MOX	152.58	82	ePKP	32	20.00	9.9X			Z	23s		6.10um		6.4MszX					
MNO	146.39	104	PKP	32	04.10	2.9X			2.0s	99.00nm					N	18s		2.64um								
STV	146.57	89	PKP	32	03.62	2.5X	PAIG	152.63	112	ePKP	32	16.98	6.6X					PKPab	32	47.00						
PZZ	146.60	89	PKP	32	03.21	1.9	KMR	152.63	89	ePKP	32	17.00	6.8X					PP	36	25.80						
ENR	146.61	89	PKP	32	04.14	2.9X				i	32	40.40						SKS	39	20.00						
IMI	146.67	90	PKP	32	04.44	3.1X	IRK	152.69	282	ePKP	32	10.00	-0.2					SKKS	43	08.50						
RRL	146.68	88	PKP	32	04.96	3.4X				e	32	22.50						SS	56	16.00						
BNI	146.70	88	PKP	32	03.40	2.0				e	32	47.00			MSL	158.05	148	ePKP	32	31.00	13.3X					
DAG	146.81	24	iPKPc	32	01.50	1.0				e	33	00.00					e	32	32.50							
	0.9s	38.66nm								e	34	37.50					eSKKS	44	13.00							
Z	21s	10.75um			6.6Msz					e	35	02.00			KSH	159.29	224	PKP	32	14.00	-5.2X					
EKA	146.85	65	PKPc	32	03.10	2.0				ePKS	35	16.00			MAIO	160.15	185	ePKP	32	21.00	0.8					
	1.7s	45.30nm								ePP	36	28.00			SOD	161.82	39	ePKP	32	33.00	12.3X					
BHB	146.90	88	PKP	32	05.67	4.1X				ePP	36	38.00			NUR	162.37	62	ePKP	32	28.00	6.6X					
ROB	146.90	90	PKP	32	05.37	3.7X				ePP	38	38.00				Z	20s		5.70um							
RSL	147.06	87	PKP	32	02.63	0.6				e	44	00.00			OBN	168.22	86	ePKP	32	29.00	2.4X					
RSP	147.09	88	PKP	32	04.24	2.2X				e	55	23.00				Z	22s		8.80um							
CKI	147.21	90	PKP	32	09.20	7.1X				eSS	57	00.00				N	22s		5.70um							
LSD	147.22	87	PKP	32	04.24	1.8				e	02	06.00						ePP	37	24.00						
GTA	147.57	257	PKP	32	03.60	0.6	GRG	152.70	109	ePKP	32	11.90	1.3					ePPP	41	40.00						
	Z	20s	3.90um		6.2Msz		THE	152.77	110	ePKP	32	22.90	12.3X					eSKKS	44	14.00						
E	18s	3.62um					SKO	152.90	106	ePKP	32	16.00	5.2X					ePcSP	46	08.00						
		PP	35	38.00				Z	18s	3.00um			6.1Msz					eSKSP	47	52.00						
		SKKS	42	19.00						i	32	27.00						iSS	58	12.00						
RYD	147.68	161	ePKP	32	07.00	3.5X	KHC	152.90	86	ePKP	32	19.50	8.9X					eSSS	05	00.00						
UQSK	147.82	154	ePKPc	32	07.00	3.3X		Z	22s	3.70um			6.2Msz					S.D. = 1.3	on	83	of 211 obs.					
CZI	148.09	104	PKP	32	09.20	5.6X		N	22s	1.50um								? OCT 13, 1991	18h 49m	32.19±3.63s						
LOMF	148.15	84	PKP	32	04.39	0.8		E	22s	3.20um								34.327 S ±21.6km	70.297 W ±17.2km							
VITF	148.17	82	PKP	32	03.72	0.2				e	32	24.50						DEPTH = 10.0km	(geophysicist)							
MNS	148.37	97	PKP	32	09.10	5.1X				e	32	37.50						CHILE-ARGENTINA BORDER REGION	(127)							
OASM	148.38	156	ePKP	32	11.00	6.4X				e	32	37.50						CHCH	0.49	323	iPc	49	42.50	0.3		
DOU	148.42	78	PKP	32	07.60	3.8X	OUR	153.08	112	ePKP	32	17.06	6.0X					PCH	0.73	346	iPc	49	46.20	-0.4		
		e	55	00.00			SOH	153.11	110	ePKP	32	17.26	6.1X							iS	49	50.60				
SNF	148.47	77	iPKP	32	07.48	3.6X	KNT	153.11	109	ePKP	32	15.90	4.8X					TACH	0.86	321	iPc	49	48.70	0.0		
MJMA	148.54	159	ePKPc	32	10.00	5.2X	QUE	153.23	199	ePKP	32	16.00	4.1X							iS	49	57.90				
SDI	148.55	99	PKP	32	08.10	3.7X	BHL	153.23	137	PKP	32	16.00	4.4X							iS	49	48.70	0.0			
CSI	148.58	104	PKP	32	07.40	2.9X				PP	36	02.00								iS	50	02.40				
ROI	148.58	104	PKP	32	08.20	3.7X				SKKS	43	00.00								iS	50	02.40				
SGO	148.59	102	PKP	32	08.70	4.3X	SHI	153.34	171	ePKP	32	08.00	-4.0X					SAN	0.92	341	iPc	49	49.60	-0.3		
BBS	148.60	85	PKP	32	04.32	0.1	SRS	153.44	110	ePKP	32	24.98	13.4X							iS	50	03.60				
MOF	148.61	84	PKP	32	03.89	-0.4	CLL	153.67	82	ePKP	32	17.00	5.5X					LNV	1.00	292	iP	49	51.00	0.0		
UCC	148.66	77	PKP	32	10.50	6.4X			1.9s	53.00nm										iS	50	06.00				
CRE	148.77	94	PKP	32	12.00	7.3X		Z	20s	3.00um			6.1Msz					PEL	1.22	345	iPc	49	55.00	0.0		
ECH	148.83	83	PKP	32	06.29	1.7	MUD	153.67	69	ePKP	32	33.00	21.7X							iS	50	13.10				
SFI	148.90	94	PKP	32	09.30	4.6X			0.8s	24.00nm										iS	49	57.00	-0.1			
CDF	149.00	83	PKP	32	02.78	-2.1	PRU	153.88	85	ePKP	32	19.50	7.6X							iS	50	16.50				
WLF	149.05	80	PKP	32	11.00	6.2X		Z	22s	3.70um			6.2Msz					ROCH	1.48	336	eP	49	59.00	0.0		
FEL	149.11	84	PKP	32	02.69	-2.5		N	22s	1.50um										iS	50	20.40				
NDI	149.16	216	iPKPc	32	10.00	4.3X		E	22s	3.20um										iS	50	02.00	0.4			
		ePP	36	20.00						e	32	24.50									iS	50	24.50			
SAL	149.20	90	PKP	32	15.40	10.3X				e	32	37.50								S.D. = 0.3	on	9	of 9 obs.			
ARV	149.24	95	PKP	32	10.80	5.4X	VKA	153.97	90	e(PKP)	32	32.00	19.9X							? OCT 13, 1991	19h 03m	18.12±8.33s				
MBH	149.24	139	ePKP	32	10.00	4.1X			4.0s	627.00nm										31.799 S ±13.9km	67.329 W ±78.2km					
MEM	149.46	78	iPKP	32	08.81	3.4X		Z	18s	1.30um			5.8Msz							DEPTH = 124.8 ±31.0 km						
		i	32	16.64						i	32	39.80								SAN JUAN PROVINCE, ARGENTINA	(137)					
ENN	149.50	78	ePKP	32	14.00	8.6X	BRG	153.98	83	ePKP	32	23.80	11.8X							CFA	0.80	284	ePc	03	54.00	-0.2
	1.0s	30.00nm						Z	20s	2.50um			6.0Msz								S	03	58.90			
DHR	149.77	167	ePKP	32	16.00	9.4X		N	20s	1.50um										RTLL	1.08	295	iP	03	41.50	-0.2
NPS	149.99	121	ePKP	32	13.00	6.3X		E	20s	2.00um										ZON	1.18	282	iPc	03	46.70	4.0X
VVI	150.49	91	PKP	32	17.30	10.2X				e	55	44.00									eS	04	07.70			
IGT	150.58	109	ePKP	32	13.34	5.9X				e	02	08.00									iPc	03	46.70			
WTS	150.58	76	ePKP	32	14.00	7.0X	ZST	154.37	91	ePKP	32	19.30	6.7X								iPc	03	44.20	0.2		
WTTA	150.79	88	i(PKP)	32	13.10	5.3X				e	36	17.10									iPc	03	58.10	0.2		
	1.1s	94.40nm								e	33	02.20									iPd	04	07.70	0.6		
		i	32	20.60						e	32	43.80									iPd	04	09.30	0.8		
WIT	150.89	75	ePKP	32	21.00	13.6X				e	33	02.20									eP	04	09.50	-0.3		
FVI	151.05	90	PKP	32	16.50	8.6X				e	33	02.20									iPc	04	12.60	0.5		
TRI	151.07	92	ePKP	32	19.00	11.0X	BUD	155.05	94	e(PKP)	32	19.00	5.5X								iPd	04	12.50	-0.2		
ATH	151.18	115	ePKP	32	17.00	8.6X	COP	155.13	72	ePKP	32	20.00	6.7X								iPd	04	12.50	-0.2		
AGG	151.25	112	ePKP	32																						

13d 19h

(S) 07 57.00
 SSE 17.41 291 eP 07 39.60 8.7X
 SP 07 43.50
 WR2 46.27 188 eP 11 45.60 -0.8
 0.6s 9.40nm 4.4mb
 i 12 00.30
 GUN 48.11 285 P 12 00.00 -1.2
 ASPA 50.00 188 iPc 12 15.40 0.3
 0.7s 2.70nm 3.9mb
 STK 57.81 179 iPd 13 12.80 1.0
 0.5s 0.80nm 3.7mb
 i 13 33.80
 YKA 73.70 28 eP 14 51.20 -1.3
 0.7s 4.80nm 4.3mb
 LRM 82.67 42 eP 15 41.50 -0.4
 NB2 83.75 338 P 15 49.00 2.2
 0.7s 1.20nm 3.8mb
 S.D. = 1.6 on 8 of 9 obs.

? OCT 13, 1991 21h 00m 11.15± 2.49s
 31.319 S ± 38.1km 69.105 W ± 48.0km
 DEPTH = 100.0km (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA (137)

RTCB 0.31 123 iPd 00 26.00 -0.1
 RTLL 0.54 91 eP 00 27.20 -0.3
 CFA 0.79 111 ePc 00 30.10 0.4
 S 00 45.00
 RTRS 1.19 345 iPc 00 34.00 0.1
 S.D. = 0.5 on 4 of 4 obs.

& OCT 13, 1991 23h 12m 57.65s
 59.899 N 152.444 W
 DEPTH = 88.4km
 SOUTHERN ALASKA (2)
 <AEIC>.

INE 0.35 298 eP 13 10.57 -1.0
 INW 0.39 296 ePc 13 10.96 -0.8
 eS 13 21.69
 OPT 0.47 238 iPd 13 11.55 -0.7
 eS 13 22.22
 HOM 0.47 120 ePc 13 11.81 -0.4
 eS 13 22.18
 RED 0.55 343 iPd 13 12.20 -0.7
 eS 13 23.41
 XLV 0.58 140 ePd 13 12.08 -1.0
 eS 13 23.48
 RS1 0.58 345 ePd 13 12.86 -0.5
 eS 13 24.62
 RSO 0.59 345 ePd 13 12.79 -0.6
 RS2 0.59 345 ePd 13 12.85 -0.6
 >NNL 0.59 76 iPc 13 13.36 0.1
 REF 0.61 348 iPd 13 12.98 -0.6
 eS 13 24.85
 RDW 0.61 343 iPd 13 13.03 -0.6
 RDN 0.64 346 ePd 13 13.22 -0.6
 RDT 0.68 2 ePd 13 13.24 -0.9
 NCT 0.71 340 ePd 13 13.90 -0.6
 AUE 0.72 221 iPd 13 13.71 -0.7
 CNPM 0.72 121 iPc 13 13.69 -0.8
 eS 13 25.98
 AUL 0.72 225 ePd 13 13.86 -0.6
 AUP 0.73 223 iPd 13 14.07 -0.6
 AGU 0.74 223 iPd 13 14.04 -0.7
 AUH 0.74 224 ePd 13 13.97 -0.8
 AUW 0.74 225 iPd 13 14.11 -0.6
 AUI 0.75 222 iPd 13 14.05 -0.8
 eS 13 26.10
 BRLK 0.80 99 ePc 13 14.30 -1.0
 iS 13 27.74
 PDB 0.89 264 iPd 13 15.29 -1.0
 iS 13 28.51
 NKA 1.04 35 ePc 13 19.05 1.1
 CDD 1.15 213 iPd 13 18.26 -1.1
 MCNL 1.20 234 ePd 13 18.72 -1.2
 eS 13 34.70
 SLKM 1.27 60 ePc 13 19.35 -1.5
 SYI 1.29 179 ePd 13 20.36 -0.7
 eS 13 38.24
 SPUL 1.30 8 eP 13 20.65 -0.6
 CKL 1.30 2 iPd 13 20.88 -0.5
 BGL 1.37 1 ePd 13 21.80 -0.4
 CRP 1.38 6 eP 13 22.20 -0.2
 CGLM 1.43 8 iPd 13 22.56 -0.4
 NCG 1.52 5 iPd 13 23.71 -0.3
 eS 13 44.07

SEW 1.52 81 eP 13 22.56 -1.4
 SUA 1.78 27 ePd 13 27.21 -0.3
 eS 13 49.95
 PMS 1.96 45 ePc 13 29.08 -0.8
 SVW 1.99 309 ePc 13 28.94 -1.3
 SKT 2.14 12 ePd 13 31.39 -0.8
 KDC 2.16 181 eP 13 30.53 -1.9
 PWA 2.16 34 ePc 13 32.07 -0.4
 LTI 2.31 84 ePc 13 33.01 -1.5
 PLRM 2.35 42 ePc 13 33.45 -1.6
 KNIM 2.40 77 iPc 13 33.26 -2.5
 KNK 2.48 51 ePc 13 34.96 -1.9
 GHO 2.55 41 ePc 13 36.65 -1.2
 SML 2.78 45 eP 13 39.63 -1.3
 GLI 2.83 67 ePc 13 39.10 -2.6
 FID 3.09 71 ePc 13 41.72 -3.5
 SCM 3.17 50 eP 13 44.76 -1.6
 VLZ 3.27 65 ePc 13 45.62 -2.0
 HUR 3.37 22 eP 13 48.96 -0.1
 KLU 3.58 61 iPc 13 49.74 -2.4
 55 obs. associated

% OCT 14, 1991 00h 05m 55.73± 0.50s
 40.103 N ± 4.4km 22.742 E ± 4.1km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)

LIT 0.19 269 ePg 05 59.82 -0.2
 eSg 06 03.10
 THE 0.56 18 ePg 06 06.74 -0.2
 eSg 06 15.06
 PAIG 0.74 103 iPg 06 09.98 -0.3
 eSg 06 20.54
 SOH 0.86 33 iPg 06 12.22 0.0
 eSg 06 24.33
 GRG 0.89 343 ePg 06 13.06 0.2
 eSg 06 25.10
 OUR 0.98 76 ePg 06 14.50 0.2
 eSg 06 27.45
 KNT 1.06 6 iPg 06 15.61 -0.2
 iSg 06 30.57
 AGG 1.13 197 ePg 06 16.98 0.1
 SRS 1.20 32 ePb 06 18.30 0.2
 eSb 06 34.34
 FNA 1.24 304 ePb 06 19.02 0.1
 S.D. = 0.2 on 10 of 10 obs.

? OCT 14, 1991 00h 37m 14.79± 3.57s
 2.608 N ± 16.3km 75.757 W ± 32.4km
 DEPTH = 33.0km (normal)

COLOMBIA (103)
 MD 3.5 (UVC).

PURC 0.67 245 iPc 37 28.22 0.0
 eS 37 39.00
 HOOC 1.22 314 ePd 37 36.02 0.1
 BUGC 1.37 339 eP 37 37.81 -0.1
 ANCC 1.43 309 eP 37 38.72 0.0
 CLMC 1.50 328 eP 37 39.64 -0.2
 HOBC 1.78 348 eP 37 43.93 0.1
 S.D. = 0.2 on 6 of 6 obs.

OCT 14, 1991 01h 16m 14.12± 0.86s
 42.304 N ± 9.0km 19.544 E ± 6.8km
 DEPTH = 13.4 ± 9.6 km
 NORTHWESTERN BALKAN REGION (383)
 ML 1.8 (TTG).

TTG 0.24 301 iPg 16 20.42 0.9
 iSg 16 24.56
 ULC 0.40 213 iPg 16 22.46 -0.1
 iSg 16 29.44
 PVY 0.43 47 iPg 16 23.26 0.2
 iSg 16 29.92
 BDV 0.53 268 iPg 16 25.08 0.3
 iSg 16 33.10
 IVA 0.62 25 iPg 16 26.46 0.1
 iSg 16 35.74
 NKY 0.65 322 iPg 16 26.56 -0.3
 iSg 16 36.80
 HCY 0.79 281 iPg 16 28.98 -0.1
 iSg 16 41.04
 BRY 0.95 309 iPg 16 32.04 0.1
 iSg 16 45.74
 PLE 1.03 354 iPg 16 33.40 0.0
 iSg 16 48.64
 OHR 1.52 141 ePn 16 43.50 2.5X

S.D. = 0.4 on 9 of 10 obs.
 % OCT 14, 1991 01h 42m 41.22± 1.36s
 17.678 N ± 14.7km 94.667 W ± 12.7km
 DEPTH = 113.2 ± 49.6 km
 CHIAPAS, MEXICO (61)

OXX 2.05 254 iPd 43 15.69 0.0
 iS 43 44.43
 LVVM 2.66 321 iP 43 23.16 -0.2
 iS 43 55.00
 IISM 2.88 297 iP 43 26.62 0.1
 iS 44 01.50
 TPX 3.60 140 (P) 43 36.13 0.0
 PPM 4.01 291 iP 43 42.00 -0.2
 (S) 44 21.97
 IIA 4.06 292 iP 43 43.09 0.7
 III 4.62 279 iP 43 49.84 -0.4
 iS 44 43.00

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

% OCT 14, 1991 02h 49m 37.59± 2.22s
 3.867 N ± 17.4km 76.773 W ± 23.5km
 DEPTH = 33.0km (normal)
 COLOMBIA (103)
 MD 3.1 (UVC).

CLMC 0.21 86 iPc 49 45.74 1.2
 ANCC 0.36 195 iPc 49 46.25 0.0
 eS 49 53.40
 HOOC 0.42 161 iPc 49 46.87 -0.4
 BUGC 0.52 87 ePc 49 48.38 -0.2
 HOBC 0.80 53 eP 49 51.85 -0.7
 eS 50 03.20
 S.D. = 1.1 on 5 of 5 obs.

% OCT 14, 1991 03h 16m 14.25± 1.59s
 44.379 N ± 7.8km 6.987 E ± 13.4km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 2.3 (GEN).

PZZ 0.15 33 P 16 18.38 0.5
 S 16 21.12
 STV 0.28 119 P 16 20.08 0.0
 S 16 23.77
 ENR 0.35 116 P 16 21.46 0.0
 S 16 25.77
 BHB 0.50 23 P 16 24.30 -0.2
 S 16 30.61
 RRL 0.56 345 P 16 25.84 0.1
 S 16 33.69
 ROB 0.64 97 P 16 26.86 -0.3
 S 16 35.47
 RSP 0.80 14 P 16 29.53 -0.3
 IMI 0.80 125 P 16 30.04 0.2
 S 16 40.76
 S.D. = 0.3 on 8 of 8 obs.

OCT 14, 1991 03h 44m 34.43± 0.68s
 40.160 N ± 8.5km 25.682 E ± 5.4km
 DEPTH = 5.0km (geophysicist)
 AEGEAN SEA (365)

EZN 0.60 124 iPg 44 47.00 0.6
 iSg 44 54.00
 ALN 0.79 20 ePg 44 48.62 -1.5
 iSg 44 59.78
 PRK 1.02 153 ePg 44 54.00 -0.2
 eSg 45 10.00
 KGT 1.27 76 iPn 44 57.20 -1.3
 OUR 1.31 278 iPb 44 56.41 -2.8
 eSb 45 15.72
 MFT 1.37 62 iPn 45 00.10 -0.2
 PAIG 1.55 262 ePb 45 02.84 0.1
 eSb 45 23.76
 EDC 1.68 83 ePn 45 04.50 -0.1
 SRS 1.86 302 iPb 45 09.24 2.1
 iSb 45 31.41
 SOH 1.89 291 iPb 45 09.00 1.2
 eSb 45 35.80
 DMK 2.29 43 ePn 45 15.00 1.6
 CTT 2.31 64 ePn 45 14.50 0.7
 KNT 2.34 296 ePn 45 18.04 3.8X
 eSn 45 47.48
 IZI 2.91 85 ePn 45 22.00 -0.3
 S.D. = 1.5 on 13 of 14 obs.

OCT 14, 1991 04h 38m 09.04± 0.59s
40.177 N ± 7.8km 25.591 E ± 4.0km
DEPTH = 5.0km (geophysicist)
AEGEAN SEA (365)

EZN 0.66 122 iPg 38 23.50 1.2
iSg 38 29.50
ALN 0.80 26 ePg 38 24.38 -0.6
OUR 1.24 278 iPb 38 32.30 -0.3
KGT 1.34 78 ePn 38 32.20 -2.0
MFT 1.43 64 iPn 38 35.60 -0.1
KDZ 1.48 355 iPc 38 36.00 -0.3
Sg 38 57.00
PAIG 1.49 261 ePb 38 35.46 -1.0
RZN 1.65 337 iPd 38 39.00 0.1
EDC 1.75 84 ePn 38 40.50 0.3
SRS 1.79 302 ePn 38 42.30 1.5
eSn 39 07.22
SOH 1.82 291 ePn 38 40.42 -0.9
iSn 39 08.42
MMB 2.00 316 eP 38 46.00 2.2
PLD 2.04 341 ePg 38 49.00 4.6X
eS 39 15.00
KNT 2.27 297 ePn 38 48.42 0.6
DMK 2.32 44 ePn 38 52.20 3.7X
CTT 2.37 65 ePn 38 50.00 0.8
LIT 2.38 269 ePn 38 48.26 -1.1
GRG 2.55 289 ePn 38 58.38 6.6X
PGB 2.60 336 iPc 38 52.00 -0.5
IZI 2.97 86 ePn 38 58.00 0.1

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

* OCT 14, 1991 04h 38m 17.36± 0.76s
6.805 N ± 9.2km 73.060 W ± 10.4km
DEPTH = 157.5 ± 8.2 km
4.0mb (2 obs.)
NORTHERN COLOMBIA (99)

BMG 0.27 357 iPc 38 41.00 0.7
BOG 2.39 205 eP 39 03.00 4.7X
iS 39 31.00
HOBC 3.91 232 iPc 39 17.44 0.0
eS 39 52.00
BUGC 4.30 228 eP 39 21.77 -0.8
CLMC 4.54 230 ePc 39 25.84 0.1
HOOC 4.86 227 ePc 39 28.92 -1.3
ANCC 5.00 229 ePc 39 31.68 -0.1
PURC 5.54 217 eP 39 40.56 1.2
UPA 6.77 289 (P) 39 54.50 -0.9
CUMC 7.53 220 eP 40 06.66 0.5
CNCB 23.99 168 P 43 20.00 0.5
GOL 43.75 323 (P) 46 09.80 0.7
1.0s 7.50nm 4.3mb
LIC 67.54 86 P 48 58.10 -1.1
KIC 67.82 86 P 48 59.60 -1.3
NB2 81.31 29 P 50 17.80 0.6
0.7s 1.10nm 3.7mb
ASPA 149.15 234 iPKPd 57 48.90 4.0X
0.5s 4.20nm
WR2 150.36 241 ePKP 57 52.10 5.3X
0.6s 3.60nm
WRA 150.38 241 PKP 57 48.00 1.2
0.5s 2.00nm
S.D. = 1.0 on 15 of 18 obs.

? OCT 14, 1991 05h 03m 30.77± 1.20s
44.442 N ± 10.6km 7.321 E ± 8.7km
DEPTH = 5.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.4 (GEN).

PZZ 0.17 292 P 03 34.33 0.0
S 03 36.72
STV 0.20 179 P 03 34.84 0.0
S 03 37.39
ENR 0.23 162 P 03 35.45 0.0
S 03 38.53
ROB 0.42 110 P 03 39.23 0.0
S.D. = 0.0 on 4 of 4 obs.

OCT 14, 1991 05h 55m 25.17± 0.52s
6.045 S ± 4.1km 154.442 E ± 5.2km
DEPTH = 417.5 ± 5.4 km
5.2mb (19 obs.)
SOLOMON ISLANDS (193)

RAB 2.92 309 iPd 56 28.00 -1.6
iS 57 22.50
HNR 6.41 122 eP 57 03.00 -0.6
PMG 7.96 245 iPc 57 22.00 1.2
YYYY 8.43 268 iPc 57 26.70 0.3
MDG 8.66 275 eP 57 30.90 2.1
MNDI 10.72 269 eP 57 53.00 0.2
CTAO 16.07 209 iPc 58 51.00 0.9
0.9s 164.36nm 5.5mb

i 59 08.00
i 00 43.00
DZM 19.71 145 iPc 59 27.00 0.7
OIS 20.38 224 iPc 59 33.90 1.2
0.6s 102.00nm 5.5mb
BRS 21.29 184 iPc 59 42.30 0.9
0.8s 5.20nm 4.0mb X
GUA 21.64 334 e(P) 59 44.70 0.0
1.1s 303.80nm 5.7mb
GUMO 21.70 334 e(P) 59 45.80 0.6
PJG 21.70 334 e(P) 59 46.20 1.0
OLP 22.63 204 iPc 59 54.20 0.5
0.3s 220.00nm 6.1mb
WR2 23.91 233 eP 00 04.80 -0.8
0.2s 87.00nm 5.9mb
MTN 23.95 252 eP 00 05.30 -0.7
0.3s 53.00nm 5.5mb
COO 24.52 185 eP 00 11.00 0.0
0.5s 18.00nm 4.8mb
ASPA 26.41 226 iPd 00 27.10 -1.0
0.3s 76.60nm 5.6mb
Z 17s 0.60um 4.2MsZ X

KNA 26.96 247 eP 00 32.30 -0.7
0.4s 66.00nm 5.4mb
STK 28.37 203 iPc 00 46.20 0.9
0.4s 11.40nm 4.6mb
ePP 02 00.50
iScP 06 51.40
BWA 28.78 190 iPc 00 48.90 0.0
CAN 29.56 189 iPc 00 56.60 1.0
ADE 32.24 205 eP 01 19.00 0.3
BFD 32.84 198 eP 01 22.00 -1.7
WARB 33.24 230 iPc 01 27.20 0.0
0.4s 27.00nm 5.0mb
MBL 36.72 242 eP 01 55.00 -1.4
0.3s 21.00nm 5.1mb
TCW 39.24 156 eP 02 17.00 0.2
MNG 39.25 154 P 02 16.50 -0.4
MRW 39.43 156 eP 02 18.10 -0.3
PDW 39.58 155 eP 02 19.10 -0.5
PGZ 39.59 154 eP 02 19.50 -0.2
MTW 39.70 155 eP 02 20.10 -0.5
COOL 39.82 227 eP 02 21.60 -0.2
KHZ 39.98 158 eP 02 22.20 -0.7
BWZ 40.65 163 P 02 28.30 0.1
MOZ 40.79 160 eP 02 29.50 0.1
KLB 42.68 229 eP 02 43.90 -0.9
BRWA 42.97 233 eP 02 46.60 -0.5
BAL 43.02 231 eP 02 46.90 -0.6
MUN 44.03 229 iPd 02 55.20 -0.2
NJ2 50.84 320 Pd 03 47.00 -0.4
XAN 58.65 316 P 04 41.30 -1.5
CHG 60.00 296 eP 04 52.00 -0.2
CD2 60.78 310 Pc 04 56.70 -0.5
0.4s 26.00nm 5.1mb
LZH 63.26 316 iPc 05 14.00 0.6
1.5s 57.00nm 5.0mb
GTA 67.68 317 P 05 42.00 0.9
1.2s 26.00nm 4.8mb
GUN 74.16 301 P 06 19.80 -0.1
0.6s 33.00nm 5.1mb
PKI 74.47 301 P 06 20.78 -0.8
KKN 74.64 301 P 06 22.12 -0.3
0.6s 17.00nm 4.9mb
DMN 74.74 301 P 06 22.90 -0.1
GKN 75.24 301 P 06 25.40 -0.3
WMO 77.76 317 P 06 39.00 -0.1
1.5s 16.00nm 4.5mb
FBA 82.43 21 P 07 01.90 -1.0
1.0s 9.40nm 4.5mb

INK 89.03 21 eP 07 34.50 -0.3
HFS 118.42 339 ePKP 13 24.10 -1.0
0.4s 1.30nm
NB2 118.63 341 PKP 13 24.70 -0.8
0.6s 1.60nm
BUL 120.74 242 iPKPd 13 30.80 -0.1

BRG 124.55 331 i(PKP) 13 37.60 0.5
CLL 124.72 332 iPKPc 13 38.20 0.7
PRU 124.82 330 ePKP 13 40.20 2.5
KHC 125.84 329 ePKP 13 40.20 0.4
CNCB 132.31 119 PKP 13 50.00 -3.7X
LPB 132.32 119 PKP 13 55.00 1.5
PPD 142.38 139 ePKP 14 07.40 -4.0X
e 14 12.00
VAO 144.34 145 ePKP 14 13.80 -1.0
BMA 146.13 148 (PKP) 14 18.00 0.2
BAO 149.05 134 iPKPc 14 23.80 1.2
SOB1 158.48 135 (PKP) 14 37.00 1.6
e 15 13.40

S.D. = 0.9 on 66 of 68 obs.

* OCT 14, 1991 06h 55m 13.56± 0.82s
2.534 N ± 11.3km 128.033 E ± 23.6km
DEPTH = 33.0km (normal)
4.7mb (5 obs.)
HALMAHERA, INDONESIA (267)

TNE 1.86 202 eP 55 43.00 -0.6
WR2 23.19 165 iPc 00 17.70 -0.8
0.5s 8.70nm 4.5mb
OIS 25.60 154 eP 00 40.00 -1.7
i 00 46.50
ASPA 26.66 168 iPc 00 53.40 1.9
0.4s 7.70nm 4.7mb
CHG 32.75 302 eP 01 44.50 -1.4
e 03 53.00
STK 36.57 160 iPd 02 19.60 1.3
0.6s 12.70nm 5.0mb
ADE 38.63 166 e(P) 02 40.30 4.6X
BJI 38.85 345 eP 02 38.00 0.6
1.0s 7.00nm 4.4mb
eS 08 32.00
LZH 40.19 329 eP 02 49.00 0.2
2.0s 35.00nm 4.8mb
Z 30s 1.35um 4.6MsZ X
N 10s 0.33um

BWA 41.46 154 eP 03 04.10 5.0X
CAN 42.47 154 eP 03 12.40 5.0X
HYB 50.75 290 eP 04 15.90 3.0X
YAK 59.35 1 eP 05 13.10 -1.5
i 06 23.00
MAIO 71.27 307 eP 06 34.00 1.9
S.D. = 1.6 on 10 of 14 obs.

? OCT 14, 1991 06h 57m 23.08± 1.03s
2.436 N ± 14.5km 127.756 E ± 20.5km
DEPTH = 33.0km (normal)
4.6mb (4 obs.)
NORTHERN MOLUCCA SEA (266)

TNE 1.68 195 e(P) 57 51.50 1.0
TPI 20.75 256 ePc 02 02.50 -1.2
e 03 00.00
WR2 23.17 164 eP 02 26.80 -1.1
0.9s 18.40nm 4.6mb
OIS 25.64 154 eP 02 47.00 -4.5X
i 02 52.00
ASPA 26.63 167 iPc 03 02.50 1.8
1.0s 10.50nm 4.4mb
STK 36.57 160 iPd 04 25.40 -2.5
0.8s 16.30nm 5.0mb
BJI 38.88 346 eP 04 47.00 -0.1
1.0s 13.00nm 4.7mb
eS 10 44.00
BWA 41.50 154 eP 05 10.80 1.9
CAN 42.51 154 eP 05 16.10 -1.0
i 05 18.20
HYB 50.52 291 eP 06 20.50 -0.2
MAIO 71.11 308 eP 08 42.00 1.4
S.D. = 1.7 on 10 of 11 obs.

* OCT 14, 1991 07h 29m 37.44± 2.34s
36.482 N ± 7.9km 11.566 W ± 21.7km
DEPTH = 33.0km (normal)
NORTH ATLANTIC OCEAN (402)
MD 3.6 (RBA). mbLg 3.1 (MDD).

LIS 2.94 40 eP 30 24.00 1.1

14d 07h

MTH	3.06	37	iS	30 55.30	
			eP	30 26.30	1.7
			eS	30 59.30	
FIG	3.06	77	eP	30 27.50	2.8
			eS	30 58.50	
EVAL	4.01	73	iP	30 38.30	0.2
			i	31 18.50	
AVE	4.66	132	iPn	30 47.60	0.3
			i	31 21.50	
			iSn	31 32.00	
			i	32 34.50	
EJIF	4.91	89	ePn	30 52.00	1.1
MTE	5.03	38	eP	30 52.50	-0.2
			eS	31 45.00	
EPRU	5.11	83	ePn	30 54.00	0.2
			eSn	31 48.00	
EHOR	5.22	73	iPnc	30 55.00	-0.3
			i	31 49.00	
EPLA	5.61	49	ePn	31 00.00	-0.7
			eSn	31 57.50	
IFR	6.06	117	iPn	31 06.00	-1.2
			iSn	32 04.00	
			i	32 06.00	
EZAM	6.08	21	ePn	31 07.00	-0.4
			eSn	32 10.00	
EBAN	6.42	73	iPnc	31 11.40	-0.8
			eSn	32 17.30	
TIO	6.60	146	iPn	31 15.00	0.2
			iSn	32 12.50	
			i	32 16.50	
GUD	7.14	52	ePn	31 21.50	-0.8
EVIA	7.51	71	ePn	31 26.00	-1.6
			eSn	32 44.30	
ETOR	8.61	57	iPnd	31 41.20	-1.6
			eSn	33 09.00	

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

% OCT 14, 1991 07h 37m 51.40 ± 0.79s
 40.192 N ± 11.0km 25.647 E ± 5.8km
 DEPTH = 10.0km (geophysicist)

AEGEAN SEA (365)

EZN	0.64	125	iPg	38 04.90	0.7
ALN	0.77	23	ePg	38 06.44	0.1
			eSg	38 17.04	
OUR	1.28	277	iPb	38 14.30	-0.9
KGT	1.29	78	ePn	38 15.10	-0.2
MFT	1.38	64	ePn	38 16.00	-0.8
PAIG	1.53	261	ePb	38 18.00	-0.8
SRS	1.82	301	iPb	38 26.60	3.7X
			eSb	38 49.40	
SOH	1.86	291	ePn	38 27.12	3.5X
KNT	2.30	296	ePn	38 31.84	1.8

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

? OCT 14, 1991 08h 09m 53.60 ± 6.79s
 16.963 N ± 32.7km 60.793 W ± 51.2km
 DEPTH = 33.0km (normal)

LEEWARD ISLANDS (92)

ML 2.9 (FDF).

DEG	0.70	202	ePd	10 06.59	-0.4
			S	10 15.00	
SEG	0.88	231	ePd	10 09.14	-0.4
			S	10 20.00	
BPA	1.02	275	eP	10 11.70	0.0
			S	10 23.70	
MGG	1.15	206	eP	10 13.82	0.3
			S	10 28.60	
DOG	1.22	221	eP	10 14.96	0.5
PAG	1.26	223	eP	10 15.00	0.0
			S	10 31.40	
BBL	1.58	205	eP	10 19.60	0.0

S.D. = 0.4 on 7 of 7 obs.

OCT 14, 1991 08h 18m 29.79 ± 3.20s
 23.977 N ± 17.4km 122.634 E ± 24.6km
 DEPTH = 45.3 ± 16.5 km
 4.3mb (6 obs.)

TAIWAN REGION (243)

TWC	0.95	311	iPd	18 46.30	-0.6
			eS	18 58.40	
TWD	0.96	276	iPd	18 45.40	-1.6
			eS	18 56.90	
TATO	1.44	314	P	18 55.00	1.2
TWZ	1.47	319	ePc	18 55.60	1.3

TWO	1.67	281	iPd	18 58.00	0.9
			eS	19 18.30	
TWK	2.09	251	ePc	19 03.50	0.4
OZH	3.81	285	Pnc	19 20.20	-7.2X
			iSg	20 06.00	
SSE	7.21	350	Pc	20 14.00	-1.2
	0.7s		83.00nm		5.7mb X
Z	20s		0.60um		4.4mszX
N	12s		0.50um		
			pP	20 18.20	
			eS	21 33.00	
NJ2	8.71	338	Pc	20 34.50	-1.5
	12s		0.68um		
			sP	20 46.00	
QIZ	12.88	250	eP	21 40.00	7.3X
			eS	23 56.20	
SNY	17.82	2	Pd	22 37.60	1.6
	1.0s		12.00nm		4.0mb
CD2	18.11	297	eP	22 39.30	-0.4
LZH	20.21	311	eP	23 04.00	0.2
	1.5s		28.00nm		4.4mb
Z	20s		0.35um		3.7msz
			pP	23 07.50	13kmX
GTA	24.68	314	Pc	23 48.30	0.4
	0.8s		15.00nm		4.6mb
KAF	71.99	331	eP	29 50.00	-0.4
	0.4s		1.40nm		4.3mb
HFS	78.39	331	eP	30 26.70	-0.2
	0.4s		1.50nm		4.3mb
NB2	79.02	333	P	30 30.30	-0.1
	0.4s		0.80nm		4.0mb
	S.D. = 1.1	on 15 of 17 obs.			

OCT 14, 1991 08h 20m 09.55 ± 0.85s
 1.773 N ± 6.3km 127.312 E ± 10.8km

DEPTH = 137.2 ± 7.4 km

5.0mb (8 obs.)

HALMAHERA, INDONESIA (267)

TNE	0.97	179	iPd	20 33.00	0.0
			eS	20 54.60	
MKS	10.47	228	ePd	22 38.00	0.8
MTN	15.01	165	eP	23 34.80	-1.1
KHK1	15.41	229	eP	23 46.00	5.1X
			e	24 57.00	
WR2	22.67	163	iPd	25 00.50	0.5
	0.6s		34.20nm		4.9mb
			eS	29 00.70	
MBL	23.94	197	eP	25 12.50	0.2
QIS	25.25	152	eP	25 25.00	0.4
	0.1s		17.00nm		5.5mb
ASPA	26.09	166	iPd	25 32.00	-0.3
	0.3s		9.50nm		4.9mb
			ePcP	28 56.70	
			eS	29 54.70	
WARB	27.80	181	eP	25 48.00	0.2
MRWA	32.66	199	eP	26 30.50	-0.1
COOL	33.00	190	eP	26 32.70	-0.9
BAL	33.75	197	eP	26 39.80	-0.2
KLB	34.40	195	iPc	26 45.60	0.0
	0.4s		17.00nm		5.2mb
MUN	35.18	197	eP	26 51.30	-0.9
STK	36.11	159	iPc	27 01.60	1.6
	1.0s		10.50nm		4.6mb
BJI	39.41	346	eP	27 27.00	-0.5
	1.0s		7.00nm		4.4mb
LZH	40.48	330	iPd	27 37.00	0.5
	1.5s		40.00nm		4.9mb
			pP	28 14.00	170kmX
			PP	29 28.00	
GUN	47.35	307	P	28 32.40	0.3
	0.7s		30.00nm		5.1mb
PKI	47.58	307	P	28 33.20	-0.7
KKN	47.78	307	P	28 35.00	-0.2
DMN	47.84	306	P	28 36.20	0.4
GKN	48.38	307	P	28 39.60	-0.2
	S.D. = 0.7	on 21 of 22 obs.			

OCT 14, 1991 08h 29m 46.32 ± 0.47s
 39.694 N ± 4.5km 20.681 E ± 2.9km

DEPTH = 15.5 ± 4.7 km

3.7mb (2 obs.)

GREECE-ALBANIA BORDER REGION (392)

ML 3.8 (ATH).

IGT	0.31	239	iPg	29 53.33	0.2
			eSg	29 58.24	

LSK	0.46	352	iPg	29 54.80	-0.8
SRN	0.56	290	iPg	29 57.90	0.7
TPE	0.79	320	iPg	30 00.00	-1.2
KZN	1.04	53	ePn	30 03.60	-1.9
			eSb	30 16.90	
FNA	1.21	26	iPb	30 07.64	-0.8
			eSb	30 24.96	
OHR	1.42	4	iPnc	30 12.00	0.5
			iSn	30 31.50	
			Lg	30 36.10	
AGG	1.44	117	ePb	30 12.00	0.2
			eSb	30 32.02	
LIT	1.45	73	ePb	30 11.52	-0.4
			eSb	30 31.62	
TIR	1.76	340	ePn	30 18.00	1.6
GRG	1.82	46	ePb	30 17.96	0.6
			eSb	30 41.92	
THE	1.99	61	ePb	30 20.76	1.1
			iSb	30 45.74	
PHP	2.00	355	ePn	30 21.70	1.9
LCI	2.19	288	P	30 21.20	-1.4
			eSn	30 48.50	
KNT	2.24	48	ePn	30 23.89	0.6
			eSn	30 51.42	
PAIG	2.32	83	ePn	30 24.28	-0.2
			iSn	30 52.98	
SOH	2.34	60	iPn	30 24.58	-0.2
			eSn	30 53.76	
SKO	2.35	14	ePn	30 26.00	1.2
			iPg	30 28.00	
			iSg	30 53.50	
			i	30 58.60	
			Lg	31 01.50	
ULC	2.51	335	ePn	30 28.00	0.8
			eSn	30 58.20	
OUR	2.61	75	ePn	30 27.84	-0.8
			iSn	30 59.98	
SRS	2.64	56	iPn	30 29.64	0.6
			eSn	31 01.68	
BRT	2.91	295	P	30 34.00	1.2
ATH	2.93	125	ePn	30 35.20	2.1
TTG	2.94	339	ePn	30 34.00	0.9
			eSn	31 09.00	
BDV	2.94	332	ePn	30 34.00	0.7
			eSn	31 08.00	
PVY	2.95	350	ePn	30 35.00	1.6
			eSn	31 11.00	
ROI	3.18	269	P	30 36.60	-0.1
IVA	3.23	350	ePn	30 38.50	1.1
			eSn	31 16.00	
BAI	3.24	297	P	30 36.00	-1.5
CSI	3.39	273	P	30 42.40	2.8X
VLI	3.46	148	ePn	30 40.50	-0.2
CZI	3.55	264	P	30 43.30	1.4
BRY	3.59	334	ePn	30 42.00	-0.6
			eSn	31 23.00	
MMN	3.62	275	P	30 45.40	2.5X
			eSn	31 22.40	
PLE	3.76	346	ePn	30 45.00	0.0
			eSn	31 29.00	
SOI	3.96	247	P	30 47.50	-0.1
			eSn	31 30.80	
MGR	3.97	278	P	30 48.00	0.2
RDO	3.98	67	ePn	30 47.10	-0.9
SGO	4.21	284	P	30 51.60	0.4
			eSn	31 36.30	
ALN	4.27	72	iPn	30 51.74	-0.5
ATN	4.35	251	P	30 52.60	-0.7
			eSn	31 40.20	
PRK	4.35	94	ePn	30 54.20	0.9
HVAR	4.72	319	ePn	30 55.50	-3.0
			iSn	31 47.30	
MFT	5.17	76	ePn	31 04.00	-0.9
SDI	5.59	293	P	31 11.60	0.7
ASS	6.91	302	P	31 29.00	-0.5
ARV	6.93	306	P	31 29.00	-0.8
			eSn	32 42.00	
VBY	7.05	327	ePn	31 29.00	-2.3
			eSn	32 47.40	
VOY	8.06	324	ePn	31 43.60	-1.9
			e(Sn)	33 10.20	
KHC	10.71	334	eP	32 32.00	10.0X
			e	32 36.60	
HFS	20.93	350	eP	34 25.30	-5.1X
	0.5s	1.60nm			3.7mb
N82	22.16	348	P	34 38.80	-4.1X
	0.9s	3.10nm			3.8mb

S.D. = 1.2 on 47 of 52 obs.
 ? OCT 14, 1991 09h 18m 02.28±1.65s
 2.299 N ±20.1km 74.857 W ±22.3km
 DEPTH = 33.0km (normol)

COLOMBIA (103)
 MD 3.2 (UVC).

PURC 1.50 271 eP 18 27.73 0.0
 eS 18 42.50
 HOQC 2.12 303 iPc 18 36.22 -0.2
 eS 18 57.40
 CLMC 2.32 313 iPc 18 39.20 0.1
 eS 19 03.00
 LPB 19.87 161 P 22 34.20 0.0
 S.D. = 0.2 on 4 of 4 obs.

? OCT 14, 1991 09h 57m 35.18±9.86s
 18.811 N ±59.4km 65.721 W ±56.6km
 DEPTH = 33.0km (normol)
 PUERTO RICO REGION (90)

LPR 0.52 196 P 57 46.50 0.4
 S 57 58.00
 CPD 0.79 194 P 57 49.50 -0.4
 SJG 0.81 210 P 57 50.30 0.2
 S 58 02.30
 CLLP 1.09 228 P 57 54.00 -0.2
 S 58 09.00
 PORP 1.15 229 P 57 54.70 -0.3
 S 58 09.70
 LRS 1.18 244 P 57 56.00 0.5
 S 58 12.00
 MCP 1.37 254 P 57 58.20 0.0
 MGP 1.52 239 P 58 00.20 -0.2
 S 58 20.20
 S.D. = 0.4 on 8 of 8 obs.

* OCT 14, 1991 10h 49m 15.94±0.74s
 40.563 N ±7.4km 20.682 E ±7.4km
 DEPTH = 10.0km (geophysicist)
 GREECE-ALBANIA BORDER REGION (392)

LSK 0.42 189 ePg 49 26.50 2.0
 OHR 0.56 9 iPg 49 26.60 -0.6
 iSg 49 34.50
 Lg 49 36.00
 FNA 0.57 67 ePg 49 26.38 -1.2
 eSg 49 34.90
 TPE 0.58 243 ePg 49 25.00 -2.7
 SRN 0.86 218 ePg 49 32.10 -0.4
 TIR 1.00 322 ePn 49 36.70 1.9
 IGT 1.06 195 ePb 49 40.54 4.6X
 LACI 1.30 326 ePn 49 43.10 3.1X
 GRG 1.36 73 ePb 49 40.30 -0.7
 eSb 49 58.32
 LIT 1.46 108 ePb 49 43.30 1.0
 eSb 50 05.30
 SKO 1.52 22 ePn 49 44.50 1.3
 iSn 50 03.90
 iSg 50 04.90
 Lg 51 07.00
 KNT 1.78 70 ePb 49 46.32 -0.7
 SOH 2.05 82 ePn 49 50.94 0.1
 S.D. = 1.6 on 11 of 13 obs.

? OCT 14, 1991 12h 47m 02.90±1.01s
 42.409 N ±6.8km 19.809 E ±7.0km
 DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)
 ML 1.2 (TTG).

PVY 0.22 33 iPg 47 07.68 -0.1
 iSg 47 11.02
 TTG 0.41 273 iPg 47 11.08 -0.1
 iSg 47 17.74
 IVA 0.47 8 iPg 47 12.58 0.2
 iSg 47 19.78
 ULC 0.61 223 iPg 47 15.28 0.1
 iSg 47 24.46
 NKY 0.72 304 iPg 47 17.24 0.1
 iSg 47 27.74
 BDV 0.74 261 iPg 47 17.20 -0.2
 iSg 47 28.90
 PLE 0.97 342 iPg 47 21.18 -0.2
 iSg 47 36.92
 HCY 0.97 273 iPg 47 21.48 0.1

BRY 1.05 298 iSg 47 36.76
 iPg 47 23.00 0.1
 iSg 47 39.46
 S.D. = 0.2 on 9 of 9 obs.

% OCT 14, 1991 12h 57m 02.53±0.73s
 19.794 S ±9.8km 133.855 E ±6.8km
 DEPTH = 10.0km (geophysicist)
 NORTHERN TERRITORY, AUSTRALIA (591)

WR2 0.50 108 iPc 57 12.90 0.1
 eS 57 15.10
 ASPA 3.85 179 iPd 58 06.70 3.5X
 eS 58 44.60
 QIS 5.46 99 eP 58 26.00 0.1
 eS 59 26.00
 e 59 49.00
 KNA 6.30 309 eP 58 39.00 1.2
 eS 59 50.70
 MTN 7.39 339 eP 58 52.00 -1.0
 eS 00 06.00
 WARB 9.19 225 eP 59 18.00 -0.2
 0.3s 5.00nm 5.4mb X
 eS 01 00.00
 MRWA 18.74 237 eP 01 23.50 -0.2
 S.D. = 1.0 on 6 of 7 obs.

? OCT 14, 1991 13h 42m 18.85±1.43s
 31.571 S ±28.7km 68.761 W ±30.1km
 DEPTH = 90.0km (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA (137)

ZON 0.07 70 iPd 42 32.00 0.0
 eS 42 44.00
 RTCB 0.09 339 iPd 42 32.00 -0.1
 S 42 43.80
 RTLL 0.35 46 iPc 42 32.40 -0.4
 CFA 0.45 95 iPc 42 33.80 0.3
 S 42 45.70
 RTRS 1.52 337 iPc 42 45.40 0.2
 S 43 04.20
 S.D. = 0.4 on 5 of 5 obs.

? OCT 14, 1991 14h 02m 34.73±3.71s
 4.655 S ±43.9km 144.353 E ±16.1km
 DEPTH = 160.3 ±17.8 km
 4.0mb (1 obs.)
 NEAR N COAST OF NEW GUINEA, PNG. (200)

MDG 1.54 113 eP 03 05.30 -0.5
 MNDI 1.64 205 eP 03 07.50 0.4
 eS 03 36.00
 YYYY 2.25 135 eP 03 13.10 -0.9
 LAT 3.30 127 iPc 03 28.40 1.6
 PMG 5.48 150 eP 03 55.00 -0.5
 WR2 18.05 212 eP 06 36.50 -0.1
 0.4s 3.20nm 4.0mb
 S.D. = 1.4 on 6 of 6 obs.

OCT 14, 1991 14h 35m 55.73±0.35s
 18.094 S ±5.8km 178.442 W ±5.4km
 DEPTH = 582.8 ±3.9 km
 5.3mb (43 obs.)

FIJI ISLANDS REGION (181)
 CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN
 L.P.B.: 16S, 25C
 Centroid Location:
 Origin Time 14:36: 0.6 1.2
 Lat 17.85S 0.12 Lon 178.08W 0.08
 Dep 596.7 5.2 Half-duration 2.6
 Moment Tensor: Scale 10**16 Nm
 Mrr= 2.03 0.64 Mtt= 7.30 1.00
 Mff=-9.33 0.98 Mrt= 5.09 0.90
 Mrf=-9.61 1.08 Mtf=-2.52 0.97
 Principal Axes:
 T Val= 13.08 Plg=39 Azm= 26
 N 1.74 37 153
 P -14.82 30 269
 Best Double Couple: Mo=1.4*10**17
 NP1: Strike= 53 Dip=37 Slip= 172
 NP2: 149 85 53

TVI 1.92 307 eP 37 09.50 -0.1
 KRO 2.21 290 iPc 37 10.30 0.5
 UDU 2.43 322 ePc 37 11.30 0.4
 NDE 2.61 305 iPc 37 12.90 1.0

OYA 2.67 278 eP 37 14.90 2.8X
 MBU 2.93 292 iPc 37 15.20 1.6
 VUN 2.95 271 ePc 37 14.20 0.6
 SVA 2.95 269 ePc 37 13.90 0.3
 SGE 3.50 278 eP 37 18.40 1.2
 NDF 3.93 274 eP 37 18.20 -1.7
 AFI 7.64 58 eP 37 49.00 -2.7
 eS 37 55.00
 DZM 14.74 252 iPc 39 02.30 0.6
 iS 41 39.00
 ScP 46 13.90
 WCZ 18.89 198 P 39 44.30 3.1X
 KUZ 19.28 194 P 39 48.00 3.2X
 URZ 20.47 190 P 39 53.80 -1.9
 NOZ 20.68 188 P 39 58.80 1.2
 HNR 22.67 289 eP 40 04.00 -11.8X
 THZ 24.73 196 P 40 34.30 0.2
 KHZ 25.19 194 P 40 37.20 -0.8
 EWZ 26.91 197 P 40 52.20 -0.8
 BRS 28.06 246 iPc 41 03.90 0.6
 i 41 15.50 45kmX
 i 41 27.00
 BWZ 28.12 198 P 41 01.70 -1.9
 TLC 28.96 198 P 41 10.30 -0.7
 COO 29.65 240 iPd 41 19.40 2.4
 0.8s 51.00nm 5.2mb
 RMQ 31.41 249 iPd 41 32.50 0.6
 0.6s 205.00nm 5.9mb
 i 41 46.00 53kmX
 CNB 33.29 233 iPc 41 48.90 1.2
 0.4s 88.00nm 5.7mb
 i 47 06.20
 CTAO 33.39 261 iPc 41 48.50 0.0
 0.9s 77.85nm 5.3mb
 i 42 06.00 73kmX
 CAN 33.57 233 iPd 41 50.70 0.7
 BWA 33.69 235 iPd 41 49.40 -1.6
 PMG 34.46 280 iPd 41 57.20 -0.3
 0.7s 506.85nm 6.3mb
 CMS 34.91 241 iPd 42 01.70 0.6
 0.6s 182.00nm 5.9mb
 QLP 35.44 249 iPd 42 05.70 0.2
 0.3s 515.00nm 6.6mb X
 i 42 21.20 61kmX
 i 47 13.40
 LAT 35.55 284 iPd 42 07.30 0.9
 TOO 37.03 231 iPd 42 19.90 1.5
 0.6s 83.00nm 5.5mb
 MDG 37.20 286 e(P) 42 12.00 -8.0X
 TAU 38.08 222 iPd 42 27.80 0.9
 STK 38.52 241 iPd 42 32.40 1.8
 0.6s 118.50nm 5.6mb
 iScP 47 25.00
 iS 47 46.40
 BFD 39.10 233 iPd 42 54.00 18.7X
 0.9s 112.00nm
 QIS 39.59 259 iPd 42 38.40 -1.0
 0.4s 32.00nm 5.2mb
 ADE 41.51 237 iPd 42 55.00 0.4
 0.9s 245.38nm 5.7mb
 WR2 44.54 260 iPc 43 17.30 -1.2
 0.6s 224.30nm 5.9mb
 i 43 47.50 133kmX
 WRA 44.57 260 P 43 16.00 -2.6
 0.4s 202.10nm 6.0mb
 ASPA 44.71 254 iPd 43 19.40 -0.4
 0.7s 1091.80nm 6.5mb X
 iS 49 12.90
 eScS 52 14.10
 GUA 47.90 309 eP 43 43.10 -1.0
 0.7s 345.21nm 6.0mb
 GUMO 47.97 309 eP 43 43.40 -1.1
 e 45 59.00
 PJG 47.97 309 eP 43 43.40 -1.1
 MTN 48.76 269 iPd 43 49.10 -1.5
 0.3s 240.00nm 6.2mb
 KNA 50.42 264 iPd 44 01.80 -0.9
 0.4s 191.00nm 5.9mb
 WARB 51.19 251 iPd 44 07.40 -0.9
 0.3s 30.00nm 5.2mb
 COOL 55.85 245 iPd 44 39.50 -1.7
 0.4s 65.00nm 5.3mb
 KUPT 56.57 270 eP 44 53.00 6.7X
 MBL 57.90 256 iPd 44 54.00 -1.3
 0.4s 56.00nm 5.2mb
 KLB 58.71 244 iPd 44 59.30 -1.3
 NWA0 59.10 242 eP 45 02.30 -0.8

		1.0s	48.81nm			5.5mb					
INK		92.07	15 ePc	48	02.50	-1.2					
		1.0s	41.00nm			5.4mb					
MEO		92.14	54 iPc	48	04.50	-0.3					
YKA		94.51	25 eP	48	14.30	-0.6					
		0.5s	5.30nm			5.0mb					
GTA		95.13	310 P	48	18.80	0.4					
		1.0s	9.00nm			5.0mb					
			pP	50	21.80	557kmX					
			PP	52	13.40						
QUE	119.83	295	ePKP	53	44.00	1.5					
KEV	126.04	349	ePKP	53	53.00	0.0					
NUR	134.52	344	ePKP	54	08.00	-1.3					
NB2	136.56	353	PKP	54	00.50	-12.8X					
	0.8s	1.00nm									
EKA	142.65	4	PKPd	54	20.20	-4.1X					
	0.9s	8.70nm									
DCN	144.15	9	iPKPc	54	25.70	-1.2					
	0.8s	80.00nm									
KRA	144.87	339	ePKP	54	27.80	-0.4					
WIT	145.12	355	ePKP	54	30.00	1.5					
KSP	145.28	344	iPKPc	54	30.40	1.5					
	1.0s	49.00nm									
		e	54	39.80							
		e	57	16.00							
SPC	145.50	338	e(PKP)	54	30.90	1.4					
CLL	145.63	347	iPKP	54	30.80	1.4					
	1.0s	54.00nm									
		e	56	52.00							
BRG	145.84	346	iPKPc	54	31.10	1.3					
	1.3s	34.00nm									
HRI	145.87	303	ePKP	54	32.30	1.8					
WTS	145.92	354	ePKP	54	31.50	1.7					
	1.0s	44.00nm									
MLR	145.97	329	ePKP	54	33.00	2.6X					
PRU	146.52	345	PKPc	54	33.30	2.4X					
		e	54	36.10							
MOX	146.54	348	ePKP	54	33.70	2.8X					
	1.6s	30.00nm									
JVI	146.57	301	ePKP	54	34.20	2.6X					
MEM	147.37	355	PKPc	54	35.40	3.2X					
ZST	147.41	341	ePKP	54	35.90	3.5X					
		e	25	03.00							
MBH	147.52	297	ePKP	54	36.60	3.3X					
GRF	147.53	348	iPKPc	54	36.30	3.7X					
		e	54	40.00							
KHC	147.55	345	ePKP	54	35.60	2.9X					
		e	54	39.90							
		e	56	53.50							
SNF	147.58	357	PKPc	54	36.10	3.5X					
DOU	147.98	356	PKPc	54	37.00	3.8X					
WLF	148.29	354	iPKPd	54	38.73	5.1X					
KBA	149.51	344	iPKPc	54	40.20	4.3X					
		i	54	49.00							
WTTA	149.75	346	iPKPc	54	41.30	5.0X					
	0.7s	28.70nm									
		i	54	49.60							
VOY	150.32	343	ePKP	54	42.20	5.2X					
VBY	150.38	340	ePKP	54	43.30	6.3X					
	S.D. = 1.1 on 121 of 148 obs.										
? OCT 14, 1991 14h 56m 06.25± 0.95s											
42.892 N ± 7.1km 18.964 E ± 8.1km											
DEPTH = 5.0km (geophysicist)											
NORTHWESTERN BALKAN REGION (383)											
ML 1.2 (TTG).											
NKY	0.08	162	iPgc	56	08.88	0.6					
			iSg	56	10.06						
BRY	0.31	272	iPg d	56	12.48	0.0					
			iSg	56	16.86						
TTG	0.51	155	iPg d								

HOOC	0.83	209	iPc	07	38.71	-0.2
			eS	07	55.00	
ANCC	0.93	223	iPc	07	39.00	-0.6
			eS	07	55.50	
PURC	1.87	184	eP	07	51.17	0.1
			eS	08	16.60	
S.D. = 0.6 on 6 of 6 obs.						
* OCT 14, 1991 15h 23m 21.67± 1.79s						
51.212 N ±21.3km 15.734 E ± 8.7km						
DEPTH = 10.0km (geophysicist)						
POLAND (548)						
ML 2.8 (WAR).						
KSP	0.51	136	iPd	23	30.40	-1.6
	0.7s	54.00nm	iS	23	38.50	
BRG	1.18	254	iPg	23	44.80	1.1
			iSg	24	04.80	
PRU	1.44	212	ePn	23	47.80	0.0
			Pg	23	50.10	
			e	23	54.40	
			Sn	24	06.00	
			eSg	24	13.40	
			i	24	22.20	
CLL	1.72	274	iPn	23	50.10	-1.7
			ePg	23	53.00	
			iSg	24	19.00	
HOF	2.61	251	ePn	24	04.30	-0.3
MOX	2.67	259	ePg	24	13.00	7.6X
			iSg	24	53.00	
WET	2.77	223	iPnc	24	07.70	0.8
KRA	2.92	112	eP	24	10.50	1.6
			eS	24	47.10	
VKA	2.97	172	iP	24	17.80	8.0X
			i	25	05.40	
S.D. = 1.6 on 7 of 9 obs.						
? OCT 14, 1991 15h 46m 46.91± 2.29s						
14.282 N ±30.4km 90.800 W ±21.5km						
DEPTH = 31.5 ± 13.6 km						
4.4mb (1 obs.)						
GUATEMALA (70)						
TPX	1.54	294	iP	47	12.00	-0.5
			iS	47	25.00	
OXX	6.35	297	iP	48	23.00	2.0
IISM	7.85	307 (P)		48	41.50	-0.3
PPM	8.88	303	iP	48	57.00	0.4
III	9.26	297 (P)		48	59.50	-2.1
MEO	21.59	342	iPd	51	35.50	-0.6
PNT	42.16	332	eP	54	39.00	0.8
	0.6s	5.00nm				4.4mb
GKN	137.74	6	PKP	06	11.00	0.3
KKN	138.01	5	PKP	06	11.40	0.1
PKI	138.24	5	PKP	06	11.60	-0.3
CHG	145.74	343	ePKP	06	24.50	-0.3
	1.4s	401.16nm				
			e	07	13.00	
			e	08	52.00	
			e	16	40.00	
S.D. = 1.2 on 11 of 11 obs.						
OCT 14, 1991 15h 58m 12.79± 0.11s						
9.094 S ± 3.1km 158.442 E ± 3.5km						
DEPTH = 23.4km (23 depth phases)						
6.3mb (60 obs.) 7.1MsZ (31 obs.)						
SOLOMON ISLANDS (193)						
Ms 7.0 (BRK). Mo=8.0+10.0+19 Nm						
(PPT). Felt strongly throughout						
the Solomon Islands. Two events						
about 10 seconds apart observed						
on broadband displacement						
seismograms.						
FAULT PLANE SOLUTION: P-Waves						
NP1: Strike=172 Dip=76 Slip= 90						
NP2: 352 14 90						
Principal Axes:						
T Plg=59 Azm= 82						
P 31 262						
Comment: The focal mechanism is						
poorly controlled and						
corresponds to reverse						
faulting. The preferred fault						
plane is NP2.						
RADIATED ENERGY						
No. of sto: 16 Focal mech.						

Energy	4.0±0.4*10**14 Nm	STK	27.55 212 iPd	04 00.40	0.5	TATO	49.43 314 eP	07 06.00	2.8	
MOMENT TENSOR SOLUTION			0.5s 30.50nm		5.2mb					
Dep 26	No. of sta: 19					SHK	49.78 332 ec	07 11.62	19km	
Moment Tensor:	Scale 10**19 Nm	AFI	29.56 102 ePc	04 14.63	-3.7X	TPI	50.87 274 ePc	07 06.00	0.3	
Mrr= 1.02	Mtt=-1.98		(S)	09 15.90			e	07 14.00	-0.3	
Mff= 0.95	Mrt= 1.64	WCZ	30.40 154 P	04 25.90	0.4		e	22 00.00		
Mrf=-5.09	Mtf= 3.09	TOO	30.67 200 eP	04 29.00	1.0	AFR	50.95 105 iP	07 14.30	-0.6	
Principal axes:			i	04 34.20	18km		1.4s 690.00nm		6.4mb	
T Val= 6.22	Plg=42	Azm=101	iPc	04 33.00	-1.7	PACI	51.08 269 iPc	07 14.40	-1.7	
N 0.35	31	338	i	04 41.80	31km	PAE	51.14 105 iP	07 15.80	-0.6	
P -6.58	32	225	i	05 35.00			1.4s 675.00nm		6.4mb	
Best Double Couple:Mo=6.4*10**19		ADE	31.46 212 iPd-	04 34.20	-0.7	PPT	51.15 105 iP	07 16.00	-0.4	
NP1:Strike=260 Dip=32 Slip= 11			0.9s 907.56nm		6.7mb		1.4s 620.00nm		6.3mb	
NP2: 161 84 121		KUZ	31.68 153 P	04 37.10	0.4	PPN	51.28 105 iP	07 17.00	-0.4	
CENTROID, MOMENT TENSOR (HRV)		TNE	32.51 286 eP	04 52.00	7.8X		1.4s 655.00nm		6.4mb	
Data Used: GDSN		MOZ	32.77 156 P	04 48.20	2.0	TVO	51.46 105 iP	07 18.50	-0.4	
L.P.B.: 27S, 80C M.W.: 22S, 50C		RUZ	33.52 156 P	04 53.20	0.4	OZH	51.50 312 Pd	07 25.00	6.0X	
Centroid Location:		URZ	33.55 153 P	04 52.30	-0.7		1.5s 300.00nm		6.0mb	
Origin Time 15:58:25.2 0.1		HBZ	33.57 151 P	04 53.20	0.0	Z	32s 128.00um		6.7MszX	
Lat 9.17S 0.01 Lon 158.36E 0.01			1.2s 394.00nm		6.2mb	N	22s 146.00um			
Dep 30.3 0.5 Half-duration 18.2		CNZ	33.67 156 P	04 55.20	1.0	E	22s 88.40um			
Moment Tensor: Scale 10**19 Nm		NGZ	33.67 156 P	04 55.00	0.8	TBI	51.72 113 iP	07 20.00	-0.7	
Mrr= 4.91 0.05	Mtt=-1.38 0.04	WHH	33.80 154 P	04 55.20	-0.1		1.2s 900.00nm		6.6mb	
Mff=-3.52 0.04	Mrt= 0.88 0.15	PUZ	33.93 151 P	04 55.00	-1.4	PASI	52.37 269 eP	07 23.00	-2.8	
Mrf=-5.29 0.17	Mtf= 3.73 0.03	PAHZ	34.02 154 P	04 57.30	0.2	KIP	52.41 54 eP	07 31.18	5.3X	
Principal Axes:		TAHZ	34.11 154 P	04 59.20	1.1		eS	14 53.61		
T Val= 7.54	Plg=62	Azm=103	NOZ	34.26 152 P	04 58.60	-0.6	eScs	17 26.32		
N 0.61	18	336	WAHZ	34.42 155 P	04 59.90	-0.7	OPA	52.55 54 P	07 26.00	-0.9
P -8.15	21	239	DIW	34.44 159 P	05 01.60	0.9	PMO	52.71 102 iP	07 28.00	-0.2
Best Double Couple:Mo=7.8*10**19		MAHZ	34.66 153 P	05 01.50	-1.1		1.4s 1345.00nm		6.7mb	
NP1:Strike=300 Dip=29 Slip= 51		MNG	34.86 157 P	05 03.20	-1.1	PENI	52.92 270 eP	07 30.80	0.9	
NP2: 163 68 109		TEHZ	34.85 155 P	05 03.80	-0.5		1.2s 36.00nm		5.2mb X	
		TCW	34.93 159 P	05 04.50	-0.4	VAH	52.96 102 iP	07 29.60	-0.5	
RAB 7.91 308 iP-	00 12.00	2.8	THZ	34.95 161 P	05 04.20	-1.0		1.4s 675.00nm	6.4mb	
PMG 11.15 267 iPc+	00 58.20	4.3X	TAU	35.07 194 eP	05 10.00	4.0X	TPT	52.97 102 iP	07 29.80	-0.4
LAT 11.59 281 e(P)	01 09.90	10.0X		i	05 17.10	24km		1.4s 1075.00nm	6.6mb	
BKM 12.78 133 iP	01 19.20	3.2X		eS	10 44.00		RUV	53.20 102 iP	07 31.20	-0.6
PVC 12.88 133 iP	01 16.50	-0.7	MRW	35.10 158 P	05 06.40	0.1		1.4s 805.00nm	6.5mb	
MDG 13.13 286 eP	01 33.00	12.5X	CAW	35.12 158 P	05 05.60	-1.0	HKC	53.44 306 e		

[illegible]

RVR	90.24	56 eP	11 13.00	-0.2			e	24 40.00			1.0s	40.00nm			
BONR	90.26	52 P	11 13.80	0.2			e	25 26.00				i	PKPc	17 07.50	
CPE	90.26	57 eP	11 15.50	2.2			e	27 12.00			MTD	121.50	244 i	17 06.20	-0.8
PEC	90.40	56 ePc	11 13.70	-0.3			e	33 16.00					i	17 18.00	
CLC	90.40	54 eP	11 14.00	0.0			LR	04 28.00					i	19 51.50	
INK	90.48	20 ePd	11 12.60	-1.0	TAB	112.95	307 ePKP	16 44.00	-6.2X				i	27 19.00	
	1.2s	175.00nm		6.2mb	RYD	113.53	293 ePdiff	13 17.00	18.6X				i	35 51.00	
PLM	90.54	56 eP	11 14.00	-0.9			eS	23 50.00			KAS	121.75	313 ePKP	17 09.00	2.2
BAR	90.58	57 eP	11 15.00	0.2	SOD	113.55	342 ePdiff	13 09.00	11.6X	HRI	122.19	304 ePKP	17 07.00	-1.0	
KVN	90.62	51 P	11 15.50	0.4	SOD	113.55	342 iPKP	16 56.40	6.1X	CBN	122.27	50 ePKP	17 07.00	-0.8	
GSC	90.94	55 eP	11 16.00	-0.5			e	17 06.00			KFNJ	122.50	302 PKP	17 12.30	3.9X
TNP	91.12	52 P	11 17.70	0.3	BKR	114.56	312 iPdiff	13 12.00	9.3X	MKRJ	122.50	302 PKP	17 10.20	1.5	
PNT	91.61	40 ePd	11 20.00	0.8	BHD	115.02	302 ePKP	16 38.00	-16.2X	CER	122.63	221 ePdiff	13 39.00	0.4	
	1.2s	119.00nm		6.2mb			i	18 04.00			1.0s	100.00nm			
FRU	91.62	313 eP	11 20.00	0.6			eSKKS	25 25.00				i	17 12.50		
GLA	92.17	57 eP	11 23.00	0.8	NPA	115.13	249 iSKKS	27 03.50		ADI	122.65	303 ePKP	17 07.50	-1.2	
NEW	93.03	42 ePd	11 24.00	-1.8			ePKP	16 58.00	3.1X	HFS	122.65	340 ePKP	17 05.00	-2.8	
	1.0s	102.50nm		6.2mb			e	18 06.80			0.6s	5.40nm			
DUG	94.84	50 P	11 35.60	1.2			e	23 57.60		Z	18s	34.33um		7.0MsZ	
	1.3s	105.71nm		6.1mb	OBN	115.34	327 ePdiff	13 06.00	0.4	BUL	122.72	239 iPKPd	17 09.00	-0.4	
MSU	95.11	52 P	11 36.40	0.6		1.2s	*****nm					i	17 18.70		
PTI	95.52	48 P	11 38.80	1.3	Z	12s	1.30um		5.8MsZx			i	22 12.80		
DAU	96.05	50 P	11 41.00	0.8	OBN	115.34	327 ePKP	17 01.00	7.0X			i	27 10.50		
YKA	96.59	28 eP	11 43.50	1.8		1.0s	*****nm					i	32 52.50		
	0.8s	26.70nm		5.8mb	Z	11s	6.50um		6.5MsZx	NB2	122.77	342 PKP	17 06.10	-2.0	
MBC	96.91	14 ePd	11 42.00	-0.9	N	15s	1.20um				0.8s	17.10nm			
	1.0s	68.00nm		6.1mb	E	15s	2.20um			UPA	122.80	85 ePdiff	13 48.00	8.3X	
NVL	97.19	191 ePd	11 46.50	2.1			ePcP	17 10.00		UPA	122.80	85 iPKPc	17 10.00	0.6	
		e	12 20.00	129kmX			e	17 27.00			1.0s	50.00nm			
		e	12 42.00				ePP	18 08.00		ANTO	122.90	312 ePKP	17 07.37	-1.7	
		e	13 08.00				eSKS	23 44.00				eHPP	18 56.78		
		e	13 38.00				eSKKS	25 01.00				ePP	18 57.61		
		e	13 54.00				eSKKS	25 51.00		PRNI	123.33	300 ePKP	17 08.90	-1.2	
		e	14 04.00				ePS	27 30.00		TBR	123.73	46 ePKP	17 11.30	0.7	
		e	15 03.00				ePKKS	31 20.00		PNJ	123.86	46 PKPd	17 11.20	0.4	
		e	15 25.00				eSS	33 21.00		PPE	124.15	321 ePKP	17 13.00	1.8	
		ePP	15 52.00				ePPP	35 23.00		CLI	124.21	321 ePKP	17 16.50	5.1X	
		e	16 26.00				eSSS	37 34.00		CFR	124.24	319 ePKP	17 10.00	-1.4	
		e	16 42.00		MSL	115.67	306 ePKP	17 03.50	8.2X			e	30 15.00		
		e	16 54.00				e	18 07.00		LPA	124.34	144 Pdiff	13 56.00	9.8X	
		e	17 25.00				ePP	19 48.00		Z	18s	54.98um		7.3MsZ	
		e	17 38.00				ePKS	20 35.50				ePP	19 04.00		
		ePPP	18 09.00				eSKS	23 55.00		LPA	124.34	144 ePKP+	17 20.00	8.1X	
		e	18 16.00				eSKKS	26 03.00		ARE	124.45	117 ePdiff	14 02.00	14.5X	
SES	97.26	40 eP	11 45.00	0.0	LNv	116.23	135 ePKP	17 04.00	7.6X	ARE	124.45	117 ePKP	17 13.00	0.0	
	1.5s	163.00nm		6.3mb	TACH	116.73	135 ePKP	17 04.00	6.6X	BNH	124.49	41 PKP	17 12.60	0.6	
BW06	97.57	48 ePc	11 47.00	0.1	KAF	116.75	337 ePKP	16 56.50	0.0	TLB	124.56	319 ePKP	17 14.00	2.0	
	1.0s	60.83nm		6.1mb	PCH	117.04	135 ePKP	17 05.00	6.9X	GPA	124.58	313 ePKP	17 12.00	-0.3	
ALO	99.30	56 eP+	11 57.00	2.2	PEL	117.18	135 ePKP	17 00.00	1.6	POF	124.67	225 ePKP	17 06.00	-6.7X	
	1.0s	13.25nm		5.4mb	GBTN	117.42	55 ePKPc	17 04.80	6.1X		1.0s	70.00nm			
		e	16 06.50		NUR	118.33	336 ePdiff	13 26.00	7.2X	ANCC	124.79	92 ePKPc	17 10.96	-2.5	
ANMO	99.30	56 ePc	11 54.93	0.1	NUR	118.33	336 iPKP	16 58.20	-1.4	BRD	124.80	320 ePKP	17 15.00	2.5	
		ic	12 03.04	25km		0.7s	28.00nm			VRI	124.86	321 ePKPc	17 14.00	1.4	
AIA	99.39	163 eP	12 09.60	15.2X	Z	20s	40.30um		7.0MsZ		ed	35 16.00			
SNA	99.69	187 eP	11 58.20	2.5			i	17 06.40		HRT	124.86	314 ePKP	17 12.00	-0.8	
	1.0s	62.00nm		6.1mb			e	18 16.00		HOQC	125.02	92 ePKP	17 10.23	-4.0X	
GOL	100.49	51 Pdiff	12 02.40	2.1			e	20 34.00		LSZ	125.08	244 iPKP	17 14.00	0.0	
GLD	100.60	51 Pdiff	12 02.70	2.0			e	23 56.00				i	17 16.00		
	Z 20s	250.00um		7.7MsZ			e	25 28.00				i	17 23.00		
RSSD	101.66	47 ePdiff	12 04.20	-1.1			e	26 04.00				i	17 26.50		
	1.3s	71.79nm		6.1mb			e	28 04.00		PURC	125.11	94 ePKP	17 13.40	-1.3	
FFC	102.90	36 ePdiff	12 30.00	19.7X			e	34 32.00		CLMC	125.15	92 ePKP	17 12.86	-1.5	
	0.8s	11.00nm					LR	10 12.00		YLV	125.16	314 ePKP	17 13.00	-0.4	
MEO	105.76	56 ePdiff	12 39.50	16.0X	CLE	118.35	48 iPKP	17 01.00	0.7	IZI	125.17	313 ePKP	17 14.00	0.5	
TUL	108.03	55 ePKP+	16 44.80	4.0X	BFT	119.07	234 ePdiff	13 15.00	-8.2X	MLR	125.51	320 ePKP	17 12.50	-1.6	
	1.0s	24.10nm				1.0s	65.00nm			CTT	125.62	315 ePKP	17 12.00	-2.3	
	Z 20s	160.58um		7.6MsZ			i	17 03.50		HOBC	125.64	91 ePKP	17 12.03	-3.2X	
	N 20s	63.42um			RTCB	119.42	134 iPKPc	17 03.00	0.3	KHL	125.80	311 ePKP	17 13.00	-1.8	
	E 20s	119.85um			SEK	119.67	230 e(Pdiff	13 29.50	3.7X	DMK	125.84	316 ePKP	17 12.00	-2.7	
		e	23 33.00				i	17 14.50		BMR	125.96	324 ePKPc	17 17.00	2.3	
		e	25 02.00				i	17 12.00	8.3X	AMAN	126.03	293 ePKP	17 16.00	0.5	
		e	26 35.00		CIR	119.84	240 iPKPd	17 12.00		KOT	126.10	300 ePKP	17 16.50	1.0	
		e	32 40.00				i	17 48.00		UZH	126.15	325 ePdiff	14 07.00	13.1X	
		e	36 28.00		BLA	120.15	52 ePKPc	17 10.00	6.1X	AKUR	126.18	293 ePKP	17 17.00	1.2	
		e	39 12.00		KVT	120.18	312 ePKP	17 06.00	2.2	CMP	126.18	321 ePKPc	17 19.00	3.7X	
		e	43 42.00		SIM	120.40	317 ePdiff	13 40.00	11.6X	COP	126.38	337 iPdiff	14 12.00	17.3X	
		LR	47 16.00		AAE	120.49	275 Pdiff	13 46.00	16.1X			i	17 17.00		
DHR	110.34	295 ePdiff	12 52.00	8.0X	NAI	120.96	263 Pdiff	13 40.00	8.1X	MFT	126.57	315 ePKP	17 12.00	-4.2X	
		eS	23 20.00		Z	20s	48.23um		7.1MsZ	KRA	126.64	328 ePdiff	14 08.00	12.0X	
APA	111.29	340 ePdiff	13 00.00	12.7X			PcS	18 09.50				e	17 16.30		
KEV	112.01	344 ePKP	16 50.00	2.8			SS	24 22.00				e	17 23.30		
	Z 22s	52.30um		7.1MsZ			LQ	28 12.00				e	17 35.90		
		e	16 57.00		UPP	121.46	338 iPdiff	13 44.00	11.3X			i	19 24.00		
		e	17 34.00		UPP	121.46	338 iPKP	17 04.20	-1.3			i	24 36.00		
		e	19 46.00				iPP	18 23.00		SPC	126.98	327 ePKP	17 17.00	0.1	
		e	23 44.00		KSR	121.47	232 ePdiff	13 51.50	17.7X			i	17 24.80		

CNCB	127.37	119	PKP	17 34.60	-16.0X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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			DEPTH = 33.0km (normal)						eS 22 25.00		
			5.3mb (12 obs.)						MAIO 81.51 308 eP 11 32.00 0.3		
			IRIAN JAYA REGION, INDONESIA (196)						SHI 86.18 300 eP 11 54.00 -1.6		
									IR4 88.23 305 eP 12 05.00 0.4		
									IR4 88.23 305 eP 12 06.40 1.0		
									IR1 88.43 306 eP 12 07.70 1.4		
									IR7 88.53 306 eP 12 08.00 1.2		
									TNR 108.05 317 ePKPd 17 47.00 5.0X		
									UPA 144.88 81 iPKPc 18 52.50 0.4		
									0.9s 67.23nm		
									S.D. = 1.0 on 49 of 57 obs.		
									OCT 14, 1991 16h 16m 57.22± 0.10s		
									9.080 S ± 2.4km 158.599 E ± 2.6km		
									DEPTH = 31.3km (14 depth phases)		
									5.9mb (53 obs.) 6.4Msz (2 obs.)		
									SOLOMON ISLANDS (193)		
									Felt on Santa Isabel.		
									BKM 12.68 133 iPd 19 57.20 -1.1		
									PVC 12.78 133 iP 19 58.00 -1.5		
									DZM 14.96 151 iPc 20 28.10 -0.2		
									MNDI 15.09 280 eP 20 33.00 2.8X		
									BRS 19.03 196 iPc 21 20.50 1.1		
									1.0s 42.60nm		
									i (pP) 21 27.00 25km		
									iS 24 47.00		
									MENI 19.22 289 eP 21 19.20 -2.6		
									RMO 19.67 207 iPd 21 29.00 2.2		
									MBU 21.10 114 ePc 21 42.50 0.8		
									COO 22.29 195 eP 21 54.00 0.5		
									CMS 25.26 206 e(P) 22 25.00 2.7X		
									i 22 35.00 37km		
									WR2 25.79 243 eP 22 28.00 0.6		
									0.6s 68.10nm		
									GUA 26.26 329 eP 22 32.70 1.0		
									1.1s 637.97nm		
									e 22 41.00 29km		
									GUMO 26.32 329 eP 22 32.50 0.2		
									e 22 41.00 30km		
									e 23 03.00		
									PJG 26.32 329 eP 22 33.00 0.7		
									BWA 26.90 199 eP 22 40.50 3.0X		
									MTN 27.22 260 eP 22 41.00 0.5		
									CNB 27.44 197 iP 22 55.00 12.5X		
									CAN 27.55 197 eP 22 47.80 4.4X		
									STK 27.64 212 iPd 22 45.40 1.2		
									1.3s 35.90nm		
									ASPA 27.71 235 eP 22 44.40 -0.6		
									1.0s 77.50nm		
									KNA 29.85 254 eP 23 04.50 0.2		
									TOO 30.74 201 eP 23 13.00 1.1		
									i 23 36.70 106kmX		
									BFD 31.52 205 e(P) 23 13.00 -5.8X		
									e 23 18.00 17kmX		
									KUZ 31.62 153 P 23 20.10 0.5		
									e 23 34.40 57kmX		
									MOZ 32.72 156 P 23 30.50 1.3		
									RUZ 33.47 156 P 23 36.40 0.7		
									URZ 33.49 153 P 23 35.90 0.0		
									HBZ 33.51 151 P 23 35.90 -0.1		
									1.3s 549.00nm		
									CNZ 33.62 156 P 23 38.00 0.9		
									NGZ 33.62 156 P 23 38.60 1.4		
									WHH 33.74 154 P 23 38.50 0.3		
									PUZ 33.87 152 P 23 38.60 -0.6		
									PAHZ 33.96 154 P 23 40.10 0.1		
									NOZ 34.20 152 P 23 41.80 -0.3		
									MOH 34.23 154 P 23 42.70 0.4		
									WAHZ 34.37 155 P 23 43.10 -0.4		
									TTH 34.43 155 P 23 43.90 -0.1		
									KUPT 34.51 265 eP 23 56.50 11.5X		
									MAHZ 34.60 153 P 23 45.70 0.2		
									WARB 34.74 237 eP 23 47.00 0.1		
									TEHZ 34.80 155 P 23 46.50 -0.7		
									KIW 34.81 158 P 23 46.90 -0.3		
									MNG 34.81 157 P 23 46.50 -0.8		
									1.0s 426.00nm		
									TCW 34.88 159 P 23 47.90 0.0		
									THZ 34.92 161 P 23 47.90 -0.3		
									MRW 35.05 159 P 23 48.40 -0.9		
									CAW 35.08 158 P 23 49.10 -0.5		
									PGZ 35.12 156 P 23 49.10 -0.7		
									1.0s 530.00nm		
									TAU 35.12 194 eP 23 54.00 4.2X		
									WEL 35.12 159 P 23 49.10 -0.8		
									e 24 07.80 77kmX		

14d	16h																			
WDW	35.19	158	P	23	49.80	-0.7			sP	26	45.50			pP	29	34.50	50kmX			
MTW	35.28	158	P	23	50.60	-0.7	KSI	55.88	272	eP	26	37.50	2.7X	PP	32	35.00				
MOW	35.42	158	P	23	51.50	-1.0			e	27	29.00	230kmX	SKS	39	34.00					
BLW	35.45	158	P	23	51.40	-1.4	KGM	56.17	279	eP	26	39.00	2.1	S	39	38.00				
WVZ	35.49	165	P	23	53.70	0.7	WHN	57.92	315	Pc	26	53.00	4.0X	HYB	83.32	289	eP	29	23.20	0.2
KHZ	35.71	161	P	23	53.80	-1.1			pP	27	04.50	40km		1.6s	216.60nm					6.0mb
	0.9s	423.00nm				6.4mb	DL2	58.83	327	P	26	55.00	-0.2		eSKS	39	42.00			
EWZ	35.93	165	P	23	57.60	0.9	IPM	58.97	281	ePc	26	56.00	-0.6	FBA	83.79	20	iPd	29	23.30	-1.2
MOZ	36.61	163	P	24	01.80	-0.6	MDJ	59.53	336	eP	27	00.00	0.1	MAW	83.86	203	iP	29	26.00	1.2
DAV	36.62	295	eP	24	04.00	1.1			2.0s	380.00nm		6.2mb		1.1s	127.00nm					6.0mb
BWZ	36.65	166	P	24	02.10	-0.6	TIA	59.59	322	eP	27	00.00	-0.5	FHC	86.49	48	iPc	29	39.94	1.5
NINI	38.83	274	iPd	24	18.80	-2.9	SNY	59.98	330	Pd	27	02.40	-0.6		iPc	29	48.99	28km		
	2.0s	24.00nm				4.6mb	CN2	60.62	333	Pc	27	06.80	-0.6	PCC	86.87	51	iPc	29	40.99	0.7
MKS	39.00	273	ePd	24	16.50	-6.4X			1.8s	530.00nm		6.4mb	GCC	87.06	52	iPc	29	42.19	0.9	
MBL	39.19	248	eP	24	24.50	0.1	AEKI	60.95	277	iPc	27	20.00	9.7X		eP	29	51.11	28km		
TANI	39.36	276	ePd	24	26.00	0.1			0.8s	33.00nm		5.5mb	PRS	87.39	53	iPc	29	44.12	1.2	
	1.6s	29.00nm				4.8mb	SIBI	61.13	279	ePd	27	13.20	1.4		iPd	29	53.81	30km		
PCI	39.42	280	ePc	24	30.20	3.8X	GYA	61.55	307	P	27	14.60	0.4	MHC	87.41	52	ePc	29	43.90	0.8
	1.5s	9.00nm				4.3mb			1.6s	91.00nm		5.7mb	WDC	87.49	48	iPc	29	44.15	0.9	
COOL	41.05	233	eP	24	40.00	0.3	LOE	62.05	295	eP	27	17.50	0.0		eP	29	53.06	28km		
KEDI	42.04	268	iPd	24	46.80	-1.3			e	37	52.00		LLA	87.79	53	iPc	29	45.85	1.0	
	0.8s	13.00nm				4.7mb	BJI	62.66	324	eP	27	21.00	-0.2		iPd	29	55.40	30km		
BKB2	42.22	278	ePc	24	52.00	2.6X			1.5s	160.00nm		5.9mb	PRI	87.90	53	iPc	29	46.98	1.5	
KHK1	42.48	268	eP	24	51.00	-0.6	N	14s	18.20um					eP	29	55.99	28km			
		e		35	45.30				eS	35	47.00		DRV	88.03	50	iPc	29	46.00	0.1	
TSM	42.72	286	ePd	24	55.20	1.8	NST	62.90	293	eP	27	27.00	3.8X		iPd	29	55.81	31km		
SRDI	43.92	267	iPd	25	02.00	-1.3	TIY	63.45	320	eP	27	25.40	-1.2	PHAM	88.04	53	P	29	47.20	1.1

BRG	129.18	332	iPKP	36	03.70	-0.2	TPR	0.14	169	iP	53	18.67	-0.1			e	06	42.00		
	1.8s	130.00nm					BOT	0.18	152	eP	53	18.83	-0.6	TSM	42.47	286	ePc	03	50.00	1.1
		e		38	33.00				eS	53	37.96			BAL	44.33	235	eP	04	04.80	0.9
CLL	129.31	333	iPKP	36	03.80	-0.4	TBH	0.88	197	eP	53	32.81	0.6	MRWA	44.46	237	eP	04	05.40	0.5
	1.9s	90.00nm					TRN	0.89	221	iP	53	32.51	0.0	BAG	45.12	304	ePc	04	10.50	-0.1
		i		36	11.90				eS	53	43.34				1.0s	80.00nm			5.6mb	
ZST	129.32	327	e(PKP)	36	04.00	-0.3	TCE	1.12	236	eP	53	36.55	0.1	MAT	49.12	338	iPd	04	41.10	-0.4
		e		48	17.00				eS	53	52.09				0.9s	26.89nm			5.3mb	
PRU	129.48	331	ePKP	36	04.20	-0.3	GRW	1.18	315	eP	53	37.81	0.3	TPI	50.78	274	ePd	04	55.00	0.5
	2.0s	75.10nm					TPP	1.19	212	eP	53	39.18	1.6			e	06	00.00	307kmX	
		e		36	43.00		SVB	1.98	347	eP	53	49.76	0.4	SSE	53.48	320	eP	05	12.50	-1.9
		e		38	14.00				eS	54	19.60		QIZ	55.35	301	P	05	28.80	0.4	
VKA	129.69	328	ePKP	36	05.00	0.0	BIM	3.18	355	iPd	54	06.76	0.3	WHN	57.71	315	eP	05	41.00	-4.0X
SKO	130.13	318	iPKP	36	06.00	0.0	MVM	3.21	358	iPd	54	06.52	-0.4	IPM	58.72	281	ePd	05	52.00	-0.4
	1.9s	185.00nm					FDF	3.40	354	eP	54	09.96	0.3	TIA	59.39	322	eP	05	58.70	2.0
MOX	130.40	333	e(PKP)	36	06.00	-0.3	CRM	3.41	358	iPd	54	09.43	-0.3	SNY	59.81	330	Pc	05	58.00	-1.4
KHC	130.52	330	ePKP	36	06.50	-0.1	BBL	4.22	351	eP	54	21.90	0.6		1.2s	18.00nm			5.1mb	
	1.6s	67.20nm					MGG	4.59	354	eP	54	26.40	-0.1	CN2	60.46	333	iPc	06	03.60	-0.3
		e		36	16.00		DOG	4.74	350	eP	54	29.25	0.5		0.8s	78.00nm			5.9mb	
OHR	130.96	318	ePd iff	33	05.30	6.4X	PAG	4.75	350	eP	54	29.20	0.3	GYA	61.32	307	iPd	06	10.40	0.2
GRF	131.26	332	ePKP	36	07.80	-0.2			S	55	26.00			1.2s	17.00nm			5.1mb		
ZAG	131.37	326	ePKP	36	08.00	-0.2	GUAN	4.95	255	iP	54	32.30	0.6	LOE	61.80	295	iPc	06	13.00	-0.5
SDV	131.40	86	iPKPc	36	08.60	-0.9			iS	55	33.00		BJI	62.48	324	eP	06	17.00	-0.5	
BHG	131.81	329	ePKP	36	09.80	0.7	DEG	4.96	357	eP	54	31.00	-0.8		1.5s	40.00nm			5.4mb	
VBV	131.96	326	ePKPd	36	09.90	0.5	SEG	5.09	352	eP	54	34.00	0.4	NST	62.66	293	eP	06	22.00	2.9X
KBA	132.00	328	iPKPc	36	05.40	-4.3X	BPA	5.78	350	eP	54	44.00	0.7	TIY	63.25	320	eP	06	22.00	-0.8
		i		36	0															

140 17h

SPC 126.87 327 ePKP 14 57.90 0.3
 CNCB 127.48 119 PKP 15 00.30 0.2
 LPB 127.49 119 PKP 15 00.00 0.1
 BRG 129.01 332 iPKP 15 01.40 0.1
 1.5s 25.00nm
 ZST 129.14 327 ePKP 15 01.80 0.2
 CLL 129.15 333 iPKPd 15 01.40 -0.1
 1.4s 20.00nm
 PRU 129.32 330 ePKP 15 01.50 -0.4
 KHC 130.36 330 PKP 15 04.10 0.1
 1.3s 10.90nm
 BAO 144.20 133 iPKPd 15 28.00 -2.5
 TOL 145.49 336 iPKPc 15 32.50 0.6
 1.2s 195.31nm
 PTO 145.99 342 ePKP 15 33.00 0.4
 PDCR 152.43 141 ePKP 15 43.80 0.5
 1.5s 49.40
 SOB1 153.63 133 ePKP 15 45.80 0.7
 1.5s 52.20

S.D. = 0.9 on 91 of 96 obs.

? OCT 14, 1991 17h 57m 25.43± 9.19s
 39.384 N ± 73.5km 26.959 E ± 15.9km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

EZN 0.66 312 ePg 57 38.50 0.0
 iSg 57 47.20
 KGT 1.10 14 ePn 57 46.00 0.0
 EDC 1.19 36 ePn 57 47.50 -0.1
 MFT 1.42 10 iPn 57 51.50 0.1

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

OCT 14, 1991 18h 16m 23.24± 0.33s
 8.940 S ± 5.3km 158.230 E ± 7.2km
 DEPTH = 21.8km (4 depth phases)
 4.9mb (14 obs.)
 SOLOMON ISLANDS (193)

HNR 1.76 106 e(P) 16 52.00 -0.9
 DZM 15.26 150 iPc 20 00.00 1.7
 CTAO 16.03 225 iPc 20 08.00 -1.1
 1.0s 35.00nm 4.4mb
 BRS 19.06 195 iPc 20 46.20 -0.7
 1.0s 6.00nm 3.8mb X
 21 12.00 149kmX
 RMQ 19.63 206 iPd 20 53.50 0.0
 1.0s 88.00nm 5.0mb
 QIS 21.37 235 iPc 21 06.00 -5.6X
 21 13.30 27km
 QLP 22.00 215 eP 21 18.00 0.2
 COO 22.33 195 e(P) 21 20.00 -1.1
 CMS 25.23 205 eP 21 49.00 -0.2
 1.0s 75.00nm 5.3mb
 WR2 25.53 242 eP 21 53.00 0.8
 0.7s 7.50nm 4.4mb
 25 30.00
 BWA 26.92 198 eP 22 05.70 0.8
 CNB 27.48 196 eP 22 13.00 3.0X
 ASPA 27.49 235 iPd 22 09.70 -0.6
 1.1s 8.30nm 4.3mb
 STK 27.57 212 iPc 22 10.60 -0.1
 0.4s 6.00nm 4.6mb
 25 34.70
 CAN 27.58 196 eP 22 13.20 2.3
 BFD 31.50 204 eP 22 43.00 -2.8
 22 49.00 21km
 PCI 39.04 280 ePc 23 53.60 3.1X
 1.0s 3.00nm 4.0mb
 BAG 44.97 304 eP 24 39.00 -0.2
 QIZ 55.20 301 eP 25 57.70 0.5
 TIA 59.25 322 eP 26 28.00 2.4
 CN2 60.33 333 Pc 26 32.40 -0.4
 0.8s 23.00nm 5.4mb
 GYA 61.17 307 P 26 39.40 0.4
 XAN 63.33 315 P 26 52.10 -1.1
 KHT 63.64 291 eP 26 56.00 0.5
 CHG 64.63 296 eP 27 02.00 0.1
 CD2 65.51 310 eP 27 04.20 -3.2X
 LZH 67.94 315 eP 27 24.00 1.0
 2.0s 28.00nm 5.1mb
 27 37.50
 GTA 72.35 316 eP 27 50.00 0.3
 1.0s 11.00nm 4.9mb
 YAK 74.13 346 eP 27 57.60 -1.9

LSA 75.01 304 P 28 06.60 0.8
 1.0s 20.00nm 5.1mb
 IRK 76.36 329 ePc 28 11.90 -0.6
 GUN 78.86 301 P 28 27.16 -0.1
 PKI 79.17 300 P 28 28.76 -0.1
 KKN 79.34 300 P 28 29.34 -0.3
 DMN 79.43 300 P 28 30.36 0.1
 GKN 79.94 301 P 28 32.48 -0.4
 SPA 81.12 180 iPd 28 37.80 -0.5
 0.8s 12.50nm 5.0mb
 WMO 82.43 316 P 28 45.40 0.0
 1.1s 12.00nm 4.9mb
 28 52.00 21km
 HYB 82.93 289 ePd 28 49.00 0.6
 28 55.00 19km
 FBA 83.79 20 iPd 28 50.50 -1.4
 0.8s 31.03nm 5.6mb
 29 03.30 43kmX
 MAW 83.84 203 e(P) 28 54.00 1.9
 MWC 89.81 55 eP 29 23.00 0.8
 SBB 90.09 55 eP 29 24.00 0.7
 CLC 90.48 54 eP 29 25.00 0.0
 NB2 122.56 342 PKP 35 16.80 -1.6
 0.7s 1.10nm
 KHC 130.22 330 ePKP 35 33.00 -0.5
 35 40.50
 SDI 134.75 322 PKP 35 45.50 3.1X
 eSg 35 49.00
 BAO 144.35 133 ePKPc 35 57.00 -3.5X
 PDCR 152.57 141 (PKP) 36 14.00 0.7
 SOB1 153.77 133 ePKP 36 22.30 7.2X
 36 27.30

S.D. = 1.1 on 43 of 50 obs.

? OCT 14, 1991 18h 30m 39.32± 1.85s
 9.113 S ± 30.7km 158.675 E ± 43.2km
 DEPTH = 33.0km (normal)
 4.4mb (2 obs.)
 SOLOMON ISLANDS (193)

RMQ 19.67 207 eP 35 08.60 -0.1
 QIS 21.63 236 eP 35 30.00 1.1
 STK 27.65 213 iPc 36 26.40 0.2
 0.5s 4.10nm 4.4mb
 ASPA 27.76 236 eP 36 26.00 -1.3
 0.9s 7.30nm 4.4mb
 NB2 122.86 342 PKP 49 33.40 0.1
 0.7s 1.00nm

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

? OCT 14, 1991 18h 58m 18.57± 1.15s
 40.515 N ± 14.3km 27.844 E ± 6.2km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

KGT 0.42 261 iPg 58 27.00 -0.1
 MFT 0.51 302 iPg 58 29.00 0.1
 eSg 58 36.00
 CTT 0.77 35 iPg 58 33.50 -0.1
 iSg 58 44.50
 YLV 1.17 87 ePn 58 40.50 0.1

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

* OCT 14, 1991 19h 10m 06.12± 0.50s
 9.133 S ± 12.2km 158.671 E ± 8.7km
 DEPTH = 33.0km (normal)
 3.9mb (2 obs.)
 SOLOMON ISLANDS (193)

HNR 1.29 103 eP 10 28.00 0.0
 eS 10 50.00
 WR2 25.83 243 iPc 15 35.80 -0.6
 1.0s 4.20nm 4.0mb
 STK 27.63 213 iPd 15 52.90 0.1
 1.3s 3.60nm 3.9mb
 CHG 65.10 296 eP 20 46.00 -0.3
 LZH 68.39 315 eP 21 06.50 -0.6
 1.0s 21.00nm 5.2mb X
 21 14.00
 YAK 74.42 346 eP 21 41.60 -0.8
 GUN 79.33 301 P 22 11.20 0.2
 PKI 79.64 300 P 22 13.00 0.3
 KKN 79.81 300 P 22 13.80 0.4
 DMN 79.91 300 P 22 14.80 0.8
 GKN 80.41 300 P 22 17.20 0.6
 PDCR 152.15 140 (PKP) 29 59.00 5.1X
 SOB1 153.32 133 ePKP 30 01.00 5.4X

S.D. = 0.6 on 11 of 13 obs.

* OCT 14, 1991 19h 20m 44.35± 1.51s
 4.611 S ± 15.1km 102.854 E ± 14.1km
 DEPTH = 83.9 ± 10.9 km
 4.3mb (2 obs.)
 SOUTHERN SUMATRA, INDONESIA (274)

KSI 1.01 345 iPd 21 03.90 0.0
 iS 21 17.50
 e 24 06.00
 TPI 5.13 69 iPd 22 00.50 0.2
 iS 23 40.00
 e 25 00.00
 KHT 19.73 348 eP 25 09.30 -0.7
 CHTO 23.59 351 P 25 48.70 0.2
 ASPA 35.42 125 eP 27 33.70 -0.8
 1.7s 5.30nm 4.2mb
 PKI 36.16 333 P 27 40.88 0.0
 GUN 36.24 334 P 27 41.88 0.3
 DMN 36.33 333 P 27 42.60 0.4
 KKN 36.40 333 P 27 42.82 0.0
 GKN 36.88 333 P 27 46.66 -0.1
 STK 45.30 131 iPd 28 56.20 0.6
 0.6s 3.30nm 4.4mb

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

OCT 14, 1991 19h 31m 51.80± 0.29s
 9.207 S ± 5.4km 158.728 E ± 7.0km
 DEPTH = 26.1km (4 depth phases)
 4.9mb (10 obs.) 5.0msz (1 obs.)
 SOLOMON ISLANDS (193)

RAB 8.20 307 e(P) 34 02.00 9.9X
 PMG 11.42 268 eP 34 42.00 5.6X
 DZM 14.78 151 iPc 35 20.50 -0.6
 RMQ 19.62 208 eP 36 20.00 -1.4
 QIS 21.63 236 iPd 36 43.00 0.8
 QLP 22.07 217 e(P) 36 49.00 2.4
 i 36 54.00 18km
 COO 22.20 196 eP 36 47.00 -0.9
 i 37 17.20 153kmX
 CMS 25.20 207 eP 37 18.00 1.0
 WR2 25.85 243 eP 37 21.70 -1.4
 0.7s 8.90nm 4.5mb
 iPd 37 56.30 171kmX
 BWA 26.82 199 eP 37 36.50 4.5X
 CAN 27.47 197 eP 37 45.30 7.4X
 STK 27.60 213 eP 37 38.50 -0.6
 0.6s 5.90nm 4.5mb
 ASPA 27.75 236 iPc 37 39.80 -0.8
 1.3s 25.50nm 4.8mb
 ADE 31.51 213 e(P) 38 13.20 -0.8
 0.9s 52.10nm 5.4mb
 PCI 39.57 280 e(P)c 39 27.50 4.6X
 BAG 45.53 304 eP 40 06.00 -5.6X
 NJ2 55.98 319 Pc 41 26.20 -4.3X
 CN2 60.79 333 eP 42 02.60 -1.3
 1.2s 18.00nm 5.1mb
 pP 42 14.00 39kmX
 GYA 61.73 307 P 42 11.60 0.9
 BJI 62.84 324 eP 42 17.00 -0.7
 1.3s 12.00nm 4.9mb
 TIY 63.63 320 eP 42 22.00 -1.1
 XAN 63.86 315 P 42 23.60 -1.1
 KHT 64.20 291 eP 42 28.50 1.4
 KMI 64.31 304 Pc 42 29.00 1.0
 pP 42 35.00 19km
 sP 42 38.50
 CHG 65.18 296 eP 42 34.00 0.5
 CD2 66.06 310 eP 42 37.60 -1.3
 HHC 66.07 323 eP 42 39.00 0.1
 BTO 66.86 322 eP 42 44.00 0.1
 LZH 68.48 315 eP 42 54.50 0.2
 1.5s 28.00nm 5.2mb
 Z 18s 0.86um 5.0msz
 E 15s 0.41um
 pP 43 05.00 34km
 PP 45 25.50
 GTA 72.88 316 eP 43 21.00 0.2
 1.0s 11.00nm 4.8mb
 pP 43 31.40 34km
 YAK 74.51 346 eP 43 28.60 -1.0
 i 43 41.00 42kmX
 GUN 79.42 301 P 43 59.08 0.9
 PKI 79.72 300 P 43 59.94 0.1
 KKN 79.89 300 P 44 00.44 -0.1

14d 19h

DMN 79.99 300 P 44 00.96 -0.2
 GKN 80.50 300 P 44 04.22 0.5
 SPA 80.85 180 iPd 44 04.70 -0.1
 1.0s 25.00nm 5.2mb
 WMO 82.96 316 P 44 16.50 0.4
 1.5s 14.00nm 4.9mb
 HYB 83.48 289 eP 44 20.00 0.8
 MAW 83.79 203 e(P) 44 21.00 1.2
 FBA 83.87 20 P 44 18.80 -1.4
 SYP 88.07 55 eP 44 43.00 1.3
 ISA 89.51 54 eP 44 48.00 -0.5
 MWC 89.56 55 eP 44 49.00 0.1
 SBB 89.84 55 eP 44 50.00 0.0
 RVR 90.07 56 eP 44 51.00 0.0
 CLC 90.24 54 eP 44 52.00 0.2
 PLM 90.37 56 eP 44 54.00 1.3
 GSC 90.78 55 eP 44 55.00 0.6
 NB2 122.97 342 PKP 50 45.70 -1.4
 0.9s 2.90nm
 BRG 129.35 332 ePKP 51 00.00 0.4
 1.2s 15.00nm
 KHC 130.70 330 ePKP 50 59.00 -3.3X
 e 51 02.20
 BAO 143.81 133 ePKP 51 24.00 -3.5X
 PDCR 152.05 140 (PKP) 51 46.00 5.5X
 SOB1 153.23 133 ePKP 51 48.90 6.7X
 e 51 53.60

S.D. = 1.0 on 44 of 55 obs.

% OCT 14, 1991 19h 50m 21.79± 1.68s
 41.699 N ±13.9km 12.830 E ± 6.2km
 DEPTH = 5.0km (geophysicist)
 SOUTHERN ITALY (390)

RDP 0.10 305 Pc 50 24.20 0.1
 eSg 50 25.40
 RMP 0.15 319 P 50 25.00 0.2
 eSg 50 26.70
 AZI 0.54 57 P 50 33.00 0.5
 eSg 50 40.20
 MNS 0.69 351 P 50 34.80 -0.9
 eSg 50 45.60
 SDI 0.74 89 P 50 36.30 -0.2
 eSg 50 47.60
 AOU 0.78 33 P 50 37.80 0.3
 eSg 50 49.70
 ASS 1.38 355 P 50 48.40 0.7
 eSn 51 07.50
 ARV 1.80 3 P 50 53.00 -0.7
 eSn 51 16.70

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

OCT 14, 1991 19h 54m 00.35± 1.07s
 36.629 N ± 8.9km 141.113 E ± 9.5km
 DEPTH = 52.2 ± 7.0 km
 4.6mb (6 obs.)
 NEAR EAST COAST OF HONSHU, JAPAN(228)

KAKJ 0.87 241 P 54 15.90 -0.6
 S 54 26.20
 YAMJ 1.76 331 iPd 54 29.70 0.7
 NIIJ 1.80 290 iPd 54 29.60 0.2
 S 54 54.20
 CHJJ 1.81 252 iPd 54 29.10 -0.5
 S 54 48.90
 MAT 2.34 269 iPd 54 37.60 0.5
 eS 55 09.00
 OFUJ 2.49 10 P 54 39.30 0.2
 MTMJ 2.66 270 P 54 42.50 0.7
 IIDJ 2.84 247 iPd 54 45.60 1.4
 eS 55 19.50
 AOMJ 3.97 352 P 55 01.90 1.8
 TSRJ 4.29 257 eP 55 05.80 1.0
 WKYJ 5.11 244 eP 55 16.40 0.1
 HOOJ 5.99 16 eP 55 27.50 -1.0
 eS 56 31.50
 TKSJ 6.35 248 eP 55 33.10 -0.5
 YONJ 6.37 259 eP 55 35.40 1.4
 KUSJ 7.03 22 eP 55 40.20 -2.9
 eS 56 55.50
 ASAJ 7.57 8 eP 55 49.60 -1.1
 eS 57 13.70
 TIA 19.30 276 eP 58 21.50 -2.4
 BJI 19.84 287 eP 58 30.50 1.0
 TIY 22.84 281 eP 58 59.60 -0.3
 E 14s 0.55um
 S 03 06.00

WHN 23.07 263 eP 59 04.50 2.5X
 XAN 26.32 274 eP 59 31.20 -1.9
 YAK 26.39 348 iPc 59 32.60 -0.7
 e 59 51.00
 GYA 30.92 261 P 00 12.60 -1.9
 1.0s 10.00nm 4.5mb
 GTA 32.45 288 eP 00 26.40 -1.4
 WMO 40.81 297 P 01 39.00 0.8
 1.0s 13.00nm 4.6mb
 sP 01 56.50
 CHTO 40.96 256 P 01 39.00 -0.6
 GUN 46.96 276 P 02 28.70 0.4
 PKI 47.48 276 P 02 32.02 -0.4
 KKN 47.49 276 P 02 32.84 0.5
 DMN 47.70 276 P 02 32.54 -1.6
 GKN 47.91 277 P 02 35.38 -0.2
 WR2 56.63 188 eP 03 39.30 -1.1
 0.4s 5.10nm 4.9mb
 HYB 57.95 269 eP 03 49.60 -0.4
 SOD 65.24 337 eP 04 38.00 -0.2
 KAF 68.56 333 eP 04 58.80 -0.4
 0.5s 3.70nm 4.6mb
 NUR 70.19 332 eP 05 29.00 19.8X
 HFS 74.36 336 eP 05 34.20 0.3
 0.4s 1.40nm 4.2mb
 NB2 74.47 337 P 05 34.30 -0.3
 0.8s 4.60nm 4.5mb
 LRM 74.61 44 eP 05 37.40 1.5
 KSP 80.32 328 ePc 06 08.80 1.8
 PRU 81.70 328 eP 06 16.20 1.9
 KHC 82.76 328 eP 06 21.60 1.7
 ANMO 85.03 50 (P) 06 33.30 1.5
 ALQ 85.04 50 e(P) 06 33.00 1.1
 CNCB 147.57 60 PKP 13 43.00 4.3X

S.D. = 1.2 on 42 of 45 obs.

OCT 14, 1991 19h 56m 08.46± 0.27s
 9.176 S ± 4.9km 158.339 E ± 6.0km
 DEPTH = 25.2km (3 depth phases)
 4.8mb (13 obs.) 4.7msz (1 obs.)
 SOLOMON ISLANDS (193)
 Felt at Honiara.

HNR 1.61 99 eP 56 33.00 -2.5
 e(S) 56 47.00
 RAB 7.88 309 e(P) 58 10.00 5.7X
 PMG 11.04 268 eP 58 58.00 10.0X
 DZM 15.00 150 iPc 59 46.40 5.7X
 CTAO 15.94 226 iPc 59 47.00 -5.8X
 1.0s 30.00nm 4.4mb
 BRS 18.87 195 eP 00 29.00 -0.4
 RMQ 19.47 207 iPd 00 37.00 0.5
 1.0s 59.00nm 4.8mb
 e 04 32.00
 OIS 21.32 236 iPd 00 56.80 0.9
 0.6s 14.00nm 4.6mb
 OLP 21.87 216 eP 01 02.00 0.7
 COO 22.13 195 eP 01 05.00 1.1
 CMS 25.06 206 eP 01 32.80 0.4
 1.0s 42.00nm 5.0mb
 WR2 25.52 243 eP 01 36.40 -0.5
 0.5s 8.60nm 4.6mb
 BWA 26.73 198 eP 01 48.00 0.1
 CAN 27.39 197 eP 01 54.80 0.8
 STK 27.42 212 iPc 01 54.50 0.3
 0.6s 8.10nm 4.6mb
 ASPA 27.45 235 iPd 01 53.30 -1.3
 0.7s 13.30nm 4.7mb
 BFD 31.33 205 iPc 02 27.00 -2.1
 ADE 31.33 212 eP 02 24.10 -5.1X
 1.1s 78.48nm 5.5mb
 WARB 34.47 237 eP 02 56.00 -0.6
 PCI 39.19 280 ePc 03 42.40 5.9X
 SSE 53.58 320 Pd 05 50.50 20.7X
 1.0s 25.00nm
 CN2 60.59 333 eP 06 18.60 -0.7
 1.0s 17.00nm 5.1mb
 epP 06 29.00 34km
 BJI 62.59 325 eP 06 52.00 19.2X
 1.5s 18.00nm
 XAN 63.57 315 P 06 38.40 -1.1
 KMI 63.97 304 Pd 06 43.00 0.4
 CHG 64.83 296 eP 06 47.80 -0.1
 CD2 65.74 310 eP 06 53.40 -0.3
 HHC 65.81 323 eP 06 54.20 0.2
 BTO 66.59 322 eP 06 59.20 0.2
 LZH 68.19 315 eP 07 09.00 -0.2

2.0s 49.00nm 5.3mb
 Z 22s 0.51um 4.7msz
 N 15s 0.43um
 pP 07 15.00 19km
 sP 07 19.50
 0.8s 7.00nm 4.7mb
 YAK 74.39 346 iPc 07 45.10 -0.6
 i 08 05.00 74kmx
 GUN 79.07 301 P 08 13.10 0.0
 PKI 79.38 300 P 08 14.46 -0.3
 KKN 79.55 300 P 08 15.42 -0.1
 DMN 79.65 300 P 08 16.42 0.3
 GKN 80.15 301 P 08 18.42 -0.3
 SPA 80.88 180 iPd 08 21.70 -0.1
 0.7s 7.81nm 4.8mb
 WMO 82.67 316 P 08 31.50 0.1
 1.5s 16.00nm 4.9mb
 HYB 83.11 289 eP 08 34.30 0.2
 MAW 83.67 203 e(P) 08 41.00 5.0X
 FBA 83.97 20 P 08 36.00 -1.5
 pP 08 43.00 22km
 ISA 89.80 54 eP 09 07.00 0.4
 MWC 89.86 55 eP 09 08.00 0.9
 SBB 90.14 55 eP 09 09.00 0.8
 RVR 90.37 56 eP 09 10.00 0.8
 CLC 90.53 54 eP 09 11.00 1.0
 PLM 90.68 56 eP 09 12.00 1.1
 GSC 91.07 55 eP 09 14.00 1.5
 BUL 122.59 239 iPKPc 15 04.40 -0.1
 ipP 15 09.20
 BAO 144.11 133 e(PKP) 15 40.00 -4.8X
 PDCR 152.32 141 (PKP) 16 04.00 6.3X
 SOB1 153.54 133 ePKP 16 05.60 6.2X

S.D. = 0.9 on 41 of 53 obs.

? OCT 14, 1991 20h 17m 44.06± 6.44s
 38.860 N ±50.6km 22.496 E ±15.1km
 DEPTH = 5.0km (geophysicist)
 GREECE (364)
 AGG 0.21 322 iPg 17 48.29 0.0
 eSg 17 51.84
 LIT 1.24 360 ePb 18 07.40 -0.2
 eSb 18 26.32
 PAIG 1.41 40 ePb 18 10.36 0.0
 OUR 1.87 37 ePb 18 16.60 -0.3
 SOH 2.07 18 ePn 18 20.40 0.5

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

OCT 14, 1991 20h 34m 46.59± 0.70s
 52.917 N ± 6.8km 175.389 W ± 4.6km
 DEPTH = 234.5 ± 6.7 km
 4.6mb (19 obs.)
 ANDREANOF ISLANDS, ALEUTIAN IS. (7)

ADK 1.30 218 iPnc 35 22.45 0.3
 eS 35 46.91
 SVW 13.49 45 iPc 37 54.05 4.1X
 KDC 13.87 60 eP 37 53.93 -0.6
 RSO 14.49 50 P 38 04.80 2.4
 SLKM 15.69 51 P 38 14.90 -1.8
 PMR 16.54 48 P 38 24.20 -2.5
 IMA 17.04 31 P 38 32.50 0.4
 RND 17.35 42 P 38 34.70 -0.7
 KLU 17.98 50 P 38 41.60 -0.4
 FBA 18.43 39 eP 38 46.49 -0.1
 BRW 20.23 17 eP 39 05.67 1.2
 INK 24.99 36 eP 39 50.00 0.0
 MBC 31.39 22 ePc 40 48.30 1.5
 0.5s 16.00nm 4.9mb
 YKA 32.64 49 eP 40 57.20 -0.7
 0.7s 9.80nm 4.5mb
 RMW 34.06 77 eP 41 10.50 0.3
 LON 34.41 78 eP 41 13.00 -0.2
 PNT 34.45 73 eP 41 13.00 -0.4
 0.6s 5.00nm 4.3mb
 NEW 36.40 73 eP 41 29.00 -0.9
 LBFM 37.35 86 P 41 39.60 1.5
 CMB 40.31 89 eP 42 03.30 0.9
 0.8s 12.00nm 4.4mb
 HPI 41.22 77 eP 42 10.20 0.1
 BONR 41.63 87 eP 42 14.60 1.2
 TNP 42.20 87 eP 42 18.50 0.5
 ISA 43.02 90 eP 42 24.00 -0.5
 ABL 43.12 92 eP 42 25.40 0.0
 CLC 43.45 89 eP 42 28.00 0.1

14d 20h

DUG	43.51	81	P	42 28.70	0.2
SBB	44.07	91	eP	42 33.00	0.1
			e	44 13.00	
MWC	44.24	91	eP	42 35.00	0.6
GSC	44.28	89	eP	42 35.00	0.5
SSK	44.47	91	eP	42 36.80	0.6
MSU	44.96	82	iPc	42 40.40	0.3
PLM	45.57	91	eP	42 45.00	0.2
BAR	46.15	92	eP	42 50.00	0.8
GLA	47.00	90	eP	42 56.00	0.1
GOL	48.24	76	eP	43 05.00	-0.7
	0.6s		11.83nm		4.4mb
ANMO	50.76	82	eP	43 24.00	-0.8
	1.0s		8.00nm		4.1mb
ALQ	50.76	82	eP	43 23.70	-1.1
	1.0s		8.00nm		4.1mb
			e	44 37.50	
BNH	63.18	51	eP	44 49.42	-2.1
KAF	64.04	349	eP	44 55.70	-1.0
	0.5s		7.50nm		4.7mb
NUR	65.79	349	eP	45 07.60	-0.3
	0.6s		10.10nm		4.7mb
JSC	65.79	65	eP	45 06.84	-1.5
NB2	66.27	356	P	45 10.40	-0.6
	0.6s		4.60nm		4.4mb
HFS	67.07	355	eP	45 15.00	-0.9
	0.5s		16.60nm		5.0mb
UPP	67.09	353	iP	45 16.20	0.1
EKA	71.93	5	Pd	45 45.90	0.5
	0.7s		8.20nm		4.6mb
GUN	73.19	294	P	45 53.14	-0.5
KKN	73.62	294	P	45 56.10	0.1
DCN	73.65	7	eP	45 55.50	0.1
PKI	73.72	294	P	45 56.06	-0.6
GKN	73.80	295	P	45 56.44	-0.5
DMN	73.85	294	P	45 57.44	0.1
WTS	75.45	359	eP	46 06.50	0.9
	0.6s		8.00nm		4.6mb
CLL	75.91	355	iPc	46 08.20	-0.1
	0.7s		13.00nm		4.8mb
KSP	76.15	352	iP	46 09.70	0.1
BRG	76.29	354	i(P)	46 10.20	-0.2
	0.6s		14.00nm		4.9mb
MOX	76.64	355	eP	46 13.00	0.6
	1.0s		10.00nm		4.5mb
ENN	76.69	359	iPc	46 13.00	0.5
	0.9s		22.00nm		4.9mb
MEM	76.84	359	Pc	46 13.30	-0.1
PRU	77.13	353	P	46 15.30	0.3
DOU	77.36	0	Pc	46 16.80	0.5
GRF	77.61	356	iPc	46 18.50	0.8
	0.8s		16.00nm		4.8mb
WLF	77.79	359	P	46 21.00	2.4
KHC	78.05	354	eP	46 20.50	0.3
WRA	84.59	227	P	46 53.00	-1.4
	0.3s		2.00nm		4.1mb
S.D. = 0.9 on 64 of 65 obs.					
OCT 14, 1991 20h 36m 18.25 ± 0.45s					
9.220 S ± 7.5km 158.824 E ± 8.4km					
DEPTH = 34.2km (3 depth phases)					
4.9mb (11 obs.)					
SOLOMON ISLANDS (193)					
Felt at Honiara.					
HNR	1.13	101	eP+	36 37.80	0.0
			eS	36 56.00	
PMG	11.52	268	eP	39 05.00	1.5
DZM	14.73	151	iPc	40 01.20	15.1X
CTAO	16.25	227	iPd	40 09.50	3.7X
	1.5s		139.78nm		4.9mb
			i	40 21.50	
BRS	18.96	197	iPc	40 30.00	-9.4X
	1.0s		5.60nm		3.7mb X
QIS	21.70	237	eP	41 08.00	-0.4
			i	41 16.00	29km
COO	22.21	196	eP	41 13.00	-0.5
			e	41 24.00	43km
CMS	25.24	207	eP	41 42.60	-0.1
WR2	25.92	243	eP	41 48.30	-1.0
	1.2s		13.20nm		4.4mb
CAN	27.49	198	eP	42 06.30	2.8
STK	27.64	213	iPc	42 04.50	-0.4
	0.6s		2.60nm		4.1mb
			iS	47 00.00	
ASPA	27.82	236	iPd	42 04.50	-2.1

ADE	1.1s	13.90nm	4.6mb		
	31.55	213 e(P)	42 39.10	-0.7	
	0.9s	50.42nm	5.4mb		
PCI	39.67	280 ePd	43 52.80	3.7X	
CN2	60.85	333 eP	46 29.80	0.2	
	1.0s	14.00nm	5.0mb		
GYA	61.81	307 eP	46 37.40	0.7	
XAN	63.94	315 P	46 49.80	-0.7	
KMI	64.40	303 eP	47 01.00	7.1X	
CHG	65.28	296 eP	47 00.00	0.6	
CD2	66.14	310 eP	47 04.40	-0.4	
BTO	66.93	321 eP	47 10.00	0.3	
LZH	68.56	315 eP	47 19.00	-1.1	
	1.5s	17.00nm	4.9mb		
GTA	72.95	316 P	47 47.40	0.9	
	0.8s	9.00nm	4.8mb		
		pP	47 57.00	31km	
YAK	74.54	346 eP	47 54.60	-0.5	
SPA	80.84	180 iPd	48 31.10	1.0	
	1.1s	23.81nm	5.1mb		
		i	57 04.10		
WMO	83.03	316 P	48 42.80	1.0	
	1.1s	7.20nm	4.7mb		
FBA	83.85	20 ePc	48 45.00	-0.4	
	0.9s	13.33nm	5.1mb		
HFS	122.90	340 ePKP	55 11.70	-0.4	
	0.5s	1.00nm			
NB2	123.01	342 PKP	55 11.90	-0.5	
	1.0s	3.40nm			
SOB1	153.15	132 ePKP	56 14.90	7.6X	
S.D. = 1.1 on 24 of 30 obs.					
OCT 14, 1991 20h 40m 47.75 ± 0.54s					
44.088 N ± 4.7km 19.138 E ± 7.0km					
DEPTH = 10.0km (geophysicist)					
NORTHWESTERN BALKAN REGION (383)					
ML 3.1 (TTG).					
PLE	0.78	166 iPgc	41 01.96	-1.1	
		iSg	41 13.38		
BEO	1.20	52 iPgc	41 18.50	0.5	
		iSg	41 28.00		
BRY	1.26	200 iPgc	41 09.56	-1.7	
		iSg	41 30.12		
NKY	1.28	185 iPgc	41 10.76	-0.8	
		iSg	41 29.58		
IVA	1.34	155 iPgc	41 11.76	-0.7	
		iSg	41 30.88		
PVY	1.61	157 iPgc	41 16.38	0.0	
		iSg	41 39.18		
TTG	1.66	177 iPnc	41 17.50	0.5	
		iSn	41 40.52		
HCY	1.70	196 iPnc	41 18.60	0.9	
		iSn	41 42.12		
BDV	1.82	187 iPnd	41 19.94	0.6	
		iSn	41 44.80		
ULC	2.12	178 iPnd	41 23.86	0.1	
		iSn	41 51.62		
HVAR	2.15	246 iPn	41 24.30	0.1	
BZS	2.33	48 ePc	41 24.00	-2.7	
LACI	2.49	170 ePn	41 38.50	9.6X	
UZD	2.54	351 ePn	41 37.40	7.8X	
PHP	2.58	158 ePn	41 32.10	1.9	
TIR	2.79	169 ePn	41 40.50	7.2X	
ZAG	2.83	309 ePn	41 33.70	-0.1	
PTJ	2.89	310 ePn	41 34.20	-0.6	
		eSn	42 10.80		
VBY	3.10	298 ePn	41 43.30	5.6X	
		eSn	42 27.80		
OHR	3.22	157 ePn	41 40.50	1.1	
BUD	3.40	359 e(P)	41 44.00	2.2	
LJU	3.80	303 eP	41 58.00	10.3X	
		e(Sn)	42 48.00		
VOY	4.19	299 e(Pn)	41 53.00	-0.2	
		eSn	42 36.80		
ZST	4.35	342 eP	42 06.00	10.7X	
		e	46 24.20		
MLR	5.04	71 eP	42 21.00	15.7X	
S.D. = 1.3 on 18 of 25 obs.					
OCT 14, 1991 20h 56m 13.58 ± 0.51s					
45.452 N ± 5.2km 21.129 E ± 4.4km					
DEPTH = 10.6 ± 4.0 km					
ROMANIA (358)					
MG 4.0 (BEO).					
TIM	0.29	13 iPc	56 21.00	1.3	

BZS	0.38	64 iPc	56 20.00	-1.4	
BEO	0.79	217 iPg	56 30.00	1.1	
		iSg	56 43.00		
GZR	1.16	92 iPc	56 35.00	-0.3	
DEV	1.32	70 iPd	56 38.00	0.2	
UZD	2.11	304 ePn	56 50.00	0.7	
DRA	2.35	108 ePd	57 01.00	8.3X	
BUD	2.50	325 iPnd	56 54.60	-0.2	
PSZ	2.61	341 iPnd	56 55.50	-1.0	
CMP	2.76	92 ePc	57 01.00	2.3	
SRO	3.06	322 iPn	57 02.90	0.2	
		i(Sn)	57 36.30		
MLR	3.39	88 iPd	57 12.00	4.4X	
SKO	3.49	176 ePn	57 18.90	10.0X	
		iPg	57 22.40		
		iSg	58 06.50		
		Lg	58 12.00		
ZAG	3.63	278 ePn	57 11.30	0.4	
PTJ	3.65	279 ePn	57 11.30	0.0	
		eSn	57 54.50		
SPC	3.79	351 e(Pn)	57 13.30	0.0	
		i	57 26.80		
ZST	3.90	316 ePn	57 14.20	-0.5	
		i	57 16.30		
		e	57 21.00		
		i	57 58.40		
VRI	3.95	82 ePc	57 17.50	2.1	
HVAR	4.06	238 iPn	57 17.70	0.8	
VBY	4.13	273 ePn	57 35.00	17.0X	
		e(Sn)	58 16.50		
OHR	4.35	183 ePn	57 21.10	-0.1	
CLI	4.43	73 eP	57 27.00	4.8X	
LJU	4.65	280 eP	57 42.00	16.5X	
		e(Sn)	57 44.80		
KRA	4.68	351 eP	57 25.60	-0.2	
		e	57 52.30		
VOY	5.10	279 e(Pn)	57 39.50	7.7X	
KSP	6.29	331 eP	57 50.00	1.5	
KHC	6.32	308 ePn	57 48.00	-1.0	
		e	57 52.70		
		eSg	58 56.50		
PRU	6.35	318 ePn	57 48.00	-1.4	
		Pg	58 02.00		
		Sg	58 55.90		
MFT	6.48	134 ePn	57 49.00	-2.3	
S.D. = 1.2 on 22 of 29 obs.					
? OCT 14, 1991 21h 59m 34.62 ± 4.49s					
4.221 N ± 26.2km 76.940 W ± 32.7km					
DEPTH = 33.0km (normal)					
COLOMBIA (103)					
MD 3.1 (UVC).					
CLMC	0.51	132 iPd	59 46.30	0.8	
		eS	59 53.80		
ANCC	0.70	174 iPd	59 48.54	0.4	
		eS	59 57.70		

ALO 0.8s 6.00nm 4.4mb
82.70 50 eP 44 56.00 -1.2
1.0s 3.50nm 4.1mb
e 45 29.00
FBA 84.38 11 P 45 05.00 0.3
0.9s 2.10nm 3.9mb
GOL 85.60 46 P 45 11.80 0.1
1.0s 8.50nm 4.5mb
SES 87.25 35 eP 45 19.00 -0.1
KSP 145.42 348 ePKP 52 12.20 2.3
KHC 147.56 350 ePKP 52 18.60 5.2X
e 53 08.00
e 03 50.00
S.D. = 1.0 on 16 of 18 obs.

OCT 14, 1991 22h 43m 31.60±0.33s
40.231 N ± 6.7km 25.185 E ± 2.4km
DEPTH = 28.8 ± 4.2 km
AEGEAN SEA (365)

OUR 0.93 277 iPg 43 48.42 -0.1
eSg 44 01.10
ALN 0.93 44 iPg 43 48.17 -0.5
eSg 44 01.66
EZN 0.96 114 iPg 43 49.20 0.1
iSg 44 01.20
PAIG 1.19 256 ePbd 43 51.86 -0.5
eSb 44 07.58
PRK 1.29 139 ePb 43 53.50 -0.3
eSb 44 10.00
SRS 1.50 307 iPbd 43 57.50 0.7
eSb 44 17.90
SOH 1.52 294 iPbd 43 56.82 -0.3
eSb 44 17.58
KGT 1.63 82 ePn 43 58.60 -0.1
MFT 1.69 70 iPn 43 58.90 -0.8
THE 1.74 284 ePbd 44 00.74 0.4
KNT 1.97 299 iPnd 44 03.93 0.2
eSn 44 28.30
EDC 2.05 86 ePn 44 05.40 0.6
LIT 2.07 267 ePnc 44 05.02 -0.1
GRG 2.24 290 ePnc 44 07.26 -0.2
eSn 44 36.30
DMK 2.51 50 ePn 44 11.00 -0.4
CTT 2.63 69 iPn 44 13.00 -0.1
FNA 2.96 282 ePnc 44 17.90 0.2
YLV 3.22 83 ePn 44 22.00 0.6
IZI 3.28 87 ePn 44 23.00 0.7
S.D. = 0.5 on 19 of 19 obs.

OCT 14, 1991 23h 16m 11.84±0.23s
40.176 N ± 2.7km 25.254 E ± 2.0km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
ML 3.8 (ATH).

EZN 0.89 113 iPg 16 28.40 -0.6
eSg 16 42.70
ALN 0.94 40 iPg 16 30.40 0.7
eSg 16 43.96
OUR 0.99 280 iPg 16 30.74 0.2
eSg 16 42.12
RDO 0.99 12 ePg 16 30.60 0.0
PRK 1.22 139 ePb 16 34.20 -0.3
eSb 16 54.50
PAIG 1.23 259 iPbd 16 34.21 -0.5
eSb 16 49.64
KDZ 1.48 5 iPc 16 38.00 -0.5
Pg 16 40.00
RZN 1.56 345 iPg 16 40.00 0.1
Sg 16 59.00
SRS 1.58 307 ePbd 16 40.08 0.2
eSb 17 00.08
SOH 1.59 295 ePbd 16 39.48 -0.6
eSb 17 01.01
KGT 1.59 79 iPn 16 40.00 -0.1
MFT 1.66 68 iPn 16 40.90 -0.3
THE 1.81 285 ePbd 16 43.93 0.7
MMB 1.83 321 iPd 16 43.00 -0.5
Sg 17 10.00
DIM 1.88 6 iP 16 46.00 1.7
PLD 1.97 348 iPc 16 46.00 0.4
Sg 17 15.00
EDC 2.00 84 ePn 16 46.50 0.4
KNT 2.04 300 ePnd 16 46.28 -0.4
eSn 17 13.44
LIT 2.12 269 ePnd 16 48.01 0.2

GRG 2.31 291 ePnd 16 50.82 0.3
iSn 17 18.56
KKB 2.36 317 iP 16 50.00 -1.2
Sg 17 27.00
IZM 2.36 138 ePn 16 52.10 0.8
ATH 2.50 209 ePn 16 53.00 -0.2
DMK 2.51 48 iPn 16 52.60 -0.7
PGB 2.51 341 iP 16 52.00 -1.4
Sg 17 29.00
AGG 2.54 244 ePnd 16 53.70 0.0
CTT 2.60 67 iPn 16 53.90 -0.8
KZN 2.67 274 ePn 16 55.80 0.1
ISK 3.03 72 ePn 17 01.00 0.3
YLV 3.17 82 ePn 17 02.90 0.1
IZI 3.23 86 ePn 17 03.50 -0.2
SKO 3.40 303 ePn 17 07.50 1.6
HRT 3.43 78 ePn 17 14.00 7.6X
OHR 3.52 287 ePn 17 07.30 -0.4
KHL 3.80 118 ePn 17 12.00 0.3
VLI 3.90 209 ePn 17 13.50 0.4
MLR 5.34 5 eP 17 34.00 0.4
VRI 5.79 10 eP 17 40.00 0.2
BZS 6.06 335 ePc 17 40.00 -3.5X
S.D. = 0.6 on 37 of 39 obs.

* OCT 15, 1991 00h 31m 42.29±0.45s
6.879 N ± 14.1km 73.099 W ± 12.3km
DEPTH = 161.0 ± 11.7 km
4.4mb (1 obs.)
NORTHERN COLOMBIA (99)

BMG 0.19 7 eP 32 05.00 -0.5
BOG 2.44 203 iPd 32 25.50 1.5
iS 32 56.00
SDV 3.15 51 iPnd 32 34.20 1.4
iSn 33 11.90
HOBC 3.93 230 iPd 32 42.39 -0.3
eS 33 21.60
BUGC 4.32 227 ePd 32 47.71 -0.2
TOV 4.36 48 iPnd 32 49.40 1.0
iSn 33 39.90
CLMC 4.56 229 iPd 32 50.76 -0.2
HOOC 4.89 226 ePd 32 54.29 -1.2
ANCC 5.02 228 eP 32 56.64 -0.4
CEOS 5.18 65 iP 32 58.50 -0.7
PURC 5.57 216 eP 33 05.65 0.8
MORO 6.17 50 iP 33 12.10 -0.3
OLLA 6.96 63 iP 33 22.00 -1.1
CAR 7.09 59 iP 33 24.00 -0.7
CUMC 7.56 219 eP 33 31.68 0.2
ANMO 41.48 317 (P) 39 13.00 -2.2
GOL 43.66 323 P 39 34.40 1.4
0.7s 6.80nm 4.4mb
LRM 51.54 326 eP 40 35.40 1.4
S.D. = 1.2 on 18 of 18 obs.

* OCT 15, 1991 01h 00m 21.36±0.77s
45.197 N ± 5.5km 7.061 E ± 6.3km
DEPTH = 5.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.1 (GEN).

RSP 0.15 108 P 00 24.72 0.3
S 00 26.98
LSD 0.27 14 P 00 26.67 -0.2
S 00 30.05
BNI 0.31 242 P 00 28.00 0.4
eSg 00 32.00
RRL 0.34 215 P 00 28.10 -0.1
S 00 32.82
BHB 0.38 158 P 00 29.23 0.2
S 00 34.77
PZZ 0.69 178 P 00 34.77 -0.5
S 00 44.41
S.D. = 0.4 on 6 of 6 obs.

* OCT 15, 1991 01h 06m 08.17±4.79s
7.186 N ± 60.9km 75.340 W ± 66.2km
DEPTH = 33.0km (normal)
NORTHERN COLOMBIA (99)
HOBC 2.92 196 eP 06 52.90 -0.6
CLMC 3.50 200 eP 07 01.17 -0.6
HOOC 3.91 199 eP 07 07.49 -0.2
eS 07 49.60
ANCC 3.95 203 eP 07 09.11 1.0
eS 07 52.40

PURC 4.94 192 ePc 07 22.76 0.3
SDV 4.96 70 ePn 07 23.00 0.5
eSn 08 20.80
TOV 6.07 64 ePn 07 37.50 -0.5
S.D. = 0.8 on 7 of 7 obs.

* OCT 15, 1991 02h 12m 07.42±1.14s
36.223 N ± 20.3km 27.023 E ± 13.2km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)
MD 3.5 (ATH).

YER 1.36 48 iPn 12 31.00 -1.5
NPS 1.50 231 ePb 12 33.80 -0.5
eSb 12 54.80
CIN 1.62 31 eP 12 36.00 0.0
BCK 3.12 66 ePn 12 59.00 1.4
VLI 3.33 280 ePn 13 01.20 0.6
S.D. = 1.6 on 5 of 5 obs.

* OCT 15, 1991 02h 43m 22.63±0.70s
23.025 S ± 6.7km 66.343 W ± 13.7km
DEPTH = 262.1 ± 22.4 km
JUJUY PROVINCE, ARGENTINA (128)

ANT 3.80 259 iP 44 25.00 -0.2
iS 45 09.70
CNCB 6.37 346 iPc 44 58.00 1.2
S 46 11.00
LPB 6.67 345 Pc 45 01.00 0.6
1.0s 140.00nm 4.9mb
S 46 17.00
ARE 8.13 322 eP 45 17.00 -1.6
iS 46 44.00
PEL 10.78 200 iPd 45 52.30 0.5
SAN 11.06 199 eP 45 55.50 0.2
PCH 11.18 198 eP 45 57.70 0.9
TACH 11.33 200 iP 45 58.30 -0.4
CHCH 11.51 198 iPc 46 01.50 0.6
LNV 11.76 201 iP 46 02.70 -1.3
PPD 13.93 89 eP 46 29.80 -1.0
e 46 33.00
VAO 17.84 94 eP 47 13.70 -1.4
i 47 17.40
e 47 35.30
BAO 18.80 70 ePd 47 25.40 0.3
BMA 20.45 93 (P) 47 43.00 1.6
KIC 66.88 72 P 53 49.00 -0.1
S.D. = 1.1 on 15 of 15 obs.

OCT 15, 1991 03h 02m 34.48±0.75s
39.449 N ± 9.4km 25.512 E ± 5.2km
DEPTH = 5.0km (geophysicist)
AEGEAN SEA (365)

EZN 0.73 59 iPg 02 49.50 0.4
eSg 02 56.20
OUR 1.47 307 ePbd 03 01.90 0.2
eSb 03 25.34
PAIG 1.49 289 ePbd 03 01.34 -0.6
eSb 03 23.78
ALN 1.50 16 ePbd 03 01.50 -0.6
eSb 03 23.82
MFT 1.90 45 ePn 03 10.00 2.0
EDC 2.02 63 ePn 03 09.50 -0.1
SOH 2.15 310 ePnd 03 11.82 0.3
eSn 03 43.30
DST 2.42 85 ePn 03 13.20 -2.1
KNT 2.63 311 ePnd 03 18.32 0.0
CIN 2.74 132 ePg 03 33.00 13.2X
iSg 03 46.00
CTT 2.80 52 ePn 03 21.50 0.7
GRG 2.82 303 ePnc 03 20.82 -0.3
IZI 3.17 73 ePn 03 25.00 -1.1
YER 3.18 136 iPn 03 28.00 1.9
BCK 4.45 115 ePn 03 43.50 -0.8
S.D. = 1.2 on 14 of 15 obs.

* OCT 15, 1991 03h 10m 21.24±0.60s
5.466 N ± 10.2km 82.513 W ± 8.8km
DEPTH = 33.0km (normal)
4.0mb (1 obs.)
SOUTH OF PANAMA (83)

UPA 4.58 40 iPc 11 28.50 -1.4
0.6s 33.33nm
ANCC 5.95 109 eP 11 49.92 0.4

15d 03h

CLMC	6.14	105	eS	12	58.50	
HOOC	6.19	108	eP	11	52.44	0.2
BUGC	6.43	104	eP	11	53.37	0.3
CUMC	6.44	134	eP	11	57.04	0.8
HOBC	6.45	100	eP	11	56.17	-0.6
PURC	6.89	117	eP	11	55.84	-0.7
LPB	26.10	147	P	12	04.19	1.2
CNCB	26.39	147	P	15	54.00	-0.5
ALO	36.73	326	eP	15	55.00	-2.3
	1.0s	2.50nm		17	27.10	-0.6
ANMO	36.74	326	(P)	4.0mb		
WR2	141.37	245	iPKPd	17	27.50	-0.2
	0.8s	4.30nm		30	06.10	14.6X
GKN	144.49	20	PKP	29	58.50	1.6
KKN	144.90	19	PKP	29	57.78	0.1
GUN	144.98	18	PKP	29	58.52	0.6
DMN	145.01	19	PKP	29	58.54	0.7
PKI	145.15	19	PKP	29	58.56	0.4
S.D. = 1.0 on 17 of 18 obs.						

OCT 15, 1991 03h 12m 32.11 ± 0.81s
 34.426 N ± 7.0km 46.694 E ± 4.6km
 DEPTH = 9.6 ± 5.2 km
 4.4mb (9 obs.)

WESTERN IRAN (347)
 Felt at Bakhtaran and Hamadan.

KER	0.35	102	eP	12	37.00	-2.3
BHD	2.24	240	ePnd	13	15.00	5.2X
			eP*	13	18.00	
			ePg	13	22.00	
			iSn	13	46.00	
			iS*	13	51.00	
IR5	3.29	75	eP	13	26.30	1.4
IR1	3.43	72	eP	13	27.00	0.2
IR7	3.45	67	eP	13	27.70	0.5
MSL	3.49	305	ePn	13	30.50	2.9
			eP*	13	39.50	
			ePg	13	51.00	
			e	14	13.00	
			iSn	14	27.50	
			iS*	14	43.00	
			iSg	14	53.50	
IR4	3.55	76	eP	13	30.00	1.4
TAB	3.65	355	eP	13	38.00	8.0X
			i	13	40.00	
TEH	4.06	70	eP	13	36.00	0.2
SHI	6.87	132	eP	14	16.00	0.4
MJMA	8.63	188	ePc	14	36.00	-4.0X
			eS	16	08.00	
QASM	8.75	199	ePc	14	39.00	-2.7
			eS	16	13.00	
BHL	9.17	270	P	14	48.00	0.5
RYD	9.67	180	eP	14	55.00	0.6
			eS	16	33.00	
AFIF	10.73	197	eP	15	10.00	0.9
			eS	17	11.00	
HRT	14.92	300	iP	16	12.00	7.2X
QUE	17.63	98	eP	16	44.00	4.3X
MLR	19.31	311	eP	17	06.00	5.8X
SKO	21.18	298	eP	17	23.20	3.3X
OHK	21.49	296	eP	17	25.00	2.0
OBK	21.83	344	eP	17	24.00	-2.3
	0.8s	*****nm		7.7mb	X	
SPC	24.46	315	eP	17	53.40	1.1
KRA	25.04	317	eP	17	57.70	0.0
SRO	25.05	311	eP	17	59.60	1.8
ATN	25.38	288	P	18	02.30	1.2
ZST	25.95	311	eP	18	06.00	-0.3
ASS	27.76	298	P	18	24.00	1.0
PGD	28.54	300	P	18	30.20	0.1
WTTA	29.20	307	eP	18	34.50	-1.6
	0.5s	4.10nm		4.5mb		
			i	18	35.30	
NUR	29.76	338	eP	18	32.00	-8.6X
GRF	30.10	311	eP	18	43.40	-0.5
	0.9s	4.00nm		4.3mb		
KAF	30.57	341	eP	18	46.20	-1.7
	0.6s	2.70nm		4.3mb		
BNI	32.25	301	P	19	01.30	-1.7
GKN	32.94	91	P	19	09.90	0.7
DMN	33.47	91	P	19	15.64	1.7
HFS	33.47	330	eP	19	11.50	-1.7
	0.4s	3.50nm		4.6mb		
KKN	33.55	91	P	19	14.74	0.2
PKI	33.73	91	P	19	16.98	0.7

GUN	34.00	90	P	19	17.54	-1.1
NB2	34.99	330	P	19	24.10	-2.3
	0.8s	1.50nm		3.9mb		
EKA	39.97	317	Pd	20	07.50	-0.7
	0.5s	2.80nm		4.2mb		
GTA	42.26	67	P	20	27.60	0.2
	1.2s	21.00nm		4.7mb		
LZH	46.12	71	eP	20	58.50	0.0
	1.5s	45.00nm		5.3mb		
CD2	47.63	78	eP	21	09.90	-0.5
BTO	49.66	63	eP	21	24.00	-2.1
HMC	50.73	63	eP	21	33.80	-0.4
TIY	52.26	66	eP	21	47.00	1.2
KIC	54.96	252	P	22	06.00	0.1
FBA	80.35	6	P	24	44.80	0.2
	1.0s	2.00nm		4.1mb		
S.D. = 1.4 on 41 of 49 obs.						

OCT 15, 1991 03h 30m 22.15 ± 0.23s
 9.029 S ± 5.4km 158.214 E ± 5.5km
 DEPTH = 16.2km (4 depth phases)
 5.0mb (18 obs.)
 SOLOMON ISLANDS (193)
 Felt at Honiara.

HNR	1.76	103	ePc	30	50.00	-2.1
			eS	31	12.00	
DZM	15.19	150	iPd	34	02.40	4.6X
RMO	19.54	206	iPd	34	52.90	0.8
	1.0s	69.00nm		4.9mb		
OIS	21.30	235	iPd	35	11.10	0.6
	0.8s	21.00nm		4.6mb		
QLP	21.92	215	eP	35	17.00	0.4
COO	22.24	195	eP	35	19.00	-0.8
	0.8s	23.00nm		4.7mb		
CMS	25.14	206	eP	35	48.00	0.0
	1.0s	55.00nm		5.2mb		
WR2	25.48	242	iPc	35	51.30	0.0
	0.8s	8.90nm		4.5mb		
		iPcP	38	03.20		
		i	39	28.80		
BWA	26.83	198	eP	36	05.10	1.4
CNB	27.39	196	ePc	36	12.00	3.2X
ASPA	27.43	235	iPd	36	08.00	-1.3
	1.1s	13.20nm		4.6mb		
Z	16s	0.90um		4.4mszx		
STK	27.48	212	iPd	36	09.60	0.0
	0.8s	4.60nm		4.2mb		
CAN	27.49	196	eP	36	13.10	3.3X
MRWA	44.34	237	eP	38	33.20	-0.3
	0.5s	5.00nm		4.6mb		
OIZ	55.23	301	eP	39	53.00	-4.1X
MDJ	59.33	337	eP	40	24.70	-0.9
CN2	60.40	333	Pc	40	32.20	-0.8
	0.8s	26.00nm		5.4mb		
GYA	61.21	307	P	40	44.40	5.4X
KMI	63.79	304	eP	40	57.00	0.7
	1.8s	60.00nm		5.5mb		
		pP	41	01.60	15km	
CHG	64.65	296	eP	41	02.00	0.2
CHTO	64.65	296	P	41	01.90	0.1
		pP	41	07.00	16km	
HHC	65.62	323	eP	41	08.00	0.2
BTO	66.40	322	eP	41	16.70	3.9X
LZH	68.00	315	eP	41	23.00	0.0
	1.5s	34.00nm		5.3mb		
		pP	41	28.60	18km	
GTA	72.40	316	eP	41	50.20	0.5
	0.8s	9.00nm		4.9mb		
GUN	78.89	301	P	42	27.42	0.3
PKI	79.20	300	P	42	28.52	-0.2
KKN	79.37	300	P	42	28.58	-1.0
DMN	79.46	300	P	42	30.52	0.4
	0.9s	92.00nm		5.8mb		
GKN	79.97	301	P	42	32.00	-0.7
SLKM	80.31	23	eP	42	30.40	-3.3X
PMR	81.39	23	eP	42	38.00	-0.4
	0.8s	22.10nm		5.3mb		
WMO	82.48	317	P	42	46.00	0.6
	1.3s	12.00nm		4.8mb		
		pP	42	51.00	16km	
IMA	82.72	18	eP	42	46.50	0.2
	0.9s	15.10nm		5.1mb		
TOA	82.83	23	eP	42	47.50	0.6
FBA	83.88	20	ePc	42	51.50	-0.5
BRW	85.55	13	eP	43	01.20	0.9
NDI	86.48	300	eP	43	04.50	-1.3

PAS	89.77	56	eP	43	22.00	0.6
ISA	89.82	54	eP	43	22.00	0.3
MWC	89.88	55	eP	43	23.00	0.8
SBB	90.15	55	eP	43	24.00	0.7
RVR	90.39	56	eP	43	25.00	0.7
INK	90.50	20	eP	43	23.50	-0.6
CLC	90.55	54	eP	43	26.00	0.9
PEC	90.55	56	eP	43	25.40	0.3
PLM	90.70	56	eP	43	26.00	0.0
BAR	90.74	57	eP	43	27.00	1.0
GSC	91.09	55	eP	43	28.00	0.4
MSU	95.25	52	(P)	43	48.00	1.1
MBC	96.90	14	eP	43	53.00	-0.3
	1.0s	6.00nm		5.1mb		
BW06	97.69	48	eP	43	57.00	-0.8
	0.9s	3.25nm		4.9mb		
NB2	122.64	342	PKP	49	15.60	-2.7
	0.7s	0.60nm				
KHC	130.29	330	ePKP	49	33.80	0.4
BAO	144.30	133	ePKPc	49	57.00	-3.2X
PDCR	152.51	141	ePKP	50	18.50	5.5X
SOB1	153.73	133	ePKP	50	22.10	7.3X
			e	50	33.80	
S.D. = 0.9 on 47 of 57 obs.						

% OCT 15, 1991 04h 03m 55.77 ± 0.95s
 2.442 N ± 10.0km 77.273 W ± 18.6km
 DEPTH = 90.0km (geophysicist)
 NEAR WEST COAST OF COLOMBIA (102)
 MD 4.0 (UVC).

PURC	0.92	97	iPc	04	15.18	-0.2
ANCC	1.14	21	iPc	04	16.85	-0.6
			eS	04	32.60	
HOOC	1.20	32	iPc	04	19.13	0.7
CUMC	1.59	202	iPd	04	23.66	0.1
CLMC	1.60	26	iPd	04	23.01	-0.3
			eS	04	43.30	
HOBC	2.21	31	eP	04	31.89	0.4
			eS	04	58.90	
S.D. = 0.6 on 6 of 6 obs.						

? OCT 15, 1991 04h 26m 29.81 ± 1.05s
 8.812 S ± 20.4km 158.011 E ± 13.0km
 DEPTH = 33.0km (normol)
 4.3mb (3 obs.)

SOLOMON ISLANDS (193)
 Felt at Honiara.

HNR	2.01	108	eP	27	03.00	0.9
			eS	27	19.00	
RMO	19.65	205	eP	30	57.80	-1.2
OIS	21.26	235	iPd	31	16.70	1.0
WR2	25.40	242	iPc	31	56.50	0.4
	0.5s	3.60nm			4.2mb	
ASPA	27.39	235	iPc	32	13.50	-0.9
	0.8s	3.60nm			4.1mb	
CHTO	64.38	296	P	37	07.00	1.7
FBA	83.74	20	ePd	38	54.60	-2.0
	0.7s	10.17nm			5.1mb	
S.D. = 1.7 on 7 of 7 obs.						

eSg 30 06.00				CUM	1.43	270	iP	45	38.00	2.7	CLL	72.99	40	eP	56	45.00	6.7X
MFT	1.27	319	ePn	29	54.00	-0.6					KHC	73.20	42	eP	56	41.20	1.5
S.D. = 0.7 on 5 of 5 obs.				GUAN	2.92	261	iP	45	58.00	1.1				e	57	24.40	
%				LLAV	4.02	271	iP	46	13.80	1.4	INK	73.28	338	eP	56	38.00	-1.7
OCT 15, 1991 05h 34m 50.31± 1.97s				OLLA	4.04	264	iP	46	13.50	0.8	BRG	73.55	40	e(P)	56	45.40	3.8X
17.847 N ±18.1km 77.198 W ± 5.8km							iS	47	04.60		PRU	73.88	41	eP	56	50.50	7.0X
DEPTH = 10.0km (geophysicist)				CAR	4.14	271	iP	46	14.20	0.2	HFS	74.23	30	eP	56	45.60	0.3
JAMAICA REGION (86)							iS	47	07.70					0.8s	10.50nm	4.8mb	
MD 2.5 (HOJ).				BIM	4.35	22	eP	46	16.34	-0.5	Z	18s		0.09um	4.1msz		
							S	47	05.80					LR	22	25.00	
SPJ	0.37	293	iP	34	58.03	0.0					ZST	75.51	43	eP	57	00.80	7.9X
			S	35	02.63						SRO	76.32	43	eP	57	04.20	6.7X
STH	0.43	58	iP	34	59.07	-0.1					KRA	77.36	41	eP	57	11.20	8.0X
			S	35	04.27						OHR	78.35	50	eP	57	11.80	2.8
HOJ	0.45	70	iP	34	59.58	0.0					FBA	78.52	334	eP	57	09.30	0.0
			S	35	04.83						NUR	79.69	30	eP	57	24.00	8.3X
GWJ	0.49	63	iP	35	00.38	0.0					IMA	80.92	336	eP	57	23.10	0.7
			S	35	05.53									0.8s	7.30nm	4.7mb	
BBJ	0.54	353	eP	35	01.21	0.0					BRW	81.47	341	eP	57	26.10	1.1
			S	35	06.50						VRI	82.20	45	eP	57	33.00	3.7X
S.D. = 0.1 on 5 of 5 obs.				PAG	5.63	10	eP	46	35.00	-0.1	SVW	82.33	331	eP	57	30.50	0.8
%							S	47	36.00		OBN	86.79	35	iPc	57	58.50	6.3X
OCT 15, 1991 06h 26m 33.21± 1.11s				DOG	5.65	11	eP	46	35.02	-0.2				1.5s	*****nm	8.6mb X	
40.458 N ± 8.7km 20.760 E ±11.4km				CEOS	5.71	256	iP	46	46.10	9.9X				e	58	40.00	
DEPTH = 10.0km (geophysicist)				SFG	5.95	14	eP	46	39.70	0.3	CHG	145.75	32	ePKP	04	48.50	0.8
GREECE-ALBANIA BORDER REGION (392)				SEG	6.03	11	eP	46	40.70	0.2	RMO	146.29	237	ePKP	04	50.00	1.6
				DEG	6.04	15	eP	46	40.25	-0.5	STK	149.02	223	ePKP	04	57.30	4.7X
FNA	0.57	55	iPc	26	44.25	-0.6								0.8s	3.10nm		
			eS	26	53.44									S.D. = 1.2 on 67 of B3 obs.			
OHR	0.65	3	ePg	26	46.80	0.5								? OCT 15, 1991 07h 55m 04.98± 5.78s			
			iSg	26	56.80									44.526 N ±38.9km 3.113 E ±31.3km			
IGT	0.98	200	ePd	26	51.52	-0.3								DEPTH = 5.0km (geophysicist)			
GRG	1.34	68	iPc	26	58.52	0.5								FRANCE (53B)			
			eS	27	18.84									ML 2.2 (STR).			
LIT	1.37	105	iPc	26	59.48	1.1											
KNT	1.77	66	ePc	27	02.80	-1.3											
S.D. = 1.1 on 6 of 6 obs.																	
* OCT 15, 1991 06h 46m 59.86± 1.19s				SDV	7.96	259	ePn	47	05.90	-1.8							
38.967 N ± 6.9km 26.684 E ±14.0km							iSn	48	31.20								
DEPTH = 10.0km (geophysicist)				CPD	8.15	338	P	47	08.00	-2.2							
AEGEAN SEA (365)				PORP	8.45	334	P	47	13.60	-0.7							
				MGP	8.62	331	P	47	16.70	0.1							
IZM	0.73	141	ePg	47	14.60	0.4											
			eSg	47	26.00												
EZN	0.90	342	ePg	47	17.30	0.2											
			eSg	47	30.50												
DST	1.64	66	ePn	47	29.00	0.2											
EDC	1.65	33	ePn	47	29.00	0.0											
CIN	1.76	141	eP	47	30.00	-0.5											
MFT	1.87	14	ePn	47	32.00	-0.3											
CTT	2.56	31	ePn	47	42.00	0.0											
S.D. = 0.4 on 7 of 7 obs.				BOG	12.65	244	eP	48	12.00	0.2							
?							eS	51	08.00								
OCT 15, 1991 07h 10m 33.68± 2.06s				HOBC	14.61	246	eP	48	34.73	-2.7							
31.082 S ±36.8km 69.188 W ±53.5km				BUGC	14.92	245	eP	48	40.22	-1.2							
DEPTH = 110.0km (geophysicist)				CLMC	15.20	246	ePc	48	44.07	-1.1							
SAN JUAN PROVINCE, ARGENTINA (137)				HOQC	15.45	244	eP	48	47.06	-1.4							
				ANCC	15.64	245	eP	48	50.06	-0.5							
RTCB	0.52	141	iPc	10	51.00	0.0											
			S	11	05.00												
RTLL	0.66	112	e(P)	10	51.90	-0.1											
RTRS	0.94	345	iPd	10	54.50	0.0											
CFA	0.97	123	iP	10	55.00	0.1											
			S	11	11.30												
S.D. = 0.2 on 4 of 4 obs.				UPA	16.64	266	ePc	49	02.00	-1.2							
* OCT 15, 1991 07h 44m 00.07± 0.84s				CUMC	17.77	239	ePc	49	19.27	1.4							
63.507 N ± 7.1km 150.068 W ±13.6km				LPB	27.34	191	Pc	50	55.90	1.0							
DEPTH = 33.0km (normal)							1.0s	72.00nm	5.3mb								
CENTRAL ALASKA (1)				CNCB	27.59	191	Pc	50	58.00	0.7							
ML 3.1 (PMR).				SOB1	29.21	131	eP	51	10.30	-1.1							
FBA	1.72	34	eP	44	28.10	0.0											
			eS	44	47.50												
PWA	1.87	177	eP	44	29.80	-0.4											
PMR	1.97	167	eP	44	32.30	0.6											
TOA	2.28	126	eP	44	36.00	-0.2											
IMA	3.00	331	eP	44	46.50	0.0											
S.D. = 0.5 on 5 of 5 obs.				TUL	39.25	316	ePc	52	37.40	-0.1							
OCT 15, 1991 07h 45m 11.54± 0.66s							0.6s	15.50nm	5.0mb								
10.456 N ± 4.6km 62.719 W ± 5.3km				Z	20s		0.29um	4.1msz									
DEPTH = 45.4 ± 6.3 km				N	22s		0.22um										
4.9mb (10 obs.)				E	22s		0.21um										
NEAR COAST OF VENEZUELA (97)							LR	05	15.00								
Felt at Ciudad Bolivor.				ACO	41.98	314	iPc	53	01.40	1.4							
				PEL	44.01	190	eP	53	15.50	-1.0							
				PCH	44.45	189	eP	53	20.00	-0.2							
				TACH	44.55	190	eP	53	20.00	-0.9							
				CHCH	44.78	189	eP	53	22.00	-0.7							
				ALO	46.64	309	eP	53	38.00	0.3							
							1.0s	12.50nm	4.8mb								
							e	53	52.00								
				ANMO	46.64	309	P	53	38.90	1.2							
				GOL	47.71	315	P	53	45.80	-0.4							
							1.0s	22.50nm	5.1mb								
				FFC	53.94	333	eP	54	31.00	-1.7							
							0.6s	11.00nm	5.1mb								
				LRM	55.01	319	eP	54	29.60	-11.5X							
				SES	56.14	325	ePd	54	49.00	0.1							
							pP	54	56.00	23kmX							
				PNT	60.80	321	eP	55	21.00	-0.3							

15d 09h

RAB 7.89 308 eP 09 16.00 2.5
iS 11 00.00
PMG 11.10 268 e(P) 09 49.00 -8.6X
DZM 15.01 150 iPc 10 49.50 -0.3
BRS 18.92 196 iPc 11 40.00 1.0
1.0s 5.00nm 3.7mb X
iS 11 49.00
iS 15 15.00
RMQ 19.53 207 eP 11 47.00 0.9
0.9s 103.00nm 5.1mb
iS 16 38.00
OIS 21.40 236 iPd 12 06.80 1.3
0.8s 26.00nm 4.7mb
iS 12 12.50 21km
e 16 56.00
OLP 21.94 216 eP 12 12.00 1.1
COO 22.19 195 eP 12 15.00 1.6
0.7s 48.00nm 5.1mb
e 17 06.00
CMS 25.13 206 eP 12 43.00 1.1
1.2s 167.00nm 5.5mb
iS 12 50.80 28km
e 17 34.00
WR2 25.59 242 iPc 12 46.10 -0.3
0.9s 20.80nm 4.8mb
GUA 26.20 329 eP 12 54.30 2.3
1.1s 202.53nm 5.7mb
GUMD 26.26 329 eP 12 54.30 1.7
PJG 26.26 329 eP 12 55.20 2.6
BWA 26.79 199 eP 12 56.90 -0.5
iS 12 59.80 10kmX
CNB 27.34 196 eP 13 03.60 1.2
CAN 27.45 197 eP 13 04.00 0.6
iS 13 07.40 12kmX
STK 27.49 212 iPd 13 05.00 1.3
0.5s 17.10nm 5.0mb
iS 17 55.90
ASPA 27.52 235 iPd 13 03.40 -0.8
0.8s 26.00nm 5.0mb
Z 19s 2.90um 4.9msz
KNA 29.65 254 eP 13 23.00 -0.3
BFD 31.39 205 iPc 13 37.20 -1.3
ADE 31.40 212 iPc 13 37.50 -1.2
URZ 33.54 153 eP 14 02.60 5.4X
PUZ 33.92 151 eP 13 59.50 -1.1
WARB 34.54 237 eP 14 06.00 -0.1
MNG 34.84 157 eP 14 07.80 -0.7
MBL 38.99 248 eP 14 42.50 -1.1
COOL 40.86 233 eP 14 58.00 -1.0
KHKI 42.28 268 eP 15 09.50 -1.3
e 16 57.50
BAL 44.30 235 eP 15 27.00 -0.1
MRWA 44.44 237 eP 15 27.50 -0.7
0.5s 8.00nm 4.8mb
NWAD 44.72 232 iPc 15 30.70 0.2
0.9s 16.00nm 4.9mb
Z 20s 1.20um 4.8msz
eS 22 24.00
BAG 45.21 304 eP 15 33.90 -0.9
MAT 49.23 338 (P) 16 06.00 0.2
eS 23 02.00
SSE 53.58 320 eP 16 42.50 3.8X
Z 20s 0.70um 4.7msz
N 14s 0.40um
pP 16 52.70 34km
S 24 12.00
SS 24 29.00
SS 27 50.00
OIZ 55.44 301 eP 16 50.80 -1.7
TIA 59.50 322 eP 17 25.20 4.3X
N 16s 0.45um
SNY 59.92 330 Pc 17 28.00 4.4X
N 18s 0.83um
CN2 60.57 333 Pd 17 27.00 -1.1
0.8s 9.80nm 5.0mb
Z 16s 1.16um 5.1mszX
pP 17 41.00 51kmX
eS 25 42.00
BJI 62.59 324 eP 17 40.00 -1.7
eS 26 08.00
KMI 63.99 304 eP 17 50.50 -1.1
1.5s 90.00nm 5.7mb
pP 17 57.00 21km
CHG 64.86 296 ePd 17 56.90 -0.1
1.7s 49.04nm 5.4mb
CD2 65.76 310 eP 18 01.40 -1.2
HHC 65.81 323 eP 18 08.40 5.5X

BTO 66.59 322 eP 18 08.00 0.1
LZH 68.19 315 Pd 18 17.50 -0.7
2.0s 35.00nm 5.1mb
Z 20s 0.69um 4.9msz
E 13s 0.30um
pP 18 31.50 49kmX
eS 27 15.00
GTA 72.60 316 Pd 18 45.00 0.2
0.8s 11.00nm 4.9mb
Z 26s 0.97um 5.0mszX
E 16s 0.78um
pP 18 58.40 46kmX
S 28 10.00
SHL 73.27 300 iP 18 48.50 -0.6
KDC 77.67 25 eP 19 12.80 -0.3
GUN 79.10 301 P 19 21.26 -0.9
0.8s 41.00nm 5.5mb
PKI 79.40 300 P 19 22.60 -1.2
KKN 79.57 300 P 19 23.70 -0.8
DMN 79.67 300 P 19 24.38 -0.7
0.8s 43.00nm 5.5mb
GKN 80.18 301 P 19 26.58 -1.1
SLKM 80.33 23 P 19 25.90 -1.7
PMR 81.42 23 eP 19 32.70 -0.5
0.8s 22.10nm 5.2mb
WMO 82.68 316 P 19 40.30 0.0
1.4s 17.00nm 5.0mb
Z 22s 0.48um 4.8msz
SKS 29 59.00
IMA 82.76 18 eP 19 40.50 0.1
1.1s 22.60nm 5.2mb
MAW 83.73 203 eP 19 47.00 1.8
0.9s 14.00nm 5.2mb
FBA 83.91 20 eP 19 45.50 -0.6
ISA 89.73 54 eP 20 16.00 0.8
MWC 89.79 55 eP 20 17.00 1.4
SBB 90.07 55 eP 20 18.00 1.3
RVR 90.30 56 eP 20 18.00 0.3
CLC 90.46 54 eP 20 26.00 7.5X
INK 90.53 20 eP 20 18.00 -0.1
PLM 90.60 56 eP 20 20.00 0.6
GSC 91.00 55 eP 20 22.00 0.9
MBC 96.96 14 eP 20 50.00 2.6
NB2 122.79 342 PKP 26 10.90 -1.5
0.7s 1.10nm
CNCB 127.39 119 PKP 26 24.00 0.7
LPB 127.41 119 PKP 26 23.60 0.5
ZST 129.25 327 ePKP 26 31.20 6.0X
KHC 130.47 330 ePKP 26 35.00 7.4X
e 27 28.50
TOL 145.60 336 ePKP 26 56.00 0.5
PDOR 152.32 141 ePKP 27 11.90 5.4X
e 27 24.40
SOB1 153.53 133 ePKP 27 15.80 7.5X
e 27 25.30
S.D. = 1.2 on 66 of 77 obs.
? OCT 15, 1991 09h 18m 03.20±14.76s
34.355 S ±75.4km 70.200 W ±69.4km
DEPTH = 10.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)
CHCH 0.56 318 iPc 18 14.70 0.0
iS 18 23.50
PCH 0.78 340 iPc 18 18.20 -0.2
iS 18 30.00
TACH 0.93 319 eP 18 21.00 0.0
iS 18 34.40
SAN 0.98 337 iPc 18 21.90 0.1
iS 18 35.90
LNV 1.08 291 iP 18 23.50 0.0
iS 18 38.00
PEL 1.27 341 iPc 18 27.00 0.1
iS 18 44.50
S.D. = 0.2 on 6 of 6 obs.
? OCT 15, 1991 09h 28m 19.21±0.96s
39.135 N ±7.8km 27.616 E ±9.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
IZM 0.79 201 ePg 28 34.50 0.0
eSg 28 46.20
DST 0.91 59 ePn 28 36.80 0.1
EZN 1.21 305 ePn 28 41.90 0.1
KGT 1.34 350 iPn 28 43.70 -0.1
S.D. = 0.2 on 4 of 4 obs.

* OCT 15, 1991 10h 34m 36.39±0.53s
9.121 S ±13.7km 158.480 E ±8.4km
DEPTH = 33.0km (normal)
4.3mb (2 obs.)
SOLOMON ISLANDS (193)
HNR 1.48 102 eP 35 01.00 0.0
eS 35 21.00
QIS 21.47 236 eP 39 25.00 0.6
WR2 25.67 243 iPc 40 05.40 0.2
0.5s 4.90nm 4.4mb
ASPA 27.59 235 iPc 40 21.90 -1.0
1.0s 6.60nm 4.3mb
CHTO 64.93 296 P 45 14.00 -1.4
GUN 79.16 301 P 46 40.80 0.4
PKI 79.47 300 P 46 42.20 0.2
KKN 79.64 300 P 46 43.00 0.2
DMN 79.74 300 P 46 44.00 0.6
GKN 80.25 300 P 46 46.40 0.4
FBA 83.87 20 eP 47 03.50 -0.3
S.D. = 0.7 on 11 of 11 obs.
* OCT 15, 1991 10h 56m 22.28±1.61s
16.807 S ±14.0km 177.220 E ±13.5km
DEPTH = 16.9 ±10.4 km
4.7mb (2 obs.)
FIJI ISLANDS (182)
ML 4.5 (SVA).
NDF 0.97 167 iPd 56 37.20 -3.0
SGE 1.03 139 eP 56 42.40 1.1
MBU 1.45 97 iPc 56 48.00 0.3
eS 57 07.60
VUN 1.68 135 eP 56 52.60 1.5
eS 57 16.80
OVA 1.73 121 eP 56 52.80 0.9
eS 57 16.40
SVA 1.76 138 iPc 56 53.40 1.2
eS 57 16.80
NDE 2.02 84 eP 56 55.20 -0.9
eS 57 20.80
KRO 2.14 104 iPc 56 57.30 -0.5
eS 57 25.40
TVI 2.63 93 eP 57 03.60 -1.2
eS 57 36.90
UDU 2.76 77 eP 57 06.90 0.4
eS 57 47.00
FBA 85.71 14 P 08 59.00 -2.1
1.0s 1.90nm 4.3mb
LZH 86.94 309 eP 09 10.00 2.0
1.5s 20.00nm 5.1mb
KHC 145.12 341 ePKP 16 01.00 0.5
GRF 145.29 344 ePKP 16 00.60 -0.1
WTTA 147.38 342 e(PKP) 15 58.00 -6.4X
0.6s 5.80nm
i 16 20.40
S.D. = 1.6 on 14 of 15 obs.
? OCT 15, 1991 13h 16m 32.14±4.85s
33.533 S ±12.0km 72.060 W ±35.0km
DEPTH = 10.0km (geophysicist)
OFF COAST OF CENTRAL CHILE (134)
IHA 0.62 35 eP 16 44.50 0.0
eS 16 53.70
LNV 0.69 128 iPd 16 46.00 0.3
iS 16 55.50
TACH 0.94 98 iPd 16 49.50 -0.7
iS 17 03.00
SAN 1.17 86 iP 16 53.70 -0.3
iS 17 09.80
PEL 1.21 72 iPd 16 54.60 -0.2
iS 17 12.50
CHCH 1.24 109 iPd 16 54.30 -0.9
iS 17 10.50
PCH 1.29 94 iPd 16 58.00 1.8
iS 17 14.50
S.D. = 1.1 on 7 of 7 obs.
? OCT 15, 1991 13h 25m 32.79±1.68s
31.940 S ±41.9km 69.384 W ±37.5km
DEPTH = 100.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)
MD 4.0 (SAN).
ZON 0.72 57 iPd 25 51.00 0.3

CFA	1.03	71	eS	26 03.00	
			ePc	25 53.50	-0.4
			S	26 09.00	
PEL	1.63	222	iPc	26 02.00	0.9
			iS	26 23.50	
SAN	1.85	215	(P)	26 00.00	-4.0X
			iS	26 28.90	
PCH	1.93	209	iPc	26 05.50	0.5
			iS	26 32.50	
TACH	2.15	217	iPd	26 08.00	0.1
			iS	26 34.50	
CHCH	2.26	208	iPd	26 09.50	0.2
			iS	26 38.60	
LVN	2.64	220	iPc	26 12.70	-1.6
			iS	26 43.50	

S.D. = 1.0 on 7 of 8 obs.

% OCT 15, 1991 14h 08m 37.15±1.16s
 42.753 N ± 4.4km 18.475 E ± 9.5km
 DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)
 ML 1.8 (TTG).

BRY	0.16	19	iPgd	08 41.02	0.2
			iSg	08 44.26	
HCY	0.31	177	iPgd	08 43.48	0.0
			iSg	08 48.72	
NKY	0.39	81	iPgd	08 45.42	0.2
			iSg	08 52.30	
BDV	0.54	151	iPgd	08 47.96	-0.1
			iSg	08 56.54	
TTG	0.66	119	iPgd	08 50.26	-0.1
			iSg	09 01.04	
PLE	0.89	49	iPgc	08 53.92	-0.3
			iSg	09 08.14	
ULC	0.98	144	iPgc	08 55.94	0.2
			iSg	09 11.28	
IVA	1.05	83	iPgd	08 57.16	0.1
			iSg	09 13.70	
PVY	1.12	98	iPgd	08 58.00	-0.2
			iSg	09 16.04	

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

? OCT 15, 1991 15h 26m 39.85±3.47s
 35.545 N ± 26.8km 22.608 E ± 26.8km
 DEPTH = 33.0km (normal)
 CENTRAL MEDITERRANEAN SEA (400)
 ML 3.1 (ATH).

VLI	1.20	13	ePn	27 03.90	3.5X
NPS	2.47	96	ePn	27 18.70	0.0
ATH	2.58	20	ePn	27 20.20	0.0
AGG	3.48	356	iPd	27 34.89	1.9
IGT	4.37	336	ePd	27 52.38	6.7X
PAIG	4.46	11	iPd	27 47.10	0.3
LIT	4.55	359	ePc	27 47.58	-0.6
KZN	4.80	352	ePn	27 52.00	0.3
OUR	4.90	12	iPd	27 53.21	0.1
SOH	5.30	6	ePc	27 58.58	-0.2
FNA	5.32	350	iPc	27 58.62	-0.5
GRG	5.41	358	ePd	27 59.50	-0.8
KNT	5.61	2	ePc	28 02.74	-0.4

S.D. = 0.8 on 11 of 13 obs.

% OCT 15, 1991 15h 34m 20.46±3.16s
 33.553 S ± 8.4km 72.123 W ± 22.0km
 DEPTH = 10.0km (geophysicist)
 OFF COAST OF CENTRAL CHILE (134)

LCCH	0.47	81	iPd	34 30.70	0.7
			iS	34 36.00	
IHA	0.66	38	iPc	34 33.80	0.2
			iS	34 42.60	
LVN	0.72	124	iPd	34 35.20	0.7
			iS	34 44.50	
TACH	0.99	96	iPd	34 39.00	-0.3
			iS	34 51.60	
ROCH	1.10	58	iP	34 41.20	0.0
			iS	34 57.00	
SAN	1.23	86	iPd	34 43.20	-0.1
PEL	1.27	72	iPd	34 44.00	-0.1
			iS	35 00.00	
CHCH	1.28	108	iPd	34 43.70	-0.6
			iS	35 00.50	
PCH	1.34	93	iPd	34 45.00	-0.3
			iS	35 02.50	
JACH	1.55	56	iPc	34 48.10	-0.1

iS 35 07.20
 S.D. = 0.5 on 10 of 10 obs.

? OCT 15, 1991 15h 51m 52.52±5.24s
 3.909 N ± 21.7km 77.006 W ± 47.3km
 DEPTH = 33.0km (normal)
 NEAR WEST COAST OF COLOMBIA (102)
 MD 2.5 (UVC).

ANCC	0.42	160	iPc	52 01.89	0.0
CLMC	0.44	94	eP	52 02.40	0.0
HOOC	0.57	140	eP	52 04.49	0.0
			eS	52 13.60	
HOBC	0.97	63	ePc	52 10.02	0.0
			eS	52 23.30	

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

OCT 15, 1991 16h 18m 01.73±0.10s
 6.494 S ± 2.8km 130.043 E ± 3.0km
 DEPTH = 136.8km (geophysicist)
 5.9mb (74 obs.)

BANDA SEA (280)

Mo=3.0*10**18 Nm (PPT). Depth
 from broadband displacement
 seismograms.

FAULT PLANE SOLUTION: P-Waves

NP1: Strike=43 Dip=84 Slip=67

NP2: 299 24 165

Principal Axes:

T Vol=46 Plg=289 Azm=289

P 35 153

Comment: The focal mechanism is

poorly controlled and

corresponds to reverse

faulting with a moderate

strike-slip component. The

preferred fault plane is not

determined.

RADIATED ENERGY

No. of sta: 10 Focal mech. C

Energy 2.5±0.7*10**13 Nm

MOMENT TENSOR SOLUTION

Dep 148 No. of sta: 15

Moment Tensor: Scale 10**18 Nm

Mrr=0.97 Mtt=-2.10

Mff=1.14 Mrt=0.61

Mrf=1.30 Mtf=-0.44

Principal axes:

T Vol=2.36 Plg=44 Azm=272

N 0.01 43 63

P -2.37 15 167

Best Double Couple: Mo=2.4*10**18

NP1: Strike=299 Dip=48 Slip=156

NP2: 46 72 45

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 28S, 73C

Centroid Location:

Origin Time 16:18: 8.9 0.2

Lot 6.22S 0.02 Lon 129.78E 0.02

Dep 156.9 0.7 Half-duration 4.8

Moment Tensor: Scale 10**18 Nm

Mrr=-0.04 0.03 Mtt=-0.98 0.03

Mff=1.02 0.04 Mrt=0.88 0.03

Mrf=1.55 0.03 Mtf=-0.24 0.03

Principal Axes:

T Vol=2.17 Plg=37 Azm=278

N -0.23 30 33

P -1.94 39 150

Best Double Couple: Mo=2.0*10**18

NP1: Strike=306 Dip=30 Slip=-178

NP2: 214 89 -60

AAI 3.34 326 eP 18 57.40 3.7X

MTN 6.40 170 iPd 19 34.30 -0.6

KUG 7.35 240 ePd 19 55.00 7.2X

eS 21 15.00

KNA 9.28 188 eP 20 12.30 -1.4

MNI 9.44 326 ePd 20 18.00 2.2

eS 21 13.50

NINI 10.44 281 iPc 20 27.00 -2.2

MKS 10.59 276 ePc 20 34.50 3.5X

TANI 11.05 285 iPc 20 39.90 2.9

MENI 11.07 70 iPc 20 36.60 -0.7

MNDI 13.54 89 eP 21 10.50 0.8

WR2 14.02 163 iPc 21 11.50 -4.1X

0.5s 392.40nm 6.0mb

BKB2	14.11	291	iPc	21 21.00	4.3X
			iScP	29 28.00	
0.8s	1626.90nm				6.4mb
DAV	14.21	342	eP+	21 17.60	-0.4
			eS	24 09.40	6.2mb
1.3s	1846.15nm				
TSM	16.20	311	ePd	21 44.90	2.0
			iS	24 09.40	6.2mb
1.0s	1373.10nm				
QIS	16.78	147	iPd	21 48.00	-2.0
			eS	24 45.00	
LAT	16.85	92	e(P)	21 51.30	0.4
PMG	17.19	101	eP+	21 53.00	-2.1
			eS	24 45.00	6.3mb
1.1s	1974.68nm				
ASPA	17.47	168	iPd	21 56.10	-2.4
			iS	24 57.70	7.0mb X
0.9s	6873.60nm				4.2mszX
Z	18s	20.50um			
MBL	17.61	213	eP	21 59.00	-1.2
KKM	18.59	312	iPc	22 10.90	-0.3
			e	22 31.40	
WARB	19.85	189	eP	22 14.30	-9.9X
CTAO	20.74	132	iPd	22 34.41	1.1
			iS	26 15.70	
RAB	22.15	85	iPd-	22 48.00	0.8
			iS	26 40.00	
PACI	22.98	268	eP	22 58.00	2.6
KALI	23.23	267	eP	22 54.50	-3.3X
PULI	23.92	269	eP	23 02.20	-2.4
QLP	24.12	148	iPd	23 06.50	0.3
			i	27 30.00	
PASI	24.29	268	ePc	23 08.20	0.2
BAG	24.61	338	ePc+	23 10.00	-1.1
			eS	27 14.00	6.5mb
1.6s	2453.33nm				
PENI	24.75	271	ePc	23 10.50	-1.8
GUA	24.78	37	eP	23 13.20	0.7
			eS	27 10.74	5.8mb
0.7s	224.66nm				
GUMO	24.79	36	ePd	23 12.76	0.2
			e	23 52.50	204kmX
			iS	27 10.74	
			i	30 31.84	
PJG	24.79	36	eP	23 13.00	0.4
KLI	25.11	272	eP	23 15.00	-0.6
			eS	26 39.50	
COOL	25.66	198	eP	23 19.60	-0.9
			eS	28 15.00	
MRWA	26.21	209	iPd	23 25.60	0.1
			eS	28 24.00	
RMO	26.71	140	iPd	23 30.00	-0.1
			iS	24 02.00	6.1mb
1.0s	480.00nm				
BAL	27.06	206	eP	23 49.50	16.2X
			eS	28 45.00	
STK	27.47	158	iPd	23 37.60	0.7
			eS	28 45.00	6.1mb
0.6s	273.60nm				
KLB	27.49	203	eP	23 36.70	-0.4
			eS	28 54.00	
KSI	27.49	275	ePc	23 37.50	0.2
KGM	27.99	287	ePd	23 42.60	0.8
NWAO	28.87	203	iPd	23 50.10	0.5
CMS	28.92	151	iPd	23 49.70	-0.3
			iS	24 34.00	221kmX
1.0s	404.00nm				
ADE	29.44	165	eP	23 53.90	-0.7
			i(pP)	24 10.00	46kmX
HNR	29.75	98	eP	23 55.00	-2.5
KLM	29.91	288	ePc	23 58.50	-0.4
BRS	29.97	137	iPc	23 58.00	-1.4
			eS	28 45.00	5.6mb
0.5s	59.80nm				
RKG	30.42	202	eP	24 04.00	0.8
IPM	30.99	290	ePc	24 06.90	-1.5
			e	30 29.10	5.7mb
0.4s	68.00nm				
COO	31.54	142	iPd	24 11.00	-2.1
			e	30 29.10	6.1mb
0.4s	135.00nm				

			e	25	16.00	340kmX	N	12s	0.98um	pP	27	02.00	135kmX							
			i	28	15.00		E	10s	1.24um	sP	27	17.00								
			i	30	30.00					iS	33	18.00								
			e	31	40.00					sS	34	15.00								
QIZ	32.24	322	Pc	24	18.60	-0.7				ScS	36	06.00								
	1.0s	250.00nm			6.0mb					ePd	26	32.60	-0.5							
			pP	24	48.00	136kmX	GYA	39.84	326	iPc	25	23.60	0.1							
			PP	25	28.50			1.0s	250.00nm				5.9mb							
			S	29	15.00		N	13s	2.01um		VUN	48.54	108	ePd	26	32.60	-0.5			
			sS	30	10.50		E	13s	1.61um		SYA	48.55	108	eP	26	32.40	-0.8			
PSI	32.38	285	ePc	24	20.50	-0.1				pP	25	54.00	136kmX	MBU	48.66	107	eP	26	34.80	0.7
BWA	32.57	151	iPd	24	23.60	1.6				sP	26	13.00		SHL	48.89	312	iP	26	34.50	-1.5
			e	25	17.20	269kmX				PcP	27	28.00				iS	33	23.00		
HKC	32.57	332	eP	24	21.40	-0.6				S	31	12.00		LZH	48.98	332	iPc	26	36.20	-0.2
BFD	32.60	161	iPd	24	20.50	-1.7				sS	32	14.00			1.5s	1420.00nm			6.5mb	
	1.0s	554.00nm			6.3mb					SS	34	15.00		Z	22s	3.28um			5.3Msz	
			i	25	08.00	234kmX	SHK	40.88	3	iP	25	32.20	0.4	N	13s	1.57um				
			i	26	03.90											epPc	27	07.49	136kmX	
			i	31	00.70		KMI	41.15	321	iPc	25	35.26	0.8			esPd	27	21.06		
AEKI	32.67	284	ePc	24	19.60	-3.6X										PcP	27	59.50		
SIBi	32.94	286	eP	24	24.00	-1.7										ePP	28	31.07		
QZH	33.18	341	Pc	24	25.80	-1.5										eScP	31	38.46		
	0.7s	130.00nm			5.8mb		Z	16s	1270.00nm							iS	33	26.09		
	N	13s	1.88um				N	12s	0.50um							esS	34	25.02		
							E	12s	1.40um							iScS	36	10.97		
			pP	24	56.50	142kmX				epPc	26	06.55	140kmX	HHC	50.08	342	Pc	26	44.60	-0.1
			sP	25	12.00					esPd	26	20.62			1.3s	370.00nm			6.0mb	
			S	29	31.00					iPPP	27	56.45			Z	20s	2.74um			5.3Msz
			sS	30	26.00					iScP	31	07.15			N	14s	1.19um			
			ScP	30	36.50					iS	31	34.21			E	12s	0.90um			
RIV	33.50	147	iPd	24	31.60	1.6	MAJO	43.49	10	iPc	25	51.74	-1.3			pP	27	13.00	121kmX	
	0.9s	*****nm			7.9mb X					esPd	26	36.43				sP	27	35.00		
			i	30	38.00					iS	31	05.69				PP	28	41.50		
CAN	33.57	151	iPd	24	31.30	0.6	MAT	43.49	10	iPc										

URZ	52.98	134	P	27 04.90	-1.4				eS	38 00.00			eSKS	41 22.00		
WAHZ	53.06	136	P	27 06.10	-0.9				eSS	38 57.00			eS	41 46.00		
MTW	53.13	138	P	27 06.70	-0.8			ADK	73.73	31	e(P)	29 28.10	5.8X	e	42 02.00	
MCO	53.23	159	eP	27 09.60	1.7			SBA	73.83	172	iPd	29 23.80	1.3	e	42 11.50	
	0.3s	2193.50nm			7.5mb	X		MAW	75.43	201	eP	29 33.00	1.2	e	42 33.00	
PGZ	53.41	137	P	27 08.50	-0.9				0.8s	96.00nm			5.6mb	eSS	43 04.00	
	0.4s	90.00nm			6.0mb					eS	38 59.00			ePS	43 32.00	
TEHZ	53.50	136	eP	27 08.90	-1.3			CRZF	77.18	224	eP	30 01.00	19.1X	e	43 52.00	
GTA	53.55	331	iPc	27 10.40	-0.3					eS	39 17.00			e	44 12.00	
	1.0s	320.00nm			6.2mb			MAIO	78.40	309	iPc	29 49.00	0.0	e	45 08.00	
Z	30s	5.62um			5.4MszX				0.6s	84.18nm			5.7mb	e	47 26.00	
N	11s	1.05um								e	39 32.00			eSS	48 08.00	
		pP	27 43.50	142kmX				AFR	78.73	107	iP	29 53.10	2.1	e	48 50.00	
		sP	27 59.00						0.9s	70.00nm			5.4mb	e	49 02.00	
		PcP	28 16.00					TBI	78.75	112	iP	29 53.90	2.9	eSSS	51 47.00	
		PP	29 11.00						0.8s	85.00nm			5.6mb	iP+	31 03.00	0.9
		ScP	31 59.00					PAE	78.92	107	iP	29 54.10	2.1			5.1MszX
		S	34 28.00						0.9s	45.00nm			5.2mb	PP	34 42.00	
		sS	35 26.00					PPT	78.93	107	iP	29 54.20	2.2	SKS	41 22.00	
		ScS	36 42.80						0.9s	80.00nm			5.5mb	PS	43 08.00	
HBZ	53.58	133	eP	27 10.20	-0.5			PPN	79.06	107	iP	29 54.90	2.1	SS	48 28.00	
	0.5s	211.00nm			6.3mb				0.9s	50.00nm			5.3mb	LQ	55 28.00	
PUZ	53.73	133	P	27 10.50	-1.4			TVO	79.22	107	iP	29 56.00	2.3	LR	00 40.00	
NOZ	53.79	134	P	27 11.20	-1.1				0.9s	75.00nm			5.4mb			
MAHZ	53.91	135	eP	27 12.40	-0.8			PMO	80.70	104	iP	30 04.00	2.5			
GUN	54.65	311	Pc	27 17.92	-1.3				0.9s	65.00nm			5.4mb	BFT	96.16	243
KKN	55.04	310	Pc	27 20.46	-1.4			VAH	80.94	104	iP	30 05.10	2.4			
	0.8s	1480.00nm			6.9mb				0.9s	30.00nm			5.0mb			
DMN	55.08	310	Pc	27 20.88	-1.3			TPT	80.97	104	iP	30 05.40	2.5	SNA	96.96	195
	0.8s	1409.00nm			6.9mb				0.9s	55.00nm			5.3mb			
GKN	55.64	310	Pc	27 24.70	-1.4			RUV	81.18	104	iP	30 06.40	2.4	HRI	97.11	303
HYB	56.13	296	iPc	27 27.80	-1.8				0.9s	35.00nm			5.1mb	BHL	97.22	303
	1.0s	430.00nm			6.4mb			SHI	82.43	301	iPc	30 10.00	-0.6			
		e	28 06.60	168kmX				SDN	83.86	33	eP	30 17.50	0.5			
		iS	35 01.50					DHR	83.87	297	iPc	30 18.00	0.3			
HIA	56.25	352	iPc	27 29.36	-0.6					iS	40 22.00					
		epPc	28 01.15	135kmX				TEH	84.63	307	ePc	30 22.00	0.5			
		esPd	28 15.88					IR4	84.91	306	iPc	30 24.00	1.1			
		iS	35 06.21					IR1	85.12	306	iPc	30 25.30	1.4			
		iS	36 02.91					IR5	85.16	306	eP	30 25.00	0.8			
		iScS	37 02.50					RYD	86.75	295	ePc	30 33.00	0.9			
		esScS	38 03.34							eS	40 59.00			iSKS	41 42.00	
AFI	57.62	102	ePd	27 39.95	-0.2			KER	87.82	305	iPc	30 36.00	-1.1	i	42 08.00	
		iS	35 30.64					MJMA	88.10	296	iPc	30 39.00	0.5	iS	42 20.00	
		esS	36 23.62					TTA	88.52	26	eP	30 40.70	0.9	e	42 52.00	
		e	37 00.03					KDC	88.81	32	P	30 41.70	0.6	ePS	43 50.00	
		eScS	37 21.83					TAB	89.03	308	iPc	30 44.00	1.2	ePPS	44 51.00	
POO	60.72	295	iPc	28 03.60	2.2			NPA	89.09	255	iP	30 45.10	1.8	eSS	49 12.00	
	0.7s	239.73nm			6.3mb				0.7s	210.00nm			6.3mb	MBH	97.66	299
CSY	61.22	189	eP	28 05.70	1.7					i	31 22.00	144kmX				
	0.6s	44.30nm			5.6mb					e	41 00.00			SLR	97.71	243
NDI	61.71	307	iPc	28 05.80	-2.1					i	41 20.60					
	0.5s	281.69nm			6.5mb			QASM	89.70	296	ePc	30 46.00	-0.1	i	32 26.50	271kmX
BOM	61.77	295	iPd	28 05.60	-2.8			AFIF	89.77	294	ePc	30 48.50	2.1	iP	31 28.50	3.5X
		eS	36 05.60					BHD	89.90	303	iPd	30 47.50	0.7	eP	31 24.00	-0.7
		ePP	34 25.00							ePP	34 25.00			pP	32 05.00	162kmX
WMO	63.00	327	iPc	28 15.95	-0.3					ePPP	36 22.00			iPd	31 26.60	0.4
	1.5s	280.00nm			6.0mb					iSKS	41 04.00			i	31 32.20	17kmX
Z	20s	2.39um			5.4Msz					iS	41 26.00			i	35 28.90	
N	13s	1.50um								iPS	42 36.00			i	41 49.30	
		PcP	28 52.00					IMA	90.37	23	eP	30 48.90	0.5	VIR	98.49	240
		esPd	29 04.12						1.3s	32.70nm			5.3mb			
		PP	30 34.00					SLKM	90.57	29	P	30 48.00	-1.3	BLF	98.85	239
		ScP	32 39.00					UQSK	90.71	296	ePc	30 51.50	0.7	LSZ	99.65	253
		PcS	32 54.50					BRW	90.79	18	eP	30 50.70	0.6			
		iS	36 31.77					MSL	91.31	306	iPd	30 53.00	-0.2	BBTK	99.71	309
		epS	37 11.77							eSKS	41 09.50					
		eSS	37 31.77							eS	41 37.50					
		iScS	37 50.81							eSP	42 41.00			HLW	100.73	299
		eSS	40 36.35							ePPS	43 31.00					
KSH	67 64	317	P	28 47.00	0.8					eP	30 53.40	-1.5				
	E	10s	1.97um					RND	91.79	26	P	30 53.40	-1.5	MBC	101.11	13
		sP	29 36.00					RKT	92.04	113	iP	31 01.20	4.4X			
		S	37 30.00						1.4s	120.00nm			5.9mb	SOD	101.12	337
		sS	38 32.00					COL	92.51	25	ePc	30 56.77	-1.4			
YAK	68 31	360	iPc	28 48.40	-1.2					ePP	31 34.40			KAF	102.13	332
		iPcP	29 00.00							iS	41 45.79					
		iPP	29 34.00	193kmX						iS	42 42.07			NUR	103.19	331
		ePP	31 15.00					FBA	92.51	25	ePd	30 56.30	-1.8			
		ePP	33 15.00						0.7s	9.59nm			5.1mb			
		iS	37 36.00					TOA	92.78	28	eP	31 01.40	1.9			
		iPS	37 50.00						1.3s	109.00nm			5.9mb	MLR	104.49	315
		eSKS	38 15.00					NVL	92.85	197	ePd	31 01.00	1.3			
		eS	38 29.00							e	31 07.00			BUC1	104.53	314
		iS	38 46.00							epP	31 51.00	202kmX		BMR	105.91	318
		eSS	41 50.00							e	32 14.00			UPP	106.75	331
		eSSS	44 54.00							ePP	34 46.00			NWRM	107.37	52
QUE	70.54	305	iPc+	29 04.00	-0.2					iSKS	41 15.00			BZS	107.49	316
														DAG	107.77	353

EHOR	128.89	314	iPKPd	36	55.56	0.5
VVO	129.14	49	ePKPc	36	55.80	0.2
MTE	129.25	318	iPKPd	36	57.00	1.2
			i	37	12.40	
			i	40	03.50	
EPRU	129.25	313	iPKPd	36	56.20	0.4
LIJA	129.41	313	ePKP	36	57.50	1.3
EJIF	129.64	313	iPKPc	36	57.02	0.5
ALJ	129.65	313	ePKP	36	57.00	0.3
EVAL	130.66	315	iPKPc	36	57.17	-0.1
FVM	131.77	43	PKP	36	59.70	-0.9
LST	132.98	45	PKP	36	57.20	-5.7
TIO	133.24	307	iPKP	37	04.50	0.8
			i	40	17.00	
PWLA	134.92	46	PKP	37	05.70	-0.9
LNV	134.93	155	ePKP	37	00.50	-6.1
PEL	135.94	155	ePKP	36	59.00	-9.7
GBTN	137.22	42	PKP	37	10.80	-0.2
MCWN	137.43	35	Pdiff	33	59.60	-19.5
TKL	137.52	42	PKP	37	11.30	-0.3
BNH	137.74	23	PKP	37	09.40	-2.3
RTCB	138.16	156	ePKP	37	03.00	-10.0
NAV	138.42	38	PKP	37	03.30	-9.9
EMM	138.95	19	PKP	37	09.40	-4.4
LVNJ	139.27	29	PKP	37	09.40	-5.1
TBR	139.27	28	PKP	37	14.20	-0.3
JSC	140.00	42	PKP	37	15.30	-0.7
LHS	140.18	41	PKP	37	08.00	-8.4
ANT	143.95	147	ePKP	37	22.50	-0.7
MBO	146.64	286	iPKPc	37	31.10	3.2
PT10	147.41	124	e(PKP)	37	34.00	4.8
NNA	147.57	124	iPKPd	37	30.70	1.2
	0.9s	62.18nm				
			i	37	33.00	
ITB1	148.75	172	PKPd	37	35.50	4.4
ARE	148.79	137	ePKP	37	36.00	4.2
BMA	150.44	191	ePKP	37	38.50	4.7
			e	37	40.70	
			e	37	43.50	
VAO	150.54	186	ePKP	37	34.20	0.2
			e	37	40.50	
UPA	150.59	83	iPKPc	37	34.00	-0.1
	1.0s	64.00nm				
CNCB	150.78	143	PKP	37	37.10	2.0
LPB	150.92	142	PKP	37	37.70	2.6
	1.0s	360.00nm				
			i	37	42.80	
ZOBO	151.11	142	ePKP	37	35.11	-0.5
			id	37	50.34	
			eSKP	40	54.17	
CUMC	151.62	100	ePKPc	37	38.35	1.9
PPD	151.62	177	ePKP	37	36.30	0.8
			e	37	42.40	
ANCC	153.03	95	ePKP	37	36.22	-1.6
PURC	153.36	98	ePKP	37	40.46	1.6
CLMC	153.38	94	ePKP	37	39.37	0.9
BUGC	153.68	94	ePKPc	37	39.05	0.2
HOBC	153.85	93	ePKP	37	38.01	-1.1
BAO	157.93	185	ePKPd	37	45.20	0.9
PDCR	158.25	210	ePKP	37	45.30	0.8
			e	38	19.90	
S.D. = 1.1 on 326 of 364 obs.						

• OCT	15. 1991	17h	54m	06.63±	0.48s	
	9.172 S	±10.1km		158.458 E	± 8.2km	
DEPTH = 33.0km (norml)						
4.5mb (5 obs.)						
SOLOMON ISLANDS (193)						
HNR	1.49	100	eP	54	31	

1.0s 2.70nm 4.4mb
S.D. = 0.7 on 13 of 13 obs.

? OCT 15, 1991 18h 46m 36.69±16.16s
16.737 N ±96.6km 100.118 W ±98.6km
DEPTH = 33.0km (normal)

NEAR COAST OF GUERRERO, MEXICO (58)

ACX 0.28 62 iP 46 44.00 -0.2
iS 46 48.50
III 1.74 21 iP 47 05.50 0.2
iS 47 27.50
PPM 2.72 31 iP 47 18.00 -1.4
(S) 47 58.00
UNM 2.73 19 eP 47 20.00 0.6
OXX 3.27 83 iP 47 35.00 8.0X
(S) 48 05.00
IISM 3.44 49 eP 47 30.00 0.7
S.D. = 1.2 on 5 of 6 obs.

* OCT 15, 1991 18h 47m 57.52±0.52s
9.271 S ±11.5km 158.888 E ±8.4km
DEPTH = 33.0km (normal)

4.1mb (3 obs.)
SOLOMON ISLANDS (193)

HNR 1.06 99 eP 48 16.00 0.0
eS 48 37.00
RMO 19.63 208 eP 52 27.00 0.5
OIS 21.72 237 eP 52 48.00 0.0
e 54 23.00
WR2 25.96 243 eP 53 28.90 -0.1
0.9s 4.90nm 4.1mb
i 55 06.70
ASPA 27.84 236 iPc 53 45.50 -0.7
1.8s 7.70nm 4.1mb
CHG 65.36 296 eP 58 40.00 0.7
YAK 74.61 346 eP 59 34.60 -0.3
KKN 80.06 300 P 00 00.00 -6.2X
FBA 83.87 20 P 00 25.00 0.1
1.0s 2.50nm 4.3mb
NB2 123.08 342 PKP 06 51.80 -0.1
0.8s 1.10nm
S.D. = 0.5 on 9 of 10 obs.

% OCT 15, 1991 18h 48m 19.86±1.75s
41.285 N ±15.3km 22.571 E ±6.2km
DEPTH = 10.0km (geophysicist)

NORTHWESTERN BALKAN REGION (383)

KNT 0.28 116 iPg 48 25.70 0.0
eSg 48 29.68
GRG 0.35 201 ePg 48 26.61 -0.5
iSg 48 31.97
SOH 0.75 128 ePg 48 34.14 -0.5
eSg 48 44.64
SRS 0.79 102 ePg 48 34.84 -0.4
eSg 48 46.31
FNA 1.03 241 ePg 48 39.52 0.1
eSg 48 53.20
LIT 1.18 183 ePbc 48 42.01 0.0
OUR 1.43 131 ePbc 48 46.09 0.3
eSb 49 06.16
PAIG 1.60 148 ePbc 48 49.14 0.9
S.D. = 0.6 on 8 of 8 obs.

OCT 15, 1991 19h 11m 00.95±0.37s
30.565 N ±7.3km 79.311 E ±5.1km
DEPTH = 33.0km (normal)

4.5mb (9 obs.)
XIJIANG-INDIA BORDER REGION (305)

NDI 2.62 225 iPn 11 43.80 2.0
GKN 5.31 117 P 12 20.42 0.3
0.3s 162 00nm 6.1mb X
DMN 5.86 119 P 12 27.88 -0.2
0.3s 191.00nm 6.2mb X
KKN 5.91 116 P 12 28.10 -0.6
PKI 6.11 118 P 12 31.20 -0.5
0.3s 400 00nm 6.5mb X
GUN 6.32 113 P 12 33.84 -0.8
0.3s 205.00nm 6.4mb X
QUE 10.68 271 eP 13 31.50 -3.4X
eS 15 33.00
SHL 12.17 111 eP 13 50.50 -4.5X
eS 16 02.00
POO 12.96 204 eP 14 03.50 -2.1

BOM 13.03 208 eP 14 12.70 6.4X
eS 16 35.20
HYB 13.11 183 eP 14 02.00 -5.4X
WMO 14.81 24 P 14 36.50 6.8X
0.5s 20.00nm 4.8mb
pP 14 42.50
MAIO 17.49 294 eP 15 02.00 -2.0
GTA 18.95 57 eP 15 20.60 -1.3
0.8s 9.00nm 4.0mb
pP 15 27.80

CD2 21.01 83 P 15 43.90 -0.2
LZH 21.20 68 Pd 15 46.20 0.1
1.0s 21.00nm 4.5mb
pP 15 55.00 32kmX
sP 15 57.00

CHG 21.29 119 eP 15 46.00 -1.0
KMI 21.40 99 eP 15 48.50 0.2
KHT 23.67 127 eP 16 12.50 2.1
GYA 24.36 93 P 16 19.00 1.8
XAN 25.23 74 P 16 25.70 0.3
BTO 26.79 60 eP 16 40.90 1.0
MLR 43.81 305 ePc 19 07.50 2.0
NUR 46.64 326 eP 19 27.00 -0.6
SOD 48.02 336 eP 19 40.00 1.6
KEV 48.86 339 eP 19 48.00 3.1X
BRG 51.74 313 i(P) 20 07.20 0.1
HFS 51.96 325 eP 20 08.20 -0.4
0.6s 11.90nm 5.0mb
Z 16s 0.06um 3.7mszX
LR 41 45.00

NB2 53.23 326 P 20 17.00 -1.2
0.7s 3.80nm 4.5mb
EKA 61.33 320 P 21 15.00 -0.4
0.6s 2.40nm 4.5mb

WR2 72.95 126 eP 22 28.50 -0.7
0.7s 3.20nm 4.4mb
FBA 78.04 19 P 22 57.20 -0.2
0.9s 2.20nm 4.2mb

KIC 81.69 272 P 23 18.00 0.1
0.9s 14.00nm 5.0mb
TIC 81.79 273 P 23 18.60 0.2
LIC 82.00 273 P 23 19.80 0.3

S.D. = 1.1 on 29 of 35 obs.
? OCT 15, 1991 19h 32m 29.77±2.66s
17.868 N ±31.7km 66.868 W ±10.3km
DEPTH = 33.0km (normal)

PUERTO RICO REGION (90)

MGP 0.25 303 P 32 36.90 0.0
PORP 0.29 50 P 32 36.70 -0.7
CLLP 0.35 53 (P) 32 37.70 -0.4
APR 0.60 13 P 32 42.00 0.3
S 32 49.20
LPR 1.05 65 P 32 49.00 0.8
S.D. = 0.8 on 5 of 5 obs.

? OCT 15, 1991 19h 48m 42.26±6.93s
40.664 N ±24.5km 26.010 E ±50.9km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MFT 0.97 82 iPg 49 00.90 0.1
eSg 49 12.40
KGT 1.01 102 ePg 49 01.50 0.2
EDC 1.45 102 ePg 49 08.50 0.0
DMK 1.75 48 iPn 49 13.10 0.2
CTT 1.90 74 iPn 49 14.50 -0.5
S.D. = 0.4 on 5 of 5 obs.

OCT 15, 1991 20h 20m 09.27±0.72s
43.910 N ±9.0km 87.077 E ±7.8km
DEPTH = 29.9km (2 depth phases)

4.3mb (2 obs.)
NORTHERN XINJIANG, CHINA (332)

GTA 10.53 111 P 22 40.60 -0.8
S 24 32.00
LSA 14.55 166 P 23 44.00 8.6X
LZH 15.02 116 eP 23 54.50 13.3X
1.4s 19.00nm
N 10s 0.28um
Lg 28 22.00
GKN 15.99 188 P 23 56.20 2.4X
GUN 16.00 184 P 23 53.40 -0.6
KKN 16.15 186 P 23 56.00 0.1
DMN 16.34 186 P 23 59.60 1.2

PKI 16.36 185 P 23 57.20 -1.5
HHC 18.33 91 eP 24 23.00 0.1
CD2 18.50 129 eP 24 32.00 7.0X
SHL 18.71 166 eP 24 27.00 -0.8
XAN 19.58 113 eP 24 42.60 4.7X
QUE 21.04 236 eP 24 53.40 0.3
MAIO 22.35 260 eP 25 06.00 -0.2
GYA 23.55 131 P 25 21.00 3.0X
pP 25 31.00 37km

WHN 25.35 113 P 25 42.00 6.9X
CHG 26.93 155 eP 25 51.00 1.1
CHTO 26.93 155 P 25 51.00 1.2
pP 25 57.50 23km

NB2 46.40 319 P 28 34.10 -0.3
0.8s 2.30nm 4.2mb
WR2 76.89 135 iPc 32 00.50 0.3
0.7s 2.70nm 4.4mb

S.D. = 0.9 on 13 of 20 obs.

* OCT 15, 1991 22h 40m 06.36±1.47s
16.928 N ±14.8km 99.370 W ±9.9km
DEPTH = 33.0km (normal)

NEAR COAST OF GUERRERO, MEXICO (58)

ACX 0.47 263 iP 40 15.50 -1.1
iS 40 22.50
III 1.44 356 iP 40 29.50 -1.1
iS 40 49.50
PPM 2.24 18 iP 40 41.00 -1.4
iS 41 10.00
PUE 2.38 28 (P) 40 28.00 -16.2X
(S) 41 10.00
UNM 2.40 4 eP 40 45.00 0.6
iS 41 13.00
OXX 2.54 86 iP 40 47.50 1.2
iS 41 17.00
IISM 2.79 42 iP 40 48.50 -1.2
MRX 3.26 328 iP 40 58.00 1.7
ANMO 19.03 342 (P) 44 29.80 1.3
S.D. = 1.5 on 8 of 9 obs.

OCT 15, 1991 23h 00m 55.06±0.85s
34.433 N ±3.6km 26.240 E ±2.7km
DEPTH = 21.3 ±6.7 km

5.2mb (44 obs.)
CRETE (370)

NPS 0.98 328 eP 01 18.00 4.8X
YER 3.17 31 iPn 01 45.90 1.1
CIN 3.50 25 iPd 01 51.00 1.6
VLI 3.53 311 iPnd 01 52.10 2.2
IZM 4.04 11 ePn 01 58.80 1.6
ATH 4.08 331 eP 02 00.20 2.6
BCK 4.64 48 iPn 02 07.00 1.2
KHL 4.70 33 iPn 02 07.00 0.4
PRK 4.80 0 eP 02 09.10 1.2
EZN 5.38 1 iPn 02 17.20 1.1
DST 5.50 20 iPn 02 18.50 0.6
AGG 5.55 327 ePd 02 19.86 1.3
ALT 5.56 33 ePn 02 19.50 0.7
PAIG 5.85 340 iPc 02 24.14 1.4
VLS 5.90 311 eP 02 27.00 3.6X
EDC 6.04 12 iPn 02 25.50 0.1
LFK 6.06 80 ePn 02 27.50 1.8
KGT 6.07 8 iPn 02 26.80 1.1
OUR 6.16 344 ePd 02 28.38 1.4
HLW 6.29 135 ePn 02 27.50 -1.4
eS 03 31.50

MFT 6.40 7 iPn 02 31.40 0.9
LIT 6.40 333 ePd 02 31.62 1.1
IZI 6.43 23 ePn 02 31.40 0.4
ALN 6.46 359 ePc 02 31.54 0.3
KOT 6.53 132 ePn 02 30.00 -2.3
eS 03 30.00

YLV 6.61 21 ePn 02 34.00 0.5
GPA 6.68 28 ePn 02 32.00 -2.5
THE 6.71 338 ePc 02 36.50 1.6
RDO 6.72 355 eP 02 36.00 1.0
SOH 6.78 341 ePd 02 37.38 1.6
KZN 6.86 330 eP 02 40.50 3.5X
CTT 6.92 14 eP 02 37.00 -0.8
HRT 6.93 22 eP 02 39.00 1.0
IGT 6.95 319 ePc 02 36.94 -1.2
ISK 6.99 18 eP 02 37.00 -1.7
SRS 6.99 343 ePc 02 39.97 1.1
GRG 7.19 336 ePd 02 42.46 0.9
KNT 7.22 339 ePc 02 43.65 1.7

		1.0s	40.00nm			4.6mb
EMS		18.72	314 ePc	05	13.70	-0.8
SLE		18.82	320 ePc	05	14.70	-0.8
GRF		18.83	329 iPc	05	14.40	-1.3
	Z	22s	0.30um			
			e	05	15.90	
HOF		19.03	331 eP	05	17.00	-1.1
MOX		19.40	331 iPc	05	20.70	-1.8
		0.8s	35.00nm			4.7mb
CLL		19.41	334 iPc	05	20.60	-1.9
		1.0s	47.00nm			4.7mb
SSB		19.81	310 P	05	25.60	-1.4
IR7		19.98	79 eP	05	30.60	1.6
IR5		19.99	81 eP	05	30.00	0.8
IR1		20.06	80 eP	05	31.90	2.0
IR4		20.25	81 eP	05	32.80	0.9
COLF		20.45	310 P	05	32.43	-1.3
TNS		20.46	326 iPc	05	32.40	-1.4
LBL		20.62	308 P	05	35.40	-0.2
PLDF		20.69	311 P	05	35.00	-1.3
PYM		20.99	310 P	05	39.00	-0.3
WLF		21.21	322 iPc	05	41.45	0.1
EBR		21.32	295 eP	05	53.00	10.4X
BNS		21.56	326 iPc	05	44.90	0.0
		1.1s	103.00nm			5.2mb
MEM		21.88	324 iPc	05	49.82	1.7
OBN		21.89	16 iPc	05	46.00	-2.2
		1.0s	*****nm			7.8mb X
	Z	16s	0.70um			4.2MszX
	N	16s	0.50um			
	E	16s	0.40um			
			i	05	49.00	
			ePP	06	10.00	
			ePPP	06	19.00	
			e	09	45.00	
			LR	13	00.00	
ENN		22.02	324 iPc	05	50.20	0.6
		1.0s	170.00nm			5.4mb
BSD		22.13	343 iP	05	47.80	-2.8
		0.6s	20.00nm			4.7mb
DOU		22.27	321 P	05	52.30	0.2
		0.5s	25.40nm			4.9mb
BTH		22.30	301 eP	05	57.50	5.1X
			iP	06	06.00	30kmx
			i	06	11.50	
			PP	06	20.00	
WTS		22.43	327 iPc	05	53.80	0.2
		0.9s	76.00nm			5.2mb
SNF		22.68	322 iPd	05	57.39	1.3
SHI		22.76	95 eP	05	59.00	1.7
UCC		22.82	322 P+	05	59.70	2.3
			e-	06	09.00	
WIT		23.07	329 eP	06	00.00	0.2
COP		23.29	340 iPd	06	01.10	-0.9
		0.5s	101.41nm			5.6mb
TOL		24.68	292 eP	06	29.00	13.4X
LIJA		25.77	285 eP	06	26.00	-0.1
ALJ		25.94	284 eP	06	27.00	-0.7
MOMI		26.07	283 eP	06	26.00	-2.8
NUR		26.11	358 iP	06	27.30	-1.6
		0.6s	85.70nm			5.6mb
HFS		26.99	346 eP	06	34.50	-2.5
		0.4s	43.10nm			5.4mb
	Z	28s	0.41um			3.8MszX
			LR	14	41.00	
MAIO		27.11	76 eP	06	40.00	1.6
KAF		27.70	0 iP	06	41.50	-1.9
		0.7s	42.90nm			5.3mb
NB2		28.33	345 P	06	47.00	-2.2
		0.7s	29.90nm			5.1mb
EKA		29.15	325 Pc	06	55.80	-0.7
		0.9s	24.30nm			5.0mb
ESY		29.22	326 eP	06	57.30	0.1
EBL		29.34	326 eP	06	57.70	-0.5
		0.4s	17.00nm			5.2mb
EDI		29.49	326 ePd	06	59.20	

KEV 35.38 0 iP 07 50.20 -0.5
0.7s 30.70nm 5.3mb
TIC 39.95 233 P 08 31.20 1.5
KIC 39.98 233 P 08 31.54 1.6
LIC 40.27 233 P 08 33.88 1.6
NDI 43.45 83 eP 09 00.80 2.6
DAG 46.98 347 iPd 09 25.20 -0.6
0.4s 33.90nm 5.7mb
WMO 47.60 59 P 09 32.50 1.2
0.5s 21.00nm 5.4mb
sP 09 45.50
LSZ 49.47 178 iP 09 48.00 2.1
HYB 49.47 96 eP 09 47.00 1.1
GKN 49.77 81 P 09 48.10 -0.2
0.5s 36.00nm 5.7mb
DMN 50.30 81 P 09 52.30 -0.2
0.6s 42.00nm 5.6mb
KKN 50.38 81 P 09 52.68 -0.4
0.6s 35.00nm 5.5mb
PKI 50.57 81 P 09 54.12 -0.5
0.7s 29.00nm 5.3mb
GUN 50.82 80 P 09 56.16 -0.4
0.7s 46.00nm 5.6mb
MTD 51.18 173 iPc 10 01.00 2.1
BUL 54.32 177 iPd 10 24.00 1.7
0.9s 12.18nm 4.9mb
GTA 57.52 62 Pc 10 45.60 0.3
0.6s 18.00nm 5.3mb
SLR 59.87 178 eP 11 02.10 0.5
LZH 61.72 64 eP 11 14.00 -0.3
1.3s 22.00nm 5.1mb
pP 11 20.00 20kmX
CD2 63.82 69 eP 11 28.50 0.4
HHC 65.30 56 P 11 38.60 0.9
CHG 65.59 83 eP 11 41.00 1.2
XAN 66.36 64 P 11 44.70 0.2
MBC 67.46 352 ePc 11 50.40 -0.4
0.5s 13.00nm 5.3mb
GYA 68.12 72 P 11 57.60 1.8
BJI 68.82 55 eP 12 00.00 0.2
TIA 71.29 59 eP 12 15.40 0.4
QIZ 74.36 77 eP 12 29.50 -3.7X
BRW 74.54 1 eP 12 21.40 -11.9X
INK 76.46 352 eP 12 44.00 -0.3
SOB1 76.84 249 eP 12 55.70 8.3X
YKA 78.41 343 eP 12 55.50 0.3
0.5s 6.60nm 4.9mb
FFC 80.69 332 iPc 13 09.00 1.3
0.6s 27.00nm 5.4mb
FBA 80.89 357 P 13 09.70 1.2
0.6s 9.85nm 5.0mb
BALM 84.42 354 P 13 27.20 0.2
GBTN 84.75 310 P 13 30.50 1.6
SLKM 85.36 358 P 13 32.50 0.9
FVM 87.03 315 P 13 41.50 1.3
0.5s 48.99nm 6.0mb
SES 87.49 334 ePd 13 43.70 1.4
RSSD 89.68 327 P 13 53.80 0.8
0.7s 7.79nm 5.1mb
PNT 91.27 338 eP 14 02.00 2.0
0.6s 8.00nm 5.2mb
NEW 91.40 336 P 14 01.80 1.1
0.6s 27.56nm 5.8mb
BW06 93.18 329 P 14 06.80 -2.4
0.7s 2.44nm 4.7mb
GOL 93.75 325 P 14 09.10 -2.8
MSU 97.81 328 P 14 30.80 0.3
WRA 115.62 97 PKP 19 36.00 -1.7
0.3s 1.40nm
S.D. = 1.4 on 223 of 262 obs.

% OCT 15, 1991 23h 15m 28.89±1.05s
40.375 N ±29.4km 106.110 E ±8.0km
DEPTH = 10.0km (geophysicist)
WESTERN NEI MONGOL. CHINA (323)
ML 3.7 (BJI).

BTO 2.99 84 ePn 16 17.80 0.5
ePn 16 21.60
Sg 16 54.90
HHC 4.18 82 Pn 16 34.40 0.2
Pg 16 41.20
LZH 4.64 203 Pg 16 55.00 14.2X
Sg 17 55.50
GTA 4.94 261 Pn 16 45.00 0.0
Pg 17 02.00
Sn 17 43.80

TIY 5.59 116 ePn 16 54.40 0.2
Pg 17 07.00
BJI 7.71 89 ePn 17 23.00 -0.9
S.D. = 0.7 on 5 of 6 obs.

% OCT 15, 1991 23h 56m 48.36±0.87s
16.351 N ±7.4km 61.158 W ±9.6km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)
ML 1.9 (FDF).

DEG 0.10 112 iPc 56 54.23 0.0
S 56 57.80
SFG 0.10 201 ePd 56 54.36 0.2
S 56 58.00
SEG 0.34 279 iPd 56 57.11 0.5
S 57 02.00
MGG 0.46 200 ePd 56 58.14 -0.2
S 57 04.30
DOG 0.54 234 ePd 56 59.53 -0.1
PAG 0.60 238 eP 57 00.30 -0.1
S 57 08.00
BBL 0.88 201 eP 57 04.40 0.0
BPA 0.96 316 eP 57 05.20 -0.4
S.D. = 0.3 on 8 of 8 obs.

& OCT 16, 1991 01h 36m 08.56s
57.260 N 152.551 W
DEPTH = 46.7km
KODIAK ISLAND REGION (13)
<AEIC>. ML 2.9 (AEIC).

KDC 0.49 4 iP 36 18.77 -0.7
S 36 27.00
SYI 1.36 4 iP 36 30.49 -0.9
S 36 47.79
CDD 1.77 341 iP 36 36.39 -0.9
eS 36 58.99
AUE 2.15 349 eP 36 41.90 -0.7
MCNL 2.15 335 eP 36 40.81 -1.8
AUP 2.16 348 eP 36 41.90 -0.9
eS 37 06.10
AUW 2.17 347 eP 36 42.32 -0.6
AUL 2.18 348 eP 36 42.90 -0.1
XLV 2.24 11 eP 36 43.24 -0.7
eS 37 09.56
CNPM 2.38 16 iP 36 44.89 -1.0
S 37 11.94
OPT 2.43 352 eP 36 45.31 -1.3
eS 37 13.12
HOM 2.45 11 eP 36 46.62 -0.3
S 37 15.00
BRLK 2.66 18 eP 36 48.26 -1.7
S 37 18.01
PDB 2.68 342 eP 36 47.86 -2.4
eS 37 17.30
INE 2.82 355 eP 36 50.58 -1.8
NNL 2.87 13 eP 36 51.76 -1.1
REF 3.24 359 eP 36 56.57 -1.7
RDN 3.27 358 eP 36 56.56 -2.1
SEW 3.28 28 eP 36 56.17 -2.5
NCT 3.32 357 eP 36 57.78 -1.5
RDT 3.33 1 eP 36 57.18 -2.2
SLKM 3.47 19 eP 36 59.24 -2.2
LTI 3.71 39 eP 37 02.19 -2.7
MTU 3.75 41 eP 37 02.67 -2.7
SPU 3.94 4 eP 37 05.40 -2.8
CKL 3.95 1 eP 37 06.40 -1.9
KNIM 3.98 37 eP 37 05.61 -3.1
BGL 4.02 1 eP 37 07.10 -2.2
CGLM 4.07 4 eP 37 08.03 -2.0
NCG 4.16 3 eP 37 09.11 -2.2
PMS 4.28 20 eP 37 10.53 -2.4
GLI 4.59 36 eP 37 13.97 -3.3
KNK 4.66 25 eP 37 15.17 -3.1
FID 4.70 39 eP 37 15.35 -3.4
SKT 4.76 6 eP 37 17.61 -2.0
35 obs. associated

* OCT 16, 1991 03h 04m 45.97±1.08s
43.977 N ±6.2km 16.323 E ±12.5km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)

HVAR 0.80 173 iPg 05 02.10 0.5
iSg 05 14.80

VBY 1.71 334 ePn 05 15.50 -0.4
eSn 05 36.80
eSb 05 38.90
ZAG 1.85 353 e(Pn) 05 19.00 1.0
eSn 05 40.00
PTJ 1.94 352 ePn 05 17.50 -1.9
eSn 05 39.90
ARV 2.50 260 P 05 26.50 -0.8
eSn 05 57.10
VOY 2.68 321 e(Pn) 05 31.90 1.9
eSn 06 04.20
ASS 2.81 252 P 05 32.00 0.1
eSn 06 06.20
SDI 2.92 220 P 05 32.80 -0.6
eSn 06 06.70
CRE 3.18 265 P 05 37.50 0.4
FVI 3.62 318 P 05 43.00 -0.2
S.D. = 1.2 on 10 of 10 obs.

OCT 16, 1991 03h 06m 14.90±0.30s
9.633 S ±5.7km 119.806 E ±7.1km
DEPTH = 45.8km (10 depth phases)
5.2mb (30 abs.)
SUMBA REGION, INDONESIA (287)

KUPT 3.78 98 eP 07 23.00 10.8X
eS 08 00.00
KHKI 4.33 287 ePc 07 20.50 0.5
eS 08 16.20
e 15 44.90
MKS 4.40 356 iPd 07 24.50 3.6X
iS 08 25.00
e 12 53.00
8KB2 8.81 341 iPc 08 29.60 7.1X
KNA 10.65 126 eP 08 45.50 -2.3
0.3s 56.00nm 6.2mb X
eS 10 34.00
MBL 11.46 180 eP 08 53.50 -5.4X
eS 10 50.00
SLKI 11.48 83 iPc 08 59.60 0.5
MTN 11.56 107 eP 08 57.50 -2.7
eS 10 54.00
TSM 13.97 352 ePc 09 38.20 6.1X
KKM 15.98 347 eP 10 02.00 3.7X
WR2 17.40 128 iPd 10 13.80 -2.3
0.4s 81.20nm 5.2mb
eS 13 12.60
WARB 17.69 159 eP 10 17.30 -2.4
0.4s 30.00nm 4.8mb
eS 13 17.00
ASPA 19.39 138 iPd 10 40.10 -0.1
0.5s 285.80nm 5.8mb
eS 14 06.50
MRWA 19.81 190 eP 10 43.00 -1.6
0.4s 22.00nm 4.8mb
eS 14 04.00
BAL 21.07 187 eP 10 56.00 -1.5
0.4s 30.00nm 5.0mb
eS 14 32.00
COOL 21.18 177 eP 10 57.00 -1.7
0.5s 22.00nm 4.8mb
eS 14 37.00
KLB 21.93 185 eP 11 05.00 -1.2
0.6s 40.00nm 5.0mb
eS 14 53.00
QIS 21.96 122 iPd 11 07.60 1.0
1.0s 157.00nm 5.4mb
i 11 12.40 17kmX
i 15 06.50
MUN 22.48 188 eP 11 10.50 -1.2
0.6s 37.00nm 5.0mb
e 11 20.00 35kmX
eS 15 08.00
NWA0 23.30 185 iPd 11 18.90 -0.7
0.5s 59.00nm 5.3mb
eS 15 26.00
IPM 23.44 306 ePd 11 21.80 0.7
0.6s 17.20nm 4.7mb
RKG 24.95 185 eP 11 36.00 0.4
0.5s 66.00nm 5.4mb
eS 16 03.00
SNG 25.38 310 eP 11 43.80 4.1X
CTAO 27.55 115 iPd 12 01.00 1.3
i 12 04.00 11kmX
QLP 28.60 129 eP 12 10.00 0.9
STK 29.96 141 iPd 12 23.40 2.1
0.6s 27.60nm 5.2mb

16c 03h

QIZ	30.13	341	eS	18 09.50	
RMO	32.11	125	eP	12 23.00	0.2
	0.9s	28.00nm		12 41.20	1.0
CMS	32.50	136	eP	12 44.40	0.9
BDT	33.70	322	eP	12 53.60	-0.5
BFD	34.27	147	iPc	12 58.00	-0.8
	0.5s	36.00nm			5.6mb
OZH	34.39	358	P	12 59.30	-0.5
CHG	34.96	324	ePc	13 04.20	-0.7
	0.9s	18.91nm			5.0mb
CHTO	34.96	324	P	13 04.40	-0.5
		pP		13 16.00	43km
BRS	35.74	124	iPd	13 14.00	2.5
		i		13 27.00	49km
TOO	36.19	144	iPc	13 17.60	2.4
	0.9s	51.00nm			5.5mb
COO	36.42	130	iPc	13 17.60	0.4
	0.7s	34.00nm			5.4mb
GYA	38.08	341	P	13 33.00	1.8
	1.0s	10.00nm			4.7mb
KMI	38.34	335	Pc	13 34.50	0.9
	1.0s	40.00nm			5.3mb
		pP		13 47.50	49km
WHN	40.29	353	ePd	13 51.00	1.7
	1.5s	69.00nm			5.2mb
		pP		14 03.00	44km
SSE	40.52	2	eP	13 51.80	0.6
	0.7s	10.00nm			4.7mb
	20s	0.50um			4.4Msz
NJ2	41.46	359	Pc	13 59.00	0.1
	0.6s	46.00nm			5.4mb
CD2	43.15	340	eP	14 12.30	-0.6
	0.6s	120.00nm			5.8mb
XAN	44.64	347	Pd	14 24.10	-0.8
	0.6s	16.00nm			5.0mb
		pP		14 36.10	43km
DZM	46.36	111	iPd	14 41.00	2.2
TIY	47.60	352	eP	14 47.60	-0.7
LSA	47.86	326	P	14 51.00	0.0
LZH	47.90	343	eP	14 51.00	0.2
	1.5s	34.00nm			5.1mb
	22s	0.52um			4.5Msz
HYB	48.83	303	eP	14 55.00	-3.1X
		e		15 09.50	55km
MAT	49.08	20	eP	15 00.00	0.3
BJI	49.53	356	eP	15 02.00	-1.1
	0.8s	6.00nm			4.7mb
GUN	49.71	320	P	15 04.60	-0.5
PKI	49.78	319	P	15 03.60	-2.0
DMN	50.00	319	P	15 05.60	-1.6
KKN	50.01	319	P	15 05.60	-1.7
GKN	50.57	319	P	15 09.80	-1.6
BTO	50.79	350	eP	15 12.00	-0.8
GTA	52.21	340	P	15 23.40	-0.3
	0.8s	26.00nm			5.3mb
	22s	0.30um			4.3Msz
		pP		15 35.50	43km
		sP		15 40.70	
POO	53.28	302	eP	15 34.00	2.2
MDJ	54.71	9	eP	15 41.00	-0.9
NDI	56.05	314	eP	15 47.80	-4.0X
WMO	60.67	334	P	16 22.30	-1.5
MAW	68.92	200	eP	17 18.00	1.2
YAK	71.84	5	eP	17 33.40	-1.2
NPA	78.50	257	eP	18 16.40	2.9
	1.0s	50.00nm			5.5mb
		e		18 29.00	43km
MTD	85.58	254	iPd	19 03.70	13.3X
		i		19 26.00	82kmX
SLR	87.24	245	iPc	18 57.00	-1.5
BUL	87.84	250	iPd	19 02.10	0.7
		i		19 16.10	47km
LSZ	89.05	255	iP	19 09.00	1.8
		i		19 22.00	43km
IMA	97.32	24	eP	19 37.10	-7.1X
	1.5s	14.60nm			5.3mb
PWA	98.55	29	eP	19 48.10	-1.5
KIC	125.04	271	PKP	25 15.20	2.3
ANMO	130.91	52	PKP	25 27.40	3.6X
ALO	130.91	52	ePKP	25 28.00	4.2X
	0.9s	4.20nm			
		e		25 40.00	
VAO	145.08	202	ePKP	25 51.90	2.0
PPD	147.35	195	ePKP	25 55.10	1.6

BAO	152.14	206	ePKP	26 03.10	2.0
CNCB	152.62	164	PKP	26 06.00	3.7X
		i		26 12.00	
LPB	152.85	163	PKP	26 09.00	6.5X
		i		26 13.00	
SOB1	153.18	226	ePKP	26 11.80	9.3X
	S.D. = 1.5	on 64 of 80 obs.			
FRANCE (538)					
ML 2.1 (LDG).					
BGF	0.19	198	Pg	51 04.30	0.9
		Sg		51 07.20	
AVF	0.30	80	Pg	51 05.70	0.3
		Sg		51 09.80	
SSF	0.51	51	Pg	51 09.80	0.2
		Sg		51 16.70	
MAF	0.58	206	Pg	51 10.30	-0.6
		Sg		51 17.80	
SMF	0.63	98	Pg	51 11.50	-0.5
		Sg		51 19.20	
TCF	0.67	228	Pg	51 12.40	-0.2
		Sg		51 20.60	
LBF	0.76	71	Pg	51 13.90	-0.2
		Sg		51 23.20	
LOR	0.83	50	Pg	51 15.20	0.0
		Sg		51 25.80	
LSF	1.08	244	Pg	51 19.60	0.0
		Sg		51 33.00	
	S.D. = 0.5	on 9 of 9 obs.			
SOUTHERN ITALY (390)					
SGO	0.32	274	P	41 18.10	0.4
		eSg		41 23.30	
MGR	0.42	199	P	41 19.50	0.0
		eSg		41 26.70	
MMN	0.67	163	P	41 24.40	0.1
CSI	0.87	150	P	41 26.90	-0.8
ROI	1.16	146	P	41 33.40	0.8
BRT	1.17	72	P	41 33.00	0.2
		eSg		41 49.90	
CZI	1.35	167	P	41 35.60	-0.2
DUI	1.48	320	P	41 37.50	-0.2
SDI	1.86	310	P	41 43.00	-0.2
	S.D. = 0.5	on 9 of 9 obs.			
SAN JUAN PROVINCE, ARGENTINA (137)					
RTCB	0.33	120	iPd	11 48.00	-0.1
RTLL	0.56	91	e(P)	11 49.30	-0.3
CFA	0.81	111	eP	11 52.20	0.4
		S		12 07.00	
RTRS	1.18	346	ePc	11 55.90	0.1
	S.D. = 0.5	on 4 of 4 obs.			
BANDA SEA (280)					
SLKI	3.19	99	ePc	26 10.20	-0.1
		eS		26 45.50	
AAI	3.80	1	eP	26 19.90	1.7
KUPT	5.17	239	eP	26 45.00	8.5X
		eS		27 40.00	
MTN	6.08	151	eP	26 49.00	0.4
KNA	8.22	176	iPc	27 16.60	-0.8
	0.2s	40.00nm			5.7mb
		eS		28 41.00	
WR2	13.77	155	iPc	28 27.30	-2.7
	0.6s	46.50nm			5.0mb
		eS		30 53.30	
MBL	15.76	210	eP	28 54.00	-0.9
	0.3s	13.00nm			4.8mb

ASPA	17.00	162	iPd	29 09.30	-0.9
	0.8s	51.80nm			4.9mb
QIS	17.09	141	eP	29 11.00	-0.2
	0.4s	7.00nm			4.3mb
WARB	18.63	184	iPc	29 30.00	1.4
	0.3s	17.00nm			4.9mb
		eS		32 46.00	
PMG	18.92	97	eP	29 35.00	3.3X
COOL	24.15	195	eP	30 24.00	0.6
QLP	24.39	143	eP	30 27.00	1.4
MRWA	24.43	206	eP	30 28.00	2.0
		e		30 52.00	
		eS		35 00.00	
BAL	25.34	203	eP	30 35.00	0.5
KLB	25.84	201	eP	30 39.00	0.0
STK	27.31	154	iPc	30 55.00	2.7X
	0.6s	4.30nm			4.3mb
SNG	31.06	297	eP	31 26.00	0.1
CHG	38.88	313	eP	32 33.00	0.7
WHN	40.07	341	Pd	32 43.20	1.3
KMI	40.77	323	Pc	32 49.50	1.4
	1.5s	50.00nm			4.9mb
TIY	47.31	343	Pd	33 39.00	-1.1
LZH	49.00	334	eP	33 52.20	-1.1
	1.5s	40.00nm			4.9mb
GTA	53.54	333	eP	34 27.20	-0.1
	1.2s	47.00nm			5.2mb
GUN	53.90	313	P	34 29.80	-0.6
PKI	54.05	312	P	34 30.40	-1.1
	0.8s	28.00nm			5.1mb
KKN	54.27	312	P	34 32.00	-0.9
	0.8s	34.00nm			5.2mb
DMN	54.30	312	P	34 32.20	-1.0
	0.8s	47.00nm			5.4mb
GKN	54.86	312	P	34 36.40	-0.7
HYB	54.87	297	eP	34 36.00	-1.2
MAW	73.80	201	eP	36 41.00	2.0
PPD	150.64	181	ePKP	44 56.50	6.1X
CNCB	151.06	147	iPKPc	45 00.00	8.1X
		e		48 26.00	
LPB	151.23	146	PKP	45 00.00	8.1X
	S.D. = 1.2	on 28 of 34 obs.			
OCT 16, 1991 06h 05m 55.08 ± 0.20s					
32.456 N ± 3.3km 142.312 E ± 3.8km					
DEPTH = 35.1km (9 depth phases)					
5.1mb (50 obs.)					
SOUTH OF HONSHU, JAPAN (211)					
KAKJ	4.14	335	P	06 57.60	0.1
		S		07 44.20	
CHJJ	4.52	323	P	07 03.20	0.3
		eS		07 54.00	
IIDJ	4.74	311	P	07 08.80	2.7
		S		08 03.50	
MAT	5.30	321	iPc	07 15.10	1.1
		iS		08 12.70	
NIJ	5.49	331	P	07 16.70	0.1
		eS		08 17.20	
MDJ	15.68	324	iPd	09 34.30	-0.6
	1.0s	71.00nm			4.8mb
CN2	17.41	315	Pd	09 56.00	-0.8
	1.0s	29.00nm			4.4mb
	16s	1.45um			4.2Msz
		eP		10 10.00	
SNY	17.59	307	Pd	10 00.00	0.9
	0.8s	68.00nm			4.8mb
	20s	0.73um			4.4MszX
		S		13 10.00	
SSE	18.01	271	Pd	10 04.20	-0.2
	1.0s	86.00nm			4.8mb
	20s	0.50um			4.6MszX
	12s	0.50um			
GUMD	18.93	172	eP	10 14.70	-1.0
		e		10 17.10	
PJG	18.93	172	eP	10 14.70	-1.0
		e		10 17.70	
GUA	18.98	172	e(P)	10 18.70	2.4
	0.9s	268.91nm			5.5mb
TATO	19.71	253	P	10 23.70	-0.8
	1.0s	296.00nm			5.5mb
NJ2	19.84	275	iPc	10 24.60	-1.2
	1.0s	20.00nm			4.4mb
	24s	0.50um			

TIA	21.12 287 P	10 38.30 -0.7	0.9s 23.70nm	5.2mb	MBH	87.50 304 eP	18 39.30 -1.5
	1.4s 68.00nm	4.9mb	iS	22 38.70	LOR	92.28 333 eP	19 02.60 -0.2
	S	14 21.00		15 09.00 0.0		1.0s 6.00nm	5.0mb
QZH	22.08 256 P	10 49.40 0.7	QIS	52.78 183 iPc		Z 20s 0.08um	4.1msz
BJI	22.34 297 eP	10 51.50 0.3	TOA	53.32 34 eP	15 15.70 3.0X		92.47 333 eP
	1.0s 27.00nm	4.7mb	NDI	55.40 284 iPd	15 28.50 0.2	LBF	0.8s 5.35nm
Z	23s 0.63um	4.0mszX	ASPA	1.5s 361.11nm	6.2mb X		92.57 330 eP
	eS	14 52.00		56.38 189 iPd	15 35.10 -0.2	LPL	0.6s 4.50nm
WHN	23.89 273 Pd	11 07.00 0.6	INK	0.9s 12.70nm	4.9mb		92.57 330 eP
	1.0s 230.00nm	5.7mb	DZM	58.15 26 eP	15 47.00 -0.3	LPG	0.6s 5.40nm
TIY	24.95 291 Pd	11 16.40 -0.3	RMO	58.92 154 iPc	15 54.20 0.9	SSF	92.59 333 eP
	0.8s 54.00nm	5.2mb		58.94 173 iPc	15 53.90 0.7		0.9s 5.75nm
Z	15s 1.18um	4.5mszX	HYB	0.7s 15.00nm	5.2mb	AVF	92.87 333 eP
N	16s 0.60um			58.95 272 eP	15 54.00 0.3		0.8s 8.05nm
	S	15 39.00	WARB	1.0s 50.00nm	5.6mb	GRR	93.04 336 eP
BAG	25.35 236 eP	11 19.00 -1.7	MBC	60.19 196 eP	16 02.70 0.8		1.0s 12.00nm
HHC	25.95 298 eP	11 27.00 0.9		60.71 16 eP	16 15.00 10.1X	LPF	93.41 336 eP
	1.4s 160.00nm	5.4mb	POO	1.0s 24.00nm			1.0s 12.00nm
Z	28s 0.89um	4.1mszX	BOM	62.41 275 iPd	16 16.80 -0.3	MAF	93.65 333 eP
	pP	11 33.50 23kmX	STK	63.11 276 iPd	16 20.20 -1.5		0.8s 3.35nm
BTO	27.08 297 eP	11 36.10 -0.3		63.99 181 eP	16 35.60 8.5X	TCF	93.73 334 eP
	pP	11 42.00 21kmX	MAIO	0.8s 2.50nm	4.4mb		0.8s 2.70nm
XAN	27.90 282 Pd	11 42.50 -1.4	KEV	66.41 299 eP	16 44.00 1.0	LSF	94.01 334 eP
	1.0s 220.00nm	5.8mb	SOD	67.98 340 eP	16 56.00 3.7X		0.8s 6.05nm
	pP	11 52.70 37km		69.47 338 eP	17 01.00 -0.5	PRY	123.89 257 e(PKP)
YAK	30.67 348 eP	12 15.60 7.3X	DAG	e	17 22.00 80kmX	LPB	148.25 67 PKP
	epP	12 50.00 164kmX		70.40 355 ePc	17 06.00 -1.0	CNCB	148.51 68 PKP
	e	13 34.00	PNT	e	17 17.00 36km		S.D. = 0.9 on 101 of 114 obs.
	ePS	15 13.00		70.96 43 eP	17 10.00 -0.9		
	eS	17 31.00	OBN	0.7s 6.00nm	4.8mb		
	eS	18 06.00		72.21 324 eP	17 16.00 -2.2		
	eScS	22 33.00	Z	1.7s 100.00nm	5.5mb		
GYA	31.51 268 P	12 14.80 -1.4		26s 0.30um	4.4mszX		
	1.0s 10.00nm	4.6mb	NUR	e	17 27.00 36km		
	S	17 19.00		74.34 333 iP	17 30.20 -0.3		
LZH	31.86 287 Pd	12 18.00 -1.2		0.8s 20.50nm	5.2mb		
	2.0s 88.00nm	5.3mb	SES	e	17 52.00 82kmX	SLKI	1.61 116 iPc
Z	30s 0.59um	4.1mszX	LRM	75.21 39 eP	17 35.00 -0.8		iS
N	15s 0.49um		FFC	76.92 44 ePc	17 46.40 0.6	MTN	5.68 167 eP
	pP	12 24.50 23kmX		77.16 32 eP	18 06.00 19.4X		0.3s 106.00nm
	eS	17 20.00	UPP	1.2s 30.00nm			eS
QIZ	32.02 253 P	12 20.40 -0.2	ISA	77.39 335 iP	17 47.00 -0.8	KNA	8.48 187 eP
CD2	32.73 278 eP	12 25.20 -1.5	HFS	78.48 55 eP	17 54.00 -0.3		eS
	0.5s 77.00nm	5.8mb		78.56 336 eP	17 53.80 -0.4	WR2	13.34 161 iPc
	eS	17 40.00		1.1s 23.30nm	5.1mb		0.3s 21.60nm
GTA	34.85 294 eP	12 44.60 -0.5	Z	17s 0.12um	4.3mszX		eS
	1.0s 77.00nm	5.6mb		LR	50 54.00	QIS	16.24 145 eP
Z	24s 0.38um	4.1mszX	NB2	78.69 338 P	17 54.90 -0.1		eS
	pP	15 18.00	MNG	0.9s 12.70nm	4.9mb	ASPA	16.75 167 iPc
CHG	41.12 262 ePd	13 37.50 0.0		78.91 155 eP	17 57.30 1.0		0.6s 12.80nm
	0.8s 29.85nm	5.1mb	CLC	e	18 17.50 75kmX		eS
BDT	41.82 259 iPd	13 43.50 0.3	SBB	79.00 55 eP	17 57.00 -0.2		S.D. = 1.7 on 6 of 6 obs.
	0.5s 25.40nm	5.2mb	GSC	79.44 56 eP	18 13.00 13.4X		
KHT	43.41 257 eP	13 56.80 0.6	PLM	79.82 55 eP	18 02.00 0.3		
LSA	43.57 280 P	13 59.40 1.4	BAR	80.83 56 eP	18 06.00 -1.2		
WMQ	43.71 301 P	13 59.90 1.3	GLA	81.33 57 eP	18 24.00 14.4X		
	1.2s 120.00nm	5.5mb		82.42 56 eP	18 16.00 0.7		
Z	24s 0.41um	4.3mszX	KRA	83.31 327 iPc	18 20.50 1.0		
	pP	14 10.00 34km		1.0s 43.00nm	5.5mb		
	sP	14 14.00	MLR	e	18 28.50 25km	FRO	0.20 223 iP
	pP	15 45.80	SPC	83.37 321 eP	18 20.00 -0.1		iS
	pP	19 40.00	KSP	83.77 326 iP	18 23.10 1.0	FOO	0.31 191 eP
	S	20 26.00		84.39 329 iPd	18 25.30 0.4		eS
	sS	20 44.00		0.8s 20.00nm	5.3mb	SUE	0.87 193 eP
	SS	23 31.50	PSZ	e	18 36.00 34km		iS
	SS	23 54.00	HRI	84.82 325 eP	18 28.00 0.8	HYA	0.89 146 iPc
SHL	44.30 275 eP	14 03.00 -0.7	BRG	84.86 306 eP	18 27.00 -0.2		iS
SNG	46.16 246 eP	14 19.00 0.7		85.37 330 iP	18 30.00 0.2	MOL	1.30 58 eP
MTN	46.30 195 eP	14 20.00 0.7	CLL	1.1s 14.00nm	5.1mb		eS
IPM	47.50 243 ePd	14 29.50 0.6		85.44 331 iP	18 30.80 0.7		S.D. = 0.5 on 5 of 5 obs.
	0.9s 69.90nm	5.7mb		1.1s 26.00nm	5.4mb		
KHKI	47.92 217 ePd	14 32.10 0.0	SRO	i	18 58.90 107kmX		
	e	16 21.30 606kmX		85.65 326 iP	18 30.40 -0.9		
GUN	48.52 280 P	14 38.20 1.0	PRU	i	18 53.40 85kmX		
SVW	48.76 35 eP	14 51.20 13.0X		85.78 329 P	18 32.40 0.5		
PKI	49.03 280 Pd	14 41.40 0.4	ZST	e	18 43.00 33km		
KKN	49.06 280 Pd	14 41.80 0.6		e(P)	18 31.60 -1.1		
DMN	49.27 280 Pd	14 43.40 0.6		e	18 44.50 43km		
GKN	49.52 281 Pd	14 45.40 0.8	DSI	e	30 32.20		
BRW	50.36 21 eP	14 43.80 -6.4X	MOX	86.10 305 eP	18 32.50 -1.3	MVM	2.24 337 iPc
PMR	51.91 34 eP	15 06.20 4.1X		86.51 331 eP	18 36.00 0.5	BIM	2.28 332 iPc
FBA	52.63 30 eP	15 07.30 -0.2	KHC	1.6s 24.00nm	5.2mb		S
	1.0s 8.60nm	4.7mb		86.83 329 P	18 37.50 0.3	CRM	2.43 338 iPc
WRA	52.66 189 P	15 07.00 -1.2		e	18 49.00 37km		S
	0.5s 19.70nm	5.3mb	ALO	86.96 50 eP	18 38.30 0.0	FDF	2.50 333 iPc
WR2	52.66 189 iPd	15 07.80 -0.4		1.1s 6.01nm	4.7mb		S
				e	18 52.00 46kmX	BBL	3.35 334 ePc
							S
						MGG	3.65 339 eP

16d 08h

DOG	3.86	336	eP	13	20.00	
PAG	3.89	335	eP	12	43.60	1.0
			S	13	26.90	
SFG	3.92	343	eP	12	42.81	-0.6
DEG	3.94	345	eP	12	43.10	-0.7
SEG	4.16	339	eP	12	47.20	0.4
MGH	4.73	333	eP	12	55.70	0.8
BPA	4.88	338	eP	12	56.40	-0.6
LPR	8.11	316	P	13	42.00	-0.4
CLLP	8.45	312	P	13	47.90	0.8
PORP	8.48	312	P	13	47.00	-0.5
MGP	8.78	310	P	13	51.30	-0.4
APR	8.80	313	P	13	52.20	0.2
MCP	9.05	312	P	13	55.00	-0.5
LPB	29.93	196	eP	18	04.00	12.1X
CNCB	30.17	195	P	17	57.00	2.8
ALO	47.54	306	eP	20	16.00	-2.6
	1.0s	2.50nm			4.2mb	
ANMO	47.54	306	P	20	16.50	-2.1
MBC	70.87	347	eP	22	57.00	-2.2
INK	72.40	338	eP	23	08.00	-0.5

S.D. = 1.3 on 24 of 25 obs.

% OCT 16, 1991 08h 12m 07.73±0.78s
39.719 N ± 5.4km 22.269 E ± 8.2km
DEPTH = 10.0km (geophysicist)

GREECE (364)

LIT	0.42	24	iPgc	12	16.41	0.1
			eSg	12	22.81	
AGG	0.70	176	ePgc	12	21.52	0.0
			eSg	12	32.31	
PAIG	1.11	79	ePgc	12	28.28	-0.2
			eSg	12	42.78	
GRG	1.24	5	iPbc	12	30.25	-0.5
			eSb	12	47.11	
FNA	1.26	328	iPbd	12	31.48	0.2
			eSb	12	48.89	
SOH	1.38	37	ePbc	12	33.60	0.6
			eSb	12	50.52	
KNT	1.52	18	ePbd	12	34.52	-0.4
SRS	1.72	35	ePbd	12	38.21	0.3

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

& OCT 16, 1991 08h 44m 38.51s
60.708 N 151.658 W
DEPTH = 72.4km

KENAI PENINSULA, ALASKA (14)

<AEIC>.

NKA	0.21	80	iPc	44	50.93	1.4
RDT	0.39	250	iPd	44	50.02	-0.9
			eS	44	59.79	
SPU	0.51	338	iPd	44	51.23	-0.7
			eS	45	01.62	
DFR	0.52	258	ePc	44	51.31	-0.7
			S	45	01.58	
REF	0.56	247	iPd	44	51.91	-0.6
			eS	45	02.43	
RDN	0.58	251	iPc	44	51.85	-0.8
			eS	45	02.12	
CKL	0.59	326	iPd	44	52.10	-0.7
			eS	45	02.92	
RSO	0.59	246	ePc	44	52.29	-0.6
			eS	45	03.24	
RS2	0.60	246	ePc	44	52.28	-0.6
			S	45	03.14	
RS1	0.60	246	ePc	44	52.37	-0.5
CRP	0.61	337	ePd	44	52.62	-0.4
			S	45	03.06	
RDW	0.61	249	iPc	44	52.35	-0.7
			S	45	02.93	
RED	0.62	243	ePc	44	52.32	-0.7
			eS	45	03.53	
CGLM	0.63	344	eP	44	52.42	-0.7
			S	45	04.07	
NCT	0.64	257	iPc	44	52.42	-0.9
			eS	45	03.86	
NNL	0.69	165	iPd	44	53.96	0.3
SLKM	0.74	105	iPc	44	53.55	-0.7
			eS	45	05.60	
NCG	0.74	341	iPd	44	53.78	-0.6
			S	45	06.33	
SUA	0.88	30	iPc	44	55.65	-0.4
			eS	45	08.85	
INW	0.97	229	ePc	44	55.90	-1.3

HOM	1.05	180	eS	45	10.36	
			eP	44	57.67	-0.4
			S	45	13.47	
PMS	1.16	61	iPc	44	59.07	-0.4
			eS	45	14.23	
CNPM	1.20	170	iPd	44	59.10	-1.0
			S	45	15.42	
SEW	1.25	118	eP	44	59.42	-1.2
XLV	1.26	181	ePd	44	59.50	-1.2
SKT	1.28	3	iPd	45	00.25	-0.8
			eS	45	17.61	
PWA	1.28	42	ePc	45	01.10	0.1
			S	45	18.43	
OPT	1.32	217	ePd	45	00.85	-0.7
			eS	45	17.33	
PLRM	1.51	53	ePc	45	02.85	-1.2
PDB	1.57	235	ePc	45	03.11	-1.7
			iS	45	22.60	
AUW	1.62	215	eP	45	04.99	-0.6
GHO	1.70	50	ePc	45	05.27	-1.5
			eS	45	26.92	
KNK	1.71	64	iPc	45	05.60	-1.2
			eS	45	26.72	
CUT	1.83	21	iPc	45	07.86	-0.5
SML	1.95	54	ePc	45	08.81	-1.3
KNIM	1.97	99	ePc	45	07.59	-2.8
			eS	45	31.21	
LTI	2.00	108	eP	45	08.16	-2.7
MCNL	2.04	223	eP	45	09.84	-1.5
CDD	2.05	210	eP	45	10.27	-1.2
MTU	2.12	108	eP	45	10.08	-2.3
			S	45	35.48	
SYI	2.14	190	eP	45	11.45	-1.2
GLI	2.24	84	eP	45	11.02	-3.1
SCM	2.38	60	eP	45	14.20	-1.9
VZW	2.52	80	eP	45	15.76	-2.3
FID	2.54	87	ePc	45	14.76	-3.6
VLZ	2.64	78	ePc	45	17.05	-2.5
TRF	2.83	13	eP	45	21.84	-0.6
KTH	2.88	7	eP	45	22.24	-0.8
KLU	2.90	72	iPc	45	20.87	-2.4
CVA	2.92	91	eP	45	23.21	-0.3
TOA	2.99	60	ePc	45	23.41	-1.1
RND	3.01	25	eP	45	23.48	-1.4
SDG	3.44	55	eP	45	29.65	-1.2
HMT	3.68	93	eP	45	31.80	-2.3
GLB	3.88	76	ePc	45	34.18	-2.9

55 obs. associated

OCT 16, 1991 09h 12m 35.00±0.52s
44.271 N ± 3.5km 6.897 E ± 4.8km
DEPTH = 10.0km (geophysicist)

FRANCE (538)

ML 2.4 (GEN), 2.4 (LDG).

PZZ	0.28	32	P	12	41.31	0.4
			S	12	45.82	
STV	0.31	95	P	12	41.31	-0.1
			S	12	45.93	
ENR	0.38	97	P	12	42.94	0.1
			S	12	48.30	
SBF	0.56	136	Pg	12	46.00	-0.5
			Sg	12	54.00	
BHB	0.63	24	P	12	47.46	-0.2
			S	12	56.70	
RRL	0.65	353	P	12	47.98	-0.2
			S	12	57.51	
ROB	0.70	88	P	12	49.00	0.1
			S	12	59.33	
FRF	0.73	194	Pg	12	48.80	-0.6
IMI	0.80	116	P	12	50.34	-0.3
			S	13	01.54	
LRG	0.90	206	Pg	12	53.20	0.9
			Sg	13	06.40	
FIN	0.94	93	P	12	53.31	0.3
			S	13	06.26	
LMR	0.98	197	Pg	12	54.40	0.8
			Sg	13	07.20	
LSD	1.20	9	P	12	58.85	1.3
PCP	1.21	77	P	12	58.44	0.8
LPG	1.23	355	Pg	12	56.40	-1.7
PGF	2.30	138	ePn	13	12.40	-1.3
			Sn	13	40.00	

S.D. = 0.9 on 16 of 16 obs.

% OCT 16, 1991 09h 51m 33.53±0.57s
41.141 N ± 7.6km 28.479 E ± 4.2km

DEPTH = 10.0km (geophysicist)
TURKEY (366)

CTT	0.04	279	iPg	51	35.30	-0.3
ISK	0.44	100	iPg	51	42.30	-0.3
DMK	0.87	322	iPg	51	50.50	0.2
			iSg	52	03.50	
YLV	0.89	130	ePg	51	50.80	0.2
			eSg	52	03.00	
HRT	0.95	109	iPg	51	51.80	0.1
MFT	0.97	249	ePn	51	51.80	-0.3
IZI	1.10	136	iPn	51	54.30	0.0
KGT	1.13	233	iPn	51	54.80	0.2

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

% OCT 16, 1991 09h 55m 48.43±0.96s
40.087 N ± 7.1km 23.652 E ± 8.5km

DEPTH = 10.0km (geophysicist)
GREECE (364)

PAIG	0.16	172	iPg	55	52.28	0.1
			iSg	55	55.10	
OUR	0.35	46	ePg	55	56.12	0.4
THE	0.76	316	iPg	56	04.60	1.4
SOH	0.77	343	ePg	56	02.20	-1.2
LIT	0.89	271	ePg	56	04.66	-0.9
			eSg	56	17.57	
SRS	1.03	357	ePg	56	06.56	-1.3
			eSg	56	21.72	
KNT	1.22	332	ePbd	56	12.64	1.6
GRG	1.29	313	ePbc	56	12.32	0.0
			eSb	56	30.07	

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

* OCT 16, 1991 10h 05m 59.32±0.60s
24.606 S ± 7.0km 69.022 W ± 11.0km
DEPTH = 99.5km (2 depth phases)
4.6mb (2 obs.)

NORTHERN CHILE (123)

ANT	1.56	305	iPc	06	27.00	0.4
			iS	06	44.50	
ZON	6.92	178	eP	07	40.00	0.1
CFA	7.01	175	ePc	07	43.80	2.7
CNCB	7.82	7	iPc	07	51.50	-1.2
			i	08	24.00	
LPB	8.08	6	P	07	54.80	-1.3
			i	08	12.00	
JACH	8.16	189	eP	08	00.50	3.6X
ARE	8.43	344	eP	07	55.00	-5.7X
			eS	09	24.00	
ROCH	8.52	191	eP	08	15.00	13.2X
PEL	8.63	189	eP	08	06.50	3.3X
SAN	8.93	189	eP	08	14.20	6.9X
PCH	9.08	188	eP	08	09.80	0.5
LCCH	9.11	194	eP	08	07.00	-2.7
TACH	9.17	190	eP	08	09.20	-1.3
LNW	9.55	192	eP	08	13.00	-2.5
PPD	16.47	85	eP	09	45.80	0.0
			i	09	49.30	
VAO	20.24	90	eP	10	28.20	-0.7
			i	10	29.50	5kmX
			i	10	32.30	
BMA	22.85	90	eP	10	55.20	0.4
PDCR	30.71	72	(P)	12	05.00	-2.0
SOB1	30.87	65	eP	12	08.00	-0.4
			e	12	09.90	7kmX
NVL	63.99	159	ePc	16	26.00	2.2
TUL	65.29	336	eP	16	56.50	23.9X
	0.8s	9.10nm				
ALO	69.04	328	eP	16	57.20	0.7
	0.9s	3.57nm				4.2mb
			e	17	23.00	101km
ANMO	69.04	328	P	16	57.50	1.0
			pP	17	22.50	98km
LIC	69.38	73	P	16	59.70	1.0
KIC	69.69	73	P	17	01.70	1.1
CSY	89.39	180	iPd	18	51.80	6.2X
	0.7s	9.10nm				5.0mb
WR2	130.21	209	iPKPc	25	02.00	2.0
	0.4s	3.50nm				

S.D. = 1.6 on 20 of 27 obs.

NEW GUINEA, PAPUA NEW GUINEA (202)					DZM 8.01 186 iPc 36 48.90 0.0					CAF 146.76 341 ePKP 54 14.60 3.1X				
MNDI	1.42	182	iP	54 22.50 0.9	BRS	18.95	223	iPc	39 03.00 0.8	LFF	147.16	342	ePKP	54 15.50 3.5X
			eS	54 46.00	CTAO	20.96	250	iPc	39 23.00 0.5		1.2s	22.30nm		
MDG	2.13	104	iPc	54 30.20 0.1		0.9s	21.63nm		4.7mb	LPO	147.26	342	ePKP	54 15.80 3.6X
LAT	3.79	120	eP	54 53.00 0.6			e(PP)	40 09.00			0.8s	18.80nm		
PMG	5.77	144	eP	55 17.50 -1.9	RMQ	21.29	232	iPc	39 26.80 1.1	LSPF	148.57	339	PKP	54 19.20 4.8X
MTN	14.81	236	eP	57 19.00 -0.6		0.8s	62.00nm		5.2mb	LESF	148.71	340	PKP	54 19.53 4.9X
QIS	16.23	194	eP	57 38.00 0.5			eTT	59 53.00		GRBF	148.79	340	PKP	54 19.27 4.5X
			eS	00 34.00	WR2	31.98	255	iPd	41 01.20 -2.0	EPF	149.01	341	ePKP	54 20.80 5.7X
WR2	17.65	210	iPc	57 54.80 -0.2		0.9s	8.00nm		4.4mb		0.8s	5.35nm		
	0.9s	15.00nm		4.3mb	ASPA	32.93	248	iPc	41 09.30 -2.1	S.D. = 1.1 on 49 of 59 obs.				
		i	57 59.40			1.2s	21.20nm		4.6mb					
KNA	18.32	232	eP	58 01.40 -1.4	MAT	57.31	332	eP	44 22.00 -0.9	% OCT 16, 1991 11h 46m 19.09± 3.14s				
ASPA	21.07	206	iPd	58 32.10 0.7		0.7s	7.53nm		4.5mb	44.381 N ±11.7km 7.043 E ±27.1km				
	0.9s	9.00nm		4.1mb	CHTO	74.81	294	P	46 14.50 0.4	DEPTH = 10.0km (geophysicist)				
		eS	02 27.70			1.0s	5.25nm		4.2mb	NORTHERN ITALY (545)				
WARB	26.87	216	eP	59 28.00 1.4	LZH	77.87	312	eP	46 33.00 2.0	ML 2.1 (GEN).				
SSE	41.61	330	Pd	01 33.00 0.0		2.0s	39.00nm		4.8mb	PZZ	0.13	19	P	46 22.39 0.0
	1.0s	37.00nm		5.1mb	FBA	85.71	18	P	47 10.50 -0.2			S	46 24.85	
LZH	55.14	321	eP	03 17.80 0.1	GUN	89.08	299	P	47 28.40 0.3	STV	0.24	124	P	46 24.44 0.1
	1.5s	28.00nm		5.0mb	PKI	89.38	298	P	47 29.80 0.3			S	46 27.52	
GUN	64.44	304	P	04 21.80 0.1	KKN	89.55	299	P	47 30.60 0.5	ENR	0.31	119	P	46 25.98 0.4
PKI	64.71	303	P	04 23.40 0.0	DMN	89.65	298	P	47 31.20 0.5			S	46 30.80	
KKN	64.89	304	P	04 24.20 -0.2	GKN	90.16	299	P	47 33.20 0.3	BHB	0.49	19	P	46 29.05 0.1
DMN	64.97	303	P	04 25.00 0.0	VAI	143.47	335	PKP	54 03.60 -2.2			S	46 35.92	
GKN	65.50	304	P	04 28.20 0.0	SFI	143.57	330	PKP	54 05.20 -0.9	ROB	0.60	98	P	46 31.41 0.1
KIC	148.56	274	PKP	13 31.40 4.6X	MME	143.92	331	PKP	54 06.60 -0.4			S	46 40.13	
TIC	148.83	275	PKP	13 32.30 5.1X	FLN	143.95	346	ePKP	54 04.70 -1.9	IMI	0.77	127	P	46 33.98 -0.2
LIC	148.85	274	PKP	13 32.40 5.2X		1.0s	16.00nm			FIN	0.85	101	P	46 35.10 -0.5
S.D. = 0.9 on 17 of 20 obs.					Z	20s	0.10um		4.6msz	S.D. = 0.3 on 7 of 7 obs.				
& OCT 16, 1991 11h 22m 30.34s					LDF	144.02	346	ePKP	54 05.20 -1.5	? OCT 16, 1991 11h 49m 55.86± 3.79s				
57.025 N 154.400 W					LOR	144.11	341	iPKPc	54 06.10 -0.9	4.388 S ±31.0km 134.606 E ±29.2km				
DEPTH = 69.1km						1.0s	11.00nm			DEPTH = 33.0km (normal)				
KODIAK ISLAND REGION (13)					Z	20s	0.00um		4.5msz	4.3mb (2 obs.)				
<AEIC>. ML 3.2 (AEIC).					LBF	144.32	340	iPKPc	54 06.80 -0.6	IRIAN JAYA REGION, INDONESIA (196)				
KDC	1.26	54	eP	22 51.45 -1.0		1.0s	14.00nm			AAI	6.43	276	eP	51 30.80 0.0
			eS	23 07.70	GRR	144.39	346	iPKPc	54 06.60 -0.7	MTN	9.08	202	eP	52 09.00 1.3
SYI	1.92	33	eP	22 59.99 -1.4		0.8s	20.15nm				0.3s	215.00nm		6.0mb X
CDD	1.95	12	eP	23 00.58 -1.3	SSF	144.41	341	iPKPc	54 07.40 0.0			e	53 48.00	
			eS	23 24.79		1.0s	45.00nm			KNA	12.67	207	eP	52 55.90 -0.6
MCNL	2.17	1	eP	23 02.84 -2.0	LSO	144.47	336	PKP	54 07.82 -0.1		0.4s	59.00nm		6.0mb X
AUP	2.40	12	eP	23 07.71 -0.5	LPL	144.58	336	iPKPc	54 08.30 0.2	WR2	15.47	181	iPd	53 31.90 -1.5
AUW	2.40	11	eP	23 07.44 -0.7		0.8s	19.50nm				0.5s	3.40nm		3.8mb
OPT	2.71	13	eP	23 10.75 -1.7	LPG	144.59	336	iPKPc	54 08.50 0.3			i	53 41.60	
PDB	2.77	2	eP	23 11.96 -1.3	PCP	144.63	333	PKP	54 07.00 -1.0	QIS	16.79	164	eP	53 51.00 0.8
			eS	23 41.67	SMF	144.66	340	iPKPc	54 07.80 -0.1			eS	56 17.10	
XLV	2.82	29	eP	23 12.98 -1.0		1.0s	30.00nm			ASPA	19.18	182	iPc	54 22.90 3.2X
CNPM	3.01	32	eP	23 15.03 -1.7	AVF	144.69	341	iPKPc	54 08.00 0.1		0.5s	32.30nm		4.8mb
HOM	3.01	28	eP	23 15.60 -1.1		1.0s	25.00nm			WARB	22.98	199	eP	55 03.00 4.3X
INW	3.12	12	eP	23 16.27 -2.1	LPF	144.76	346	iPKPc	54 08.00 0.0	S.D. = 1.6 on 5 of 7 obs.				
INE	3.12	12	eP	23 16.97 -1.4		0.6s	21.65nm			OCT 16, 1991 11h 53m 54.18± 0.29s				
NNL	3.44	27	eP	23 21.11 -1.5	BHB	144.93	335	PKP	54 07.00 -1.4	10.427 S ± 4.3km 123.699 E ± 6.5km				
RED	3.51	13	eP	23 21.98 -1.7	BNI	144.99	336	PKP	54 09.70 1.0	DEPTH = 33.0km (normal)				
RS1	3.55	13	eP	23 22.94 -1.4	SOI	145.04	318	PKP	54 09.60 0.9	5.1mb (20 obs.)				
RS2	3.55	13	eP	23 23.06 -1.4	FIN	145.04	333	PKP	54 08.23 -0.4	TIMOR REGION, INDONESIA (289)				
RSO	3.55	13	eP	23 22.95 -1.5	RRL	145.06	336	PKP	54 09.57 0.6	KUPT	0.29	341	eP	54 08.50 6.7X
RDW	3.57	13	eP	23 22.55 -2.0	BGF	145.06	341	iPKPc	54 09.20 0.6			eS	55 17.00	
REF	3.59	14	eP	23 23.25 -1.6		0.9s	27.85nm			MKS	6.66	321	ePd	55 36.50 4.2X
RDN	3.60	13	eP	23 23.25 -1.8	ROB	145.12	334	PKP	54 08.44 -0.4			e	58 16.00	
NCT	3.63	12	eP	23 23.32 -2.1	PZZ	145.27	335	PKP	54 08.03 -1.1	KNA	7.24	138	eP	55 39.40 -1.0
SEW	4.03	38	eP	23 27.56 -3.3	ENR	145.36	334	PKP	54 08.23 -1.0			eS	56 56.00	
SLKM	4.11	30	eP	23 29.14 -3.0	STV	145.39	334	PKP	54 08.13 -1.2	MTN	7.67	109	eP	55 48.00 1.6
CKL	4.32	13	eP	23 32.32 -2.8	IMI	145.41	333	PKP	54 09.67 0.3			eS	57 09.00	
SPU	4.34	15	eP	23 32.57 -2.8	MAF	145.45	341	iPKPc	54 10.60 1.3	AAI	8.05	34	eP	55 53.00 1.3
BGL	4.38	13	eP	23 33.68 -2.2		0.8s	12.10nm			KHKI	8.24	284	ePc	55 54.10 -0.3
LTI	4.57	46	eP	23 35.54 -3.0	TCF	145.50	342	iPKPc	54 10.60 1.2			e	57 28.20	
KNIM	4.82	43	eP	23 38.71 -3.3		1.2s	23.80nm			MBL	11.30	199	eP	56 34.70 -1.8
SUA	4.83	21	eP	23 39.48 -2.8	SBF	145.65	334	iPKPc	54 10.70 1.0		0.3s	17.00nm		5.7mb
PMS	4.91	28	eP	23 40.20 -3.1		0.8s	34.90nm			WR2	13.98	134	iPc	57 09.40 -2.8
GLI	5.41	41	eP	23 46.28 -3.9	LSF	145.74	342	iPKPc	54 11.00 1.3		0.5s	29.60nm		5.3mb
FID	5.55	44	eP	23 48.02 -4.2		0.8s	9.40nm			TSM	15.73	338	ePd	57 42.00 6.9X
CVA	5.72	48	eP	23 50.87 -3.7	MFF	145.88	344	iPKPc	54 11.80 1.9	WARB	15.92	170	eP	57 36.00 -1.5
VZW	5.72	42	eP	23 50.59 -4.1		0.8s	17.45nm				0.4s	12.00nm		4.4mb
VLZ	5.85	42	eP	23 53.04 -3.3	PGF	145.98	331	iPKPc	54 12.10 1.7			eS	00 23.00	
RAGM	6.09	52	eP	23 56.65 -3.1	FRF	146.23	334	iPKPc	54 12.60 2.0	ASPA	16.37	145	iPc	57 41.30 -2.0
KLU	6.24	41	eP	23 58.25 -3.7		0.8s	32.25nm				0.9s	32.80nm		4.5mb
38 obs. associated					LRG	146.44	334	iPKPc	54 13.50 2.6X			i	57 49.90	
? OCT 16, 1991 11h 34m 54.37± 3.14s						1.0s	28.00nm					iS	00 37.10	
14.056 S ±19.9km 167.277 E ±13.7km					LMR	146.47	334	iPKPc	54 13.40 2.4X					
DEPTH = 206.5 ± 28.5 km						1.0s	34.00nm							
4.6mb (7 obs.)					RJF	146.60	342	ePKP	54 14.00 2.9X					
VANUATU ISLANDS (186)						1.2s	35.70nm							
					Z	20s	0.05um		4.3msz					

16d 11h

DAV 17.50 6 eP 57 54.90 -2.5
KKM 17.98 335 ePc 58 04.80 1.3
0.7s 51.80nm 4.8mb
QIS 18.32 125 e(P) 58 08.00 0.4
e 01 20.00
MRWA 20.04 200 eP 58 28.00 0.7
0.4s 9.00nm 4.5mb
eS 01 59.00
COOL 20.49 186 eP 58 32.00 -0.1
BAL 21.11 197 eP 58 39.00 0.6
KLB 21.77 194 eP 58 46.00 1.0
MUN 22.54 197 eP 58 54.00 1.3
PMG 23.13 90 eP 59 10.00 11.5X
NWAQ 23.17 194 eP 59 00.00 1.2
QLP 25.18 132 e(P) 59 23.00 4.6X
e 03 48.00
BAG 26.84 353 e(P) 59 28.00 -6.0X
STK 27.01 145 iPc 59 40.50 5.3X
0.5s 5.50nm 4.4mb
ADE 28.00 153 e(P) 59 46.00 1.8
BFD 31.59 150 eP 00 17.00 0.9
e 01 26.00
BRS 32.14 126 iPd 00 23.00 1.9
i(S) 06 02.00
QIZ 32.30 335 eP 00 22.00 -0.5
TOO 33.39 148 eP 00 36.00 4.2X
KHT 35.31 315 eP 00 49.00 0.5
BDT 36.77 318 eP 01 01.30 0.6
0.8s 40.00nm 5.3mb
CHG 37.95 320 ePc 01 11.00 0.3
1.0s 30.75nm 5.1mb
GYA 40.23 336 iPd 01 30.60 0.9
1.2s 46.00nm 5.1mb
PcP 03 37.40
KMI 40.82 330 Pc 01 36.00 1.3
1.8s 90.00nm 5.2mb
SSE 41.35 357 eP 01 40.50 1.8
1.2s 17.00nm 4.7mb
Z 20s 0.50um 4.4msz
WHN 41.71 348 eP 01 43.00 1.3
XAN 46.40 343 P 02 18.50 -1.0
0.8s 16.00nm 5.0mb
SHL 47.33 320 eP 02 26.00 -1.1
MAT 48.67 16 eP 02 36.00 -1.2
1.4s 39.53nm 5.3mb
TIY 49.04 348 eP 02 40.00 -0.1
LZH 49.91 339 iPc 02 47.50 0.5
1.5s 85.00nm 5.6mb
Z 15s 0.24um 4.3mszX
BJI 50.69 353 eP 02 52.00 -0.6
1.2s 12.00nm 4.8mb
LSA 50.74 323 P 02 53.80 0.1
SNY 51.99 360 Pc 03 01.60 -0.8
1.2s 18.00nm 4.9mb
HHC 52.24 348 eP 03 04.00 -0.5
HYB 52.49 301 eP 03 05.20 -1.5
GUN 52.85 317 P 03 09.20 -0.3
PKI 52.94 316 P 03 09.20 -1.0
KKN 53.17 317 P 03 10.80 -1.0
DMN 53.17 316 P 03 11.00 -0.8
GKN 53.74 316 P 03 15.20 -0.7
CN2 53.99 2 eP 03 22.00 4.8X
GTA 54.33 337 iPc 03 20.00 0.0
1.2s 51.00nm 5.4mb
MDJ 55.04 5 eP 03 24.50 -0.4
1.1s 64.00nm 5.6mb
WMO 63.13 332 Pc 04 21.40 0.3
0.7s 32.00nm 5.6mb
QUE 67.85 309 eP 04 53.00 1.1
YAK 72.37 3 iPc 05 18.10 -0.3
MAIO 76.12 311 iPd 05 42.20 1.3
MJMA 84.26 297 ePc 06 28.00 3.6X
AFIF 85.70 295 ePc 06 36.50 4.9X
DASM 85.85 297 eP 06 36.00 3.7X
TAB 86.60 310 eP 06 40.00 4.1X
UQSK 86.80 297 ePc 06 41.00 3.9X
OBN 96.81 325 eP 07 32.00 9.3X
1.5s *****nm 8.9mb X
ALO 128.34 54 ePKP 13 03.30 3.5X
ANMO 128.34 54 PKP 13 03.80 4.0X
CNCB 150.58 157 PKP 13 50.70 10.5X
LPB 150.78 156 PKP 13 55.00 14.6X
PDCR 151.52 217 ePKP 13 50.20 9.2X
S.D. = 1.2 on 49 of 69 obs.

DEPTH = 10.0km (geophysicist)
GREECE (364)
LIT 0.41 21 iPgc 59 50.01 -0.3
eSg 59 57.96
AGG 0.69 178 iPgc 59 55.33 -0.2
eSg 00 05.83
PAIG 1.09 78 ePgD 00 02.68 0.4
eSg 00 17.80
GRG 1.24 4 ePbc 00 04.04 -0.9
eSb 00 21.53
FNA 1.28 327 iPbd 00 05.96 0.4
SOH 1.37 36 ePbd 00 06.48 -0.6
iSb 00 26.33
KNT 1.52 18 ePbd 00 10.28 1.2
OHR 1.80 321 e(Pn) 00 20.00 6.8X
S.D. = 0.9 on 7 of 8 obs.
% OCT 16, 1991 13h 01m 30.58±0.92s
39.721 N ± 6.1km 22.175 E ± 9.3km
DEPTH = 10.0km (geophysicist)
GREECE (364)
LIT 0.45 32 iPgc 01 39.37 -0.4
eSg 01 47.20
AGG 0.71 170 ePgc 01 44.56 0.0
eSg 01 55.21
PAIG 1.18 79 ePbc 01 52.20 -0.3
FNA 1.23 330 ePbd 01 53.11 -0.3
GRG 1.25 8 ePbc 01 53.36 -0.4
eSb 02 10.76
SOH 1.42 39 ePbd 01 56.72 0.2
KNT 1.54 21 iPbc 01 59.30 1.2
S.D. = 0.7 on 7 of 7 obs.
* OCT 16, 1991 13h 06m 45.92±1.12s
4.624 S ± 10.5km 134.344 E ± 14.5km
DEPTH = 33.0km (normol)
4.6mb (4 obs.) 4.2msz (1 obs.)
IRIAN JAYA REGION, INDONESIA (196)
SLKI 4.50 222 ePc 07 55.20 1.6
AAI 6.20 278 eP 08 17.00 -0.7
eS 09 27.50
MTN 8.76 201 eP 08 54.00 0.6
0.3s 228.00nm 6.8mb X
eS 10 33.00
KNA 12.34 206 eP 09 41.40 -0.8
WR2 15.23 180 iPc 10 17.50 -2.9
0.3s 2.40nm 3.9mb
i 10 27.20
eS 12 59.60
DIS 16.64 163 eP 10 38.00 -0.4
e 10 44.00
eS 13 33.00
ASPA 18.94 181 iPd 11 08.60 1.7
0.4s 28.50nm 4.8mb
Z 19s 1.30um 4.2msz
eS 14 42.40
CTAO 19.25 144 iPd 11 11.50 0.8
1.4s 29.47nm 4.3mb
i 11 16.00
eS 16 45.00
KKM 20.98 300 ePc 11 29.00 0.0
MBL 21.65 219 eP 11 38.00 2.3X
WARB 22.67 198 eP 11 49.00 3.2X
DLP 23.80 158 eP 11 59.00 2.3X
e 18 28.00
BAG 24.94 327 eP 12 12.00 3.9X
RMO 25.74 149 eP 12 32.20 16.9X
CHG 41.93 305 eP 14 35.00 -0.5
LZH 49.55 327 eP 15 36.50 0.5
2.0s 25.00nm 4.9mb
Z 20s 0.25um 4.2msz
YAK 66.55 358 eP 17 30.20 -4.3X
CNCB 149.33 134 PKP 26 36.00 5.8X
LPB 149.43 134 PKP 26 34.00 3.8X
S.D. = 1.4 on 11 of 19 obs.
% OCT 16, 1991 13h 10m 37.53±0.80s
39.711 N ± 5.5km 22.257 E ± 8.4km
DEPTH = 10.0km (geophysicist)
GREECE (364)
LIT 0.43 25 iPgD 10 45.78 -0.5
iSg 10 53.46
AGG 0.69 175 ePgD 10 50.94 -0.3

eSg 11 01.42
PAIG 1.12 78 ePgc 10 58.78 0.3
GRG 1.25 5 ePbc 11 00.05 -0.7
eSb 11 16.90
FNA 1.27 328 ePbc 11 01.58 0.5
SOH 1.39 37 ePbc 11 03.18 0.2
eSb 11 21.18
KNT 1.53 18 ePbd 11 05.14 0.2
SRS 1.74 36 ePbd 11 08.12 0.2
S.D. = 0.5 on 8 of 8 obs.
* OCT 16, 1991 13h 14m 53.23s
63.443 N 144.366 W
DEPTH = 7.7km
CENTRAL ALASKA (1)
<AEIC>. ML 3.3 (PMR).
PAX 0.69 227 eP 15 06.10 -1.0
KLU 2.09 201 eP 15 28.00 -1.0
eS 15 54.00
FBA 2.10 316 eP 15 28.20 -0.9
MDM 2.27 314 eP 15 40.60 8.9
BALM 2.59 158 eP 15 36.80 0.5
eS 16 10.00
GLI 2.87 208 eP 15 39.20 -1.0
eS 16 16.00
PMR 2.89 232 eP 15 42.00 1.7
RDT 4.76 236 eP 16 08.00 1.0
IMA 4.78 308 eP 16 08.00 0.6
INK 6.60 38 P 16 29.00 -3.8
10 obs. associated
? OCT 16, 1991 13h 36m 32.55±8.92s
16.184 N ± 18.6km 60.971 W ± 68.7km
DEPTH = 10.0km (geophysicist)
LEEWARD ISLANDS (92)
ML 1.4 (FDF).
DEG 0.15 326 eP 36 36.16 0.0
S 36 40.90
MGG 0.42 232 eP 36 41.20 0.0
DOG 0.64 256 eP 36 45.80 0.4
PAG 0.70 257 eP 36 46.00 -0.4
S.D. = 0.6 on 4 of 4 obs.
? OCT 16, 1991 14h 02m 10.24±1.52s
39.583 N ± 6.8km 15.979 E ± 13.1km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)
MMN 0.31 2 P 02 16.60 0.0
eSg 02 22.20
CSI 0.31 51 P 02 16.70 0.0
CZI 0.38 162 P 02 18.10 0.0
ROI 0.46 91 P 02 19.50 0.0
S.D. = 0.1 on 4 of 4 obs.
* OCT 16, 1991 14h 07m 13.50s
36.857 N 121.620 W
DEPTH = 8.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.5 (BRK).
SAO 0.17 123 iPd 07 16.61 -0.6
GCC 0.35 300 iPc 07 20.50 -0.1
MHC 0.48 358 ePd 07 23.70 0.4
eS 07 31.10
ARN 0.50 8 iPc 07 23.70 0.2
PRS 0.56 159 iPd 07 24.18 -0.6
iS 07 31.52
LLA 0.59 114 iPc 07 25.05 -0.4
iS 07 33.97
PCC 0.88 317 iPd 07 30.05 -0.6
iS 07 44.13
PRI 1.05 133 ePc 07 33.30 -0.3
ZSP 1.20 335 iPc 07 37.02 1.0
iS 07 54.01
CMB 1.53 40 iPd 07 42.91 1.7
iS 07 59.56
FRI 1.54 84 iPc 07 40.63 -0.6
iS 07 59.95
BCH 2.08 143 eP 07 47.50 -1.7
12 obs. associated
* OCT 16, 1991 16h 29m 20.28±0.49s
34.742 N ± 32.1km 58.921 E ± 8.5km
DEPTH = 33.0km (normol)

4.4mb (1 obs.)
NORTHERN IRAN (348)
Felt at Kashmar.

TEH	6.25	281	eP	30	55.00	2.3
IR4	6.60	277	eP	30	58.10	0.4
IR1	6.78	278	eP	31	00.00	-0.2
IR5	6.86	276	eP	31	00.50	-0.8
IR7	6.87	280	eP	31	00.70	-0.7
QUE	8.16	122	eP	31	19.00	-0.6
			ePP	31	51.00	
			eS	33	50.00	
GKN	22.93	100	P	34	23.80	1.2
DMN	23.46	100	P	34	28.80	0.8
KKN	23.53	100	P	34	29.20	0.6
PKI	23.73	100	P	34	31.00	0.4
GUN	23.97	99	P	34	32.00	-1.0
HYB	24.59	130	eP	34	44.00	5.3X
MLR	27.23	303	eP	35	02.00	-1.2
CHG	38.81	104	eP	36	43.50	-0.4
CHTO	38.81	104	P	36	43.20	-0.7
	0.9s				6.61nm	4.4mb
			pP	36	51.80	29kmX

S.D. = 1.1 on 14 of 15 abs.

? OCT 16, 1991 16h 40m 11.37±1.27s
4.263 N ±20.7km 76.332 W ±30.4km
DEPTH = 110.0km (geophysicist)
COLOMBIA (103)
MD 3.3 (UVC).

HOBC	0.22	65	eP	40	27.80	-0.7
BUGC	0.37	168	eP	40	28.69	0.8
CLMC	0.44	211	eP	40	29.02	0.7
HOOC	0.84	201	eP	40	31.49	-0.1
			eS	40	48.20	
ANCC	0.91	216	iPd	40	31.52	-0.5
			eS	40	48.30	
PURC	1.93	181	eP	40	44.13	-0.3

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

* OCT 16, 1991 17h 06m 22.48±2.11s
10.502 S ±14.1km 123.878 E ±13.1km
DEPTH = 58.6 ± 24.8 km
4.7mb (6 abs.) 4.3Msz (1 obs.)
TIMOR REGION, INDONESIA (289)

MKS	6.83	320	ePc	08	11.50	9.2X
			e	09	26.50	
KNA	7.06	138	eP	08	06.50	0.9
	0.3s				18.00nm	5.2mb X
			eS	09	25.00	
MTN	7.48	109	eP	08	11.50	0.1
	0.3s				61.00nm	5.8mb X
			eS	09	33.00	
KHK1	8.43	284	ePc	08	24.80	0.3
			eS	09	55.20	
			e	12	16.40	
WR2	13.80	134	eP	09	34.10	-2.7
	0.6s				7.50nm	4.5mb
			iS	12	01.80	
WARB	15.82	171	eP	10	03.00	0.0
ASPA	16.21	145	iPd	10	08.30	0.3
	1.0s				9.60nm	3.9mb
			eS	13	04.70	
QIS	18.14	125	eP	10	32.00	0.0
			eS	13	45.00	
MRWA	20.03	200	eP	10	55.00	1.7
			eS	14	25.00	
KLB	21.74	194	eP	11	17.50	6.8X
CHG	38.12	320	eP	13	38.00	0.2
GYA	40.37	336	P	13	57.80	1.3
	1.0s				10.00nm	4.6mb
WHN	41.82	348	eP	14	10.50	2.3
CD2	45.48	336	eP	14	38.00	0.2
SHL	47.50	320	eP	14	54.00	0.0
LZH	50.04	339	eP	15	13.50	0.0
	1.5s				28.00nm	5.1mb
Z	20s				0.30um	4.3Msz
LSA	50.91	323	P	15	21.40	0.9
HYB	52.68	301	eP	15	32.80	-0.7
GUN	53.02	317	P	15	34.00	-2.3
PKI	53.12	316	P	15	35.00	-2.0
KKN	53.35	316	P	15	36.80	-1.7
DMN	53.35	316	P	15	37.00	-1.6
GKN	53.92	316	P	15	40.00	-2.6
GTA	54.47	337	P	15	47.70	1.2

1.2s 17.00nm 5.0mb
pP 16 02.20 54kmX
sP 16 10.00
WMO 63.28 331 P 16 48.50 1.1
1.0s 11.00nm 4.9mb
MAIO 76.31 311 eP 18 10.00 2.9
S.D. = 1.6 on 24 of 26 abs.

? OCT 16, 1991 17h 18m 57.25±4.05s
3.840 N ±16.2km 77.006 W ±36.2km
DEPTH = 33.0km (normal)
NEAR WEST COAST OF COLOMBIA (102)
MD 3.5 (UVC).

ANCC	0.35	157	iPd	19	05.24	-0.5
			eS	19	11.70	
CLMC	0.44	85	iPd	19	07.37	0.2
			eS	19	15.40	
HOOC	0.52	135	iPd	19	08.06	-0.4
			eS	19	16.60	
BUGC	0.75	86	ePd	19	11.64	0.1
			eS	19	22.90	
HOBC	1.01	59	ePc	19	15.07	-0.2
			eS	19	28.90	
PURC	1.64	157	eP	19	25.35	0.7
			eS	19	46.80	

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

? OCT 16, 1991 17h 23m 57.37±10.45s
49.091 N ±69.7km 0.719 W ±18.4km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.7 (LDG).

FLN	0.36	154	Pg	24	04.90	0.0
			Sg	24	11.00	
LDF	0.63	141	Pg	24	10.10	0.0
			Sg	24	20.20	
GRR	0.71	188	Pg	24	11.00	-0.3
			Sg	24	21.80	
LPF	1.08	192	Pg	24	18.00	0.3
			Sg	24	32.80	
MFF	2.52	171	Pg	24	43.50	4.5X
			Sg	25	16.60	

S.D. = 0.5 on 4 of 5 abs.

* OCT 16, 1991 17h 39m 30.04±0.75s
48.406 N ±12.1km 155.284 E ±11.8km
DEPTH = 28.5km (2 depth phases)
5.0mb (43 abs.) 4.5Msz (5 abs.)
KURIL ISLANDS (221)

KUSJ	9.10	238	eP	41	40.30	-2.0
			eS	43	17.80	
ASAJ	9.75	249	eP	41	54.70	3.4X
HOOC	10.36	239	eP	41	59.00	-0.7
MRRJ	11.63	244	eP	42	17.70	0.6
OFUJ	13.54	232	eP	42	38.50	-4.0X
MAT	17.25	233	eP	43	29.00	-1.4
	0.9s				5.88nm	3.7mb X
			eS	47	08.00	
MDJ	18.05	268	eP	43	41.00	0.7
YAK	19.78	323	iPd	43	57.80	-2.7
			i	44	11.00	63kmX
			ePP	44	23.00	
			eS	47	49.00	
CN2	21.12	269	eP	44	12.60	-2.0
	1.0s				17.00nm	4.4mb
Z	15s				2.09um	4.6MszX
N	13s				0.31um	
E	13s				0.66um	
BJI	28.99	268	eP	45	30.00	0.9
	Z	14s			0.59um	4.4MszX
	N	13s			0.35um	
HHC	31.66	273	Pd	45	52.80	-0.2
	1.2s				47.00nm	5.2mb
Z	14s				1.20um	4.7MszX
N	12s				0.45um	
			eS	51	06.00	
TIY	32.69	267	eP	46	02.00	0.1
Z	20s				0.63um	4.3Msz
N	15s				0.61um	
BTO	32.81	273	eP	46	02.00	-1.0
Z	15s				0.94um	4.6MszX
E	15s				0.89um	
			eS	51	20.50	
FBA	33.95	40 (P)		46	10.00	-2.5

WHN	35.77	255	eP	46	29.00	0.6
E	14s				0.31um	
XAN	37.13	265	eP	46	39.50	-0.3
LZH	39.31	271	eP	46	58.40	0.1
	1.5s				20.00nm	4.6mb
Z	15s				0.34um	4.3MszX
N	13s				0.35um	
			pP	47	06.00	26km
			sP	47	12.00	
INK	39.46	34	eP	46	57.00	-1.9
GTA	40.17	278	P	47	05.00	-0.3
	1.0s				20.00nm	4.8mb
Z	17s				0.93um	4.7MszX
E	14s				1.53um	
CD2	42.48	265	eP	47	24.50	0.2
MBC	42.53	21	eP	47	23.00	-1.0
	1.0s				6.00nm	4.3mb
GYA	43.51	258	iPd	47	34.00	1.3
	1.2s				34.00nm	5.0mb
WMO	45.70	291	P	47	50.00	-0.1
	1.2s				8.00nm	4.5mb
Z	15s				0.96um	4.9MszX
N	14s				0.54um	
			S	54	29.00	
			ScS	57	36.00	
KMI	46.99	260	Pd	48	01.40	0.8
	1.4s				60.00nm	5.4mb
CHG	53.92	257	iPc	48	54.50	1.3
	1.0s				18.25nm	5.1mb
GUN	56.31	275	P	49	11.00	0.0
KKN	56.79	276	P	49	14.20	0.0
PKI	56.85	275	P	49	14.80	0.0
DMN	57.03	276	P	49	16.80	0.9
GKN	57.08	276	P	49	15.40	-0.8
KAF	62.55	336	eP	49	50.40	-2.6
	0.6s				1.50nm	4.3mb
NUR	64.33	335	eP	50	02.20	-2.5
NB2	67.12	342	P	50	20.30	-2.4
	0.6s				2.30nm	4.5mb
HFS	67.41	340	eP	50	21.90	-2.5
	0.4s				2.80nm	4.7mb
Z	15s				0.25um	4.6MszX
			LR	20	58.00	
HYB	68.42	272	eP	50	31.00	-0.4
WRA	70.57	201	P	50	43.00	-1.3
	0.5s				0.60nm	4.0mb X
POO	70.75	276	iPd	50	46.60	1.0
KRA	74.66	332	eP	51	07.30	-0.8
KSP	75.06	334	ePc	51	09.60	-0.9
CLL	75.55	337	iPd	51	12.40	-0.8
	1.4s				43.00nm	5.3mb
BRG	75.69	336	iP	51	13.40	-0.6
	1.2s				22.00nm	5.0mb
PRU	76.32	335	Pd	51	17.80	0.2
	1.2s				13.80nm	4.9mb
			e	51	30.60	44kmX
MOX	76.51	337	iPd	51	18.60	-0.1
	1.4s				29.00nm	5.1mb
MLR	76.54	326	ePd	51	19.50	0.4
SRO	77.15	332	eP	51	22.70	0.5
ZST	77.18	333	iP	51	23.00	0.6
BUD	77.21	331	eP	51	23.00	0.4
KHC	77.37	335	P	51	23.50	0.0
	1.1s				16.50nm	5.0mb
			e	52	25.50	263kmX
GRF	77.49	337	iPc	51	24.40	0.3
	1.2s				33.00nm	5.2mb
WET	77.55	336	eP	51	24.50	0.0
	1.2s				40.00nm	5.3mb
BZS	77.98	329	eP	51	24.00	-2.8
BHG	78.84	335	iPd	51	32.50	0.9
KBA	79.30	335	iPKPc	51	34.30	0.0
	0.9s				37.30nm	5.4mb
			i	51	44.20	32km
PTJ	79.58	332	iPd	51	35.60	-0.1
WTTA	79.61	336	iPKPc	51	34.90	

16d 17h

FLN 80.97 344 eP 51 43.20 0.3
1.0s 20.00nm 5.1mb
Z 20s 0.22um 4.5msz
LDF 81.06 344 eP 51 43.60 0.2
0.8s 13.45nm 5.0mb
SKO 81.22 327 eP 51 44.40 0.0
LOR 81.52 341 eP 51 46.30 0.4
1.2s 20.85nm 5.0mb
Z 20s 0.28um 4.6msz
LBF 81.76 341 eP 51 47.70 0.5
1.2s 14.90nm 4.9mb
LPF 81.77 344 eP 51 48.00 0.9
0.8s 10.75nm 4.9mb
SSF 81.79 341 eP 51 48.00 0.7
0.8s 6.70nm 4.7mb
AVF 82.08 341 eP 51 49.30 0.5
1.2s 25.30nm 5.1mb
SMF 82.11 341 eP 51 49.60 0.6
1.4s 52.30nm 5.4mb
BGF 82.41 341 eP 51 50.80 0.3
1.0s 12.00nm 4.9mb
HRI 82.42 313 eP 51 51.30 0.4
RSM 82.43 334 P 51 52.10 1.6
BOB 82.50 336 P 51 52.30 1.2
LPL 82.50 338 eP 51 52.60 1.3
0.9s 11.45nm 4.9mb
LPG 82.51 338 eP 51 52.80 1.4
1.1s 18.30nm 5.1mb
SFI 82.61 334 P 51 53.00 1.5
MME 82.68 335 P 51 54.20 1.9
PGD 82.69 334 P 51 54.20 2.0
MAF 82.79 341 eP 51 53.60 1.1
0.8s 10.75nm 5.0mb
TCF 82.81 342 eP 51 53.50 0.9
0.8s 8.05nm 4.9mb
LSF 82.98 342 eP 51 53.90 0.4
0.8s 8.75nm 4.9mb
JVI 83.70 312 eP 51 57.70 0.3
SBF 83.87 337 eP 51 59.60 1.5
0.8s 12.10nm 5.1mb
RJF 83.89 342 eP 51 59.60 1.5
1.0s 12.00nm 5.0mb
Z 20s 0.15um 4.4msz
CAF 84.14 341 eP 52 00.20 0.8
0.8s 6.70nm 4.9mb
LPO 84.55 342 eP 52 03.00 1.5
1.0s 12.00nm 5.1mb
PGF 84.68 336 eP 52 04.90 2.7X
0.8s 8.05nm 5.0mb
RMN 85.23 312 eP 52 05.00 -0.2
S.D. = 1.2 on 83 of 86 obs.

? OCT 16, 1991 17h 52m 52.32±1.67s
7.026 N ±30.1km 73.117 W ±29.7km
DEPTH = 150.0km (geophysicist)
NORTHERN COLOMBIA (99)

BMG 0.06 42 eP 53 14.00 0.0
BOG 2.57 202 eP 53 35.00 -0.1
eS 54 09.00
HOBC 4.01 229 eP 53 52.58 -0.9
eS 54 37.60
BUGC 4.41 225 eP 53 59.48 0.6
CLMC 4.64 228 eP 54 02.91 1.0
ANCC 5.11 227 eP 54 07.52 -0.6
S.D. = 0.9 on 6 of 6 obs.

? OCT 16, 1991 17h 56m 45.77±4.41s
3.929 N ±21.1km 76.959 W ±40.0km
DEPTH = 33.0km (normal)
COLOMBIA (103)
MD 2.7 (UVC).

CLMC 0.40 97 eP 56 55.15 0.1
ANCC 0.42 167 iPd 56 55.35 0.1
eS 57 02.30
HOQC 0.56 145 iPd 56 57.36 -0.2
eS 57 05.80
HOBC 0.92 63 iPc 57 02.47 0.0
eS 57 14.80
S.D. = 0.2 on 4 of 4 obs.

* OCT 16, 1991 18h 16m 33.83±0.76s
6.918 S ±12.2km 155.547 E ±17.7km
DEPTH = 33.0km (normal)
4.6mb (2 obs.)
SOLOMON ISLANDS (193)

RMQ 20.51 198 eP 21 12.20 0.2
WR2 24.29 236 iPc 21 49.60 0.1
0.9s 4.10nm 4.0mb
ASPA 26.64 229 iPd 22 23.40 11.8X
0.4s 4.40nm
CHG 61.36 296 eP 26 49.00 -0.3
GUN 75.55 301 P 28 18.20 0.4
0.6s 14.00nm 5.1mb
PKI 75.86 301 P 28 19.80 0.3
KKN 76.03 301 P 28 20.20 -0.1
DMN 76.13 301 P 28 21.20 0.2
GKN 76.63 301 P 28 23.60 -0.1
FBA 82.85 21 P 28 56.40 0.4
INK 89.45 21 eP 29 29.00 0.6
HFS 119.63 339 ePKP 35 20.00 -1.7
0.4s 0.60nm
S.D. = 0.7 on 11 of 12 obs.

% OCT 16, 1991 18h 19m 41.65±0.98s
39.676 N ±12.3km 118.484 E ±10.6km
DEPTH = 10.0km (geophysicist)
NORTHEASTERN CHINA (658)
ML 3.7 (BJI).

BJI 1.81 282 ePn 20 14.00 0.9
Pg 20 16.00
Sn 20 37.00
Sg 20 39.00
DL2 2.56 106 ePn 20 25.00 1.2
ePg 20 31.00
eSg 21 04.50
TIA 3.62 198 Pn 20 39.70 0.7
Pg 20 47.50
SNY 4.43 59 ePn 20 51.00 0.7
Pg 21 04.20
Sg 22 02.40
TIY 5.12 249 ePg 21 19.40 19.1X
Sg 22 20.40
HHC 5.42 285 ePg 21 20.60 16.0X
Sg 22 34.10
BTO 6.55 281 ePg 21 40.50 19.9X
CN2 6.64 49 ePn 21 20.00 -1.7
Pg 21 44.20
eSn 22 34.40
eSg 23 11.60
WHN 9.72 202 eP 22 02.70 -1.8
S.D. = 1.7 on 6 of 9 obs.

? OCT 16, 1991 18h 33m 05.84±2.15s
16.517 N ±21.9km 98.726 W ±11.4km
DEPTH = 33.0km (normal)
NEAR COAST OF GUERRERO, MEXICO (58)

ACX 1.14 288 iP 33 25.37 -0.2
iS 33 38.80
III 1.98 339 iP 33 40.95 3.1X
(S) 34 09.98
OXX 2.00 73 iP 33 38.41 0.2
(S) 34 08.77
PPM 2.54 2 iP 33 45.07 -1.0
IIA 2.62 1 iP 33 48.42 1.7
IISM 2.77 27 iP 33 47.98 -0.9
(S) 34 26.07
LVVM 3.87 34 (P) 34 15.27 10.9X
MRX 3.94 324 (P) 34 17.91 12.4X
S.D. = 1.6 on 5 of 8 obs.

? OCT 16, 1991 18h 55m 49.49±5.45s
36.923 N ±40.2km 27.568 E ±21.5km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)

YER 0.61 69 iPg 56 01.90 0.1
eSg 56 10.90
CIN 0.79 31 iPg 56 05.00 0.1
iSg 56 13.00
IZM 1.49 351 ePn 56 16.50 0.1
KHL 2.09 47 ePn 56 25.00 -0.1
DST 2.81 17 ePn 56 35.00 -0.3
S.D. = 0.2 on 5 of 5 obs.

% OCT 16, 1991 22h 15m 13.28±1.95s
2.655 N ±11.2km 77.949 W ±23.2km
DEPTH = 33.0km (normal)
NEAR WEST COAST OF COLOMBIA (102)

ANCC 1.38 52 eP 15 36.64 0.2

HOQC 1.54 58 eP 15 38.98 -0.1
eS 15 56.00
PURC 1.62 102 eP 15 40.37 0.0
CUMC 1.68 177 ePd 15 41.32 0.0
eS 16 00.00
CLMC 1.84 49 eP 15 43.40 0.1
eS 16 03.80
HOBC 2.48 47 eP 15 52.11 -0.2
S.D. = 0.2 on 6 of 6 obs.

? OCT 16, 1991 23h 31m 11.14±7.32s
32.928 S ±24.8km 72.122 W ±49.2km
DEPTH = 10.0km (geophysicist)
OFF COAST OF CENTRAL CHILE (134)

LCCH 0.72 140 iPd 31 25.00 -0.2
iS 31 34.00
LNV 1.18 150 iP 31 33.00 -0.2
iS 31 47.50
PEL 1.23 100 iPc 31 34.30 0.3
iS 31 50.00
TACH 1.23 126 iPd 31 33.80 -0.2
iS 31 49.00
JACH 1.31 80 iPc 31 35.10 -0.4
iS 31 52.00
PCH 1.51 118 iP 31 38.50 0.1
CHCH 1.59 130 eP 31 40.00 0.6
iS 32 00.00
S.D. = 0.4 on 7 of 7 obs.

? OCT 16, 1991 23h 32m 16.73±1.70s
48.840 N ±21.4km 154.972 E ±27.3km
DEPTH = 33.0km (normal)
4.8mb (5 obs.)
KURIL ISLANDS (221)

YAK 19.31 323 eP 36 41.10 -0.4
CHG 53.82 257 eP 41 38.00 -0.5
CHTO 53.82 257 P 41 37.80 -0.7
1.0s 6.75nm 4.6mb
GUN 56.07 275 P 41 55.60 0.4
KKN 56.54 275 P 41 59.20 0.7
PKI 56.61 275 P 41 59.20 0.1
DMN 56.78 275 P 42 00.40 0.1
GKN 56.83 276 P 42 00.60 0.2
CLL 75.06 336 eP 43 56.00 -0.5
1.3s 19.00nm 4.9mb
PRU 75.84 335 eP 44 01.50 0.6
MOX 76.03 337 e(P) 44 00.50 -1.5
1.6s 25.00nm 5.0mb
KHC 76.89 335 P 44 07.70 0.8
e 44 15.00
GRF 77.01 337 eP 44 08.60 1.1
0.9s 7.00nm 4.7mb
WTTA 79.12 336 eP 44 19.00 -0.4
1.1s 15.10nm 4.9mb
S.D. = 0.8 on 14 of 14 obs.

? OCT 16, 1991 23h 42m 15.20±4.41s
3.656 N ±14.4km 77.045 W ±41.0km
DEPTH = 33.0km (normal)
NEAR WEST COAST OF COLOMBIA (102)
MD 2.4 (UVC).

ANCC 0.23 128 eP 42 22.10 0.0
eS 42 26.80
HOQC 0.45 114 eP 42 25.39 0.1
eS 42 32.60
CLMC 0.53 65 eP 42 26.32 -0.1
HOBC 1.14 53 ePc 42 35.14 0.1
eS 42 49.70
S.D. = 0.1 on 4 of 4 obs.

% OCT 17, 1991 01h 01m 45.78±0.81s
40.050 N ±6.9km 29.074 E ±7.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZI 0.42 47 iPg 01 53.90 -0.5
eSg 02 00.20
DST 0.56 218 iPg 01 57.00 -0.2
eSg 02 05.00
YLV 0.56 24 iPg 01 56.70 -0.6
HRT 0.89 30 iPg 02 03.00 0.0
GPA 0.98 75 iPn 02 05.00 0.7
ISK 1.01 359 ePn 02 05.20 0.2
CTT 1.20 336 iPn 02 08.50 0.3

S.D. = 0.5 on 7 of 7 obs.				DEPTH = 33.0km (normol)				eS 28 51.19			
* OCT 17, 1991 01h 04m 00.62± 1.14s				5.4mb (3 obs.)				CUT 0.68 57 ePd 28 44.58 -0.7			
32.255 S ±12.0km 177.295 W ±17.0km				SOUTH OF KERMADEC ISLANDS (179)				SUA 0.69 148 iPd 28 45.48 0.0			
DEPTH = 33.0km (normol)				PUZ 6.28 203 eP 15 14.00 -0.5				NCG 0.71 206 ePd 28 58.84 -0.7			
SOUTH OF KERMADEC ISLANDS (179)				KUZ 6.43 225 eP 15 22.30 5.8X				CGLM 0.78 198 ePd 28 45.47 -0.9			
HBZ 6.44 213 eP 05 36.70 1.1				WCZ 6.87 236 eP 15 30.00 7.3X				CRP 0.84 202 ePd 28 46.34 -0.7			
PUZ 6.85 211 eP 05 41.70 0.3				URZ 6.88 209 eP 15 22.80 0.0				PWA 0.87 116 ePc 28 47.00 -0.1			
KUZ 7.30 230 eP 05 48.60 1.0				DZM 16.75 304 iPd 17 36.10 0.6				BGL 0.89 209 iPd 28 46.93 -0.6			
NOZ 7.40 210 eP 05 48.20 -0.9				CAN 27.02 255 eP 19 23.60 1.0				SPU 0.90 197 iPd 28 46.62 -1.0			
URZ 7.54 216 eP 05 49.50 -1.4				BWA 27.56 257 eP 19 26.60 -1.0				CKL 0.94 206 ePd 28 47.21 -0.9			
WCZ 7.85 240 eP 05 55.00 -0.3				RMO 28.95 273 iPd 19 40.90 0.7				PLRM 1.21 111 ePc 28 49.84 -1.2			
MOZ 8.97 224 eP 06 11.30 0.4				CTAO 33.65 282 iP 20 17.00 -4.6X				PMS 1.23 130 ePc 28 50.63 -0.7			
KHZ 12.48 213 eP 06 53.40 -5.3X				WR2 43.67 274 iPd 21 42.90 -2.3				GHO 1.25 101 ePc 28 50.83 -0.8			
DZM 17.65 301 iPd 08 16.60 10.9X				CSY 53.21 208 eP 22 59.20 0.7				HUR 1.28 42 eP 28 50.10 -1.8			
OIS 40.08 276 iPd 11 35.00 0.2				MBL 55.44 265 eP 23 11.00 -4.5X				NKA 1.31 174 ePc 28 53.75 1.5			
WR2 44.77 274 iPd 12 12.50 -0.6				MAW 70.33 201 eP 24 57.00 3.5X				SML 1.52 98 iPd 28 53.86 -1.0			
ANMO 94.27 51 P 17 18.10 0.2				NVL 76.93 184 ePd 25 37.00 5.1X				TRF 1.52 21 iPd 28 53.56 -1.5			
KEV 140.06 347 ePKP 23 20.00 -6.5X				VAO 108.15 134 (Pd) 28 24.00 22.4X				KTH 1.54 10 iPd 28 53.54 -1.6			
SOD 142.13 345 ePKP 23 34.00 3.7X				KAF 146.17 339 ePKP 33 11.80 -6.5X				RDT 1.54 197 iPd 28 54.34 -0.8			
KAF 146.49 340 ePKP 23 44.90 7.1X				OBN 146.42 323 iPKP 33 13.30 -5.6X				KNK 1.58 112 iPd 28 54.60 -1.1			
NUR 148.26 339 ePKP 23 50.70 10.1X				NUR 147.92 338 ePKP 33 17.00 -4.1X				NCT 1.64 205 ePd 28 55.79 -0.7			
NB2 150.67 352 PKP 23 55.70 11.3X				HFS 151.01 347 ePKP 33 23.80 -2.1				RDN 1.65 202 iPd 28 55.98 -0.7			
HFS 151.18 349 ePKP 23 57.90 12.8X				HRI 151.19 281 ePKP 33 27.80 0.6				SLKM 1.66 158 ePc 28 56.48 -0.2			
S.D. = 0.9 on 10 of 18 obs.				JVI 151.31 278 iPKP 33 27.90 0.6				REF 1.66 201 iPd 28 56.28 -0.6			
? OCT 17, 1991 01h 07m 30.59± 6.39s				BHL 151.34 283 PKP 33 29.00 1.6				RDW 1.69 203 iPd 28 56.72 -0.5			
6.956 N ±37.3km 73.081 W ±47.0km				MML 151.34 279 iPKP 33 28.40 1.1				RS2 1.70 201 iPd 28 56.82 -0.6			
DEPTH = 155.7 ± 52.3 km				RMN 151.64 275 ePKP 33 28.60 0.7				RSO 1.70 201 iPd 28 56.79 -0.6			
NORTHERN COLOMBIA (99)				KIC 153.54 166 PKP 33 41.50 10.6X				RS1 1.70 201 iPd 28 56.85 -0.6			
BMG 0.12 3 iPd 07 53.00 0.0				S.D. = 1.3 on 15 of 27 obs.				RED 1.74 201 ePd 28 57.22 -0.6			
BOG 2.52 203 eP 08 13.00 0.0				* OCT 17, 1991 04h 19m 49.49± 0.80s				RND 1.83 41 ePd 28 57.24 -1.8			
HOBC 3.99 230 ePd 08 31.15 -0.5				7.008 S ±10.8km 127.823 E ±12.1km				SCM 1.98 94 ePc 28 59.62 -1.4			
BUGC 4.39 226 eP 08 36.75 -0.2				DEPTH = 338.0 ± 11.5 km				NNL 2.01 177 eP 29 02.61 1.3			
CLMC 4.62 229 eP 08 41.40 1.4				4.7mb (2 obs.)				MCK 2.06 34 ePd 29 00.32 -1.7			
HOOC 4.95 226 eP 08 43.57 -1.0				BANDA SEA (280)				SVW 2.18 246 ePd 29 01.77 -1.8			
ANCC 5.09 228 eP 08 46.31 0.2				SLKI 3.58 106 iPd 20 54.10 0.2				SEW 2.19 152 eP 29 02.97 -0.6			
PURC 5.65 216 eP 08 54.34 0.3				KUPT 5.21 233 eP 21 12.00 0.5				BWN 2.33 23 eP 29 03.28 -2.2			
CUMC 7.63 219 eP 09 20.60 -0.2				MTN 6.65 151 eP 21 28.40 0.2				GLI 2.42 117 iPd 29 04.43 -2.3			
S.D. = 0.8 on 9 of 9 obs.				KNA 8.74 174 eP 21 51.50 -1.6				KNIM 2.49 131 eP 29 04.66 -3.1			
? OCT 17, 1991 01h 52m 33.44± 5.12s				WR2 14.34 154 iPd 23 00.70 0.5				TOA 2.51 86 eP 29 07.05 -1.0			
17.140 N ±39.3km 61.987 W ±14.9km				OIS 17.66 141 iPd 23 38.50 3.3X				CNPM 2.53 177 ePc 29 08.17 -0.1			
DEPTH = 23.2 ± 10.5 km				WARB 19.10 183 eP 23 50.30 0.6				VZW 2.57 110 eP 29 06.88 -1.9			
LEEWARD ISLANDS (92)				GUN 53.35 312 P 28 37.80 0.1				VLZ 2.64 108 iPd 29 07.39 -2.2			
ML 2.7 (FDF).				PKI 53.50 312 P 28 35.00 -3.9X				LTI 2.68 137 eP 29 07.69 -2.6			
BPA 0.16 127 iPd 52 38.33 -0.1				KKN 53.72 312 P 28 40.00 -0.3				KLU 2.71 99 iPd 29 08.84 -1.9			
MGH 0.47 208 eP 52 43.11 0.0				DMN 53.75 312 P 28 40.40 -0.1				FID 2.74 116 eP 29 08.55 -2.6			
SEG 0.87 148 eP 52 49.65 0.0				GKN 54.31 312 P 28 44.40 -0.1				NEA 2.77 22 eP 29 08.82 -2.6			
PAG 1.14 165 eP 52 54.20 0.1				CNCB 151.64 147 PKP 39 11.80 11.5X				SDG 2.83 78 eP 29 11.31 -1.0			
DOG 1.16 162 eP 52 54.24 0.0				LPB 151.80 146 ePKP 39 11.00 10.7X				WRH 2.88 31 ePd 29 10.35 -2.7			
DEG 1.21 133 eP 52 55.20 0.2				S.D. = 0.8 on 10 of 14 obs.				PAX 2.95 69 eP 29 12.44 -1.6			
MGG 1.21 152 eP 52 57.11 -0.2				& OCT 17, 1991 04h 28m 28.18s				HDA 3.14 39 ePd 29 14.02 -2.5			
S.D. = 0.2 on 7 of 7 obs.				62.044 N 151.502 W				MCNL 3.19 207 eP 29 16.08 -1.2			
* OCT 17, 1991 02h 42m 51.07± 1.26s				CENTRAL ALASKA (1)				MDM 3.27 25 ePd 29 15.76 -2.6			
37.214 N ±13.0km 29.381 E ± 7.0km				<AEIC>				FBA 3.31 29 iPd 29 16.23 -2.7			
DEPTH = 10.0km (geophysicist)				SKT 0.07 192 iPd 28 41.00 0.9				GLM 3.48 30 eP 29 18.75 -2.5			
TURKEY (366)				& OCT 17, 1991 04h 36m 38.32s				GLB 3.71 96 eP 29 22.28 -2.1			
YER 0.88 265 iPg 43 07.90 -0.1				61.209 N 151.427 W				HMT 3.90 113 eP 29 23.35 -3.7			
BCK 0.99 75 iPd 43 10.00 0.0				DEPTH = 68.8km				CROM 4.22 104 eP 29 29.94 -1.7			
CIN 1.10 291 ePn 43 12.00 0.3				SOUTHERN ALASKA (2)				TGL 4.36 103 eP 29 31.24 -2.3			
KHL 1.11 6 ePn 43 12.20 0.2				<AEIC>. ML 2.6 (AEIC).				BALM 4.50 99 iPd 29 32.80 -2.5			
DST 2.46 346 ePn 43 31.50 -0.4				60 obs. associated				YAH 5.01 105 eP 29 40.37 -2.2			
S.D. = 0.4 on 5 of 5 obs.				CGLM 0.30 290 iPd 36 49.11 -0.5							
? OCT 17, 1991 04h 13m 41.66± 0.88s											
32.325 S ±11.9km 178.602 W ±16.6km											

SPU	0.31	265	iPd	36	49.00	-0.6	PEL	1.23	4	iS	48	51.50	ASPA	19.08	184	P	25	23.00	1.2		
			iS	36	58.02				iPc	48	36.18	-0.2	TSM	19.56	296	ePc	25	28.00	0.7		
CRP	0.36	280	iPd	36	49.62	-0.5			iS	48	55.00		GUA	20.29	28	e(P)	25	37.00	2.0		
			eS	36	59.16		ROCH	1.41	353	iPc	48	38.50	-0.3		0.9s	215.13nm			5.5mb		
NCG	0.40	299	iPd	36	49.84	-0.6			iS	48	58.90		GUMD	20.31	28	e(P)	25	33.20	-2.1		
			eS	36	59.36		IHA	1.52	332	iPd	48	40.50	0.5	PJG	20.31	28	e(P)	25	33.50	-1.8	
SUA	0.42	52	iPc	36	50.29	-0.3			iS	49	02.20		KKM	21.82	299	ePc	25	51.20	0.4		
			eS	37	00.20		JACH	1.69	6	iPc	48	42.00	-0.5		1.0s	637.10nm			6.0mb		
CKL	0.44	269	iPd	36	50.01	-0.8			iS	49	06.00					e	26	06.00	65kmX		
			eS	36	59.55			S.D. = 0.4	on	10	of	10	obs.	TRT	22.83	261	ePd	26	03.20	2.6X	
BGL	0.47	277	ePd	36	50.23	-0.8									1.2s	175.50nm			5.4mb		
NKA	0.48	169	ePc	36	52.27	1.3		%	OCT	17, 1991	05h	13m	40.48	± 1.58s	WARB	23.10	200	eP	26	04.00	0.7
SKT	0.78	356	iPd	36	53.26	-1.0				43.255	N	± 11.9km	18.982	E ± 8.7km			eS	30	12.00		
			eS	37	05.54				DEPTH =	5.0km	(geophysicist)				QLP	23.51	160	eP	26	08.00	0.7
RDT	0.80	217	ePd	36	53.71	-0.9				NORTHWESTERN BALKAN REGION		(383)				1.1s	1600.00nm			6.5mb	
			iS	37	06.52					ML 1.7 (TTG).							i	26	14.00	21km	
PWA	0.87	59	iPc	36	55.16	-0.1		PLE	0.31	76	iPg	13	46.92	0.2	OCP	23.74	324	eP	26	20.00	10.6X
			eS	37	08.50					iSg	13	51.38		HNR	24.86	103	eP	26	21.00	0.6	
PMS	0.90	87	iPc	36	55.59	-0.3		NKY	0.44	178	iPg	13	49.64	0.3	RMQ	25.32	151	eP	26	25.40	0.8
			eS	37	09.37					iSg	13	56.42			1.0s	164.00nm				5.6mb	
SLKM	0.92	139	ePc	36	55.12	-0.9		BRY	0.48	222	iPg	13	50.02	-0.1	BAG	25.43	325	ePc+	26	24.00	-2.0
			eS	37	09.37					iSg	13	57.34			1.3s	134.62nm				5.4mb	
REF	0.95	221	eP	36	55.88	-0.8		IVA	0.77	119	iPg	13	55.74	-0.3			eS	30	48.00		
RDN	0.96	224	ePd	36	55.48	-1.1				iSg	14	07.06		TPI	27.72	273	ePd	26	48.50	1.6	
			eS	37	10.11			TTG	0.85	166	iPg	13	57.28	0.0			e	31	00.00		
NCT	0.98	229	eP	36	56.10	-0.8				iSg	14	10.00		STK	27.83	169	eP	26	50.20	2.5X	
RS2	0.99	222	eP	36	56.76	-0.4				iSg	14	11.14			0.8s	30.30nm				5.1mb	
RSO	0.99	222	ePd	36	56.70	-0.4		HCY	0.88	204	iPg	13	57.82	-0.1			eS	32	39.10		
RDW	0.99	223	ePd	36	56.34	-0.8				iSg	14	11.14				e	26	50.00	-0.7		
			eS	37	11.05		BDV	0.98	187	ePg	13	59.52	0.0	BRS	28.15	146	eP	26	57.00	25km	
RS1	0.99	222	eP	36	56.77	-0.4				iSg	14	14.18				i	27	12.50			
RED	1.03	220	eP	36	56.64	-0.9			S.D. = 0.2	on	7	of	7	obs.			iS	31	33.00		
PLRM	1.17	70	iPc	36	58.15	-1.0									CMS	28.56	161	eP	26	53.00	-1.3
			eS	37	14.25					OCT	17, 1991	05h	20m	57.88	± 0.15s			e	32	20.00	
NNL	1.17	177	ePc	36	59.65	0.4					4.524	S ± 3.1km	135.375	E ± 3.9km			e	37	08.00		
CUT	1.32	24	ePd	37	00.39	-0.8						DEPTH =	22.5km	(9 depth phases)			e	27	08.00		
GHO	1.33	64	ePc	37	00.38	-1.0							5.6mb	(43 obs.)	5.6Msz	(27 obs.)		37	02.00	-0.3	
INE	1.41	216	eP	37	01.26	-1.3							IRIAN JAYA REGION, INDONESIA	(196)				27	08.00	-1.4	
INW	1.42	217	ePd	37	01.71	-1.0							Ms 5.7 (BRK). Mo=6.0*10**17 Nm				e	32	50.00		
KNK	1.45	81	iPc	37	01.84	-1.1							(PPT).					e	37	09.00	
			eS	37	20.91								CENTROID, MOMENT TENSOR (HRV)								
SEW	1.48	138	eP	37	01.59	-1.7							Date Used: GDSN								
			eS	37	21.83								L.P.8.: 26S, 70C								
SML	1.60	67	ePc	37	03.68	-1.4							Centroid Location:								
CNPM	1.69	177	ePd	37	04.86	-1.4							Origin Time	05:21: 0.3 0.2							
			eS	37	25.45								Lot 4.50S 0.02 Lon 135.38E 0.02								
OPT	1.80	211	ePd	37	06.97	-0.8							Dep 15.2 BDY Half-duration 3.6								
KNIM	2.01	114	ePd	37	07.64	-3.0							Moment Tensor: Scale 10**17 Nm								
			eS	37	31.97								Mrr= 4.90 0.14 Mtt=-7.53 0.17								
SCM	2.06	71	eP	37	09.77	-1.7							Mff= 2.63 0.19 Mrt= 2.72 0.59								
LT1	2.12	122	eP	37	09.51	-2.6							Mrf= 3.73 0.41 Mtf= 4.89 0.14								
GL1	2.13	97	ePc	37	09.34	-3.0							Principal Axes:								
			eS	37	34.98								T Vol= 9.26 Plg=46 Azm=296								
MTU	2.23	122	eP	37	11.58	-2.1							N 0.33 43 106								
TRF	2.31	13	eP	37	14.07	-1.0							P -9.60 5 200								
KTH	2.36	5	eP	37	14.58	-1.1							Best Double Couple:Mo=9.4*10**17								
VZW	2.37	92	eP	37	13.34	-2.4							NP1:Strike=327 Dip=55 Slip= 147								
FID	2.46	99	ePd	37	13.25	-3.6							NP2: 77 63 40								
			eS	37	42.50		SLKI	5.31	230	iPc	22	18.90	1.0								
VLZ	2.47	90	ePc	37	14.44	-2.6															
RND	2.51	27	eP	37	17.56	-0.2															
TOA	2.66	68	eP	37	18.13	-1.7															
KLU	2.67	81	ePc	37	17.22	-2.7															
			eS	37	48.37																
TTA	2.76	311	eP	37	17.30	-3.9															
WRH	3.61	24	ePd	37	31.84	-1.2															
GLB	3.68	83	eP	37	31.50	-2.5															
MDM	4.03	20	ePd	37	37.34	-1.7															
GLM	4.21	24	eP	37	40.30	-1.2															
	50 obs.	associated					KUPT	12.94	244	eP	24	08.00	4.8X								
? OCT 17, 1991	04h	48m	14.04	± 2.46s			DAV	15.12	320	eP+	24	27.00	-4.9X								
	34.372	S ± 24.1km	70.794	W ± 12.9km			WR2	15.36	184	iPd	24	29.10	-6.0X								
	DEPTH =	80.0km	(geophysicist)																		
	CHILE-ARGENTINA BORDER REGION	(127)																			
	MD 4.1 (SAN).																				
CHCH	0.45	15	iPd	48	27.70	0.1															
LNV	0.66	309	iPc	48	29.10	-0.3															
			iS	48	42.50																
TACH	0.73	351	iPc	48	30.50	0.3															
			iS	48	45.20																
PCH	0.78	17	iPc	48	31.00	0.1															
			iS	48	45.50																
SAN	0.92	7	iPc	48	32.80	0.3															
			iS	48	49.00																
LCCH	1.10	324	iPc	48	34.50	-0.1															
			eS	28	32.00																

Z 20s	10.10um	5.6Msz	E 16s	1.59um		DMN	58.04	306	P	30	51.60	-0.5		
N 14s	3.90um			sP	29 42.00	GKN	58.58	307	P	30	55.20	-0.6		
E 15s	5.50um			iS	36 22.00	HYB	60.16	293	ePc	31	04.50	-2.2		
	pP	28 20.80	20km	sS	36 32.00	DRV	62.11	178	eP	31	25.80	6.7X		
	PP	29 41.00		eP	29 34.50				S	39	50.00			
	S	34 04.00		1.2s	40.00nm				SS	44	03.00			
	PcS	34 21.00		Z 20s	6.62um				iPc	31	34.00	-0.8		
NJ2	39.63	338 Pc	28 29.00	N 15s	2.45um									
	1.0s	180.00nm		E 17s	6.94um									
	Z 20s	6.57um	5.5Msz		ePcP	31 08.00	WMO	64.42	324					
	N 17s	2.86um			ePP	31 24.00		1.4s	55.00nm		5.5mb			
	E 14s	1.68um			eS	36 25.00		N 15s	3.38um		5.6Msz			
		iS	34 32.50						sP	31	47.50			
		sS	34 49.00	KUSJ	48.15	9 eP	29 38.00		PcP	32	04.00			
LOE	39.73	304 eP	28 30.00	ASAJ	48.86	7 eP	29 43.00		PP	33	58.30			
TSRJ	39.85	1 P	28 30.10	CN2	48.93	350 Pc	29 42.00		PcS	36	06.20			
IIDJ	39.86	3 P	28 32.10		1.0s	18.00nm			S	40	13.50			
NST	40.25	301 eP	28 33.00	Z 18s	7.87um				ScS	41	22.00			
WHN	40.25	331 Pc	28 36.00	N 14s	1.08um				SS	44	26.50			
				E 14s	1.23um			POO	64.77	293	iPc	31 38.20	0.7	
	1.4s	480.00nm			eP	29 54.00	43kmX	NDI	64.87	304	iPc	31 37.50	-0.4	
	Z 22s	4.81um	5.3Msz		ePcP	31 09.00		SMY	65.75	25 P	31 55.00	12.0X		
	N 15s	2.46um			PP	31 36.00			Z 22s	12.90um		6.1Msz		
	E 15s	3.26um			S	36 42.00		YAK	66.49	357	iPc	31 45.80	-1.8	
		S	34 44.00		SS	40 10.00				ePcP	32	15.00		
CHJJ	40.50	5 P	28 38.50	KUZ	48.93	136 eP	29 44.00		ePP	34	24.00			
KAKJ	40.76	6 P	28 38.90	MDJ	49.19	355 iPc	29 46.80		ePPP	35	50.00			
MAT	40.94	3 eP	28 39.00		1.2s	94.00nm			eScP	36	18.00			
	1.0s	26.00nm		Z 22s	5.32um				eS	40	36.00			
	Z 20s	12.06um	5.8Msz		pP	29 56.00	31km		ePS	40	50.00			
		eS	34 38.00		PP	31 38.00			eScS	41	41.00			
MTMJ	40.96	3 P	28 38.40		S	36 44.00			eSS	44	12.00			
KHT	41.19	298 eP	28 44.00	EWZ	49.88	146 eP	29 51.50		eSSS	48	02.00			
GYA	41.49	319 iPc	28 45.00	LZH	50.03	326 iPc	29 53.20		PAF	70.54	219	eP	32 32.00	19.0X
	1.4s	150.00nm			1.5s	440.00nm			e(PP)	34	56.00			
	N 18s	5.06um	5.5mb		Z 30s	3.53um	5.2MszX		eS	41	48.00			
	E 18s	3.18um		E 14s	1.74um			QUE	73.85	303	iPc+	32 35.00	1.7	
		pP	28 50.40		S	37 04.00			eS	42	04.00			
		sP	28 54.00		ScS	39 43.00		AFR	74.21	107	iP	32 42.30	7.0X	
		S	35 00.00	BWZ	50.03	148 eP	29 52.70		0.8s	25.00nm		5.3mb		
		sS	35 10.00	TLC	50.06	149 eP	29 52.60		PAE	74.40	107	iP	32 43.50	7.1X
		ScS	38 49.00	MHZ	50.08	149 eP	29 52.70		0.8s	30.00nm		5.4mb		
NIIJ	41.69	4 P	28 46.00	LRCZ	50.12	149 eP	29 52.70		MAW	79.21	202 P	33 04.20	1.8	
BDT	41.93	302 eP	28 48.90	SBCZ	50.12	149 eP	29 53.70		MAIO	81.36	308 iPc	33 14.90	0.3	
	0.6s	35.70nm		CMCZ	50.14	149 eP	29 54.00			1.0s	17.50nm		5.0mb	
YAMJ	42.70	5 eP	28 56.10	HHC	50.15	336 Pc	29 53.60				e	43	10.00	
CHG	42.72	304 ePc	28 55.00		1.0s	26.00nm		CRZF	82.27	224	eP	33 30.00	11.0X	
	0.9s	38.45nm			Z 20s	6.60um	5.6Msz				eS	43	51.00	
		eS	35 12.00		N 16s	2.37um		SPA	85.51	180	eP	33 34.00	-1.3	
KMI	43.29	315 Pc	29 00.00		E 18s	2.76um			1.1s	27.38nm		5.4mb		
	1.5s	250.00nm				pP	29 57.50		Z 20s	21.40um		6.5Msz		
	Z 20s	7.00um	5.6Msz			PcP	31 12.00	SLKM	86.30	29 e(P)	33 39.90	0.8		
	N 15s	1.30um				PP	31 49.00	IMA	86.49	23 eP	33 42.80	2.7X		
	E 15s	2.30um				S	37 02.50		1.2s	49.00nm		5.6mb		
		pP	29 06.50			ScS	39 38.00	PWA	86.77	27 eP	33 43.10	1.8		
		sP	29 10.50			SS	40 34.00		1.1s	50.10nm		5.7mb		
		S	35 24.00	LSCZ	50.17	149 eP	29 53.60		PMR	87.10	28 eP	33 44.60	1.7	
		sS	35 38.00	MSCZ	50.17	149 P	29 53.10		Z 22s	6.45um		6.0Msz		
OFUJ	43.77	7 eP	29 04.00	BTO	50.57	335 P	29 56.00	BRW	87.31	17 eP	33 45.70	1.9		
TIA	43.98	339 Pc	29 04.40		N 21s	5.20um		RND	87.69	26 P	33 45.90	0.0		
	1.4s	170.00nm			E 17s	3.00um		IR4	88.08	305 iPc	33 50.00	1.6		
	N 19s	5.38um				ePcP	31 16.50	IR1	88.27	306 iPc	33 50.50	1.2		
	E 16s	3.59um				iS	37 10.00	IR5	88.33	305 eP	33 50.80	1.2		
		S	35 29.00			SS	40 37.50	IR7	88.37	306 iPd	33 50.90	1.1		
DL2	45.05	345 P	29 14.00	URZ	50.66	137 eP	29 57.70	FBA	88.51	25 eP	33 51.20	1.5		
		S	35 45.00	ODZ	50.78	148 P	29 58.40		1.4s	28.41nm		5.4mb		
XAN	45.77	329 iPc	29 18.70	MNG	50.86	141 eP	29 58.30	KLU	88.57	28 P	33 51.50	1.4		
	0.9s	170.00nm		TUZ	50.88	150 eP	29 58.90	TOA	88.58	27 eP	33 52.50	2.4		
	N 15s	2.25um	6.0mb	HBZ	51.14	136 eP	30 00.80	BALM	90.19	29 eP	33 58.20	0.4		
	E 14s	2.74um			0.6s	131.00nm		INK	94.58	22 eP	34 18.00	0.3		
		pP	29 26.50	PUZ	51.34	137 eP	30 02.00	NVL	96.24	196 ePc	34 36.00	10.7X		
		S	35 59.00	NOZ	51.46	137 eP	30 03.10			e	35	04.00	105kmX	
		sS	36 19.00	SHL	51.71	308 eP	30 04.50			e	40	23.00		
CD2	46.40	322 iPc	29 24.00			eS	37 24.00			e	47	12.00		
	Z 20s	5.10um	5.5Msz	LSA	54.34	312 P	30 25.00			e	47	28.00		
	E 18s	4.11um				iS	38 03.00			e	48	36.00		
		S	36 10.00	GTA	54.64	326 iPc	30 27.70			e	49	38.00		
TIY	47.13	335 iPc	29 30.00		0.8s	51.00nm				e	56	09.00		
	1.1s	270.00nm			Z 22s	3.69um				e	56	44.00		
	Z 20s	5.75um	5.5Msz		E 15s	2.74um				e	59	30.00		
	N 15s	2.72um				pP	30 36.00	MBC	97.98	13 eP	34 34.00	0.9		
		sP	29 45.00			sP	30 42.00		1.3s	37.00nm		5.8mb		
		S	36 22.00			ScP	35 29.40	OBN	98.72	325 eP	34 38.00	1.3		
HOQJ	47.24	8 P	29 33.80			S	38 07.00		1.2s	*****nm		8.7mb X		
SNY	47.37	348 Pc	29 30.00			ScS	40 15.00		Z 20s	2.20um		5.7Msz		
	1.6s	55.00nm		GUN	57.55	307 P	30 48.60	ORV	102.99	51 ePdiff	35 00.00	3.7X		
	Z 30s	6.82um	5.4MszX	PKI	57.78	307 P	30 49.60	ARN	103.14	53 Pdfff	34 59.30	2.2		
	N 15s	4.34um		KKN	57.98	307 P	30 51.00	CMB	103.99	52 ePdiff	35 04.00	3.1X		

17d 05h

	1.0s	12.50nm	5.7mb
TNP	106.47	52 Pdfff	35 10.80 -1.3
COY	107.76	57 e(PKP)	39 38.10 12.5X
HFS	109.26	333 ePdfff	35 23.50 -0.2
	1.7s	95.70nm	
SPC	109.69	321 e(PKP)	39 12.30 -16.7X
NB2	109.93	335 Pdfff	35 26.30 -0.4
	1.1s	5.90nm	
BW06	111.35	46 e(PKP)	39 34.00 1.6
ZST	111.97	321 e(PKP)	39 35.10 2.0
BRG	112.95	324 iPKP	39 44.00 9.2X
KHC	113.84	322 PKP	39 33.40 -3.3X
		e	39 43.60
		e	40 30.00
VBV	114.05	318 e(PKP)	39 37.60 0.4
LJU	114.34	319 ePKP	39 40.80 3.0X
CEY	114.52	319 e(PKP)	39 41.00 2.9X
RSSD	114.82	43 ePKPc	39 40.50 1.5
	Z 22s	4.76um	6.1Msz
GOL	115.20	48 ePKP	39 39.80 -0.2
	Z 22s	2.94um	5.8Msz
GLD	115.29	48 PKP	39 39.90 -0.1
ALQ	115.55	53 ePKP	39 41.00 0.3
	Z 20s	1.42um	5.6Msz
ANMO	115.55	53 ePKP	39 41.60 0.9
	Z 22s	2.78um	5.8Msz
WTTA	115.75	321 ePKP	39 40.00 -0.7
	1.1s	20.90nm	
		i	39 43.30
		i	40 20.00
ARV	116.28	317 PKP	39 44.90 3.3X
SFI	116.87	318 PKP	39 46.30 3.7X
VAI	118.13	321 PKP	39 44.60 -0.3
BSF	118.48	323 ePKP	39 44.80 -0.9
	1.0s	14.00nm	
LPG	119.56	321 ePKP	39 47.90 -0.2
	0.8s	9.40nm	
LPL	119.57	321 ePKP	39 47.70 -0.3
	0.8s	10.75nm	
LOR	120.49	324 ePKP	39 49.20 -0.2
	1.0s	6.00nm	
	Z 20s	1.05um	5.5Msz
LBF	120.56	323 ePKP	39 49.10 -0.5
	1.0s	8.00nm	
LMR	120.67	319 ePKP	39 51.00 1.2
	1.2s	14.90nm	
SSF	120.80	324 ePKP	39 50.00 0.0
	1.2s	22.30nm	
MAF	121.79	323 ePKP	39 51.80 -0.1
	1.1s	12.20nm	
TCF	121.96	323 ePKP	39 52.20 -0.1
	1.1s	22.00nm	
LSF	122.39	324 ePKP	39 52.50 -0.6
	1.0s	14.00nm	
CAF	122.75	322 ePKP	39 54.10 0.3
	1.2s	19.35nm	
SIO	123.26	50 ePKP	39 57.80 2.8X
LPO	123.41	322 ePKP	39 55.20 0.1
	1.2s	35.70nm	
TUL	123.59	49 ePKP	39 58.30 2.6X
	0.6s	5.60nm	
	Z 20s	1.54um	5.7Msz
		LR	19 00.30
VVO	123.84	50 ePKP	39 59.80 3.6X
FVM	126.67	45 PKP	40 02.40 0.8
TKL	132.46	44 PKP	40 16.30 3.6X
CVL	134.62	38 PKP	40 18.90 2.2
LPA	138.83	163 ePKP+	40 22.00 -2.7
	Z 20s	9.93um	6.6Msz
KIC	140.26	274 PKP	40 21.10 -6.8X
LIC	140.55	274 PKP	40 21.14 -7.3X
NNA	144.01	117 iPKPc	40 36.00 1.5
	1.2s	62.50nm	
UPA	145.06	81 iPKPc	40 34.90 -1.3
	1.0s	80.00nm	
ARE	146.23	129 ePKP	40 41.00 2.5X
CUMC	146.61	95 ePKPc	40 41.54 2.0
ANCC	147.82	91 ePKPc	40 42.56 1.7
HOQC	148.05	91 ePKP	40 41.48 0.0
CLMC	148.14	90 ePKP	40 44.79 3.3X
PURC	148.25	93 ePKPc	40 45.46 3.3X
BUGC	148.45	90 ePKPc	40 44.16 2.2
HOBC	148.58	89 iPKPc	40 43.98 1.8
CNCB	148.66	133 PKP	40 47.00 4.3X
LPB	148.75	133 PKP	40 47.00 4.3X
	1.0s	170.00nm	
	Z 22s	2.22um	5.9Msz

	LR	31 20.00
BOG	150.65	89 e(PKP) 40 52.00 6.4X
BMG	151.59	84 ePKP 40 49.00 2.3
VAO	152.55	175 ePKP 40 58.60 10.8X
PPD	152.81	166 ePKP 40 55.90 7.8X
		e 40 58.50
		e 41 17.10
BMA	152.94	181 (PKP) 41 01.00 12.7X
SDV	153.82	79 ePKP 40 51.50 1.6
TOV	154.50	77 ePKP 40 54.90 4.3X
PDCR	162.20	198 (PKP) 41 07.00 7.5X
		e 42 02.70
SOB1	165.86	195 ePKP 41 06.00 3.1X
	S.D. = 1.2	on 165 of 212 obs.
OCT 17, 1991 05h 35m 27.32s		
60.103 N 152.932 W		
DEPTH = 110.6km		
SOUTHERN ALASKA		
<AEIC>.		
INE	0.08	237 eP 35 42.11 0.7
		eS 35 53.49
INW	0.11	251 ePc 35 41.99 0.6
		eS 35 53.61
RED	0.33	14 ePc 35 42.66 -1.0
		eS 35 54.35
RS1	0.37	14 iPc 35 43.17 -0.8
		eS 35 55.34
RSO	0.37	14 iPc 35 43.16 -0.8
		eS 35 55.79
RS2	0.37	13 iPc 35 43.22 -0.8
		iS 35 55.91
RDW	0.39	9 iPc 35 43.14 -0.9
		eS 35 55.49
REF	0.40	16 iPc 35 43.35 -0.8
RDN	0.42	11 iPc 35 43.41 -0.7
		eS 35 55.25
NCT	0.46	0 iPc 35 43.62 -0.7
		eS 35 55.70
OPT	0.48	199 eP 35 43.78 -0.6
		iS 35 56.30
RDT	0.54	29 iPc 35 43.97 -0.9
		eS 35 56.45
PDB	0.71	244 iPd 35 45.27 -0.8
		eS 35 58.71
HOM	0.79	124 iPd 35 46.32 -0.4
		eS 36 01.07
NNL	0.82	94 eP 35 47.15 0.1
XLV	0.89	136 ePd 35 46.61 -1.2
		eS 36 01.92
CNPM	1.03	123 iPd 35 48.44 -0.8
		iS 36 04.66
NKA	1.06	52 iPc 35 50.38 1.0
CKL	1.14	15 iPc 35 49.99 -0.4
SPU	1.17	21 iPc 35 50.04 -0.7
BGL	1.19	13 iPc 35 50.85 -0.2
CRP	1.23	18 iPc 35 51.19 -0.3
CDD	1.23	197 eP 35 49.87 -1.5
CGLM	1.29	20 iPc 35 51.73 -0.4
NCG	1.36	16 ePc 35 52.59 -0.4
SLKM	1.41	72 eP 35 52.27 -1.2
		eS 36 11.53
SYI	1.52	169 eP 35 54.04 -0.7
		S 36 13.49
SVW	1.67	308 iPd 35 55.61 -1.0
SUA	1.74	37 iPc 35 57.24 -0.4
		eS 36 19.74
SEW	1.74	88 eP 35 55.86 -1.7
SKT	2.00	19 iPc 36 00.20 -0.7
		eS 36 24.23
PMS	2.02	54 ePc 36 00.33 -0.7
		eS 36 25.38
PWA	2.15	43 eP 36 03.06 0.3
		eS 36 29.03
KDC	2.37	174 eP 36 03.67 -2.0
		eS 36 31.06
PLRM	2.39	50 eP 36 04.35 -1.5
		eS 36 31.73
LTI	2.55	89 ePc 36 06.11 -1.9
		eS 36 36.32
KNK	2.56	57 ePc 36 06.39 -1.8
		eS 36 36.39
GHO	2.58	48 eP 36 06.84 -1.6
		eS 36 38.02
KNIM	2.60	82 iPc 36 06.22 -2.5
		iS 36 35.92

	CUT	2.64	28 eP	36 08.83 -0.4
			eS	36 40.15
MTU	2.65	90 iPc	36 07.92 -1.5	
		eS	36 38.41	
SML	2.82	51 ePc	36 09.96 -1.7	
GLI	2.99	72 eP	36 10.89 -3.1	
SCM	3.24	55 eP	36 15.62 -1.7	
FID	3.26	76 ePc	36 14.16 -3.5	
VZW	3.29	70 eP	36 15.17 -2.8	
VLZ	3.41	70 eP	36 17.03 -2.5	
TRF	3.59	19 eP	36 21.05 -1.1	
CVA	3.60	80 eP	36 20.35 -1.8	
KLU	3.71	65 ePc	36 21.35 -2.4	
RND	3.84	29 eP	36 24.47 -1.0	
TOA	3.85	56 eP	36 24.36 -1.2	
MCK	4.10	26 eP	36 25.97 -3.1	
SDG	4.31	52 eP	36 30.48 -1.4	
PAX	4.59	48 eP	36 34.38 -1.3	
GLB	4.67	69 eP	36 34.01 -2.8	
CROM	4.90	78 eP	36 38.50 -1.6	
WRH	4.93	25 eP	36 38.63 -1.7	
TGL	5.05	78 eP	36 40.12 -2.0	
HDA	5.14	30 eP	36 41.52 -1.7	
CCB	5.15	25 eP	36 41.44 -1.8	
61 obs. associated				
? OCT 17, 1991 05h 42m 48.97±3.03s				
2.114 N ±17.1km 76.086 W ±31.4km				
DEPTH = 33.0km (normal)				
COLOMBIA (103)				
MD 4.5 (UVC).				
PURC	0.34	307 iPd	42 56.49 -1.3	
		eS	43 04.70	
HOQC	1.45	338 iPc	43 13.76 0.3	
		eS	43 34.90	
ANCC	1.60	331 eP	43 16.44 1.2	
		eS	43 39.60	
BUGC	1.78	354 eP	43 18.22 0.2	
CLMC	1.82	345 eP	43 18.71 0.1	
		eS	43 43.50	
CUMC	2.12	237 iPc	43 23.57 0.3	
		eS	43 52.20	
HOBC	2.23	359 ePd	43 23.62 -0.8	
	S.D. = 1.0	on 7 of 7 obs.		
OCT 17, 1991 09h 05m 20.23±0.12s				
15.300 S ±3.9km 173.556 W ±4.2km				
DEPTH = 35.5km (geophysicist)				
5.6mb (52 obs.) 6.1Msz (19 obs.)				
TONGA ISLANDS (173)				
Ms 6.2 (BRK). Mo=8.0*10**17 Nm				
(PPT). Felt strongly at Apio.				
Depth from broadband				
displacement seismograms.				
FAULT PLANE SOLUTION: P-Waves				
NP1:Strike=285 Dip=77 Slip= 90				
NP2: 105 13 90				
Principal Axes:				
T Plg=58 Azm=195				
P 32 15				
Comment: The focal mechanism is				
poorly controlled and				
corresponds to reverse				
faulting. The preferred fault				
plane is NP2.				
RADIATED ENERGY				
No. of sta: 12 Focal mech. M				
Energy 6.7±1.9*10**12 Nm				
MOMENT TENSOR SOLUTION				
Dep 40 No. of sta: 18				
Moment Tensor; Scale 10**18 Nm				
Mrr=0.53 Mtt=-0.43				
Mff=-0.10 Mrt=-1.56				
Mrf=0.26 Mtf=0.26				
Principal axes:				
T Vol= 1.68 Plg=54 Azm=183				
N -0.01 6 282				
P -1.67 36 16				
Best Double Couple:Ma=1.7*10**18				
NP1:Strike=135 Dip=11 Slip= 124				
NP2: 281 81 84				
CENTROID, MOMENT TENSOR (HRV)				
Data Used: GDSN				
L.P.B.: 245, 65C				
Centroid Location:				
Origin Time 09:05:28.4 0.2				

Lat 14.835 0.02 Lon 173.41W 0.02	HON	39.46	23 P	12 48.70	-0.3	SBB	72.59	46 iPd	16 45.00	-1.2
Dep 62.1 2.7 Holf-duration 4.1	OPA	39.80	23 P	12 52.00	0.2	PEC	72.62	47 ePc	16 44.80	-1.5
Moment Tensor: Scale 10**18 Nm	CMS	40.35	239 iPc	12 55.00	-1.4	FRI	72.62	43 iPd	16 45.26	-0.9
Mrr=-0.08 0.02 Mtt= 0.21 0.03		1.0s	110.00nm		5.6mb	ISA	72.69	44 ePd	16 46.57	-0.1
Mff=-0.13 0.03 Mrt=-1.25 0.03			i	13 16.20				esPc	17 02.13	
Mrf= 0.18 0.02 Mtf= 0.09 0.02	TOO	42.41	231 eP	13 12.00	-1.3			iS	26 11.35	
Principal Axes:		1.0s	167.00nm		5.7mb			i	26 51.35	
T Val= 1.32 Plg=42 Azm=183			i	13 26.00		CMB	72.79	41 ePd	16 46.86	-0.4
N -0.10 6 278	BFD	44.51	232 ePc	13 27.00	-3.2X			epPd	16 56.79	32kmX
P -1.23 47 15		1.0s	76.00nm		5.5mb			esPc	17 02.09	
Best Double Couple:Mo=1.3*10**18			i	13 44.50		PFO	72.96	47 ePd	16 48.41	-0.1
NP1:Strike=214 Dip= 7 Slip=-155	OIS	44.75	256 eP	13 30.00	-2.4			epPd	16 57.68	30kmX
NP2: 99 87 -84		1.2s	56.00nm		5.3mb			esPc	17 04.14	
	ADE	46.95	236 iPc	13 48.50	-1.2	WDC	72.99	38 iPd	16 47.04	-1.3
AFI 2.21 51 ePc 05 49.70 -5.6X		1.1s	273.42nm		6.2mb	ORV	73.00	40 eP	16 47.52	-0.8
API 2.28 50 iP 05 52.00 -4.2X	WR2	49.70	257 eP	14 07.50	-3.7X	CLC	73.36	45 iPc	16 50.00	-0.7
SVA 8.15 249 ePd 07 26.20 7.1X		0.7s	43.90nm		5.6mb	CWC	73.38	44 eP	16 49.00	-1.9
SGE 8.49 253 eP 07 32.20 8.3X	WRA	49.72	257 P	14 08.00	-3.3X	MIN	73.41	39 eP	16 50.05	-0.9
NDF 8.96 253 eP 07 34.00 3.6X		0.3s	26.70nm		5.7mb	GSC	73.63	45 eP	16 50.00	-2.2
RAR 14.35 116 P 08 41.00 -1.9	GUA	50.09	303 eP	14 13.50	-0.7	GLA	73.84	48 eP	16 53.00	-0.4
		1.0s	160.00nm		6.0mb	LBFM	73.85	38 P	16 52.80	-0.8
PVC 17.55 260 iPc 09 31.50 7.6X	GUMO	50.15	303 eP	14 13.00	-1.7	BONR	74.09	42 P	16 54.10	-1.0
BKM 17.61 260 iP 09 33.50 8.8X			eS	21 28.00		KDC	74.84	12 P	16 57.80	-0.8
DZM 20.10 247 iPd 09 53.30 -0.6	GUMO	50.15	303 ePd	14 17.50	2.8X	KVN	74.84	42 P	16 58.50	-0.8
			iS	21 22.26		TNP	74.87	43 P	16 58.20	-1.3
AFR 22.91 99 eP 10 25.00 2.8X			iS	21 45.43		COR	75.08	35 ePd	17 00.24	0.0
1.3s 125.00nm 5.2mb			eScS	24 12.34				esPc	17 14.64	
PAE 23.11 99 eP 10 26.40 2.3X	PJG	50.15	303 eP	14 13.60	-1.1			iS	26 37.25	
1.3s 125.00nm 5.2mb	MTN	53.59	265 eP	14 38.00	-2.5			e	27 37.01	
PPT 23.11 99 iP 10 26.70 2.6X	KNA	55.42	261 eP	14 51.50	-2.4	BMW	76.34	33 P	17 06.20	-1.3
1.3s 235.00nm 5.5mb	WARB	56.55	249 eP	15 00.00	-2.0	GMW	77.26	33 P	17 12.00	-0.5
WCZ 23.23 206 P 10 27.40 2.2		0.5s	26.00nm		5.5mb	LON	77.26	34 ePd	17 11.58	-1.1
HBZ 23.35 196 eP 10 28.00 1.7	DRV	59.64	200 eP	15 22.80	-0.1			iS	17 27.47	
KUZ 23.40 202 eP 10 28.20 1.4	MBL	63.15	254 eP	15 45.40	-1.9	OZH	77.27	300 eP	17 15.00	2.0
TVO 23.43 99 iP 10 29.90 2.6X	KLB	64.15	242 eP	15 54.00	0.3	Z	36s	4.40um	5.5MsZ	
1.3s 250.00nm 5.6mb	NWAO	64.54	241 ePc	15 54.88	-1.4	RSO	77.34	10 eP	17 10.30	-2.6
PUZ 23.81 196 eP 10 33.50 2.7X		Z 20s	7.10um		5.9MsZ	PGC	77.63	31 eP	17 15.00	0.5
TBI 24.08 113 iP 10 23.40 -10.1X		N 20s	2.70um			SSE	77.78	307 P	17 17.50	1.8
0.9s 130.00nm		E 20s	7.00um				Z 20s	1.70um	5.4MsZ	
URZ 24.31 198 eP 10 34.20 -1.4			ec	16 06.80			N 16s	0.70um		
NOZ 24.38 196 eP 10 38.20 1.9			e	24 40.00			E 16s	0.70um		
PMO 24.77 93 iP 10 42.20 2.0	RKG	64.67	239 eP	15 56.00	-1.1	MSU	78.46	45 iP	17 26.00	27kmX
1.3s 550.00nm 6.0mb	KAKJ	67.34	321 eP	16 14.10	0.2	TP1	78.47	270 eP	17 23.00	3.1X
VAH 25.01 93 iP 10 44.00 1.5	CHJ	67.96	320 eP	16 17.50	-0.4			e	18 30.00	
1.3s 290.00nm 5.7mb	IIDJ	68.28	319 eP	16 17.50	-2.5	SIT	78.78	20 eP	17 21.30	0.7
TPT 25.03 93 iP 10 44.50 1.7	OFUJ	68.37	324 P	16 20.10	-0.3	MDJ	78.85	322 eP	17 22.40	1.1
1.3s 440.00nm 5.9mb	SMY	68.58	352 P	16 30.00	8.6X		1.1s	80.00nm	5.6mb	
RUV 25.25 93 iP 10 46.20 1.4		Z 20s	10.00um		6.0MsZ		Z 34s	10.90um	6.0MsZ	
1.3s 330.00nm 5.8mb	YAMJ	68.71	322 P	16 23.40	0.9		N 22s	7.35um		
MOZ 25.29 202 eP 10 46.60 1.6	NIJ	68.72	321 eP	16 22.40	-0.2		E 22s	7.74um		
NGZ 25.62 200 eP 10 48.90 0.6	MAT	68.76	320 eP	16 21.00	-1.9			pP	17 28.00	18kmX
CNZ 25.66 200 eP 10 49.30 0.7		1.2s	89.06nm		5.7mb			sP	17 33.00	
RUZ 25.66 200 eP 10 48.00 -0.5	MTMJ	69.04	320 eP	16 24.70	0.0			S	27 20.00	
PGZ 26.74 197 P 10 58.40 0.1	TSRJ	69.55	318 eP	16 25.30	-2.4	PMR	79.05	12 eP	17 21.30	-0.7
MNG 26.97 199 eP 11 00.40 -0.1	SYP	71.03	45 eP	16 36.00	-0.9		1.2s	148.10nm	5.8mb	
0.6s 51.00nm 5.3mb	PRS	71.15	42 ePd	16 37.06	-0.4	TTA	79.18	8 eP	17 22.80	0.0
MTW 27.46 198 eP 11 04.00 -1.0	SBC	71.16	45 ePd	16 36.27	-1.3	KLU	79.63	13 P	17 23.00	-2.3
WDW 27.72 199 eP 11 06.70 -0.6			ic	16 53.32		NJ2	79.98	307 P	17 28.50	0.8
WEL 27.80 199 (P) 11 07.50 -0.5			iS	25 53.91			1.2s	46.00nm	5.3mb	
THZ 28.85 201 eP 11 17.00 -0.6			e	26 14.88			Z 28s	1.89um	5.3MsZ	
KHZ 29.22 200 eP 11 19.00 -1.8			eScS	26 43.58			N 11s	1.01um		
0.6s 77.00nm 5.6mb	GCC	71.16	41 eP	16 37.16	-0.3		E 15s	0.61um		
EWZ 31.11 202 P 11 36.10 -1.5	PCC	71.20	41 iPc	16 37.66	0.0	PNT	80.01	32 ePc	17 26.00	-1.5
BWZ 32.35 202 P 11 46.20 -2.1	SDN	71.23	8 P	16 34.00	-3.5X		0.8s	48.00nm	5.5mb	
MSCZ 33.00 202 eP 11 52.50 -1.6	BCH	71.33	44 P	16 38.10	-0.6	DAU	80.03	43 P	17 27.80	-0.4
MHZ 33.02 203 P 11 52.60 -1.8	ASAJ	71.35	328 eP	16 40.30	1.8	BALM	80.06	15 ePc	17 23.70	-4.0X
TLC 33.21 203 eP 11 54.80 -1.3	SAO	71.36	42 iPd	16 38.37	-0.3	TOA	80.12	13 eP	17 27.40	-0.5
BRS 33.48 243 eP 11 58.00 -0.5	PHAM	71.50	43 P	16 39.00	-0.6	HPI	80.53	40 eP	17 30.00	-0.8
	PRI	71.50	43 eP	16 39.83	0.1	PV09	80.54	46 P	17 30.70	-0.3
	BRK	71.51	41 eP	16 38.00	-1.5			e	17 33.80	
TUZ 33.66 201 eP 11 58.60 -1.2		Z 20s	15.00um		6.3MsZ	PTI	80.55	41 P	17 27.80	-2.9
BCZ 34.36 203 eP 12 05.60 -0.2			eS	26 02.00		ALO	80.85	50 ePc	17 31.00	-1.5
SIZ 34.99 202 eP 12 10.10 -1.0			eLR	37 32.00			1.1s	81.65nm	5.6mb	
COO 35.10 238 iPd 12 13.80 1.4	ZSP	71.55	41 eP	16 40.11	0.3		Z 22s	9.07um	6.1MsZ	
0.6s 44.00nm 5.6mb	MHC	71.58	41 iPd	16 39.35	-0.8	ANMO	80.85	50 iPd	17 33.59	1.1
RMO 36.80 246 iPd 12 26.00 -0.8	LLA	71.60	42 eP	16 40.30	0.1		0.9s	59.87nm	5.6mb	
0.6s 28.00nm 5.3mb	ARN	71.65	41 P	16 40.00	-0.5		Z 20s	6.38um	6.0MsZ	
CTAO 38.52 257 ePc 12 38.77 -2.5	ABL	71.73	45 P	16 40.00	-1.2			epPd	17 43.85	33kmX
	FOX	72.10	38 iPd	16 43.68	0.7			iS	27 40.26	
	MWC	72.17	46 eP	16 43.00	-0.9			e	27 57.31	
	BAG	72.24	293 eP+	16 43.00	-1.5			e	28 01.62	
CNB 38.69 232 eP 12 41.00 -1.7	FHC	72.28	37 iPd	16 43.89	-0.3	ANMO	80.85	50 ePc	17 30.50	-2.0
1.4s 260.00nm 5.8mb	BAR	72.32	48 eP	16 44.00	-0.6		0.9s	59.87nm	5.6mb	
PMG 38.78 274 eP 12 45.00 1.5	TRT	72.45	267 ePc	16 47.50	1.9		Z 20s	6.38um	6.0MsZ	
CAN 38.97 232 eP 12 43.50 -1.5	RVR	72.52	46 eP	16 45.00	-0.7					
BWA 39.11 234 eP 12 42.80 -3.3X	PLM	72.54	47 eP	16 44.00	-2.1					

			i	25	09.97		SMF	148.67	3 ePKP	25	01.90	0.4	ROB	151.07	358 PKP	25	10.56	5.3X
ISR	145.76	334	ePKPc	24	57.00	0.1		1.2s	59.50nm				SFI	151.10	352 PKP	25	06.80	1.6
KHC	145.76	352	PKP	24	57.40	0.6	BGF	148.69	5 ePKP	25	01.70	0.2	BDI	151.12	354 PKP	25	06.40	1.1
	1.3s	156.80nm						1.2s	78.85nm				STV	151.14	359 PKP	25	11.07	5.7X
Z	22s	5.40um		6.3Msz			VOY	148.73	350 ePKP	25	01.90	0.2	FIN	151.15	357 PKP	25	10.25	4.9X
N	22s	3.00um							i	25	05.50		ENR	151.16	359 PKP	25	11.48	6.1X
E	22s	2.30um					VDL	148.81	356 ePKPd	25	02.80	0.8	PAIG	151.21	332 ePKPc	25	09.64	4.2X
			i	25	10.00		MFT	148.81	329 ePKP	25	02.60	0.6	ULC	151.22	340 ePKP	25	06.06	0.6
			e	25	19.00		EDC	148.84	327 iPKP	25	04.50	2.6X	ARV	151.35	350 PKP	25	06.90	1.3
NAI	145.76	244	iPKPd	24	58.50	0.5	TCF	148.90	6 ePKP	25	02.00	0.1	LACI	151.36	339 ePKP	25	06.00	0.4
WET	145.84	352	iPKPd	24	59.20	2.3		1.3s	72.20nm				CRE	151.38	352 PKP	25	11.80	6.0X
ZST	146.04	347	ePKP	24	57.80	0.6	CEY	148.92	349 ePKP	25	02.30	0.4	OHR	151.42	337 iPKP	25	06.10	0.2
			i	24	58.90				i	25	06.90			1.3s	188.00nm			
			i	25	11.40		DST	148.96	326 iPKP	25	05.50	3.3X			i	25	11.50	
SRO	146.12	346	iPKP	24	59.10	1.8	VBY	148.99	348 ePKP	25	02.60	0.6			i	25	20.90	
			i	25	11.10				i	25	08.80		IMI	151.46	358 PKP	25	11.69	5.8X
FLN	146.15	8 ePKP	24	57.00	-0.3		MAF	149.00	5 ePKP	25	02.60	0.6	FNA	151.48	336 ePKPc	25	11.36	5.4X
	0.8s	44.35nm					VVI	149.00	352 PKP	25	06.59	4.6X	TIR	151.56	338 ePKP	25	11.50	5.5X
Z	20s	11.75um		6.7Msz			DSI	149.03	307 ePKP	25	01.40	-1.1	MADF	151.56	11 PKP	25	12.12	6.1X
TNR	146.23	337 ePKPd	24	58.00	0.4		CTI	149.04	353 PKP	25	03.20	1.0	LIT	151.59	334 ePKPc	25	11.36	5.2X
BUD	146.25	345 iPKP	24	57.20	-0.3		TRI	149.07	350 iPKPc	25	02.40	0.3	OGE	151.60	11 PKP	25	13.51	7.5X
CMP	146.26	336 ePKPc	24	58.00	0.3				i	25	18.50		ATE	151.64	11 PKP	25	13.81	7.7X
LDF	146.36	8 ePKP	24	58.10	0.4		AGO	149.22	5 PKP	25	03.68	1.3	ISSF	151.68	11 PKP	25	14.57	8.3X
	1.2s	53.55nm					TMA	149.22	357 ePKPd	25	01.90	-0.7	BTH	151.69	10 PKPd	25	08.00	1.9
GWF	146.40	359 PKP	25	00.12	2.3		DIX	149.30	359 ePKPd	25	04.30	1.5			i	25	12.80	
ANTO	146.40	322 ePKPc	24	58.03	-0.1		RIY	149.31	349 ePKP	25	02.00	-0.4			iPKP	25	14.00	
		ed	25	11.77			MMK	149.32	358 ePKPd	25	04.20	1.4			pPKP	25	24.80	
BBTK	146.44	322 ePKP	25	00.00	1.7		EMS	149.32	359 ePKPd	25	05.20	2.5X			i	25	31.20	
GRR	146.46	9 ePKP	24	58.10	0.3		ALN	149.33	330 ePKPc	25	03.64	1.0			e	25	36.00	
	1.0s	56.00nm					KHL	149.34	323 ePKP	25	04.70	1.8			i	25	40.00	
BUC	146.53	334 ePKP	25	01.00	3.0X		VAI	149.47	357 PKP	25	03.50	0.9			e	25	55.00	
BUC1	146.61	334 ePKP	25	00.00	1.8		SAL	149.59	354 PKP	25	07.59	4.7X	CDR	151.71	1 ePKPd	25	12.40	6.2X
KMR	146.72	351 iPKP+	25	02.00	3.7X			0.8s	416.60nm					e	25	25.10		
		iPKP	25	13.60			SAL	149.59	354 PKP	25	04.50	1.7	JAU	151.75	11 PKP	25	14.61	8.2X
LPF	146.78	9 ePKP	24	59.20	0.9		RSL	149.71	360 PKP	25	04.44	1.2	ASS	151.82	350 PKP	25	09.70	3.3X
	1.0s	130.00nm					ORO	149.74	358 PKP	25	07.40	4.1X	LHE	151.82	11 PKP	25	14.74	8.3X
CDF	146.97	359 PKP	24	59.45	0.6		COLF	149.79	4 PKP	25	04.08	0.8	EPF	151.87	10 ePKP	25	06.00	-0.5
FUR	146.99	354 iPKPc	25	01.20	2.5X		RJF	149.80	7 ePKP	25	03.70	0.5		1.4s	39.20nm			
	0.9s	148.00nm						1.2s	77.35nm				COI	152.00	25 e(PKP)	25	25.00	18.3X
		i	25	13.80			LPL	149.88	360 ePKP	25	04.60	1.0	LESF	152.01	8 PKP	25	14.34	7.7X
ECH	147.17	359 PKP	24	59.72	0.7		LPG	149.90	360 ePKP	25	04.90	1.1	MLS	152.06	8 PKP	25	14.47	7.8X
VITF	147.17	1 PKP	24	58.81	-0.2		LSD	149.93	359 PKP	25	09.53	5.8X	MTE	152.18	23 ePKP	25	09.00	2.0
UZD	147.19	344 iPKP	25	01.00	1.9		PLE	149.95	341 iPKPc	25	04.68	1.0			i	25	28.00	
BHG	147.24	352 ePKP	25	01.10	2.0		EZN	150.01	328 ePKP	25	04.60	0.9	AQU	152.38	349 PKP	25	15.36	8.1X
HAU	147.39	0 ePKP	25	01.70	2.3		LBL	150.04	5 PKP	25	05.66	2.0		0.1s	10.30nm			
	1.2s	148.75nm					LFF	150.06	8 ePKP	25	03.90	0.3	MNS	152.48	350 PKP	25	07.74	0.4
Z	20s	3.75um		6.2Msz				1.2s	83.30nm					0.3s	10.60nm			
FEL	147.49	358 PKP	24	59.95	0.3		SSB	150.07	3 PKP	25	04.37	0.7	KOT	152.50	306 ePKP	25	20.00	12.3X
MOF	147.54	359 PKP	25	01.28	1.6		MBH	150.15	304 ePKP	25	04.10	-0.2	AGG	152.55	332 ePKPc	25	13.20	5.7X
HRT	147.54	326 iPKP	25	02.60	2.7X		IVA	150.20	340 iPKPc	25	04.82	0.8	AZI	152.73	349 PKP	25	15.64	8.1X
GPA	147.56	325 iPKP	25	02.20	2.3		CAF	150.24	6 ePKP	25	03.03	-0.9		0.2s	8.30nm			
BSF	147.56	360 PKP	25	00.54	0.8			1.2s	65.45nm				DUI	152.83	347 PKP	25	09.81	1.9
SLE	147.58	357 ePKPd	25	00.10	0.4		SRS	150.28	333 ePKPc	25	08.08	4.0X		1.4s	155.90nm			
ISK	147.69	327 ePKP	25	03.00	3.0X		BNI	150.34	360 PKP	25	05.50	1.3	BRT	152.85	342 PKP	25	09.20	1.3
BHL	147.79	310 PKP	25	03.00	2.4X		LPO	150.37	8 ePKP	25	03.40	-0.7	SDI	152.93	348 PKP	25	09.32	1.3
KBA	147.80	351 iPKPc	24	59.40	-0.9			1.2s	65.45nm					1.2s	104.50nm			
	1.0s	85.30nm					PVY	150.42	340 iPKPc	25	05.06	0.7	IGT	152.96	336 ePKPc	25	15.56	7.5X
		i	25	02.90			SKO	150.44	337 ePKP	25	06.00	1.7	RDP	153.08	350 PKP	25	17.00	8.8X
		i	25	14.40				1.4s	353.00nm					0.3s	32.40nm			
AAE	147.82	263 ePKP	25	11.00	9.6X		Z	22s	3.22um		6.1Msz		LCI	153.11	340 PKP	25	16.45	8.3X
WTTA	147.84	353 iPKPc	25	00.00	-0.3		N	20s	2.22um				SGO	153.68	345 PKP	25	10.53	1.6
	1.4s	210.00nm					E	20s	3.09um					1.1s	35.50nm			
		i	25	03.70					i	25	09.20		TOL	153.85	19 ePKP	25	11.00	1.7
		i	25	15.30					i	25	22.80				iPKP	25	31.50	
		i	25	38.50					i	25	26.40				iPP	29	20.00	
ZLA	147.87	358 ePKPd	25	02.00	1.8				i	28	57.50				ePPS	41	46.00	
YLV	147.88	326 ePKP	25	03.60	3.1X	RRL	150.47	360 PKP	25	10.25	5.7X	TOL	153.85	19 ePKP	25	02.14	-7.2X	
BBS	147.92	359 PKP	25	01.19	0.9	BOB	150.52	356 PKP	25	10.70	6.3X			ec	25	27.31		
GRC	147.98	4 PKP	25	01.91	1.6	NKY	150.54	341 iPKPc	25	05.44	0.9	MGR	154.01	344 PKP	25	08.96	-0.5	
IZI	147.99	326 ePKP	25	03.00	2.3	KNT	150.54	334 ePKPc	25	08.72	4.2X		1.3s	173.70nm				
HRI	148.02	309 ePKP	24	59.30	-1.7	8HB	150.55	359 PKP	25	09.02	4.6X	AVE	158.12	33 iPKP	25	17.50	2.5X	
LOR	148.05	3 ePKP	25	00.60	0.1	IZM	150.57	325 ePKP	25	05.60	0.9			i	25	31.50		
	1.3s	112.80nm				BRY	150.60	342 iPKPc	25	05.20	0.5	LIC	165.57	127 PKP	25	23.04	0.1	
Z	20s	8.50um		6.5Msz		SOH	150.63	333 ePKPc	25	08.48	3.8X		1.0s	39.00nm				
SSF	148.24	4 ePKP	25	01.00	0.3	OUR	150.74	332 ePKPc	25	09.32	4.6X	TIC	165.84	126 PKP	25	23.10	-0.1	
BEQ	148.27	341 ePKP	25	02.50	1.7	PCP	150.80	357 PKP	25	09.64	4.8X		1.0s	36.50nm				
MFF	148.31	9 ePKP	25	01.20	0.3	TTG	150.80	340 iPKPc	25	05.58	0.8	KIC	165.88	128 PKP	25	23.28	0.1	
	1.2s	47.60nm				DOI	150.88	359 PKP	25	10.81	5.8X		0.9s	27.50nm				
LBF	148.34	3 ePKP	25	01.00	0.0			0.1s	3.30nm				S.D. = 1.2	on 327 of 422 obs.				
	1.2s	89.25nm				PZZ	150.88	359 PKP	25	10.46	5.4X							
FVI	148.35	352 PKP	25	03.00	2.1	HVAR	150.92	345 iPKP	25	10.60	5.6X							
LLS	148.45	357 ePKPd	25	01.90	0.5	CKI	150.93	357 PKP	25	10.40	5.5X							
PTJ	148.46	347 ePKP	25	01.80	0.5	MME	150.97	354 PKP	25	12.64	7.3X							
ZAG	148.54	347 iPKP	25	02.60	1.4	RSM	151.01	351 PKP	25	07.50	2.5X							

17d 09h

CHTO 19.90 276 (P) 20 58.20 -2.2
 GUN 32.77 294 P 23 02.20 0.8
 PKI 33.13 293 P 23 05.00 0.6
 KKN 33.28 293 P 23 06.20 0.6
 DMN 33.40 293 P 23 07.20 0.5
 GKN 33.87 294 P 23 11.00 0.3
 WR2 40.22 159 eP 24 04.80 0.8
 0.8s 4.60nm 4.3mb
 FBA 74.93 26 P 28 07.80 0.0
 INK 79.47 21 eP 28 32.00 -1.0
 S.D. = 1.1 on 10 of 10 obs.

? OCT 17, 1991 10h 26m 39.40±6.76s
 15.716 N ±23.0km 60.745 W ±44.9km
 DEPTH = 10.0km (geophysicist)
 LEEWARD ISLANDS (92)
 ML 3.5 (FDF).

MGG 0.59 290 eP 26 52.51 1.3
 S 26 58.30
 DEG 0.67 333 eP 26 53.60 0.9
 S 27 01.20
 SFG 0.69 321 eP 26 53.90 0.9
 BBL 0.73 255 eP 26 54.60 0.8
 PAG 0.95 289 eP 26 57.90 0.3
 S.D. = 0.5 on 5 of 5 obs.

? OCT 17, 1991 11h 02m 57.60±3.92s
 6.210 S ±38.5km 135.326 E ±13.7km
 DEPTH = 33.0km (normal)
 4.1mb (1 obs.)
 ARU ISLANDS REGION, INDONESIA (204)

SLKI 4.37 246 iPc 04 03.00 -0.4
 MTN 7.78 212 eP 04 53.00 1.5
 0.3s 91.00nm 6.3mb X
 eS 06 37.00
 KNA 11.46 214 eP 05 41.50 -0.5
 WR2 13.69 184 iPc 06 11.50 -0.3
 0.4s 7.00nm 4.8mb X
 eS 08 53.90
 OIS 14.85 164 e(P) 06 26.00 -1.1
 eS 09 20.00
 CTAO 17.41 143 iPd 07 00.50 0.8
 1.0s 15.00nm 4.1mb
 i 07 04.10
 WARB 21.52 202 eP 07 46.00 -0.1
 S.D. = 1.1 on 7 of 7 obs.

& OCT 17, 1991 11h 49m 54.65s
 59.243 N 153.493 W
 DEPTH = 100.4km
 SOUTHERN ALASKA (2)
 <AEIC>.

AUI 0.10 20 iPc 50 08.09 0.8
 eS 50 18.58
 AGU 0.12 15 eP 50 08.47 1.0
 AUH 0.12 12 eP 50 08.36 0.9
 AUP 0.13 17 iPc 50 08.35 0.9
 AUW 0.13 5 iPc 50 08.37 1.0
 eS 50 19.10
 AUE 0.13 28 iPc 50 08.33 1.0
 AUL 0.14 12 iPc 50 08.43 1.0
 CDD 0.32 194 iPc 50 08.76 -0.9
 iS 50 20.16
 OPT 0.43 18 iPc 50 09.61 -0.7
 eS 50 21.35
 MCNL 0.44 263 iPc 50 09.23 -1.1
 INW 0.85 12 iPc 50 12.99 -0.9
 iS 50 27.12
 INE 0.85 15 ePc 50 13.01 -1.0
 eS 50 26.90
 SYI 0.85 138 eP 50 13.16 -0.6
 iS 50 26.93
 XLV 0.93 76 ePc 50 13.74 -0.9
 HOM 1.03 65 iPc 50 15.09 -0.6
 eS 50 31.65
 CNPM 1.19 75 iPc 50 16.54 -1.0
 eS 50 33.89
 RED 1.23 17 iPc 50 17.19 -1.0
 iS 50 34.56
 RS1 1.28 17 iPc 50 17.94 -0.8
 eS 50 35.64
 RS2 1.28 17 iPc 50 17.97 -0.9
 eS 50 35.46
 RSO 1.28 17 iPc 50 17.96 -0.9

RDW 1.29 15 iPc 50 18.04 -0.9
 iS 50 36.00
 REF 1.31 17 iPc 50 18.27 -0.9
 eS 50 36.15
 RDN 1.33 16 iPc 50 18.54 -0.8
 eS 50 36.47
 NCT 1.35 12 eP 50 18.95 -0.7
 >NNL 1.37 53 ePc 50 19.66 -0.1
 RDT 1.44 22 iPc 50 19.57 -1.1
 eS 50 38.73
 KDC 1.59 160 ePd 50 20.83 -1.5
 eS 50 40.74
 CKL 2.04 16 iPd 50 27.44 -1.0
 SPU 2.07 20 ePd 50 27.47 -1.3
 SLKM 2.08 51 eP 50 28.00 -0.9
 BGL 2.10 15 ePd 50 28.34 -0.8
 SVW 2.15 331 ePd 50 28.22 -1.6
 CGLM 2.20 19 eP 50 29.30 -1.2
 SEW 2.23 65 eP 50 28.84 -1.8
 NCG 2.27 16 ePd 50 30.39 -1.0
 SUA 2.61 30 iPc 50 35.39 -0.7
 PMS 2.81 43 iPc 50 37.34 -1.2
 SKT 2.91 19 ePd 50 38.62 -1.4
 LTI 2.97 72 eP 50 39.17 -1.6
 KNIM 3.11 67 ePc 50 40.21 -2.5
 PLRM 3.20 41 eP 50 42.20 -1.6
 KNK 3.32 47 eP 50 43.41 -2.1
 GHO 3.40 40 eP 50 44.90 -1.8
 CUT 3.54 25 eP 50 47.31 -1.3
 GLI 3.60 60 ePc 50 46.14 -3.3
 FID 3.83 64 ePc 50 48.95 -3.6
 46 obs. associated

? OCT 17, 1991 12h 24m 47.63±7.35s
 42.740 N ±64.5km 24.315 E ±13.0km
 DEPTH = 5.0km (geophysicist)
 BULGARIA (359)

SRS 1.71 199 ePbd 25 19.12 0.9
 eSb 25 43.40
 KNT 1.90 214 ePnc 25 20.57 -0.4
 eSn 25 48.40
 SOH 2.05 201 ePnd 25 23.00 -0.2
 eSn 25 53.48
 ALN 2.25 144 ePnc 25 26.10 0.0
 GRG 2.28 219 iPnd 25 26.76 0.1
 eSn 25 57.96
 OUR 2.42 186 ePnc 25 27.96 -0.5
 S.D. = 0.6 on 6 of 6 obs.

& OCT 17, 1991 12h 32m 54.82s
 62.752 N 149.181 W
 DEPTH = 74.3km
 CENTRAL ALASKA (1)
 <AEIC>.

HUR 0.31 318 iPc 33 06.53 -0.2
 eS 33 15.27
 CUT 0.61 236 iPd 33 09.18 -0.1
 eS 33 20.07
 RND 0.67 13 iPc 33 09.79 -0.3
 eS 33 20.96
 TRF 0.86 325 iPc 33 12.15 -0.2
 eS 33 25.66
 GHO 0.99 173 ePd 33 13.63 -0.2
 eS 33 28.28
 MCK 0.99 6 iPc 33 13.72 0.0
 eS 33 27.55
 SML 1.03 157 iPd 33 13.90 -0.3
 eS 33 29.26
 KTH 1.13 316 iPc 33 15.65 0.2
 eS 33 31.21
 PWA 1.15 197 iPd 33 16.10 0.4
 PLRM 1.16 179 iPc 33 15.59 -0.3
 iS 33 32.38
 PMR 1.16 179 iPc 33 16.10 0.2
 SCM 1.27 136 iPc 33 16.96 -0.3
 eS 33 35.15
 SKT 1.34 236 iPd 33 18.13 -0.1
 eS 33 36.01
 KNK 1.39 165 ePc 33 18.63 -0.2
 SS 33 38.03
 BWN 1.43 355 ePc 33 18.99 -0.4
 eS 33 37.65
 PMS 1.52 187 iPc 33 20.41 -0.3
 TOA 1.54 114 iPc 33 22.00 1.0

SDG 1.70 96 iPc 33 23.26 0.3
 eS 33 45.79
 THY 1.70 65 eP 33 23.64 0.6
 eS 33 47.11
 PAX 1.72 81 ePc 33 23.68 0.3
 eS 33 45.96
 WRH 1.79 15 iPc 33 23.58 -0.7
 eS 33 45.49
 DDM 1.82 54 eP 33 26.51 1.7
 NEA 1.83 1 iPc 33 23.99 -0.9
 eS 33 45.89
 TZL 1.89 110 ePc 33 25.93 0.3
 HDA 1.94 30 iPc 33 25.72 -0.5
 eS 33 49.09
 NCG 1.95 227 eP 33 26.54 0.0
 eS 33 52.56
 CGLM 1.97 224 ePc 33 27.42 0.6
 KLU 1.99 128 iPc 33 25.95 -1.1
 eS 33 51.50
 CCB 2.00 17 iPc 33 26.22 -0.9
 DJE 2.03 49 eP 33 27.80 0.2
 CRP 2.05 225 eP 33 28.42 0.5
 SPU 2.08 222 ePd 33 28.07 -0.2
 VZW 2.11 143 ePc 33 27.22 -1.4
 VLZ 2.11 139 iPc 33 27.19 -1.4
 eS 33 54.16
 GLI 2.12 151 iPc 33 27.52 -1.3
 eS 33 56.24
 BGL 2.13 227 eP 33 30.18 1.2
 CKL 2.16 225 eP 33 29.36 -0.1
 NKA 2.24 207 iPc 33 34.03 3.6
 FBA 2.24 15 iPc 33 30.40 -0.1
 MDM 2.26 10 iPc 33 29.99 -0.7
 eS 33 55.68
 SLKM 2.31 193 eP 33 31.29 -0.1
 GLM 2.38 19 iPc 33 31.62 -0.8
 eS 33 58.73
 FID 2.39 146 ePc 33 31.11 -1.3
 DOT 2.49 67 ePd 33 33.37 -0.5
 eS 34 05.72
 SEW 2.66 183 eP 33 35.30 -0.9
 RDT 2.67 217 ePd 33 36.42 -0.1
 CVA 2.75 142 ePc 33 36.13 -1.4
 LTI 2.80 166 ePc 33 36.52 -1.6
 RDN 2.82 219 eP 33 38.32 -0.3
 REF 2.83 218 eP 33 38.87 0.1
 GLB 2.85 115 iPc 33 37.88 -1.0
 RDW 2.86 219 eP 33 39.36 0.1
 TTA 3.14 276 ePc 33 42.30 -0.7
 RAGM 3.21 136 eP 33 42.21 -1.7
 HMT 3.38 134 eP 33 44.43 -1.9
 CNPM 3.39 198 eP 33 45.72 -0.7
 CROM 3.50 122 ePc 33 46.77 -1.4
 XLV 3.53 202 eP 33 47.57 -0.8
 TGL 3.62 121 ePc 33 47.72 -2.1
 BALM 3.66 115 iPc 33 48.43 -1.9
 IMA 3.86 332 ePc 33 52.40 -0.7
 CTGM 4.13 112 ePc 33 55.43 -1.5
 YAH 4.29 121 iPc 33 56.96 -2.3
 PCA 5.04 118 eP 34 07.60 -2.1
 BCPM 5.38 117 eP 34 12.33 -2.0
 PNL 5.65 119 eP 34 16.25 -1.8
 HON 5.99 119 iPc 34 10.89 -11.9
 INK 8.54 43 P 34 56.00 -1.9
 68 obs. associated

& OCT 17, 1991 13h 22m 47.63s
 63.821 N 148.503 W
 DEPTH = 96.6km
 CENTRAL ALASKA (1)
 <AEIC>.

RND 0.44 201 iPc 23 02.75 -0.2
 BWN 0.55 310 iPd 23 03.60 -0.1
 iS 23 15.48
 WRH 0.68 15 iPd 23 04.66 -0.1
 NEA 0.80 342 ePd 23 05.58 -0.4
 TRF 0.88 246 iPc 23 06.85 -0.1
 CCB 0.88 20 iPd 23 06.35 -0.4
 HDA 0.90 48 iPd 23 06.47 -0.5
 eS 23 21.70
 HUR 0.99 212 iPc 23 07.44 -0.5
 eS 23 23.30
 KTH 1.11 257 ePc 23 09.19 -0.2
 FBA 1.13 16 iPd 23 08.94 -0.6
 MDM 1.15 6 iPd 23 09.34 -0.5
 DDM 1.17 90 eP 23 09.98 -0.2

DJE	1.27	79	eP	23 10.71	-0.5
			eS	23 29.05	
GLM	1.27	22	iPd	23 10.45	-0.8
THY	1.29	107	eP	23 11.73	0.1
PAX	1.61	121	eP	23 14.94	-0.7
			eS	23 37.38	
CUT	1.63	210	eP	23 15.05	-0.7
SDG	1.87	133	eP	23 19.54	0.7
DOT	1.98	93	ePd	23 18.74	-1.7
SML	2.02	178	eP	23 18.79	-2.1
			eS	23 47.06	
TOA	2.03	147	eP	23 20.06	-0.9
GHO	2.07	186	eP	23 20.78	-0.8
SCM	2.07	164	eP	23 20.52	-1.0
PLRM	2.26	188	ePc	23 23.71	-0.3
PWA	2.27	197	eP	23 24.28	0.1
TZL	2.27	140	eP	23 25.59	1.4
SKT	2.31	218	ePc	23 23.23	-1.5
KNK	2.42	179	eP	23 24.88	-1.3
SUA	2.58	205	eP	23 28.77	0.3
KLU	2.62	152	iPc	23 27.71	-1.3
PMS	2.63	191	eP	23 30.10	1.0
VLZ	2.88	159	eP	23 30.07	-2.3
NCG	2.96	216	ePc	23 32.31	-1.3
CGLM	3.00	214	eP	23 33.90	-0.3
GLI	3.02	167	iPc	23 32.15	-2.3
SPU	3.12	213	eP	23 35.60	-0.2
BGL	3.14	217	eP	23 36.38	0.3
FID	3.22	162	eP	23 35.33	-1.8
GLB	3.22	136	ePc	23 35.84	-1.4
SLKM	3.42	194	eP	23 38.65	-1.2
LTJ	3.81	175	eP	23 42.70	-2.4
BALM	4.00	132	eP	23 47.50	-0.4

42 obs. associated

? OCT 17, 1991 14h 09m 09.68±1.44s
4.781 S ±12.3km 135.737 E ±22.2km
DEPTH = 33.0km (normal)
4.6mb (3 obs.)

IRIAN JAYA REGION, INDONESIA (196)

SLKI	5.44	234	iPd	10 30.10	-0.5
MTN	9.22	209	eP	11 23.00	-0.4
	0.3s	195.00nm		6.8mb X	
			eS	13 03.00	
WR2	15.14	185	iPc	12 41.40	-1.5
	0.3s	12.10nm		4.7mb	
			eS	15 25.30	
OIS	16.13	167	eP	12 55.00	-0.6
			i	13 03.00	
			iS	15 51.00	
CTAO	18.34	147	iPc	13 29.00	5.7X
	0.9s	47.58nm		4.7mb	
MBL	22.44	222	eP	14 08.00	0.7
WARB	22.99	201	eP	14 15.70	3.0X
	0.5s	10.00nm		4.6mb	
			eS	18 27.00	
OLP	23.15	160	eP	14 20.00	5.8X
			i	14 21.60	
MRWA	30.66	215	eP	15 24.70	1.2
BAL	31.33	213	eP	15 30.60	1.2
MUN	32.66	212	eP	15 42.30	1.3
CHG	43.16	304	eP	17 06.60	-2.7
BJI	48.10	340	eP	17 49.50	1.3
CNCB	148.22	133	PKP	29 00.00	7.8X
LPB	148.31	132	PKP	28 56.80	4.6X

S.D. = 1.6 on 10 of 15 obs.

% OCT 17, 1991 14h 30m 27.38±2.81s
32.653 S ±22.0km 71.184 W ±15.0km
DEPTH = 33.0km (normal)
NEAR COAST OF CENTRAL CHILE (135)

ROCH	0.35	155	iP	30 36.10	0.1
			iS	30 45.50	
JACH	0.50	93	iP	30 38.00	-0.1
			iS	30 47.50	
PEL	0.64	139	iPc	30 40.50	0.4
			iS	30 52.00	
LCCH	0.88	201	iP	30 43.50	0.1
			iS	30 56.00	
TACH	1.02	168	iP	30 45.00	-0.4
			iS	31 02.00	
PCH	1.12	150	iPd	30 46.70	-0.1
			iS	31 04.00	
LVN	1.31	188	iPc	30 49.50	0.0
CHCH	1.35	161	iP	30 50.20	0.0

iS 31 10.70
S.D. = 0.3 on 8 of 8 obs.
* OCT 17, 1991 14h 37m 51.46±0.85s
45.234 N ±6.9km 21.108 E ±7.9km
DEPTH = 10.0km (geophysicist)

ROMANIA (358)

MG 3.5 (BEO).

TIM	0.51	9	iPc	38 03.00	1.2
BZS	0.52	43	iPc	38 01.50	-0.6
BEO	0.62	229	ePg	38 09.50	5.6X
			iSg	38 20.80	
UZD	2.23	309	ePn	38 30.00	1.1
BUD	2.67	328	iPn	38 34.80	-0.5
PSZ	2.81	343	iPnc	38 36.80	-0.6
BMR	2.95	33	ePd	38 50.00	10.9X
SRO	3.22	324	iP	38 43.20	0.2
			e	04 16.20	
SKO	3.27	176	ePn	38 44.00	0.2
			e	38 56.50	
			i	38 58.70	
			iSg	39 44.00	
MLR	3.42	84	ePd	38 50.50	4.5X
PTJ	3.68	282	e(Pn)	39 02.60	12.9X
			eSn	39 40.10	
VRI	4.00	79	ePd	38 47.00	-7.1X
ZST	4.05	319	i(Pn)	38 54.40	-0.3
			i	39 01.70	
			e	39 39.40	
			e	03 22.40	
VBY	4.13	276	ePn	39 13.50	17.5X
			eSn	40 12.00	
VOY	5.12	282	e(Pn)	39 24.50	14.4X
KHC	6.44	310	ePn	39 28.00	-0.7
			ePg	39 35.00	
			eSg	40 49.50	

S.D. = 0.8 on 9 of 16 obs.

* OCT 17, 1991 15h 02m 14.15±0.83s
45.382 N ±6.8km 21.167 E ±10.2km
DEPTH = 10.0km (geophysicist)

ROMANIA (358)

MG 3.4 (BEO).

TIM	0.36	6	iPc	02 24.00	2.5
BZS	0.39	53	iPc	02 21.50	-0.7
BEO	0.75	222	iPg	02 29.80	0.9
			iSg	02 41.30	
UZD	2.17	305	ePn	02 54.00	3.2X
TNR	2.20	82	ePc	02 55.00	3.7X
BUD	2.57	326	ePn	02 55.00	-1.5
PSZ	2.69	341	ePnc	02 57.20	-1.1
BMR	2.80	34	ePd	03 12.00	12.2X
VTS	3.15	151	eP	03 03.00	-1.9
			eS	03 58.00	
SKO	3.41	177	eP	03 18.00	9.5X
			i	03 22.80	
PGB	3.56	142	eP	03 11.00	0.3
			Pg	03 23.00	
PVL	3.69	124	eP	03 13.00	0.6
			Pg	03 23.00	
KKB	3.78	158	eP	03 17.00	3.3X
			Pg	03 28.00	
VBY	4.16	274	e(Pn)	03 33.00	13.9X
			eSn	04 28.20	
MMB	4.22	153	eP	03 22.00	2.0
			Pg	03 34.00	
RZN	4.50	144	eP	03 23.00	-1.1

S.D. = 1.7 on 10 of 16 obs.

% OCT 17, 1991 15h 17m 11.37±2.76s
11.544 N ±25.6km 68.399 W ±11.9km
DEPTH = 10.9 ± 6.6 km
NEAR COAST OF VENEZUELA (97)

Felt at Morocoy and Valencia.

MORO	0.67	173	iP	17 24.60	-0.1
CAR	1.77	125	iP	17 42.00	-0.3
PLAV	1.88	152	iP	17 44.80	0.9
LLAV	1.89	124	iP	17 43.20	-0.8
			iS	18 04.10	
OLLA	2.18	134	iP	17 48.40	0.2
			iS	18 16.20	
TOV	2.22	218	ePn	17 49.50	0.8
			iSn	18 17.70	
CEOS	2.50	179	iP	17 52.10	-0.6

GUAN 3.13 120 eS 18 01.40
eP 18 02.20 0.5
SDV 3.44 220 iPnd 18 05.50 -0.6
iSn 18 42.70
S.D. = 0.8 on 9 of 9 obs.

* OCT 17, 1991 15h 41m 50.20±1.00s
35.781 N ±26.4km 53.457 E ±8.5km
DEPTH = 33.0km (normal)
NORTHERN IRAN (348)
Felt at Semnan.

TEH	1.69	269	ePc	42 16.00	-1.9
IR4	2.15	256	iPd	42 25.10	0.5
IR1	2.29	262	iPd	42 26.10	-0.4
IR7	2.32	269	iPd	42 27.10	0.1
IR5	2.41	257	eP	42 28.10	-0.3
MAIO	4.92	82	iPnd	43 03.80	-0.1
	0.8s	16.11nm			
			eSn	44 23.00	
KER	5.40	257	eP	43 12.00	1.3
TAB	6.15	294	e(P)	43 22.00	0.7
QUE	12.62	112	eP	45 04.00	13.6X

S.D. = 1.1 on 8 of 9 obs.

OCT 17, 1991 15h 43m 25.62±0.12s
17.971 S ±3.5km 178.654 W ±3.4km
DEPTH = 555.6km (4 depth phases)
5.2mb (55 obs.)

FIJI ISLANDS REGION (181)

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 16S, 21C

Centroid Location:

Origin Time 15:43:31.0 0.6

Lat 17.88S 0.07 Lon 178.69W 0.05

Dep 559.1 3.7 Half-duration 2.0

Moment Tensor: Scale 10**17 Nm

Mrr=1.01 0.07 Mtt=0.02 0.13

Mff=-1.04 0.10 Mrt=0.80 0.10

Mrf=-0.17 0.11 Mtf=0.82 0.10

Principal Axes:

T Val=1.49 P1g=57 Azm=348

N 0.11 30 141

P -1.60 12 238

Best Double Couple: Mo=1.5*10**17

NP1:Strike= 0 Dip=42 Slip= 138

NP2: 124 64 57

TVI	1.68	308	eP	44 35.40	-0.7
KRO	1.97	289	ePc	44 36.50	-0.7
UDU	2.21	325	eP	44 37.00	-0.3
NDE	2.38	305	ePc	44 38.50	0.2
MBU	2.69	291	eP	44 40.70	0.8
VUN	2.74	269	eP	44 40.80	0.7
SVA	2.75	267	ePc	44 41.40	1.2
			eS	45 40.60	
SGE	3.28	276	iP	44 44.70	1.1
NDF	3.72	273	eP	44 43.10	-3.3X
DZM	14.59	251	iPd	46 31.00	0.4
			iS	49 10.90	
WCZ	18.94	198	P	47 16.30	3.7X
KUZ	19.35	194	P	47 18.70	2.3
PUZ	20.21	187	eP	47 24.60	0.2
URZ	20.55	190	eP	47 25.70	-1.8
NOZ	20.77	187	eP	47 30.50	1.0
RUZ	21.72	193	eP	47 38.40	0.2
PGZ	22.99	190	P	47 49.20	-0.4
MNG	23.13	191	eP	47 50.40	-0.5
	0.5s	19.00nm		5.0mb	
THZ	24.79	195	eP	48 05.30	-0.5
KHZ	25.26	194	P	48 08.50	-1.3
	0.4s	45.00nm		5.5mb	
WVZ	26.59	198	eP	48 21.10	-0.5
MOZ	26.69	194	eP	48 21.50	-0.9
EWZ	26.96	197	eP	48 24.40	-0.4
AFR	27.49	94	iP	48 29.50	-0.1
	0.7s	85.00nm		5.5mb	
PAE	27.67	94	iP	48 31.10	-0.1
	0.7s	50.00nm		5.3mb	
PPT	27.68	94	iP	48 31.40	0.1
	0.7s	85.00nm		5.5mb	
PPN	27.82	94	iP	48 32.40	-0.1
	0.7s	15.00nm		4.7mb	
BRS	27.92	245	iPc	48 34.60	1.2
	1.2s	15.00nm		4.5mb	

	27.97	94 iP	48 33.90	0.0	ISA	78.03	46 iP+	54 28.00	-0.4	YKA	94.49	25 eP	55 47.20	0.1
	0.7s	55.00nm		5.3mb	CMB	78.05	43 iPc	54 28.65	0.2		1.0s	6.80nm		4.8mb
BWZ	28.18	198 eP	48 33.80	-1.5	MDJ	78.10	325 iPc	54 28.70	0.2	GTA	94.89	310 Pc	55 50.00	0.3
LRCZ	28.82	198 P	48 40.10	-1.0		1.3s	110.00nm		5.1mb		1.0s	14.00nm		5.1mb
MSCZ	28.82	198 eP	48 39.90	-1.1	WDC	78.14	40 ePc	54 28.59	-0.2	JSC	105.87	59 PKP	00 42.30	-5.7X
CMCZ	28.92	198 eP	48 41.50	-0.4	ORV	78.19	42 iPc	54 29.18	0.1	LHS	106.27	58 PKP	00 55.20	6.4X
TLC	29.01	198 P	48 42.20	-0.6	KDC	78.51	14 eP	54 31.10	0.8	QUE	119.59	295 ePKP	01 15.00	0.4
COO	29.54	239 iPd	48 50.00	2.6	MIN	78.58	41 eP	54 31.04	-0.3	MA10	125.91	302 iPKPc	01 26.00	-0.5
	0.3s	31.00nm		5.4mb	CWC	78.71	46 iP+	54 32.00	-0.1	SOB1	130.31	119 ePKP	01 34.60	-0.7
TUZ	29.55	197 P	48 47.80	0.6	CLC	78.71	46 iP+	54 32.00	0.0		e	04 09.10		
PMO	29.62	89 iP	48 48.60	0.5	LBFM	78.99	40 P	54 33.50	0.0	BUL	133.63	216 iPKPc	01 41.50	-0.1
	0.7s	25.00nm		5.0mb	GSC	79.00	47 eP	54 34.00	0.5	MTD	134.41	222 iPKPd	01 42.50	-0.6
VAH	29.84	89 iP	48 50.00	0.1	GLA	79.27	50 eP	54 36.00	1.0	NB2	136.41	353 PKP	01 38.30	-7.2X
	0.7s	25.00nm		5.0mb	BONR	79.38	44 P	54 36.20	0.5		1.2s	3.90nm		
TPT	29.89	89 iP	48 50.80	0.4	SNY	79.88	320 eP	54 35.20	-2.6	HFS	136.96	351 ePKP	01 36.00	-10.5X
	0.7s	35.00nm		5.1mb	CN2	79.93	322 Pc	54 38.20	0.2		0.4s	0.90nm		
RUV	30.08	89 iP	48 52.10	0.1		1.3s	110.00nm		5.1mb	DMU	143.58	8 ePKP	01 57.00	-1.4
	0.7s	60.00nm		5.3mb	KVN	80.10	43 P	54 39.30	0.0		1.0s	150.00nm		
RMQ	31.27	248 iPc	49 02.80	0.8	TNP	80.17	45 P	54 40.00	0.3	KAS	143.77	317 iPKPc	01 59.30	0.0
	0.7s	97.00nm		5.5mb	WHN	80.45	306 ePc	54 42.00	0.9	DCN	144.06	9 ePKP	01 57.60	-1.7
	iPP		50 36.30			1.5s	76.00nm		5.0mb		1.1s	145.00nm		
CNB	33.20	232 iPc	49 20.00	1.7	SVW	80.95	11 e(P)	54 43.40	0.4	KRA	144.68	339 iPKP	02 00.50	0.1
	0.8s	181.00nm		5.8mb	BMW	81.28	35 P	54 45.80	0.7		e	02 16.00		
	i		50 26.00	342kmX	SLKM	81.51	14 P	54 44.40	-1.5	CFR	144.85	326 ePKP	02 00.00	-0.8
CTAO	33.21	261 iPc	49 18.00	-0.4	SHW	81.65	36 P	54 47.60	0.5	WIT	144.98	354 ePKP	02 02.00	1.2
	1.2s	121.62nm		5.4mb	GMW	82.17	34 P	54 49.60	0.1	KSP	145.10	343 iPKPc	02 01.10	-0.1
	i		50 52.00		LON	82.22	36 P	54 49.60	-0.2		1.1s	105.00nm		
CAN	33.48	232 eP	49 21.80	1.2	IPM	82.23	277 ePc	54 51.10	0.6		e	02 09.60		
BWA	33.59	234 eP	49 20.70	-0.9		1.0s	40.20nm		4.9mb	VRI	145.11	328 ePKPc	02 02.00	0.7
CMS	34.79	240 iPd	49 32.50	1.0	TTA	82.58	10 ePc	54 51.30	0.1	BBTK	145.20	315 iPKP	02 02.00	0.2
	0.9s	144.00nm		5.6mb		1.3s	92.30nm		5.2mb	BMR	145.27	333 ePKPd	02 03.00	1.5
QLP	35.29	249 iPd	49 36.30	0.6	RMW	82.65	35 P	54 52.10	0.2	SPC	145.31	338 iPKP	02 03.60	1.8
	0.2s	125.00nm		6.2mb X	PMR	82.72	14 ePc	54 51.20	-0.6	CLL	145.47	347 iPKPd	02 02.10	0.4
	e		54 08.00			1.4s	123.80nm		5.2mb		1.8s	270.00nm		
TOO	36.95	231 iPd	49 51.20	2.0	SNG	83.45	280 eP	54 54.80	-1.7		e	02 19.00		
	1.0s	314.00nm		5.9mb	BJI	83.66	315 eP	54 57.50	0.5	BHL	145.51	304 PKP	02 02.00	-0.5
MDG	36.97	286 iPc	49 50.90	1.3		1.3s	62.00nm		5.0mb	HRI	145.63	303 ePKP	01 59.90	-2.8
STK	38.40	241 eP	50 07.00	5.9X	MAW	83.72	200 eP	54 59.00	2.1	BRG	145.67	346 iPKPd	02 01.60	-0.5
	0.7s	50.50nm		5.2mb	MSU	83.81	46 P	54 58.90	0.8		1.3s	125.00nm		
BFD	39.01	233 eP	50 05.00	-1.1			pP	56 59.60	556km	ISR	145.71	328 ePKPc	02 02.50	0.1
	1.0s	87.00nm		5.3mb	TOA	83.86	15 ePc	54 57.80	0.1	MLR	145.76	329 iPKPd	02 04.00	1.4
ADE	41.41	237 eP	50 26.40	1.0	BALM	83.95	17 P	54 55.70	-2.5	WTS	145.78	354 ePKP	02 03.50	1.3
	0.7s	178.08nm		5.7mb	DUG	84.19	45 P	54 59.80	-0.1		0.8s	48.00nm		
WR2	44.37	260 iPd	50 47.70	-1.0	RND	84.38	13 P	54 58.90	-1.3	JVI	146.34	301 ePKP	02 01.80	-2.0
	0.6s	37.40nm		5.1mb	GYA	84.86	300 iPc	55 04.00	0.6	PRU	146.34	345 PKPc	02 05.30	2.1
WRA	44.39	260 P	50 46.00	-2.9		1.4s	67.00nm		5.1mb		1.4s	77.50nm		
	0.4s	26.40nm		5.1mb	DPW	84.88	36 P	55 02.60	-0.3		e	02 18.60		
GUA	47.67	309 eP	51 13.50	-0.5	PNT	84.92	34 eP	55 03.00	0.0		e	02 27.30		
	1.0s	272.00nm		5.7mb		0.7s	17.00nm		4.8mb	CMP	146.37	329 ePKPc	02 04.00	0.6
GUMO	47.73	309 eP	51 13.40	-1.0	HVU	84.99	43 P	55 04.10	0.4	MOX	146.38	348 ePKP	02 03.50	0.3
PJG	47.73	309 eP	51 14.00	-0.4	TIY	85.13	312 iPc	55 05.00	0.6		1.5s	100.00nm		
WARB	51.04	251 iPc	51 38.50	-0.5		1.2s	60.00nm		5.1mb	TNR	146.46	330 ePKPc	02 06.00	2.5
	0.4s	24.00nm		5.0mb	DAU	85.34	45 P	55 05.90	0.3	PSZ	146.50	337 iPKPd	02 06.00	2.4
COOL	55.72	245 eP	52 10.80	-1.3	IMA	85.87	10 ePc	55 06.70	-0.7	HOF	146.65	348 ePKP	02 03.80	0.1
	0.4s	20.00nm		4.8mb		1.8s	78.10nm		5.1mb	BNS	146.76	353 iPKPc	02 06.60	2.8X
MBL	57.74	256 eP	52 25.00	-1.0	FBA	85.92	13 ePc	55 06.20	-1.3	ENN	147.08	355 ePKP	02 07.00	2.7X
	0.4s	15.00nm		4.7mb		1.1s	79.50nm		5.4mb	SRO	147.16	339 iPKP	02 07.90	3.4X
KLB	58.59	244 eP	52 30.60	-1.1	XAN	86.11	307 Pc	55 09.70	0.6		e	03 28.50		
	e		55 20.40			1.1s	60.00nm		5.2mb	UCC	147.16	356 PKP	02 12.50	8.1X
BAL	59.55	245 eP	52 37.20	-0.8	ALQ	86.32	52 ePc	55 10.50	0.2	BUD	147.19	338 iPKPd	02 07.50	2.9X
	e		55 18.00			1.0s	19.25nm		4.8mb	MEM	147.23	355 iPKPc	02 07.60	3.1X
MUN	59.89	243 iPd	52 40.50	0.2		eP		57 12.00	557km	ZST	147.23	340 ePKP	02 08.40	3.8X
MRWA	60.27	246 iPd	52 42.10	-0.7	ANMO	86.32	52 P	55 10.60	0.3	MBH	147.28	297 ePKP	02 04.20	-1.2
MAT	67.82	324 iPc	53 28.80	-1.4			pP	57 12.30	558km	GRF	147.37	348 iPKPc	02 05.00	0.1
	1.2s	51.56nm		4.9mb	HHC	87.15	315 P	55 15.20	1.2		ic	02 08.40		
SPA	72.14	180 iPc	53 57.00	1.5		1.4s	78.00nm		5.3mb		e	02 12.80		
	1.0s	47.50nm		5.0mb	LRM	87.17	40 eP	55 14.20	0.0	KHC	147.38	345 PKPd	02 05.30	0.4
SYP	76.38	47 eP	54 20.00	0.4	BW06	87.56	44 ePc	55 15.80	-0.3		1.1s	50.00nm		
GCC	76.42	43 ePc	54 20.17	0.6			pP	57 17.00	552km		e	02 08.30		
PRS	76.44	44 ePc	54 20.38	0.6	KMI	87.65	297 Pc	55 18.00	1.1		e	03 06.00		
PCC	76.44	43 ePc	54 19.93	0.2		1.6s	90.00nm		5.3mb	VKA	147.41	341 iPKPc	02 08.00	3.0X
SAO	76.63	44 eP	54 20.85	0.0	BTO	88.09	314 eP	55 19.80	1.4	SNF	147.45	357 PKPc	02 07.70	2.8X
BCH	76.66	46 P	54 21.40	0.2	CHG	88.80	290 ePc	55 23.50	1.5	WET	147.53	346 iPKPc	02 08.60	3.4X
PRI	76.80	45 iPc	54 22.64	0.8		1.1s	25.00nm		5.0mb		1.5s	130.00nm		
MHC	76.83	43 ePc	54 22.70	0.7	GOL	89.08	48 P	55 23.70	0.5	PVL	147.67	326 ePKP	02 10.00	4.5X
	1.1s	61.00nm		4.9mb		1.3s	52.08nm		5.3mb	BZS	147.68	333 ePKP	02 02.00	-3.4X
LLA	76.88	44 ePc	54 22.68	0.5	YAK	89.53	338 iPc	55 22.90	-1.5	DOU	147.85	356 PKPc	02 09.10	3.5X
ARN	76.91	43 P	54 22.80	0.5			e	59 01.00			1.0s	13.90nm		
ABL	77.08	47 P	54 23.80	0.3	SES	90.21	36 eP	55 28.00	0.2	UZD	148.10	337 iPKP	02 10.00	3.9X
MWC	77.55	48 eP	54 25.00	-1.1		1.1s	82.00nm		5.6mb	WLF	148.15	354 iPKPc	02 09.65	3.6X
BAR	77.74	50 iPc	54 27.00	0.1	LZH	90.74	308 iPc	55 32.00	1.2	GWf	148.66	352 PKP	02 06.36	-0.6
NJ2	77.80	310 Pc	54 27.00	-0.1		1.5s	85.00nm		5.5mb	PGB	148.75	326 iPKP	02 12.00	4.7X
	1.2s	74.00nm		5.0mb	NVL	91.19	183 ePc	55 32.50	0.4	BE0	148.81	333 ePKP	02 10.80	3.6X
SSK	77.80	48 P	54 27.60	0.2	RSSD	91.77	44 P	55 34.70	-0.7	ALN	148.82	322 ePKPc	02 10.94	3.6X
FRI	77.91	45 iPc	54 27.91	0.3		1.2s	32.00nm		5.2mb	BHG	148.86	345 ePKP	02 11.80	4.5X
RVR	77.92	48 iPd	54 28.00	0.2	INK	92.01	15 eP	55 34.00	-1.7		1.7s	168.00nm		
SBB	77.96	47 iPd	54 28.00	-0.1		1.2s	55.00nm		5.5mb	RZN	149.05	325 iPKPc	02 08.00	0.0

[illegible]

17d 16h

ASAJ	2.08	305	iPd	58	03.10	2.7	1.0s	51.00nm	5.4mb	KRA	75.70	327	iPd	09	07.00	0.1					
MRRJ	2.94	261	iPd	58	14.00	1.6		pP	04	17.80	48kmX		0.5s	204.00nm		6.3mb X					
			eS	58	48.00			PcP	06	44.00			i		09	25.20	67km				
AOMJ	4.20	237	P	58	30.30	0.2		ScP	10	23.00		VR1	75.97	321	eP	09	06.00	-2.5			
			eS	59	15.70			ScS	14	24.00		SPC	76.26	326	eP	09	11.30	1.0			
OFUJ	4.60	214	P	58	34.60	-1.2	CD2	34.76	264	iPd	04	13.20	0.0	KSP	76.48	329	eP	09	09.50	-1.8	
			S	59	24.40			0.8s	110.00nm	5.8mb			i		09	11.00	5kmX				
YAMJ	6.07	220	P	58	55.40	-1.0		S	09	36.00			i		09	26.40					
NI1J	7.31	221	P	59	12.50	-1.1	GYA	35.20	255	iPd	04	17.20	0.2	MLR	76.61	321	ePd	09	12.00	-0.3	
KAKJ	7.68	211	P	59	15.10	-3.6X		1.0s	30.00nm	5.2mb			BWA	77.05	177	eP	09	16.20	1.7		
			S	00	37.20			pP	04	31.60	56km		CMP	77.20	321	ePd	09	12.00	-3.4X		
MAT	8.25	222	iPc	59	25.40	-1.2		S	09	43.40		CLL	77.29	331	iPd	09	15.40	-0.4			
	0.7s	91.10nm			5.7mb		TTA	39.05	38	eP	04	50.00	1.1		1.0s	38.00nm	5.3mb				
		eS	00	57.00			BRW	39.91	25	eP	04	55.30	-0.5		e	09	30.00	51kmX			
CHJJ	8.30	216	P	59	25.50	-1.6	IMA	40.23	34	eP	04	59.20	0.5	BRG	77.32	331	iP	09	15.90	0.0	
		S	00	54.40				0.6s	13.50nm	5.0mb				0.8s	16.00nm	5.0mb					
MTMJ	8.42	224	P	59	29.00	0.1	KDC	41.00	46	eP	05	04.80	-0.1	PSZ	77.40	326	eP	09	17.10	0.6	
I1DJ	9.25	219	P	59	40.40	0.1	PMR	42.30	40	eP	05	19.60	4.1X	PRU	77.83	330	Pd	09	19.00	0.3	
		S	01	21.80			FBA	42.67	35	eP	05	19.70	1.2		1.2s	21.80nm	5.0mb				
TSRJ	10.17	226	P	59	53.10	0.4		1.0s	50.50nm	5.3mb				e	09	24.00	16kmX				
MDJ	11.27	284	iPc	00	07.90	0.3	TOA	43.64	39	eP	05	28.00	1.5		e	09	36.80				
	1.4s	280.00nm			6.1mb		LOE	44.57	249	eP	05	34.00	-0.4	CAN	77.97	177	eP	09	21.00	1.5	
CN2	14.25	280	iPc	00	46.60	-0.3	CHG	45.55	253	ePd	05	43.30	1.1	BUD	78.10	326	eP	09	21.50	1.2	
	1.0s	46.00nm			4.9mb			0.8s	26.12nm	5.2mb			SRO	78.13	326	iP	09	21.40	1.0		
Z	18s	3.50um			4.3MsZ		BALM	45.62	41	P	05	42.80	0.4	ZST	78.31	327	iP	09	22.20	0.8	
N	10s	0.50um					INK	47.89	30	eP	05	58.50	-1.5	MOX	78.33	332	iP	09	21.60	0.1	
E	10s	0.24um					KHT	48.55	249	eP	06	07.50	1.8		1.7s	37.00nm	5.1mb				
		epP	00	54.00			LAT	49.39	177	eP	06	14.10	2.0	ALQ	78.75	53	e(P)	09	24.00	-0.4	
		eS	03	16.00			GUN	49.49	273	Pd	06	13.20	-0.1		1.0s	3.75nm	4.3mb				
SNY	15.87	273	iPc	01	07.10	-0.6	KKN	49.99	273	Pd	06	16.80	-0.2	KHC	78.89	330	iPd	09	24.50	-0.2	
	1.8s	180.00nm			4.9mb		PKI	50.02	272	Pd	06	17.00	-0.4		e	09	39.50	53kmX			
Z	28s	1.70um			4.3MsZ		DMN	50.22	273	Pd	06	18.80	0.0		e	09	43.00				
E	12s	0.56um					GKN	50.35	273	Pd	06	19.40	-0.2	UZD	79.00	326	eP	09	25.50	0.3	
		sP	01	23.00			SNQ	52.77	241	eP	06	38.80	1.0	WET	79.14	330	iPd	09	26.50	0.5	
DL2	18.10	265	eP	01	34.00	-1.4	IPM	54.50	238	ePc	07	07.30	16.8X		0.8s	19.00nm	5.1mb				
YAK	21.15	340	eP	02	04.00	-4.4X	MTN	56.95	196	eP	07	08.00	0.0	GRF	79.27	331	iPd	09	27.00	0.3	
		iPp	02	20.00	72km			0.6s	160.00nm	6.3mb X				0.9s	22.00nm	5.1mb					
		iPP	02	26.00			YKA	57.34	33	eP	07	09.30	-1.1		e	09	45.40	67km			
		iPPP	02	34.00				0.8s	3.40nm	4.5mb			BHG	80.32	329	iPc	09	33.30	1.0		
		eS	05	53.00			KEV	58.92	339	iP	07	19.60	-1.7		0.8s	22.00nm	5.1mb				
		iPcP	06	13.00				0.7s	14.70nm	5.2mb			HRI	80.35	307	eP	09	32.40	-0.4		
		eSS	06	20.00			DAG	60.13	356	iPc	07	25.80	-3.7X	KBA	80.68	329	iPKPc	09	35.20	0.7	
		eSS	06	36.00				0.3s	15.58nm	5.6mb				0.7s	21.80nm	5.2mb					
BJ1	21.74	272	Pd	02	13.50	-1.0	SOD	60.61	337	iP	07	30.30	-2.6		i	09	40.00	15kmX			
	1.1s	92.00nm			5.1mb		MCW	60.67	49	P	07	35.20	1.6		i	09	50.90				
Z	22s	0.99um			4.2MsZ		HYB	61.18	267	ePd	07	36.00	-1.4		i	09	54.90				
SSE	22.31	246	eP	02	21.50	1.4		e	07	53.00	64km		WTTA	81.17	330	iPKPd	09	37.30	0.3		
	1.0s	37.00nm			4.8mb		LON	62.31	51	P	07	44.30	-0.4		i	09	48.20	35kmX			
Z	18s	0.50um			4.0MsZ		CTAO	62.72	179	iPc	07	47.00	-0.4		i	09	55.60				
N	13s	0.50um						0.7s	14.81nm	5.2mb			PLE	81.25	323	iPd	09	38.14	0.7		
		sP	02	44.00			WRA	63.33	191	P	07	50.00	-1.5		IVA	81.39	323	iPd	09	38.60	0.5
		eS	06	12.00				0.5s	12.60nm	5.2mb			SKO	81.40	321	eP	09	38.70	0.6		
		sS	06	32.00			WR2	63.33	191	iPd	07	50.30	-1.2		1.0s	50.00nm	5.4mb				
TIA	22.45	262	Pd	02	21.20	-0.4	OIS	63.37	186	iPc	07	50.70	-1.0		i	09	44.20	17kmX			
	1.4s	190.00nm			5.3mb		KAF	64.33	333	eP	07	56.10	-1.5		i	09	57.00				
E	12s	0.56um						0.5s	12.40nm	5.1mb			ZNT	81.50	306	eP	09	38.60	-0.2		
		sP	02	42.30			OBN	65.03	323	iPc	08	01.00	-1.2	CDF	81.71	333	eP	09	39.30	-0.4	
		eS	06	20.00				1.2s	*****nm	8.5mb X				0.8s	12.10nm	4.9mb					
NJ2	23.33	251	Pc	02	30.00	-0.1	LBFM	65.38	56	P	08	05.00	0.0	NKY	81.84	323	iPd	09	40.12	-0.3	
	1.0s	130.00nm			5.3mb		NUR	66.03	332	eP	08	07.30	-1.3	BRY	81.97	323	iPd	09	40.60	-0.6	
Z	20s	0.47um			3.9MsZ		ORV	66.68	57	P	08	12.00	-1.1	TTG	82.03	323	iPd	09	41.28	0.0	
HHC	24.89	277	Pd	02	45.70	0.5	FFC	67.28	35	eP	08	17.00	0.4	BDV	82.34	323	iPd	09	42.14	-0.8	
	1.0s	110.00nm			5.3mb			0.4s	6.00nm	4.9mb		HCY	82.35	323	iPd	09	42.14	-0.9			
Z	25s	0.83um			4.1MsZ		MBL	67.86	205	eP	08	20.00	-0.5	HAU	82.38	333	eP	09	42.70	-0.4	
E	10s	0.49um						0.8s	8.05nm	4.7mb				0.8s	0.30um	4.7MsZ					
		S	07	02.00			LRM	68.06	47	ePc	08	21.80	-0.2	Z	20s						
TIY	25.27	269	iPd	02	50.00	1.2	CMB	68.30	58	P	08	23.00	-0.3	OHR	82.38	321	eP	09	42.80	-0.4	
	1.0s	67.00nm			5.1mb			1.0s	8.33nm	4.6mb		ULC	82.41	322	iPd	09	42.96	-0.4			
Z	30s	0.94um			4.1MsZ		UPP	68.84	335	iP	08	25.00	-1.2	MBH	83.36	305	eP	09	48.00	-0.5	
N	12s	0.32um					KVN	69.08	56	P	08	28.20	-0.1	FLN	83.77	338	eP	09	50.30	0.1	
		S	07	11.00			RMQ	69.17	176	iPc	08	29.30	0.8		0.6s	7.20nm	4.9mb				
BTO	26.08	277	iPc	02	56.50	0.1	NB2	69.78	338	P	08	30.90	-1.1		Z	20s	0.30um	4.7MsZ			
	1.0s	20.00nm			4.6mb			0.5s	22.20nm	5.3mb		LDF	83.82	338	eP	09	50.60	0.2			
N	14s	0.06um					TNP	70.22	56	P	08	35.50	0.2		0.6s	5.40nm	4.7mb				
E	13s	0.06um						0.7s	8.70nm	4.8mb		LOR	83.83	335	eP	09	50.10	-0.4			
		pP	03	06.00	34kmX		HVU	70.48	51	P	08	37.00	0.3		0.8s	12.10nm	5.0mb				
		ePP	03	40.50			WARB	70.82	197	eP	08	40.00	1.3		Z	20s	0.25um	4.6MsZ			
		eS	07	24.00				0.5s	12.00nm	5.1mb		LBF	84.04	334	eP	09	51.30	-0.3			
WHN	27.34	253	Pd	03	08.80	1.0	ABL	71.02	60	P	08	40.20	0.0		0.8s	10.05nm	4.9mb				
	1.2s	93.00nm			5.3mb		DUG	71.49	52	P	08	43.00	0.2	SSF	84.12	335	eP	09	51.70	-0.3	
XAN	29.42	265	iPd	03	26.40	-0.2	BW06	71.62	48	P	08	43.00	-0.7		1.0s	13.00nm	4.9mb				
	0.8s	67.00nm			5.4mb			0.6s	4.46nm	4.6mb		SMF	84.38	334	eP	09	53.30	0.0			
LZH	32.23	272	iPd	03	51.50	0.1	DAU	72.24	51	P	08	47.50	0.0		1.0s	30.00nm	5.3mb				
	1.8s	180.00nm			5.6mb		MSU	72.96	53												

LPG	1.0s	14.00nm	5.0mb	NB2	27.35	237 P	52	42.70	-0.6	MAF	42.55	244 eP	54	54.00	0.3		
	84.43	332 eP	09 54.20	0.3		1.3s	48.30nm		5.1mb		1.4s	74.05nm		5.2mb			
	0.7s	10.45nm	5.0mb	FBA	27.89	28 ePd	52	50.20	2.1	LSF	42.57	245 eP	54	54.10	0.3		
LPF	84.59	338 eP	09 55.30	1.0		1.1s	32.70nm		5.0mb		1.4s	39.20nm		4.9mb			
	0.6s	7.20nm	4.9mb	HFS	28.15	234 eP	52	51.40	0.9	CMP	42.57	220 ePc	54	53.00	-0.9		
BGF	84.78	335 eP	09 55.00	-0.3		0.5s	2.10nm		4.2mb	SES	42.81	355 eP	54	57.00	1.2		
	0.8s	10.75nm	5.0mb	TTA	29.63	36 ePd	53	05.90	2.0	LPL	43.06	239 eP	54	58.90	0.8		
MAF	85.16	335 eP	09 57.70	0.5		1.3s	59.90nm		5.2mb		1.2s	17.85nm		4.7mb			
	0.6s	11.70nm	5.1mb	YKA	30.70	358 eP	53	13.80	0.6	LPG	43.08	239 eP	54	59.30	1.0		
TCF	85.21	335 eP	09 57.80	0.3		1.1s	9.60nm		4.6mb		1.4s	43.55nm		5.0mb			
	0.8s	7.40nm	4.8mb	TOA	30.73	27 eP	53	10.30	-3.3X	RJF	43.52	244 eP	55	01.90	0.4		
LSF	85.46	336 eP	09 58.90	0.2		31.17	30 ePd	53	18.20	0.9		1.2s	71.40nm		5.3mb		
	0.6s	9.00nm	5.0mb	PMR	1.4s	68.40nm		5.4mb		Z	22s	0.93um		4.6Msz			
CSI	85.49	323 P	09 58.40	-0.6		Z	20s	1.00um	4.5Msz	WMQ	43.62	154 P	55	03.20	0.7		
ROI	85.54	323 P	09 59.70	0.5		31.47	36 eP	53	22.30	2.2		2.5s	56.00nm		4.9mb		
SBF	85.61	331 eP	09 59.90	0.4		32.23	31 P	53	27.10	0.4	Z	20s	1.31um		4.8Msz		
	1.0s	52.00nm	5.6mb	OBN	32.39	209 iPd	53	22.40	-5.7X			pP	55	11.00	26kmX		
MFF	85.64	337 eP	10 00.00	0.4		1.0s	*****nm		8.4mb X			PP	56	51.30			
	0.6s	9.90nm	5.1mb	Z	22s	2.50um		4.9Msz		CAF	43.87	244 eP	55	04.70	0.3		
CZI	86.02	323 P	10 00.80	-0.7			i	54	10.00		1.2s	20.85nm		4.8mb			
FRF	86.15	331 eP	10 01.80	-0.4			eS	58	50.00		LFF	43.92	245 eP	55	05.40	0.7	
	0.8s	10.75nm	5.0mb	EKA	33.73	251 P	53	40.00	0.2		1.2s	35.70nm		5.1mb			
RJF	86.31	335 eP	10 03.40	0.5		1.7s	90.60nm		5.4mb	LPO	44.15	245 eP	55	07.50	0.9		
	0.8s	8.05nm	4.9mb	IRK	35.68	136 eP	53	55.00	-1.5		1.0s	156.00nm		5.8mb			
Z	20s	0.22um	4.6Msz		e	55	17.00			MDJ	44.43	111 iPc	55	09.20	0.3		
LRG	86.34	331 eP	10 03.20	0.1		37.00	233 iP	54	13.30	5.7X	1.0s	55.00nm		5.4mb			
	0.8s	17.45nm	5.2mb	CLL	1.5s	38.00nm		4.9mb		MCW	44.53	6 P	55	10.00	0.3		
Z	20s	0.17um	4.5Msz		37.33	230 eP	54	11.00	0.6	PGC	44.56	6 eP	55	11.00	1.2		
LMR	86.40	331 eP	10 03.20	-0.2		37.39	232 eP	54	11.60	0.7	CN2	45.04	115 P	55	12.80	-1.0	
	0.6s	12.65nm	5.2mb	KSP	1.4s	26.00nm		4.8mb			1.0s	17.00nm		4.9mb			
CAF	86.48	335 eP	10 04.70	0.9		i	55	37.00		Z	1	2.64um		5.4MszX			
	0.8s	17.45nm	5.2mb	MOX	37.72	235 iPc	54	14.00	0.3	N	11s	0.54um					
LFF	86.88	335 eP	10 06.60	0.9		1.6s	54.00nm		5.1mb	E	11s	0.26um					
	0.6s	11.70nm	5.2mb	KRA	37.97	226 iPd	54	18.80	3.0X			eS	01	52.00			
LPO	86.97	335 eP	10 06.80	0.6			e	54	20.50			SS	05	10.00			
	0.6s	10.80nm	5.2mb	PRU	38.25	232 eP	54	19.20	1.0	DPW	45.36	1 P	55	16.50	0.1		
LPB	141.45	57 PKP	16 56.00	2.8			e	54	19.20	1.0	GMW	45.66	6 P	55	20.00	1.3	
CNCB	141.73	57 PKP	16 50.00	-3.9X			e	56	08.50		RMW	45.76	5 P	55	18.90	-0.7	
NVL	143.79	204 ePKPc	16 53.00	-2.1		GRF	38.69	235 iPc	54	22.70	0.8	EPF	45.84	245 eP	55	20.10	-0.1
SOB1	146.01	10 ePKP	17 02.00	1.4		1.6s	55.00nm		5.0mb		1.2s	44.65nm		5.3mb			
	e	17 17.10			Z	21s	0.40um		4.2Msz	SKO	45.99	224 eP	55	22.00	0.6		
PDCR	149.50	8 ePKP	17 10.80	4.8X		38.83	226 eP	54	24.40	1.2	LON	46.47	5 P	55	26.30	1.2	
	e	17 33.90			KHC	39.15	232 P	54	26.50	0.8	SNY	46.92	117 iPd	55	28.30	-0.3	
	S.D. = 0.9	on 149 of 157 obs.				e	54	40.00			0.8s	41.00nm		5.6mb			
						e	55	42.50		Z	15s	0.70um		4.7MszX			
						e	55	42.50		N	11s	0.44um					
	OCT 17, 1991	17h 46m 56.82±0.15s			ZST	39.94	229 eP	54	31.50	-0.7							
	86.986 N ± 2.7km	63.221 E ± 3.3km				e	56	02.80		HHC	47.36	130 P	55	33.00	0.6		
	DEPTH = 10.0km (geophysicist)				PSZ	40.11	226 eP	54	35.70	2.0	LRM	47.40	356 iPd	55	33.50	0.8	
	5.1mb (64 obs.)	4.6Msz (13 obs.)			CDF	40.14	239 eP	54	34.60	0.6	BTO	47.55	131 eP	55	34.00	0.2	
	NORTH OF FRANZ JOSEF LAND	(644)				1.2s	41.65nm		5.0mb		N	14s	0.62um				
	CENTROID, MOMENT TENSOR	(HRV)			FLN	40.16	247 eP	54	33.80	-0.2	E	13s	0.38um				
	Data Used: GDSN					1.0s	24.00nm		4.8mb				eS	02	28.00		
	L.P.B.: 19S, 35C				Z	22s	0.75um		4.5Msz	BJI	48.37	125 eP	55	41.00	1.0		
	Centroid Location:				SRO	40.28	227 eP	54	36.30	1.4		1.9s	160.00nm		5.8mb		
	Origin Time	17:47: 2.3 0.6			LDF	40.31	247 eP	54	35.10	-0.2	Z	20s	0.60um		4.6Msz		
	Lat 86.79N 0.09 Lon 62.58E 1.77					1.0s	36.00nm		5.0mb				ePcP	57	03.00		
	Dep 15.0 FIX Half-duration 1.8				GRR	40.55	247 eP	54	37.10	-0.1			eS	02	45.00		
	Moment Tensor: Scale 10**16 Nm					1.0s	56.00nm		5.2mb				eSS	06	12.00		
	Mrr=-6.39 0.56 Mtt= 8.21 0.62				HAU	40.59	240 eP	54	38.20	0.6	GTA	48.37	142 iPd	55	40.80	0.6	
	Mff=-1.82 0.90 Mrt= 1.88 2.87					1.2s	35.70nm		4.9mb		1.2s	34.00nm		5.3mb			
	Mrf=-4.42 1.83 Mtf=-1.47 0.53				Z	22s	0.52um		4.3Msz	Z	22s	1.51um		4.9Msz			
	Principal Axes:				BSF	40.75	239 eP	54	39.20	0.2	E	12s	0.70um				
	T Val= 8.88 Plg=10 Azm= 12					1.2s	41.65nm		5.0mb			pP	55	48.60	26kmX		
	N 0.25 29 108				LPF	40.92	247 eP	54	40.50	0.3		PcP	57	05.00			
	P -9.13 59 264					1.0s	44.00nm		5.1mb			PP	57	34.40			
	Best Double Couple:Mo=9.0*10**16				WTTA	41.10	234 e(P)	54	43.00	1.0		S	02	42.00			
	NP1:Strike= 72 Dip=43 Slip=-135					1.1s	11.60nm		4.5mb			SS	06	02.00			
	NP2: 305 61 -57				LOR	41.44	242 eP	54	44.60	0.0	RSSD	49.04	348 P	55	45.00	-0.4	
						1.3s	43.30nm		5.0mb			1.0s	94.90nm		5.8mb		
KBS	9.55	245 iP	49 11.50	-5.7X	Z	22s	1.10um		4.7Msz	TOL	49.19	250 iPd	55	48.00	1.6		
DAG	13.23	275 ePc	50 04.40	-2.5		41.49	227 e(P)	54	26.00	-18.9X		1.8s	181.82nm		5.8mb		
	1.3s	121.15nm	5.8mb	SSF	41.67	243 eP	54	46.60	0.2	HPI	49.51	356 P	55	50.00	0.8		
MBC	16.88	2 eP	50 53.50	-0.6		1.2s	29.75nm		4.9mb	BW06	50.43	353 P	55	56.00	-0.1		
	0.5s	23.00nm	4.6mb	LBF	41.72	242 eP	54	46.90	0.0		1.0s	32.50nm		5.2mb			
KEV	18.01	222 eP	51 03.00	-5.2X		1.2s	49.10nm		5.1mb	TIY	50.53	129 eP	55	57.50	0.8		
	i	51 07.80		VR1	41.91	218 eP	54	50.00	1.6	Z	26s	0.57um		4.5MszX			
SOD	20.41	221 iP	51 33.20	-2.8	AVF	41.94	243 eP	54	49.00	0.4	N	16s	0.72um				
BRW	21.23	35 ePd	51 45.50	1.2		1.4s	87.15nm		5.3mb	MA10	50.86	184 eP	56	01.00	1.7		
INK	24.75	15 eP	52 20.00	1.1	SMF	42.07	242 eP	54	49.70	0.0		e	03	23.00			
	1.0s	56.00nm	5.2mb			1.4s	52.30nm		5.1mb	HVU	51.44	356 P	56	04.40	0.7		
IMA	26.56	33 eP	52 37.80	1.7	BGF	42.20	243 eP	54	51.20	0.4	LZH	51.82	138 iPd	56	07.40	0.7	
	1.4s	48.50nm	5.0mb	MFF	42.30	246 eP	54	51.90	0.3		2.0s	120.00nm		5.5mb			
YAK	27.07	108 iPc	52 39.70	-0.9		1.2s	47.60nm		5.1mb	Z	22s	0.74um		4.7Msz			
	e	53 28.00		MLR	42.32	219 ePd	54	54.50	2.6X	E	15s	0.61um					
	e	53 39.00		BZS	42.35	224 eP	54	51.00	-0.9			pP	56	12.00	15kmX		
	i	53 52.00		TCF	42.50	244 eP	54	53.50	0.2			sP	56	15.00			
	e	57 24.00			1.2s	55.05nm		5.2mb		LBFM	51.87	5 P	56	08.00	0.9		

17d	52.22	124	Pd	56	09.70	0.2	LIC	82.70	249	P	59	21.50	0.0	0.6s	9.00nm	5.0mb			
TIA	E	13s	0.58um	03	37.00		IPM	83.06	142	ePd	59	24.00	0.7	78.44	344	iPc	23	56.50	0.3
			S	56	13.00	2.5X		1.0s	39.50nm				5.6mb	0.8s	18.80nm			5.2mb	
MAL	52.35	250	eP	56	13.00	-1.7	MAW	154.43	180	ePKP	06	57.00	9.1X	78.49	343	iPc	23	56.70	0.2
MAT	52.91	103	eP	56	13.00	-1.7		S.D. = 1.0	on 139 of 150 obs.				0.8s	10.75nm			4.9mb		
	1.2s	25.00nm		03	45.00								78.75	344	eP	23	58.30	0.4	
		eS		56	19.00	0.4		OCT 17, 1991	18h 11m	57.50±0.56s			0.6s	9.90nm			5.0mb		
GLD	53.41	349	P	56	19.00	0.4		53.110 N ± 9.6km	159.615 E ± 9.3km				78.76	328	ePc	23	57.82	-0.3	
	1.0s	25.00nm		56	25.50	-0.3		DEPTH = 32.2km	(2 depth phases)				78.95	328	ePc	23	59.02	0.0	
GOL	53.47	349	P	56	19.00	0.0		5.1mb (42 obs.)					79.02	341	P	24	00.63	0.9	
	0.8s	21.58nm		56	22.50	-0.6		NEAR EAST COAST OF KAMCHATKA	(218)				79.05	341	iPc	24	01.00	1.2	
XAN	54.05	133	P	56	22.50	-0.6							0.8s	34.90nm			5.4mb		
	0.8s	8.80nm		56	25.00	0.9	YAK	18.19	311	eP	16	09.20	0.4	79.06	341	iPc	24	01.20	1.2
KVN	54.17	1	P	56	25.00	-0.3							0.6s	26.15nm			5.4mb		
NA2	54.44	322	P	56	25.50	-0.3	MAT	22.33	231	iPc	16	54.60	0.9	79.11	328	ePc	23	59.06	-0.9
CVL	54.61	323	P	56	26.00	-1.1		1.0s	43.00nm				4.9mb	79.11	344	iPc	24	00.40	0.4
MSU	54.70	356	P	56	28.50	0.4	CHJJ	22.38	229	eP	16	55.40	1.2	0.6s	9.90nm			5.0mb	
FVM	54.93	335	P	56	27.60	-1.9	MTMJ	22.49	231	P	16	56.90	1.5	79.12	344	iPc	24	00.70	0.7
	0.8s	15.15nm		56	31.50	0.2	CN2	24.29	261	eP	17	09.80	-2.9	0.8s	25.50nm			5.3mb	
TNP	55.14	0	P	56	31.50	0.2							17	19.00	33km			0.4	
	0.9s	33.53nm		56	32.00	0.6	FBA	28.62	45	(P)	17	51.00	-1.5	0.6s	10.80nm			5.0mb	
CMB	55.18	3	P	56	32.00	0.6	INK	34.03	38	ePc	18	38.70	-1.4	79.26	345	iPc	24	01.00	0.3
	1.2s	9.26nm		56	32.50	-0.8	MBC	37.14	23	eP	19	04.50	-1.8	0.5s	10.95nm			5.1mb	
BONR	55.27	1	P	56	32.50	0.2	GTA	42.32	276	Pd	19	50.00	0.2	79.29	328	ePc	24	00.46	-0.5
BLA	55.44	325	P	56	32.50	-0.8		0.8s	16.00nm				4.8mb	79.29	340	P	24	01.14	0.1
ELC	55.60	333	P	56	33.00	-1.4			PcP	21	42.80			79.59	340	P	24	02.17	-0.3
ARN	55.86	5	P	56	37.20	0.9	WMO	46.69	289	P	20	24.50	-0.3	0.6s	11.25nm			5.0mb	
ACO	56.38																		

Z 20s 0.43um 4.3msz
 LBF 40.89 50 eP 44 29.30 0.6
 1.0s 10.00nm 4.5mb
 HAU 42.63 49 eP 44 42.80 -0.2
 1.4s 17.45nm 4.6mb
 Z 20s 0.35um 4.2msz
 BSF 42.90 50 eP 44 44.90 -0.4
 1.4s 17.45nm 4.6mb
 WTTA 46.11 51 e(P) 45 11.00 -0.2
 1.4s 27.10nm 5.1mb
 MEO 46.63 292 iPd 45 14.90 -0.3
 KHC 47.52 48 P 45 27.50 5.4X
 e 46 53.60
 PRU 48.19 47 eP 45 27.00 -0.3
 e 45 33.10
 NB2 48.20 32 P 45 27.40 0.1
 1.1s 16.80nm 5.0mb
 HFS 49.16 34 eP 45 30.20 -4.4X
 0.5s 1.10nm 4.1mb
 DAG 49.34 7 eP 45 41.50 5.7X
 1.0s 18.00nm 5.0mb
 ZST 49.83 50 eP 45 39.30 -0.6
 e 45 45.40
 GOL 51.28 299 P 45 52.00 0.5
 SPC 51.89 48 eP 45 55.80 -0.1
 ANMO 52.96 294 P 46 03.70 -0.4
 ALO 52.96 294 eP 46 04.00 -0.1
 1.2s 15.63nm 4.8mb
 Z 18s 0.52um 4.6msz
 BZS 53.04 53 eP 46 02.00 -2.3
 SKO 53.34 57 eP 46 06.00 -0.5
 NUR 54.60 34 eP 46 21.00 5.5X
 SOD 56.03 26 eP 46 27.00 1.2
 KEV 56.45 23 iP 46 33.00 4.2X
 OBN 61.31 40 eP 47 07.00 4.3X
 1.0s *****nm 8.8mb X
 FBA 69.93 334 P 47 57.20 -0.7
 MAIO 82.89 52 iPc 49 12.00 0.6
 MTD 85.56 112 iPc 49 23.90 -1.2
 i 49 29.60
 PRY 87.84 122 e(P) 49 37.00 0.9
 BFT 89.08 120 e(P) 49 42.00 -0.2
 QUE 91.43 54 eP 49 55.00 1.9
 WRA 170.85 13 PKP 56 55.00 0.3
 0.7s 0.40nm

S.D. = 0.8 on 26 of 33 obs.

& OCT 17, 1991 20h 49m 50.50s
 57.745 N 142.625 W
 DEPTH = 10.0km (geophysicist)
 GULF OF ALASKA (15)
 <AEIC>. ML 2.5 (AEIC).

PNL 2.56 40 eP 50 27.55 -5.2
 eS 50 57.13
 HON 2.60 47 eP 50 27.76 -5.6
 eS 50 57.02
 PCA 2.66 27 eP 50 29.04 -5.2
 eS 50 58.46
 YAH 2.67 9 iP 50 28.95 -5.5
 eS 50 58.42
 BCPM 2.71 34 iP 50 29.50 -5.3
 eS 50 58.66
 BALM 3.30 2 eP 50 36.00 -7.4
 eS 51 15.00
 KLU 4.12 337 eP 50 46.00 -8.8
 7 obs. associated

OCT 17, 1991 21h 01m 52.00±0.49s
 28.670 N ± 9.4km 43.628 W ± 7.3km
 DEPTH = 10.0km (geophysicist)
 4.6mb (9 obs.)
 NORTHERN MID-ATLANTIC RIDGE (403)

AVE 31.29 72 eP 08 13.00 -1.4
 i 08 36.00
 i 08 50.50
 TIO 31.55 77 iP 08 18.40 1.4
 i 09 16.00
 MAL 33.78 66 iPd 08 28.00 -8.2X
 i 09 37.00
 TOL 34.31 60 eP 08 42.00 1.2
 eS 13 48.00
 SOB1 37.75 176 (P) 09 10.00 0.0
 AVF 40.65 50 eP 09 34.10 0.2
 1.2s 8.95nm 4.4mb
 SSF 40.80 50 eP 09 35.40 0.3

1.4s 21.80nm 4.7mb
 SMF 40.96 51 eP 09 37.00 0.6
 1.2s 29.75nm 4.9mb
 LOR 41.07 50 eP 09 37.50 0.1
 1.6s 34.20nm 4.8mb
 LBF 41.10 50 eP 09 37.60 -0.1
 1.1s 19.55nm 4.7mb
 LIC 42.76 114 P 09 50.80 -0.7
 HAU 42.85 49 eP 09 51.90 0.0
 1.0s 8.00nm 4.4mb
 KIC 42.91 114 P 09 52.20 -0.6
 BSF 43.12 49 eP 09 53.90 -0.4
 1.0s 12.00nm 4.6mb
 CDF 43.52 49 eP 09 56.00 -1.5
 1.0s 8.00nm 4.5mb
 WTTA 46.33 51 iPc 10 20.30 0.2
 1.3s 60.30nm 5.5mb X
 i 11 20.30
 i 11 25.90
 MEO 46.66 292 e(P) 10 22.50 -0.1
 KHC 47.74 48 eP 10 31.20 0.2
 e 10 36.40
 e 11 08.20
 PRU 48.42 47 eP 10 37.00 0.8
 DAG 49.60 7 eP 10 44.60 -0.3
 0.5s 4.23nm 4.7mb
 eP 11 45.00 284kmX
 UZD 51.08 52 e(P) 11 02.00 5.3X
 BZS 53.26 53 ePc 11 12.00 -1.0
 e 39 26.50
 SKO 53.54 57 eP 11 14.50 -0.6
 e 12 06.00
 e 12 14.60
 i 12 18.70
 BW06 54.06 304 P 11 18.00 -1.2
 LCCM 55.33 308 eP 11 29.10 0.7
 CMP 55.69 53 ePd 11 29.00 -1.8
 MLR 56.29 52 ePc 11 35.50 0.2
 VRI 56.78 52 ePd 11 35.00 -3.6X
 INK 63.66 335 eP 12 26.00 0.7
 SHI 81.21 61 eP 14 10.00 0.0
 LSZ 81.97 112 iP 14 15.00 1.0
 i 15 14.00
 MAIO 83.10 52 eP 14 21.00 1.4
 e 15 21.00
 SLR 87.71 121 eP 14 38.20 -4.4X
 i 15 42.60
 YAK 89.48 3 eP 14 50.00 -0.3
 QUE 91.64 54 eP 15 02.50 1.3
 S.D. = 0.9 on 31 of 35 obs.

OCT 17, 1991 21h 02m 51.28±0.30s
 28.533 N ± 7.2km 43.551 W ± 4.0km
 DEPTH = 10.0km (geophysicist)
 5.0mb (34 obs.) 5.2msz (7 obs.)
 NORTHERN MID-ATLANTIC RIDGE (403)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 18S, 34C
 Centroid Location:
 Origin Time 21:02:54.5 0.3
 Lat 28.61N 0.04 Lon 43.43W 0.03
 Dep 15.0 FIX Half-duration 2.3
 Moment Tensor: Scale 10**17 Nm
 Mrr=-2.00 0.06 Mtt= 0.22 0.09
 Mrr= 1.78 0.10 Mrt= 0.00 0.00
 Mrr= 0.00 0.00 Mtr= 0.31 0.06
 Principal Axes:
 T Val= 1.84 Plg= 0 Azm=101
 N 0.16 0 11
 P -2.00 90 180
 Best Double Couple: Mo=1.9*10**17
 NP1: Strike=191 Dip=45 Slip= -90
 NP2: 11 45 -90

PTO 31.11 57 eP 09 05.50 -6.5X
 EVAL 31.97 64 eP 09 24.84 5.2X
 EPLA 32.80 60 eP 09 32.56 5.7X
 EJIF 32.91 66 eP 09 29.27 1.4
 EPRU 33.13 65 eP 09 30.64 0.9
 EHOR 33.18 64 eP 09 30.16 0.0
 GUD 34.34 59 eP 09 40.09 -0.2
 EBAN 34.36 63 eP 09 46.23 5.8X
 EGUA 34.46 66 eP 09 44.61 3.4X
 ECGO 34.48 65 eP 09 44.40 2.9X
 AFC 34.49 65 eP 09 47.78 6.1X
 EVIA 35.40 63 eP 09 55.68 6.3X

ETOR 35.94 59 eP 09 59.81 5.8X
 ECHE 36.66 61 eP 10 06.60 6.7X
 ACU 37.03 63 eP 10 10.97 7.9X
 EGRA 37.41 57 eP 10 17.14 11.0X
 SOB1 37.61 176 eP 10 08.30 0.3
 BTH 37.61 55 Pd 10 15.00 7.2X
 pP 10 22.00 24kmX
 EPF 37.99 56 eP 10 11.50 0.4
 1.2s 20.85nm 4.8mb
 LPF 38.04 47 eP 10 11.60 0.3
 1.3s 79.40nm 5.3mb
 MFF 38.29 50 eP 10 13.70 0.2
 1.2s 65.45nm 5.2mb
 LFF 38.57 53 eP 10 16.00 0.1
 1.2s 53.55nm 5.1mb
 LPO 38.84 53 eP 10 18.50 0.3
 1.2s 35.70nm 4.9mb
 RJF 39.17 52 eP 10 20.80 -0.2
 1.2s 35.70nm 4.9mb
 Z 20s 4.75um 5.3msz
 LSF 39.35 51 eP 10 22.50 0.1
 1.2s 35.70nm 4.9mb
 CAF 39.50 53 eP 10 23.70 0.0
 1.2s 23.80nm 4.7mb
 ESEL 39.64 61 eP 10 31.81 6.9X
 TCF 39.82 51 eP 10 26.50 0.2
 1.2s 38.70nm 4.9mb
 AVF 40.68 50 eP 10 33.30 -0.1
 1.2s 26.80nm 4.8mb
 SSF 40.83 50 eP 10 34.70 0.1
 1.0s 24.00nm 4.9mb
 SMF 40.99 51 eP 10 36.20 0.3
 1.2s 63.95nm 5.2mb
 PDCR 41.05 173 eP 10 36.90 0.3
 LOR 41.11 50 eP 10 37.00 0.1
 1.0s 21.00nm 4.8mb
 Z 20s 3.25um 5.2msz
 LBF 41.14 50 eP 10 37.20 0.0
 1.0s 24.00nm 4.9mb
 LPL 42.84 53 eP 10 52.40 1.0
 1.0s 11.00nm 4.5mb
 LPG 42.85 53 eP 10 52.40 0.8
 1.0s 18.00nm 4.8mb
 HAU 42.89 49 eP 10 51.10 -0.4
 1.0s 20.00nm 4.8mb
 Z 20s 2.50um 5.1msz
 BSF 43.16 49 eP 10 53.10 -0.7
 1.2s 23.80nm 4.8mb
 CDF 43.56 49 eP 10 56.60 -0.4
 1.2s 35.70nm 5.0mb
 GRF 46.29 47 eP 11 19.00 0.2
 1.5s 22.00nm 5.0mb
 Z 20s 1.90um 5.0msz
 ic 11 25.20
 MOX 46.65 46 eP 11 28.00 6.4X
 Z 18s 2.10um 5.1msz
 N 18s 1.50um
 E 17s 1.60um
 ACO 46.97 295 e(P) 11 24.20 -0.1
 CLL 47.60 45 eP 11 35.00 6.0X
 KHC 47.78 48 P 11 30.50 -0.1
 1.3s 25.60nm 5.2mb
 e 11 35.50
 e 12 01.00
 VOY 47.87 52 e(P) 11 36.00 4.6X
 BRG 48.15 46 iP 11 38.90 5.6X
 1.2s 15.00nm 4.9mb
 CEY 48.25 53 e(P) 11 40.50 6.3X
 LJU 48.32 52 e(P) 11 34.50 -0.3
 PRU 48.46 47 eP 11 35.00 -0.8
 2.2s 76.20nm 5.4mb
 Z 16s 2.20um 5.2mszX
 e 11 41.60
 NB2 48.53 32 P 11 35.60 -0.6
 1.3s 38.40nm 5.3mb
 VBY 48.83 53 eP 11 39.00 0.4
 e 11 45.00
 FFC 49.13 319 eP 11 40.00 -0.9
 1.1s 34.00nm 5.3mb
 ZST 50.08 50 eP 11 48.40 0.2
 e 31 49.00
 PPD 50.82 189 eP 11 53.60 -0.5
 e 11 57.00
 SRO 50.90 50 eP 11 47.60 -6.8X
 VAO 51.34 184 eP 11 56.80 -1.3
 GOL 51.47 300 P 12 00.00 0.7
 1.0s 7.81nm 4.6mb

17c 21h

KRA	51.94	47	eP	12 02.40	0.1
			e	12 08.40	
SPC	52.15	48	eP	12 02.70	-1.5
ANMO	53.12	294	P	12 13.00	1.4
ALO	53.12	294	eP	12 10.50	-1.1
	1.7s	100.96nm		5.5mb	
Z	18s	2.75um		5.3Msz	
OHR	53.20	58	eP	12 02.00	-9.9X
BW06	54.20	304	P	12 18.00	-1.4
	1.0s	8.33nm		4.7mb	
SES	54.50	313	eP	12 21.00	-0.3
YKA	56.39	328	eP	12 35.50	0.7
	1.5s	14.90nm		4.8mb	
HPI	56.62	306	P	12 36.00	-1.1
MBC	59.14	344	eP	12 54.00	0.1
	1.7s	117.00nm		5.7mb	
GLA	60.32	294	eP	13 04.00	1.4
TNP	60.85	300	P	13 05.00	-1.4
	1.4s	29.17nm		5.2mb	
GSC	61.27	297	eP	13 10.00	0.9
KVN	61.27	301	P	13 07.50	-1.7
OBN	61.62	40	eP	13 12.00	0.9
Z	28s	2.00um		5.1MszX	
		i		14 17.00	
BONR	61.71	300	P	13 12.50	0.1
CLC	61.74	297	eP	13 14.00	1.7
PLM	61.87	295	eP	13 14.00	0.6
BAR	61.91	294	eP	13 15.00	1.5
PEC	61.95	295	P	13 14.00	0.3
LON	62.09	310	P	13 08.50	-6.0X
RVR	62.09	295	eP	13 15.00	0.4
SBB	62.24	296	eP	13 15.00	-0.7
ISA	62.47	298	eP	13 32.00	14.8X
MWC	62.56	296	eP	13 17.00	-1.0
CMB	63.27	301	iPc	13 22.77	0.3
LBFM	63.47	304	P	13 21.00	-2.9
ORV	63.68	302	eP	13 25.63	0.6
INK	63.81	336	eP	13 22.00	-3.5X
SYP	63.99	297	eP	13 34.00	6.7X
PR1	64.03	299	eP	13 30.71	3.1X
LLA	64.11	299	eP	13 28.01	0.1
PRS	64.52	299	ePd	13 32.43	1.8
GCC	64.79	300	ePd	13 39.18	6.9X
ADI	66.30	64	eP	13 39.80	-2.4
JVI	66.79	65	eP	13 43.20	-2.1
PRNI	67.05	67	eP	13 44.80	-2.2
FBA	70.28	334	eP	14 07.00	0.6
	1.1s	29.69nm		5.3mb	
IMA	71.92	336	eP	14 18.60	2.1
	1.3s	33.70nm		5.3mb	
PMR	72.28	331	eP	14 17.10	-1.4
	1.5s	62.00nm		5.5mb	
Z	20s	1.00um		5.1Msz	
TAB	72.95	56	eP	14 24.00	0.9
BUL	84.80	116	iPc	15 28.90	1.3
MTD	85.42	112	iPd	15 32.00	1.3
DZM	152.18	277	iPKPc	22 49.70	7.4X
S.D. = 1.0 on 73 of 101 obs.					

* OCT 17, 1991 21h 30m 07.22± 0.86s					
28.611 N ±19.2km 43.538 W ± 9.1km					
DEPTH = 10.0km (geophysicist)					
4.8mb (12 obs.) 4.6Msz (3 obs.)					
NORTHERN MID-ATLANTIC RIDGE (403)					
MAL	33.73	66	iPd	36 54.00	3.1X
AVF	40.63	50	eP	37 48.70	-0.1
	1.6s	43.55nm		4.9mb	
SSF	40.78	50	eP	37 49.70	-0.4
	1.2s	20.85nm		4.7mb	
SMF	40.93	51	eP	37 51.30	-0.1
	1.4s	47.90nm		5.0mb	
LOR	41.05	50	eP	37 52.20	-0.1
	1.2s	16.35nm		4.6mb	
Z	20s	0.73um		4.5Msz	
LBF	41.08	50	eP	37 52.20	-0.

MEO	46.75	292	iPd	38	39.50	1.0
KHC	47.72	48	eP	38	46.00	0.0
PRU	48.40	47	eP	38	55.00	1.8
DAG	49.65	7	iPc	39	00.20	-0.3
	1.1s	17.72nm				5.0mb
ZST	50.02	50	eP	39	04.20	0.5
		e		53	57.60	
SRO	50.84	50	e(P)	39	07.80	-2.1
UZD	51.06	52	e(P)	39	13.00	1.4
ANMO	53.10	294	P	39	27.00	-0.4
ALO	53.10	294	eP	39	27.00	-0.4
	1.7s	38.46nm				5.1mb
Z	19s	1.30um				5.0Msz
OHR	53.15	58	eP	39	30.00	2.5X
SKO	53.51	57	eP	39	26.00	-4.0
		e		39	32.00	
MBC	59.06	344	eP	40	08.50	-0.9
	1.5s	39.00nm				5.3mb
OBN	61.55	40	eP	40	22.00	-4.6X
Z	30s	0.80um				4.7MszX
SBB	62.22	296	eP	40	32.00	0.5
INK	63.75	336	eP	40	39.00	-2.0
MAIO	83.07	52	eP	42	31.00	-3.6X
MTD	85.43	112	iPd	42	48.00	1.3
YAK	89.53	3	iPd	43	07.00	1.3
QUE	91.61	54	eP	43	18.00	1.8
S.D. = 1.2 on 25 of 30 obs.						
* OCT 17, 1991 21h 32m 19.13±1.28s						
14.775 S ±19.1km 71.552 W ±20.4km						
DEPTH = 118.8 ±20.4 km						
4.5mb (1 obs.)						
CENTRAL PERU (116)						
ARE	1.68	178	iPd	32	50.40	1.1
		eS		33	13.00	
NNA	5.85	298	iPc	33	43.00	-1.9
	0.6s	55.33nm				5.0mb X
		eS		34	46.50	
HOQC	18.81	344	eP	36	32.96	0.4
ANCC	18.92	343	ePc	36	35.69	2.2X
CLMC	19.19	345	eP	36	37.61	1.1
HOBC	19.54	346	eP	36	40.69	0.6
PPD	20.50	114	(P)	36	49.00	-0.8
PDCR	31.58	90	eP	38	31.60	-1.1
YKA	84.04	341	eP	44	37.20	0.0
	0.5s	3.20nm				4.5mb
WRA	137.12	217	PKP	51	39.00	8.3X
	1.1s	1.00nm				
MAT	145.74	315	(PKP)	51	46.00	0.5
	0.9s	14.29nm				
S.D. = 1.3 on 9 of 11 obs.						
* OCT 17, 1991 21h 33m 30.70±0.49s						
17.830 S ±7.1km 175.476 W ±10.7km						
DEPTH = 268.9km (3 depth phases)						
5.0mb (16 obs.)						
TONGA ISLANDS (173)						
DZM	17.51	253	iPc	37	20.00	0.6
WCZ	20.17	205	eP	37	49.00	2.9X
KUZ	20.38	201	eP	37	51.70	3.6X
HBZ	20.44	194	eP	37	49.90	1.2
PUZ	20.90	194	eP	37	55.20	1.9
URZ	21.36	196	eP	37	57.00	-0.6
NOZ	21.47	194	eP	37	59.50	0.8
RUZ	22.68	199	eP	38	10.90	0.5
PGZ	23.80	196	eP	38	20.40	-0.5
MNG	24.01					

		1.0s	158.00nm			5.5mb
OLP		38.18	250 iPd	40	27.00	0.7
		0.2s	66.00nm			5.8mb
TOO		39.40	232 iPd	40	37.50	1.2
		0.9s	53.00nm			5.0mb
STK		41.12	242 iPd	40	55.50	5.1X
		0.4s	36.60nm			5.1mb
BFD		41.52	234 eP	40	52.00	-1.6
		1.0s	43.00nm			4.8mb
OIS		42.41	259 eP	41	00.00	-1.0
WR2		47.37	259 iPc	41	39.40	-0.7
		0.4s	75.60nm			5.4mb
WRA		47.39	259 P	41	39.00	-1.3
		0.3s	81.00nm			5.5mb
MTN		51.59	268 eP	42	11.20	-1.1
WARB		53.94	250 iPd	42	29.00	-0.4
		0.4s	20.00nm			5.0mb
COOL		58.51	244 eP	43	00.30	-1.2
MBL		60.70	255 eP	43	15.50	-1.0
KLb		61.36	243 eP	43	20.00	-0.7
		0.6s	12.00nm			4.7mb
BAL		62.34	244 eP	43	25.40	-1.8
MUN		62.64	243 eP	43	29.20	0.0
MRWA		63.09	246 eP	43	31.60	-0.6
MAT		69.55	322 iPd	44	10.60	-1.9
		0.8s	8.21nm			4.5mb
NJ2		80.06	308 Pc	45	12.50	0.4
	Z	18s	0.47um			4.9Msz
CN2		81.69	321 eP	45	20.00	-0.3
		0.8s	8.80nm			4.6mb
	Z	20s	2.37um			5.5Msz
WHN		82.83	305 eP	45	27.50	1.1
ANMO		83.88	50 P	45	29.90	-2.0
			pP	46	32.30	261km
FBA		85.15	11 P	45	34.50	-2.8
			pP	46	41.50	281km
BJI		85.71	314 eP	45	40.50	-0.1
	Z	18s	0.35um			4.8Msz
			eS	55	42.00	
TIY		87.31	311 eP	45	49.00	0.5
	Z	20s	0.88um			5.2Msz
	N	15s	0.50um			
HHC		89.23	314 P	45	58.00	0.5
BTO		90.20	313 eP	46	02.90	0.9
GTA		97.15	309 eP	46	33.80	0.0
		1.0s	4.00nm			4.7mb
	Z	20s	0.65um			5.1Msz
KSP		145.75	347 iPKPd	52	37.80	-0.7
CLL		145.92	350 iPKPc	52	38.60	-0.1
		1.3s	29.00nm			
BRG		146.19	349 iPKP	52	39.50	0.3
		1.2s	19.00nm			
PRU		146.92	348 PKP	52	41.20	0.8
KHC		147.93	349 ePKP	52	43.50	1.4
			e	53	04.00	
			e	53	55.00	
HRI		148.07	305 iPKPd	52	45.10	2.2
GRB5		148.26	351 ePKP	52	44.70	2.1
		0.9s	13.00nm			
JVI		148.84	303 iPKPd	52	46.80	2.7X
FLN		148.88	6 ePKP	52	45.50	2.0
		0.8s	10.75nm			
GRR		149.21	7 ePKP	52	46.50	2.5X
		0.8s	16.10nm			
CDF		149.42	356 ePKP	52	47.60	3.1X
		0.8s	9.40nm			
LPF		149.54	7 ePKP	52	48.30	3.8X
		1.0s	16.00nm			
PRNi		149.62	300 iPKPd	52	48.80	3.5X
HAU		149.87	358 ePKP	52	48.40	3.3X
		0.8s	6.70nm			
KBA		149.94	348 iPKPd	52	48.10	2.7X
		0.4s	2.20nm			
			i	52	58.30	
BSF	</					

LSF 151.55 4 ePKP 52 52.00 4.4X
1.0s 15.00nm
TCF 151.56 3 ePKP 52 52.20 4.5X
0.8s 4.05nm
MAF 151.64 3 ePKP 52 53.00 5.2X
0.6s 3.60nm
BTH 154.47 8 iPKPc 52 44.00 -7.8X
e 52 48.50
S.D. = 1.2 on 53 of 74 obs.

? OCT 17, 1991 21h 58m 02.27± 9.55s
60.662 N ±14.0km 3.971 E ±71.9km
DEPTH = 10.0km (geophysicist)
NORTH SEA (534)
MD 1.5 (BER).

SUE 0.55 44 eP 58 13.52 0.0
eS 58 21.15
ASK 0.63 106 iP 58 14.95 0.0
eS 58 23.88
EGD 0.74 122 iP 58 16.65 0.0
eS 58 26.18
HYA 1.20 64 iP 58 24.49 0.0
iS 58 40.82
S.D. = 0.1 on 4 of 4 obs.

% OCT 17, 1991 22h 33m 42.05± 0.60s
40.337 N ± 4.4km 22.402 E ± 6.2km
DEPTH = 10.0km (geophysicist)
GREECE (364)

LIT 0.25 164 iPg 33 47.17 -0.1
eSg 33 51.08
GRG 0.62 360 ePg 33 53.84 -0.7
eSg 34 02.32
SOH 0.87 56 ePg 33 59.08 0.2
eSg 34 11.11
FNA 0.90 300 ePg 33 59.64 0.3
iSg 34 13.29
KNT 0.91 24 iPg 33 59.29 -0.1
eSg 34 11.88
PAIG 1.06 112 ePg 34 01.72 -0.3
SRS 1.19 49 ePbd 34 04.91 0.6
AGG 1.31 182 ePbc 34 06.48 0.1
eSb 34 25.61
S.D. = 0.5 on 8 of 8 obs.

% OCT 17, 1991 22h 45m 55.06± 0.75s
42.961 N ± 9.2km 17.878 E ± 5.6km
DEPTH = 10.0km (geophysicist)
ADRIATIC SEA (382)
ML 2.2 (TTG).

BRY 0.49 97 iPg 46 04.44 -0.7
iSg 46 11.80
HCY 0.69 138 iPg 46 08.30 -0.4
iSg 46 18.80
NKY 0.84 100 iPg 46 10.72 -0.6
iSg 46 22.92
BDV 0.97 134 iPg 46 13.84 0.3
iSg 46 28.44
HVAR 1.07 282 ePg 46 15.00 -0.2
iSg 46 31.50
TTG 1.15 117 iPg 46 16.14 -0.4
iSg 46 33.76
PLE 1.17 71 iPg 46 16.92 -0.1
iSg 46 33.88
ULC 1.42 134 iPg 46 21.26 0.3
iSg 46 42.42
IVA 1.49 93 iPg 46 22.50 0.6
iSg 46 44.20
PVY 1.59 103 iPg 46 24.46 1.1
iSg 46 46.42
S.D. = 0.6 on 10 of 10 obs.

% OCT 17, 1991 23h 28m 21.93± 0.89s
40.054 N ±13.4km 32.411 E ± 7.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

BBTK 0.34 128 iPg 28 29.00 0.0
iSg 28 34.00
GPA 1.63 279 iPn 28 52.00 1.2
KAS 1.67 38 eP 28 51.50 0.1
IZI 2.27 278 ePn 29 00.00 -0.1
YLV 2.38 283 ePn 29 00.50 -1.2
S.D. = 1.2 on 5 of 5 obs.

? OCT 17, 1991 23h 31m 02.39± 4.15s
48.652 N ±36.5km 3.138 E ±29.2km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.2 (LDG).

LOR 1.47 160 Pg 31 29.60 0.7
Sg 31 48.00
SSF 1.61 171 Pg 31 31.20 0.3
Sg 31 51.20
LBF 1.76 161 Pn 31 31.80 -1.4
Pg 31 35.00
Sg 31 57.20
AVF 1.87 175 Pg 31 35.60 0.9
Sg 31 58.20
SMF 2.06 166 Pg 31 40.00 2.5X
Sg 32 05.00
BCF 2.10 185 Pg 31 39.00 0.9
Sg 32 04.60
LDF 2.16 270 Pn 31 39.00 0.0
Sg 32 08.40
FLN 2.40 274 Pg 31 47.20 4.9X
Sg 32 16.00
TCF 2.45 195 Pg 31 45.40 2.4X
Sg 32 14.60
MAF 2.46 189 Pn 31 41.80 -1.4
Pg 31 45.00
S.D. = 1.2 on 7 of 10 obs.

? OCT 18, 1991 00h 26m 35.92± 5.92s
32.390 S ±39.5km 71.593 W ±23.7km
DEPTH = 10.0km (geophysicist)
NEAR COAST OF CENTRAL CHILE (135)

ROCH 0.76 140 iPd 26 51.00 0.1
iS 27 05.00
JACH 0.89 109 iPd 26 52.60 -0.5
iS 27 07.50
PEL 1.07 135 iPd 26 56.00 -0.1
iS 27 13.50
LCCH 1.08 179 iP 26 55.50 -0.8
TACH 1.37 157 iP 27 01.10 0.0
PCH 1.53 144 iP 27 03.90 0.6
iS 27 27.00
LNV 1.57 174 iPd 27 03.90 0.1
CHCH 1.73 153 iPc 27 06.90 0.7
iS 27 33.50
S.D. = 0.6 on 8 of 8 obs.

? OCT 18, 1991 01h 32m 31.61± 4.14s
49.503 S ±56.0km 164.569 E ±21.4km
DEPTH = 33.0km (normal)
4.6mb (1 obs.)
AUCKLAND ISLANDS REGION (166)

SIZ 3.55 44 P 33 27.50 1.8
eS 34 06.80
BCZ 4.14 33 P 33 35.00 1.0
S 34 20.70
TUZ 4.93 46 P 33 46.40 1.2
eS 34 40.00
TLC 5.29 37 P 33 50.90 0.4
CMCZ 5.40 38 P 33 52.00 0.0
eS 34 51.90
SBCZ 5.46 38 P 33 53.10 0.2
MMCZ 5.47 36 P 33 53.30 0.3
MHZ 5.48 38 eP 33 52.90 -0.2
ODZ 6.08 45 P 34 01.20 -0.3
BWZ 6.16 38 P 34 01.20 -1.4
WVZ 7.71 36 eP 34 22.90 -1.5
MQZ 8.03 47 eP 34 28.00 -0.8
KHZ 9.44 45 eP 34 47.30 -0.9
WR2 38.08 310 iPd 39 48.90 0.1
0.4s 4.00nm 4.6mb
S.D. = 1.0 on 14 of 14 obs.

* OCT 18, 1991 02h 04m 26.36± 0.67s
37.038 N ± 7.3km 33.761 E ± 9.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

LFK 1.77 186 iPn 04 56.40 -0.8
BCK 2.57 280 iPn 05 09.00 0.3
BBTK 2.91 345 eP 05 14.00 0.4
eS 06 06.00
BHL 3.49 153 Pn 05 21.00 -0.8

Sn 06 03.00
ALT 3.52 306 iPn 05 22.00 -0.2
KHL 3.60 292 iPn 05 22.70 -0.7
HRI 4.09 156 iPc 05 30.10 -0.3
YER 4.38 273 iPn 05 35.30 0.8
ATZ 4.39 163 eP 05 35.50 1.0
eS 06 25.60
IZI 4.70 316 eP 05 39.00 -0.1
DST 4.78 304 eP 05 40.00 -0.2
DSI 5.62 166 eP 05 52.80 0.9
S.D. = 0.7 on 12 of 12 obs.

% OCT 18, 1991 02h 31m 56.79± 2.75s
16.980 N ±20.5km 61.272 W ±18.6km
DEPTH = 31.0 ± 7.2 km
LEEWARD ISLANDS (92)
ML 2.9 (FDF).

BPA 0.56 277 eP 32 08.25 -0.1
S 32 15.70
SEG 0.62 201 eP 32 09.14 0.0
S 32 17.40
DEG 0.69 163 eP 32 10.27 -0.1
S 32 19.30
SFG 0.73 174 eP 32 10.70 0.0
MGH 0.94 254 eP 32 14.00 0.2
S 32 26.50
DOG 1.00 199 eP 32 14.55 -0.2
PAG 1.02 203 eP 32 14.90 -0.2
S 32 28.10
MGG 1.06 182 eP 32 15.80 0.3
S 32 30.50
BBL 1.46 188 eP 32 21.30 0.0
S 32 39.40
S.D. = 0.2 on 9 of 9 obs.

% OCT 18, 1991 02h 49m 51.89s
45.633 N 122.896 W
DEPTH = 20.2km
WASHINGTON-OREGON BORDER REGION (28)
<SEA>. MD 3.1 (SEA). Felt at
Battle Ground and Vancouver,
Washington. Also felt at North
Plains and Scappoose, Oregon.

PGO 0.35 118 P 49 59.19 -0.3
RVW 0.53 12 P 50 01.72 -0.7
S 50 09.09
LVP 0.55 38 P 50 02.07 -0.8
NLO 0.60 320 P 50 03.78 0.2
MTMW 0.62 50 P 50 02.97 -1.0
GT2 0.65 137 P 50 04.52 0.0
FL2 0.68 34 P 50 04.29 -0.8
SHW 0.72 39 P 50 05.34 -0.5
JLK 0.73 45 P 50 04.89 -1.0
S 50 15.09
HSR 0.73 42 P 50 05.42 -0.6
CDFW 0.76 51 P 50 05.80 -0.6
STD 0.77 38 P 50 05.63 -0.9
ESD 0.77 42 P 50 05.85 -0.7
ERK 0.78 30 P 50 05.11 -1.6
SOSW 0.80 41 P 50 06.28 -0.9
CZM 0.85 19 P 50 06.81 -1.0
TDH 0.85 113 P 50 06.65 -1.3
APM 0.86 83 P 50 07.39 -0.6
TDL 0.86 33 P 50 07.00 -1.1
VLL 0.87 101 P 50 07.46 -0.8
BMW 0.87 345 P 50 07.18 -1.1
GULW 0.96 72 P 50 08.54 -1.2
KOSW 0.96 30 P 50 08.76 -1.1
ASR 1.05 60 Pd 50 10.00 -1.3
VFP 1.05 107 P 50 10.51 -1.0
COR 1.09 196 P 50 10.98 -0.9
S 50 26.24
VBEM 1.09 121 P 50 11.02 -1.0
LMW 1.12 22 Pd 50 11.60 -0.8
GLK 1.29 43 P 50 14.17 -0.8
LON 1.35 34 Pd 50 15.12 -0.6
CPW 1.35 353 P 50 15.07 -0.6
ONR 1.38 334 P 50 16.00 -0.1
REMR 1.39 31 P 50 15.85 -0.6
WPW 1.42 41 P 50 16.36 -0.4
RVC 1.46 26 Pd 50 17.02 -0.3
GHW 1.47 17 P 50 16.81 -0.6
GL2 1.49 77 P 50 18.16 0.5
VGB 1.49 94 P 50 17.70 0.0
CROR 1.50 115 Pc 50 17.55 -0.3

18d 02h

FMW	1.55	33	P	50	18.69	0.0	GRG	1.26	259	ePbc	13	10.60	-0.2	Z	14s	2.47um				
MEW	1.58	6	P	50	19.28	0.4			eSb	13	27.41			N	14s	1.74um				
VTHM	1.71	105	P	50	20.37	-0.5	PAIG	1.31	192	ePbd	13	11.44	-0.3	E	13s	1.31um				
SMW	1.71	350	P	50	21.19	0.2			iSb	13	30.20					pP	54	30.00		
GSM	1.75	25	Pd	50	21.74	0.3	PGB	1.34	4	iPgc	13	12.00	-0.2			S	56	08.00		
TCO	1.78	148	P	50	22.41	0.3			Sg	13	31.00			QIZ	12.14	250	eP	55	02.00	0.4
NAC	1.81	52	P	50	23.82	1.5	DIM	1.40	53	iPgc	13	15.00	1.9	N	12s	0.51um				
GMO	1.82	130	P	50	22.26	-0.4			Sg	13	35.00					eS	57	13.80		
OBH	1.82	339	P	50	22.75	0.3	VTS	1.51	336	iPgc	13	15.00	0.3	GYA	14.04	284	P	55	25.00	-2.1
HBO	1.84	167	P	50	23.20	0.4			Sg	13	37.00			Z	14s	2.35um				
YAKW	1.87	61	P	50	25.21	2.0	ALN	1.56	101	ePbc	13	15.48	0.2	N	12s	0.53um				
GMW	1.92	2	P	50	23.77	-0.1			eSb	13	36.61			E	12s	1.34um				
VIPM	1.97	124	P	50	24.43	-0.3	LIT	1.61	227	iPbc	13	15.70	-0.4			S	57	56.40		
SPW	1.97	13	P	50	25.76	1.2			eSb	13	37.96			XAN	15.29	315	P	55	42.30	-0.9
RMW	1.98	22	P	50	25.31	0.5	KZN	1.94	243	iPnc	13	21.50	0.6	E	11s	1.06um				
HDW	2.02	357	Pd	50	25.57	0.2	FNA	2.05	259	ePnd	13	23.11	0.6	T1Y	16.12	332	eP	55	58.00	4.1X
MXC	2.04	62	P	50	25.72	0.0			eSn	13	48.01			Z	13s	1.56um				
EBG	2.06	51	P	50	26.38	0.4	SKO	2.08	292	ePn	13	23.50	0.5	N	12s	1.10um				
HSO	2.11	184	Pc	50	27.39	0.6			iPg	13	28.00			BJI	16.96	345	eP	56	12.50	8.0X
JBO	2.16	93	P	50	27.72	0.4			i	13	31.90			Z	14s	0.82um				
BRVW	2.19	66	P	50	29.78	1.8			iSn	13	51.00			CD2	17.60	298	eP	56	10.40	-2.3
PATW	2.21	82	P	50	28.00	-0.1			iSg	13	55.50			Z	14s	1.71um				
TBM	2.21	45	P	50	28.67	0.5	PVL	2.22	25	Lg	13	59.00	-0.9	HHC	19.14	336	P	56	32.80	1.1
OSD	2.26	346	P	50	29.97	1.0			iPc	13	24.00				1.0s	26.00nm			4.4mb	
BLH	2.28	15	P	50	30.02	0.9	EZN	2.23	128	ePn	13	24.80	-0.3	Z	18s	2.24um			4.3MsZx	
OOW	2.29	338	P	50	30.33	1.2	OHR	2.44	269	ePn	13	24.50	-3.6X	N	13s	0.70um				
HTW	2.31	19	Pd	50	30.38	0.9			iSn	14	04.50			BTO	19.56	332	eP	56	36.00	-0.6
BLN	2.38	359	P	50	31.14	0.7			Lg	14	14.20			N	12s	1.39um				
MDW	2.39	65	P	50	32.61	2.0	MFT	2.50	99	ePn	13	32.50	3.5X	E	12s	1.12um				
BVW	2.40	60	P	50	33.60	2.8	AGG	2.55	211	ePnc	13	29.04	-0.6	LZH	19.86	312	eP	56	40.00	0.0
DBO	2.53	186	P	50	34.05	1.4	PRK	2.61	138	ePn	13	30.50	0.0		1.5s	48.00nm			4.6mb	
STW	2.57	348	P	50	34.03	0.8	PHP	2.74	281	ePn	13	36.90	4.6X	Z	16s	1.22um			4.9MsZ	
WAH2	2.57	63	P	50	35.75	2.5	DMK	2.87	77	ePn	13	34.80	0.7	E	12s	0.58um				
GBL	2.58	67	P	50	36.31	3.0	EDC	3.04	105	ePn	13	35.50	-1.0			pP	56	49.50	39kmX	
WIW	2.64	71	P	50	36.95	2.8	TIR	3.14	274	ePn	13	45.00	7.1X	CN2	20.24	8	eP	56	43.00	-0.7
LOCW	2.64	64	P	50	37.32	3.1	LACI	3.27	279	ePn	13	48.90	9.0X		0.8s	4.90nm			3.9mb	
JCW	2.65	14	P	50	35.64	1.3	IGT	3.28	240	ePnd	13	41.76	1.7	Z	16s	1.74um			4.5MsZx	
ETW	2.65	41	P	50	37.93	3.5	CTT	3.32	90	iPn	13	40.00	-0.6	N	12s	0.60um				
CRF	2.71	63	P	50	35.02	-0.2	KEK	3.56	246	ePb	13	52.10	8.2X	E	12s	0.58um				
CMW	2.84	10	P	50	38.50	1.4	ISK	3.80	91	ePn	13	44.00	-3.4X			epP	56	53.00	40kmX	
WTV	2.89	43	P	50	38.09	0.3	DST	3.86	113	ePn	13	48.40	0.1	CHG	21.91	261	eP	57	02.00	1.1
RPW	2.97	18	Pd	50	40.30	1.4	YLV	4.10	97	ePn	13	51.00	-0.7	GTA	24.35	315	eP	57	26.00	1.1
NLW	3.01	35	P	50	43.35	3.8	IZI	4.23	100	eP	13	55.00	1.5		1.0s	14.00nm			4.5mb	
MCW	3.05	1	P	50	41.12	1.1	HRT	4.29	93	iP	13	53.50	-0.8	Z	16s	1.16um			4.5MsZx	
SAW	3.17	48	P	50	41.27	-0.5	ISR	4.33	24	ePd	13	57.50	2.5X	E	13s	0.88um				
MBW	3.22	12	P	50	44.09	1.4	TNR	4.44	2	ePd	14	02.00	5.6X	GUN	32.59	285	P	58	40.00	0.0
LNOR	3.24	84	P	50	45.55	2.8	BEO	4.46	325	eP	14	12.50	15.9X	PKI	33.02	284	P	58	43.00	-0.7
86 obs. associated							MLR	4.50	17	ePd	13	58.00	0.6	KKN	33.12	285	P	58	44.00	-0.5
? OCT 18, 1991 02h 50m 46.52±1.32s							VLI	4.57	191	ePn	14	03.90	5.6X	DMN	33.28	285	P	58	45.40	-0.5
38.929 N ±12.5km 27.915 E ±17.2km							BZS	4.74	339	iPc	13	56.00	-2.7	GKN	33.69	285	P	58	48.80	-0.5
DEPTH = 10.0km (geophysicist)							CIN	4.79	138	eP	14	01.00	-0.4	WR2	45.08	163	iPc	00	23.50	-0.4
TURKEY (366)							VRI	5.05	22	ePd	14	06.50	1.4		0.6s	4.70nm			4.6mb	
							CLI	5.83	23	eP	14	15.50	-0.6	ASPA	48.54	165	iPc	00	51.50	0.5
							S.D. = 0.9 on 38 of 49 abs.								1.0s	4.50nm			4.5mb	
							OCT 18, 1991 03h 52m 05.67±0.50s							QUE	48.99	290	eP	00	55.00	0.2
							23.725 N ± 5.4km 121.869 E ± 6.5km							MAIO	54.61	299	iPc	01	36.40	-0.5
							DEPTH = 10.0km (geophysicist)							FBA	68.93	27	P	03	13.20	0.6
							4.7mb (16 abs.)								1.0s	2.50nm			4.4mb	
							TAIWAN (244)							INK	73.42	22	ePd	03	38.90	-0.6
							TWD	0.43	325	iPd	52	15.90	1.4	MBC	73.57	13	eP	03	41.00	0.7
									eS	52	19.50		SKO	81.79	312	eP	04	25.00	-1.3	
							TWF1	0.64	235	iPc	52	20.50	1.9	PRU	82.57	322	eP	04	30.00	-0.1
									eS	52	29.60		YKA	83.15	23	eP	04	32.00	-0.9	
							TWC	0.88	359	iPc	52	24.90	2.3		0.7s	5.10nm			4.8mb	
									eS	52	37.00		KHC	83.53	321	eP	04	34.50	-0.7	
							TATO	1.29	344	P	52	30.60	1.0	GEC2	83.59	321	ePKPc	04	34.90	-0.7
							TWK	1.35	251	iPd	52	32.30	1.8		0.6s	2.40nm			4.6mb	
									eS	52	49.60		GRB5	84.62	322	eP	04	41.10	0.4	
							TWZ	1.39	349	ePc	52	32.60	1.5		1.1s	12.00nm			5.0mb	
							SSE	7.37	355	P	53	53.50	-2.3	PNT	89.07	35	eP	05	04.00	1.6
									0.7s	10.00nm			LPG	89.38	320	eP	04	54.30	-10.0X	
							Z	20s	1.50um					0.8s	6.70nm					
							N	11s	1.00um				LPL	89.38	320	eP	04	54.30	-9.9X	
									pP	54	00.30			0.7s	4.40nm			4.8mb		
									eS	55	20.20		LBF	90.11	323	eP	05	06.80	-0.6	
							GZH	7.86	267	P	54	02.00	-0.7		0.8s	5.35nm			4.8mb	
									1.42um				SMF	90.39	323	eP	05	08.40	-0.2	
									S	55	28.30			0.8s	8.05nm			5.0mb		
							NJ2	8.71	343	Pc	54	11.50	-3.1X	AVF	90.57	323	eP	05	09.20	-0.2
									0.6s	38.00nm				0.8s	7.40nm			5.0mb		
							Z	14s	1.24um				MAF	91.35	323	eP	05	13.20	0.2	
									pP	54	20.00			0.8s	5.35nm			4.9mb		
									S	55	49.00		S.D. = 1.1 on 41 of 47 obs.							
							WHN	9.54	317	Pc	54	23.00	-3.0X	? OCT 18, 1991 04h 06m 39.23±2.54s						
													3.752 N ±48.1km 76.304 W ±64.7km							

DEPTH = 100.0km (geophysicist)
COLOMBIA (103)
MD 2.7 (UVC).

CLMC	0.29	296	eP	06	54.61	0.4
HOOC	0.43	229	eP	06	55.58	0.5
			eS	07	07.40	
ANCC	0.61	247	ePc	06	56.29	0.2
HOBC	0.62	16	eP	06	56.75	0.4

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

? OCT 18, 1991 04h 11m 44.35±6.66s
31.577 S ±23.3km 68.032 W ±61.3km
DEPTH = 33.0km (normal)
SAN JUAN PROVINCE, ARGENTINA (137)

CFA	0.18	260	ePc	11	50.50	-0.3
			S	11	58.30	
RTLL	0.45	303	iPc	11	53.00	-1.2
RTCB	0.66	278	iPd	11	58.00	0.7
RTRS	1.86	318	iPd	12	15.20	0.7
			S	12	41.80	

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

% OCT 18, 1991 04h 41m 20.66±0.99s
42.943 N ±7.4km 12.950 E ±13.1km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

ASS	0.25	301	P	41	25.40	-0.5
			eSg	41	30.10	
ARV	0.55	359	P	41	30.40	-1.5
			eSg	41	39.60	
MNS	0.59	200	P	41	32.00	-0.7
			eSg	41	41.20	
AQU	0.68	150	P	41	34.80	0.7
			eSg	41	44.30	
CRE	1.00	314	P	41	40.50	0.8
			eSg	41	54.60	
RSM	1.05	340	P	41	41.70	1.3

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

? OCT 18, 1991 04h 45m 02.91±1.92s
42.965 N ±7.6km 13.069 E ±17.4km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

ASS	0.32	290	P	45	09.40	-0.1
			eSg	45	14.30	
ARV	0.54	350	P	45	13.80	-0.1
			eSg	45	22.60	
MNS	0.65	206	P	45	15.90	0.0
			eSg	45	25.60	
CRE	1.05	309	P	45	23.00	0.2

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

OCT 18, 1991 05h 53m 12.79±0.70s
39.157 N ±6.7km 143.376 E ±9.1km
DEPTH = 28.3km (3 depth phases)
4.9mb (14 obs.)
OFF EAST COAST OF HONSHU, JAPAN (229)

OFUJ	1.33	267	P	53	35.10	-0.5
			S	53	51.50	
YAMJ	2.79	250	P	53	57.00	0.5
HOOC	3.22	359	eP	54	02.30	-0.3
			eS	54	39.00	
MRRJ	3.70	333	eP	54	10.30	0.9
			eS	54	54.50	
KAKJ	3.89	222	P	54	11.30	-0.8
			S	54	54.60	
NIIJ	3.94	242	P	54	13.60	0.8
KUSJ	4.06	14	eP	54	13.50	-1.1
			eS	54	57.30	
CHJJ	4.66	230	P	54	22.90	-0.2
ASAJ	4.99	354	eP	54	26.20	-1.5
MTMJ	5.10	242	P	54	29.70	0.3
IIDJ	5.69	232	P	54	38.50	0.8
TSRJ	6.91	241	P	54	56.20	1.5
MDJ	11.63	302	eP	56	01.20	1.4
	1.0s		30.00nm		5.5mb	
CN2	14.21	295	eP	56	35.00	0.8
	Z 16s		1.16um			
			pP	56	41.50	
SSE	19.82	253	P	57	42.20	-1.8
	1.0s		15.00nm		4.3mb	
	Z 18s		0.40um		5.1msz	

BJI	20.95	281	pP	57	50.00	30km
	1.5s		18.00nm		4.3mb	
Z 16s			0.35um		3.8mszX	
WHN	25.24	259	eP	58	37.50	-0.3
	1.0s		31.00nm		4.9mb	
XAN	28.02	270	P	59	01.60	-1.9
GYA	33.13	259	P	59	48.00	-0.8
	1.0s		30.00nm		5.2mb	
Z 20s			0.31um		4.0msz	
			pP	59	57.40	32km
GTA	33.48	285	P	59	51.40	-0.3
	0.9s		19.00nm		5.0mb	
Z 17s			0.58um		4.4mszX	
			pP	59	58.00	23km
WMQ	41.30	295	P	00	58.40	1.0
	1.0s		28.00nm		4.9mb	
			sP	01	11.00	
CHG	43.32	255	eP	01	14.50	0.4
FBA	46.48	33	(P)	01	40.20	1.4
GUN	48.50	275	P	01	55.40	-0.1
	0.7s		32.00nm		5.5mb	
KKN	49.03	275	P	01	59.20	-0.2
	0.6s		26.00nm		5.4mb	
PKI	49.03	275	P	01	59.20	-0.4
DMN	49.25	275	P	02	01.00	-0.2
GKN	49.42	276	P	02	02.20	-0.2
	0.5s		10.00nm		5.1mb	
INK	51.79	28	eP	02	21.00	1.4
WR2	59.40	190	eP	03	24.30	9.3X
	0.7s		4.30nm		4.7mb	
HYB	59.81	268	eP	03	17.00	-1.1
HFS	72.78	336	eP	04	40.00	-0.1
	0.4s		2.60nm		4.6mb	
NB2	72.82	338	P	04	40.60	0.3
	0.7s		3.20nm		4.4mb	
GEC2	81.71	329	ePd	05	30.20	0.3
	0.6s		0.87nm		4.0mb	

S.D. = 0.9 on 32 of 34 obs.

% OCT 18, 1991 06h 19m 13.37±0.69s
41.135 N ±11.6km 28.681 E ±7.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

CTT	0.19	274	iPg	19	17.50	-0.1
			iSg	19	21.00	
ISK	0.29	104	iPg	19	19.50	0.0
			eSg	19	24.00	
YLV	0.77	137	ePg	19	28.50	0.0
HRT	0.81	112	iPg	19	29.00	-0.1
			eSg	19	40.50	
DMK	0.98	315	ePn	19	32.00	0.1
IZI	1.00	143	ePn	19	32.50	0.1

S.D. = 0.1 on 6 of 6 obs.

% OCT 18, 1991 06h 32m 28.31±1.38s
44.479 N ±5.0km 6.154 E ±19.7km
DEPTH = 10.0km (geophysicist)
FRANCE (538)

ML 2.4 (LDG).

FRF	0.98	159	Pg	32	47.00	0.0
			Sg	32	58.00	
LRG	1.03	172	Pg	32	48.00	0.2
			Sg	33	00.20	
LPG	1.10	22	Pg	32	48.60	-0.6
SBF	1.11	123	Pg	32	49.20	0.0
			Sg	33	03.40	
LPL	1.12	21	Pg	32	50.00	0.6
LMR	1.17	167	Pg	32	50.00	-0.2
			Sg	33	04.50	

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

? OCT 18, 1991 08h 13m 03.58±4.34s
3.812 N ±56.4km 76.089 W ±82.5km
DEPTH = 110.0km (geophysicist)
COLOMBIA (103)
MD 2.7 (UVC).

CLMC	0.48	278	eP	13	21.05	0.3
			eS	13	35.00	
HOBC	0.54	355	eP	13	20.96	-0.1
			eS	13	34.90	
HOOC	0.64	238	eP	13	22.13	0.1
			eS	13	36.90	
ANCC	0.83	249	eP	13	23.08	-0.3

S.D. = 0.5 on 4 of 4 obs.
? OCT 18, 1991 08h 34m 46.25±3.42s
31.140 S ±9.6km 68.342 W ±36.0km
DEPTH = 10.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.22	210	ePc	34	50.20	-0.8
CFA	0.47	169	e(P)	34	50.00	-5.9X
			S	34	58.00	
RTCB	0.52	228	iPc	34	57.00	0.1
			S	35	10.00	
RTRS	1.36	315	ePc	35	11.10	-0.2
			S	35	34.80	
JACH	2.46	231	iPc	35	31.80	4.7X
PEL	2.82	224	iPc	35	34.40	2.2X
			iS	36	18.50	
ROCH	2.91	230	eP	35	34.60	0.9
PCH	3.08	216	eP	35	37.20	1.3
			iS	36	22.00	
TACH	3.33	221	eP	35	39.50	0.0
CHCH	3.40	214	iP	35	41.00	0.5
LCCH	3.59	229	eP	35	43.00	-0.1
LNK	3.82	222	eP	35	44.50	-1.9

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

* OCT 18, 1991 08h 56m 15.41±0.92s
16.786 N ±16.2km 121.043 E ±18.5km
DEPTH = 33.0km (normal)
4.8mb (7 obs.)
LUZON, PHILIPPINE ISLANDS (249)

MCO	8.83	308	eP	58	25.50	1.7
			eS	59	54.30	
GZH	9.58	312	eP	58	35.00	0.9
QIZ	10.89	283	iPd	58	53.10	0.9
GYA	16.46	308	P	00	08.20	2.5
	1.0s		10.00nm		3.9mb	
XAN	20.34	330	P	00	50.80	-0.9
	0.8s		11.00nm		4.3mb	
CD2	21.12	315	P	00	57.40	-2.3
	0.9s		58.00nm		5.0mb	
TIY	22.18	342	eP	01	11.80	1.4
LZH	24.56	325	eP	01	32.50	-1.2
	1.0s		39.00nm		4.9mb	
SHL	28.51	293	eP	02	07.50	-2.8
WR2	38.78	160	iPc	03	38.90	0.1
	0.3s		6.60nm		4.9mb	
			iPcP	05	50.20	
HYB	40.56	277	eP	03	52.00	-1.7
QIS	41.34	153	iPd	04	01.00	1.0
	0.4s		6.00nm		4.7mb	
ASPA	42.12	162	iPd	04	06.90	0.5
	0.3s		16.90nm		5.3mb	
INK	80.12	21	eP	08	23.00	-0.2

S.D. = 1.7 on 14 of 14 obs.

& OCT 18, 1991 09h 01m 04.16s
60.640 N 151.017 W
DEPTH = 51.4km
KENAI PENINSULA, ALASKA (14)
<AEIC>. ML 2.6 (AEIC).

NKA	0.15	314	iPc	01	13.83	1.4
SLKM	0.41	108	iPc	01	14.58	-0.1
			eS	01	22.81	
NNL	0.62	193	iPd	01	17.68	0.7
RDT	0.69	265	ePd	01	17.25	-0.8

18d 09h

RED 0.90 256 ePd 01 19.89 -0.9
eS 01 32.69
RDW 0.90 261 iPd 01 20.12 -0.8
eS 01 32.84
BGL 0.92 314 ePc 01 20.33 -0.7
PMS 0.93 49 ePd 01 20.79 -0.5
eS 01 33.41
NCG 0.95 325 iPc 01 20.89 -0.6
iS 01 34.43
NCT 0.95 266 eP 01 20.69 -0.8
eS 01 33.62
SEW 0.95 124 eP 01 20.40 -0.9
HOM 1.03 198 eP 01 22.36 -0.2
CNPM 1.12 186 iPd 01 23.37 -0.5
S 01 38.60
PWA 1.15 28 ePd 01 24.04 -0.2
XLV 1.24 197 eP 01 24.65 -0.8
PLRM 1.32 43 iPd 01 25.69 -0.9
SKT 1.37 350 iPd 01 26.63 -0.6
eS 01 44.39
KNK 1.47 57 iPd 01 27.85 -0.8
OPT 1.49 229 eP 01 28.38 -0.5
GHO 1.52 41 ePd 01 28.52 -1.0
KNIM 1.65 99 ePc 01 29.20 -2.0
SML 1.75 47 eP 01 31.98 -0.7
AGU 1.77 224 eP 01 31.76 -1.2
AUW 1.77 225 eP 01 32.76 -0.1
GLI 1.94 81 eP 01 33.23 -2.1
VZW 2.22 77 eP 01 37.64 -1.7
FID 2.23 85 ePc 01 36.57 -2.9
VLZ 2.34 76 eP 01 39.14 -1.8
KLU 2.62 69 iPc 01 43.13 -1.8
TOA 2.76 56 eP 01 46.26 -0.7
TRF 2.84 7 eP 01 48.88 0.6

42 obs. associated

% OCT 18, 1991 09h 04m 02.32 ± 0.83s
42.703 N ± 4.8km 18.586 E ± 7.4km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 1.6 (TTG).

BRY 0.20 351 iPg 04 07.08 0.3
iSg 04 11.06
HCY 0.26 194 iPg 04 07.72 -0.2
iSg 04 12.66
NKY 0.32 70 iPg 04 09.30 0.2
iSg 04 14.80
BDV 0.46 157 iPg 04 11.72 0.1
iSg 04 19.00
TTG 0.57 119 iPg 04 13.94 0.1
iSg 04 22.66
PLE 0.86 43 iPg 04 18.42 -0.6
iSg 04 32.38
PVY 1.03 96 iPg 04 21.86 0.0
iSg 04 37.20

S.D. = 0.4 on 7 of 7 obs.

% OCT 18, 1991 09h 06m 50.55 ± 1.35s
32.088 S ± 21.7km 70.067 W ± 19.8km
DEPTH = 90.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)

JACH 0.74 217 iPc 07 09.10 1.3
iS 07 23.00
PEL 1.17 206 iPc 07 13.10 0.4
iS 07 30.30
ROCH 1.19 222 eP 07 13.20 0.2
eS 07 31.00
ZON 1.30 66 iPc 07 14.00 -0.2
eS 07 34.00
PCH 1.57 194 iPd 07 18.10 0.3
iS 07 39.50
TACH 1.72 205 iP 07 19.60 0.0
iS 07 42.60
LCCH 1.88 222 iPd 07 21.00 -0.6
iS 07 45.00
CHCH 1.90 195 iP 07 22.10 0.0
LNV 2.18 211 iP 07 24.30 -1.3

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

% OCT 18, 1991 09h 07m 22.61 ± 3.21s
20.468 S ± 20.4km 114.003 E ± 27.7km
DEPTH = 33.0km (normal)
4.5mb (3 obs.)
WESTERN AUSTRALIA (590)

MBL 5.50 98 iPd 08 46.30 1.9
eS 09 45.00
MRWA 8.90 169 iPd 09 32.90 1.0
eS 11 05.00
BAL 10.39 167 eP 09 53.00 0.7
eS 11 44.00
KLB 11.58 164 eP 10 08.40 -0.2
eS 12 10.00
MUN 11.63 171 eP 10 09.60 0.3
iS 12 12.50
COOL 12.20 150 eP 10 17.10 0.1
iS 12 21.00
NWA0 12.74 168 eP 10 23.50 -0.7
0.4s 18.00nm 5.5mb X
WARB 12.93 118 iPc 10 25.40 -1.4
0.3s 27.00nm 5.8mb X
RKG 14.30 170 eP 10 44.00 -0.7
0.3s 16.00nm 5.1mb X
eS 13 12.00
MTN 18.06 68 eP 11 33.00 0.2
0.4s 13.00nm 4.4mb
eS 14 41.00
ASPA 18.71 103 iPc 11 40.50 -0.3
0.3s 14.50nm 4.7mb
eS 14 57.80
WR2 19.12 92 eP 11 44.80 -0.9
0.2s 6.40nm 4.5mb
eS 15 03.90
OIS 23.97 95 eP 12 38.80 3.7X
eS 16 53.00

S.D. = 1.0 on 12 of 13 obs.

OCT 18, 1991 10h 32m 18.59 ± 0.24s
31.932 N ± 4.6km 141.628 E ± 4.8km
DEPTH = 33.0km (normal)
5.2mb (40 obs.)
SOUTH OF HONSHU, JAPAN (211)

MDJ 15.78 327 eP 35 59.50 -0.3
0.8s 21.00nm 4.4mb
Z 16s 1.34um
CN2 17.39 318 eP 36 19.00 -1.1
1.0s 13.00nm 4.0mb X
Z 16s 2.31um 4.9msz
N 12s 0.76um
E 12s 0.81um
SSE 17.45 273 P 36 23.50 2.5
1.0s 12.00nm 4.0mb X
Z 20s 0.60um
N 12s 0.40um
E 12s 0.80um
SNY 17.46 309 Pd 36 22.20 1.1
1.0s 58.00nm 4.7mb
Z 17s 1.36um 3.9msz
DL2 17.71 299 eP 36 26.00 1.9
GUMO 18.50 170 eP 36 35.60 1.5
e 36 37.10
e 36 50.60
eS 40 10.20
GUA 18.55 170 eP 36 35.60 0.8
0.9s 194.96nm 5.3mb
NJ2 19.32 276 eP 36 42.50 -1.3
Z 18s 0.59um
BJI 22.08 299 eP 37 11.00 -1.3
1.0s 13.00nm 4.3mb
WHN 23.35 274 ePc 37 25.50 0.7
Z 20s 0.63um 4.1msz
N 13s 0.89um
E 13s 0.79um
TIY 24.59 292 eP 37 37.00 0.0
Z 13s 1.68um 4.7msz X
N 13s 1.03um
HHC 25.69 299 Pd 37 47.20 -0.1
Z 15s 1.77um 4.7msz X
N 11s 0.44um
E 11s 0.57um
BTO 26.80 298 P 37 57.00 -0.6
N 13s 1.06um
E 13s 1.99um
YAK 31.07 349 eP 38 34.50 -1.0
LZH 31.46 288 eP 38 37.50 -2.0
1.0s 16.00nm 4.8mb
Z 16s 1.02um 4.6msz X
E 14s 0.90um
eS 43 50.00

CD2 32.23 278 eP 38 44.60 -1.5
Z 15s 0.79um 4.5msz X
N 12s 1.37um
IRK 33.82 318 eP 39 03.60 3.9X
GTA 34.54 294 Pd 39 05.00 -1.1
1.0s 23.00nm 5.1mb
Z 14s 0.94um 4.7msz X
E 14s 0.93um
WMO 43.49 302 P 40 21.40 0.9
1.0s 21.00nm 4.9mb
sP 40 35.50
PP 42 09.00
MTN 45.65 194 eP 40 36.00 -1.9
GUN 48.04 280 P 40 57.20 0.0
PKI 48.55 280 P 41 00.60 -0.5
0.9s 26.00nm 5.3mb
KKN 48.58 280 P 41 00.80 -0.4
1.0s 66.00nm 5.6mb
DMN 48.79 280 P 41 02.40 -0.5
GKN 49.05 281 P 41 04.60 -0.1
1.0s 44.00nm 5.4mb
KDC 50.91 39 eP 41 17.50 -0.8
0.9s 33.50nm 5.3mb
BRW 51.06 21 eP 41 19.80 0.5
WRA 52.05 189 P 41 26.00 -1.4
0.6s 16.40nm 5.2mb
WR2 52.05 189 iPd 41 26.00 -1.4
0.8s 36.90nm 5.4mb
PWA 52.32 34 eP 41 27.90 -1.0
PMR 52.67 34 eP 41 30.00 -1.6
FBA 53.37 30 eP 41 37.30 0.6
0.8s 20.30nm 5.2mb
NDI 54.97 285 iPd 41 49.00 0.0
1.2s 54.69nm 5.5mb
ASPA 55.78 189 iPd 41 53.60 -1.1
1.0s 13.00nm 4.9mb
HYB 58.39 272 eP 42 12.00 -1.5
DZM 58.72 153 iPc 42 16.90 1.3
INK 58.87 26 iPc 42 14.80 -1.3
WARB 59.53 196 eP 42 21.00 -0.1
MBC 61.37 16 ePd 42 32.80 -0.3
1.0s 29.00nm 5.4mb
QUE 62.75 290 eP 42 44.00 0.8
MRWA 65.51 205 eP 43 01.30 0.5
MAIO 66.16 299 eP 43 06.00 0.9
KLB 67.10 202 eP 43 10.40 -0.5
KEV 68.28 340 iP 43 27.00 9.1X
NWA0 68.50 202 eP 43 19.70 0.0
0.8s 25.00nm 5.3mb
SOD 69.74 338 iP 43 26.50 -0.4
RKG 70.09 201 eP 43 30.00 0.6
DAG 70.87 355 iPc 43 33.80 0.2
0.7s 10.96nm 5.0mb
PNT 71.74 43 eP 43 39.00 -0.4
0.7s 5.00nm 4.6mb
KAF 72.93 334 iP 43 45.80 -0.3
0.8s 24.30nm 5.3mb
NUR 74.54 333 eP 43 55.20 -0.2
1.0s 28.80nm 5.2mb
SES 75.98 39 eP 44 03.00 -0.9
UPP 77.62 335 iP 44 12.80 0.1
FFC 77.91 32 eP 44 17.00 2.5
1.3s 42.00nm 5.3mb
HFS 78.81 336 eP 44 18.80 -0.5
0.8s 19.40nm 5.2mb
NB2 78.96 338 P 44 20.10 -0.1
0.9s 24.40nm 5.2mb
ISA 79.25 55 eP 44 21.00 -1.3
SBB 80.22 55 eP 44 30.00 2.5
GSC 80.60 54 eP 44 29.00 -0.6
PLM 81.60 56 eP 44 34.00 -1.0
GLA 83.20 55 eP 44 43.00 -0.1
KRA 83.42 326 iPd 44 45.00 1.2
0.9s 77.00nm 5.8mb
e 44 55.50
SPC 83.87 326 eP 44 48.10 1.7
KSP 84.53 329 iPc 44 50.00 0.6
0.9s 38.00nm 5.6mb
PSZ 84.91 325 eP 44 53.10 1.6
BRG 85.53 330 iP 44 55.20 0.8
CLL 85.61 331 iP 44 55.00 0.2
1.1s 37.00nm 5.5mb
PRU 85.93 329 eP 44 56.50 0.1
ZST 86.06 326 eP 44 58.20 1.1
KHC 86.98 329 eP 44 49.00 -12.7X
e 45 14.00
GEC2 87.14 329 PKP 45 02.20 -0.3

0.8s 1.74nm 4.4mb
ALO 87.74 50 eP 45 05.00 -0.8
1.3s 7.21nm 4.8mb
LOR 92.48 333 eP 45 27.60 0.1
1.0s 8.00nm 5.1mb
LBF 92.67 333 eP 45 28.40 0.0
1.0s 12.00nm 5.3mb
LPL 92.73 330 eP 45 29.30 0.4
0.9s 19.65nm 5.5mb
LPG 92.74 330 eP 45 29.40 0.3
0.8s 17.45nm 5.5mb
SSF 92.79 333 eP 45 29.10 0.2
0.8s 9.40nm 5.3mb
SMF 93.00 332 eP 45 30.00 0.1
0.8s 6.05nm 5.1mb
AVF 93.07 333 eP 45 30.50 0.3
0.8s 16.10nm 5.5mb
MAF 93.85 333 eP 45 34.50 0.7
0.8s 9.40nm 5.3mb
TCF 93.93 333 eP 45 34.50 0.3
0.9s 9.85nm 5.2mb
LSF 94.22 333 eP 45 35.80 0.3
1.0s 19.00nm 5.5mb
ARE 146.26 71 ePKP 51 59.00 1.9
S.D. = 1.0 on 80 of 83 obs.

% OCT 18, 1991 10h 34m 43.85± 3.11s
39.752 N ±24.0km 29.224 E ±22.2km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
DST 0.48 253 iPg 34 53.50 -0.2
eSg 35 00.50
IZI 0.61 18 iPg 34 56.00 -0.3
eSg 35 05.00
YLV 0.82 8 iPn 34 59.50 -0.3
HRT 1.12 17 ePn 35 05.50 0.6
ISK 1.32 355 ePn 35 08.00 -0.2
KGT 1.63 296 ePn 35 13.00 0.3
S.D. = 0.5 on 6 of 6 obs.

* OCT 18, 1991 10h 57m 13.07± 1.04s
34.476 N ± 9.0km 139.494 E ±10.3km
DEPTH = 33.0km (normal)
4.4mb (2 obs.)

NEAR S. COAST OF HONSHU, JAPAN (230)
CHJJ 1.62 346 iPd 57 39.20 -0.5
S 58 00.00
IIDJ 1.64 308 iPd 57 39.80 -0.2
KAKJ 1.81 18 iP+ 57 41.60 -0.8
S 58 04.30
MTMJ 2.52 327 P 57 54.50 1.9
eS 58 28.30
NIIJ 2.79 352 P 57 56.60 0.3
TSRJ 3.07 291 eP 57 59.90 -0.5
WKYJ 3.24 267 P 58 02.10 -0.7
S 58 04.20
YAMJ 3.72 7 eP 58 09.20 -0.3
eS 58 54.70
WR2 54.34 186 iPc 06 39.10 0.4
0.5s 1.60nm 4.3mb
NB2 75.93 337 P 08 58.40 0.5
0.8s 3.40nm 4.4mb
S.D. = 0.9 on 10 of 10 obs.

? OCT 18, 1991 11h 01m 34.66± 3.70s
34.287 N ±26.5km 139.695 E ±23.5km
DEPTH = 33.0km (normal)

NEAR S. COAST OF HONSHU, JAPAN (230)
CHJJ 1.85 342 P 02 03.80 -0.8
S 02 24.40
IIDJ 1.89 310 eP 02 05.40 0.2
KAKJ 1.95 11 iPd 02 06.30 0.2
eS 02 28.70
MTMJ 2.76 327 P 02 18.10 0.4
S 02 52.70
NIIJ 3.00 349 P 02 21.00 0.0
WKYJ 3.40 270 P 02 26.60 -0.1
S 03 05.10
S.D. = 0.5 on 6 of 6 obs.

& OCT 18, 1991 11h 16m 03.80s
37.115 N 121.862 W
DEPTH = 2.0km
CENTRAL CALIFORNIA (39)

<BRK>. ML 3.1 (BRK). Felt (III)
at Aptos and Watsonville. Felt
in parts of Santa Clara and
Santa Cruz Counties.

GCC 0.14 232 iPd 16 06.73 0.2
MHC 0.29 38 iPd 16 10.50 1.0
iS 16 15.35
ARN 0.35 48 iPc 16 11.25 0.4
SAO 0.48 136 iPc 16 12.83 -0.6
PCC 0.57 313 iPc 16 14.88 -0.2
iS 16 25.42
PRS 0.88 153 iPc 16 20.93 -0.4
iS 16 33.60
ZSP 0.89 339 iPd 16 21.07 -0.4
iS 16 35.02
LLA 0.89 124 iPc 16 20.49 -1.1
PRI 1.37 135 iPd 16 29.19 -0.7
CMB 1.49 52 iPc 16 30.50 -1.2
iS 16 49.76
NWRM 1.57 329 eP 16 30.11 -2.6
FRI 1.73 93 iPc 16 33.18 -1.8
PHAM 1.74 137 eP 16 32.94 -2.3
PKEM 1.76 126 e(P) 16 35.30 -0.2
BCH 2.40 143 eP 16 41.89 -3.1
ORV 2.45 7 iPd 16 42.97 -2.5
BONR 2.95 72 eP 16 52.11 -0.8
TNP 3.81 74 ePn 17 03.88 -1.2
18 obs. associated

* OCT 18, 1991 12h 51m 56.72± 2.60s
32.303 S ±14.9km 71.666 W ±21.0km
DEPTH = 33.0km (normal)
NEAR COAST OF CENTRAL CHILE (135)
MD 4.2 (SAN).

IHA 0.72 178 iPd 52 09.80 -0.6
iS 52 21.70
ROCH 0.87 141 iPc 52 12.00 -0.7
iS 52 26.50
JACH 0.98 113 iPc 52 13.50 -0.8
iS 52 29.00
LCCH 1.17 176 iPd 52 16.50 -0.3
iS 52 33.50
PEL 1.18 136 iPc 52 17.00 0.0
iS 52 35.00
SAN 1.42 144 iP 52 21.00 0.5
iS 52 42.00
TACH 1.48 156 iPd 52 21.50 0.2
iS 52 43.50
PCH 1.63 144 iPd 52 24.00 0.4
iS 52 48.00
LNV 1.66 173 iPc 52 24.50 0.6
iS 52 48.50
CHCH 1.84 153 iPd 52 27.00 0.5
iS 52 52.50
RTCB 2.57 72 iPd 52 35.50 -1.5
ZON 2.65 74 eP 52 40.00 1.9
eS 53 19.00
S.D. = 1.0 on 12 of 12 obs.

% OCT 18, 1991 13h 28m 09.62± 0.50s
42.814 N ± 4.4km 19.244 E ± 3.9km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 1.9 (TTG).

NKY 0.18 270 iPgc 28 14.18 0.4
iSg 28 17.48
TTG 0.38 178 iPgc 28 17.46 0.0
iSg 28 22.98
IVA 0.48 83 iPg 28 19.68 0.2
iSg 28 27.58
BRY 0.52 280 iPg 28 20.00 -0.2
iSg 28 27.86
PLE 0.53 12 iPg 28 20.18 -0.1
iSg 28 28.74
PVY 0.58 112 iPg 28 21.38 -0.1
iSg 28 30.34
BDV 0.61 210 ePg 28 21.48 -0.5
iSg 28 31.08
HCY 0.66 237 iPg 28 22.92 0.1
iSg 28 32.62
ULC 0.85 180 iPg 28 26.26 0.2
iSg 28 29.20
S.D. = 0.3 on 9 of 9 obs.

OCT 18, 1991 14h 04m 54.93± 0.16s
35.692 N ± 2.7km 28.484 E ± 2.1km
DEPTH = 52.4km (10 depth phases)
5.3mb (59 obs.)

EASTERN MEDITERRANEAN SEA (371)
MD 4.6 (HLW).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 26C
Centroid Location:
Origin Time 14:04:54.2 1.5
Lat 35.17N 0.18 Lon 28.52E 0.14
Dep 33.0 FIX Half-duration 1.7
Moment Tensor: Scale 10**16 Nm
Mrr=-1.44 0.40 Mtt=-1.70 0.67
Mff= 3.14 0.46 Mrt= 1.06 0.90
Mrf= 1.30 0.81 Mtf= 3.52 0.40
Principal Axes:
T Val= 5.38 Plg=14 Azm=298
N -1.78 73 80
P -3.61 10 205
Best Double Couple: Mo=4.5*10**16
NP1: Strike=341 Dip=73 Slip= 177
NP2: 72 87 17

YER 1.45 354 iPn 05 20.30 1.1
NPS 2.38 260 ePn 05 36.00 3.7X
BCK 2.45 43 iPn 05 34.00 0.7
KHL 2.75 17 iPn 05 37.30 -0.4
IZM 2.87 340 iPn 05 38.90 -0.4
DST 3.91 2 iPn 05 52.60 -1.3
PRK 3.96 334 ePn 05 54.00 -0.6
LFK 4.14 94 iPn 05 59.60 2.4
ATH 4.45 302 ePn 06 06.20 4.7X
EZN 4.47 338 iPn 06 08.90 -0.8
VLI 4.60 284 ePn 06 05.50 1.9
EDC 4.67 354 iPn 06 03.50 -1.1
IZI 4.70 9 iPn 06 04.50 -0.6
GPA 4.81 17 iPn 06 05.90 -0.8
KGT 4.84 349 iPn 06 05.50 -1.6
YLV 4.92 8 iPn 06 07.50 -0.7
GBZT 5.14 8 eP 06 10.00 -1.3
MFT 5.17 350 eP 06 10.50 -1.3
HRT 5.21 10 iP 06 10.50 -1.7
BBTK 5.35 38 eP 06 14.00 -0.3
ISK 5.38 5 ePn 06 14.00 -0.7
ITU 5.42 4 eP 06 13.00 -2.2
ALN 5.54 340 ePnc 06 16.12 -0.7
PAIG 5.69 319 iPnc 06 18.94 0.0
eSn 07 21.50
OUR 5.84 324 ePnd 06 21.04 0.0
RDO 5.92 338 ePn 06 22.00 -0.1
AGG 5.92 306 iPnc 06 24.26 2.0
eSn 07 26.86
DMK 6.15 355 iP 06 23.70 -1.6
ADI 6.15 113 iPc 06 22.20 -3.3X
HLW 6.30 157 ePn 06 27.00 -0.4
ePb 06 37.00
eSn 07 30.00
eSb 07 46.70
eSg 08 17.00
KOT 6.40 153 ePn 06 27.50 -1.4
eSn 07 35.50
KDZ 6.41 339 iPc 06 29.00 -0.1
Sg 07 37.00
ZNT 6.44 120 iPc 06 26.10 -3.4X
eS 07 33.00
HRI 6.46 110 iPc 06 26.70 -3.2X
LIT 6.47 315 ePnc 06 31.05 1.2
eSn 07 41.22
SOH 6.52 323 ePnd 06 30.90 0.3
eSn 07 41.90
THE 6.57 320 ePnc 06 32.10 0.8
SRS 6.64 326 ePnc 06 31.02 -1.2
RZN 6.67 335 iPc 06 33.00 0.1
Sg 07 44.00
SHMJ 6.72 114 Pd 06 32.33 -1.0
DIM 6.75 341 iP 06 33.00 -0.8
VLS 6.79 294 ePn 06 35.00 0.6
JVI 6.84 121 iPc 06 32.20 -2.9
JMB 6.92 348 iP 06 35.00 -1.2
BURJ 6.99 117 Pd 06 35.99 -1.2
KNT 7.00 323 ePnd 06 37.90 0.6
KAS 7.02 35 eP 06 37.50 -0.1
KZN 7.02 313 ePn 06 40.00 2.3
SALJ 7.03 119 Pd 06 36.54 -1.2
PLD 7.05 336 iPc 06 38.00 0.1

18d 14h

DSI	7.07	124	iPc	06	35.70	-2.6				iSn	09	52.50			1.3s	135.00nm		4.9mb		
JARJ	7.09	117	P	06	37.52	-1.2	MCT	12.08	284	P	07	44.50	-2.5			i	09	16.00		
GRG	7.10	320	ePnd	06	39.62	0.9	ASW	12.19	161	eP	07	45.00	-3.2X	PRU	17.52	329	Pc	08	57.00	0.1
KFNJ	7.10	120	Pd	06	37.64	-1.1				eS	09	50.00			1.3s	133.40nm		4.9mb		
MASJ	7.21	121	Pd	06	39.18	-1.1	AKUR	12.33	161	iPc	07	49.00	-1.1			i	08	57.70		
MKRJ	7.26	123	Pd	06	39.90	-1.1				eS	09	55.00				e	10	23.00		
VAY	7.28	322	iP	06	42.00	0.8	DUI	12.47	303	P	07	50.00	-2.0	PCP	17.59	306	P	08	56.03	-1.8
MKT	7.32	128	iPc	06	39.20	-2.6	BMR	12.53	344	ePd	08	09.00	16.3X	OSS	17.60	314	ePd	08	59.60	1.6
			eS	07	56.00		USI	12.57	288	P	07	50.00	-3.3X	WET	17.66	324	iPc	08	59.20	0.6
LISJ	7.34	125	Pd	06	41.31	-0.7	AKSR	12.64	161	eP	07	54.00	-0.2		1.3s	327.00nm		5.3mb		
IGT	7.52	303	ePnd	06	45.66	1.1				eS	10	10.00		FIN	17.69	305	P	08	57.87	-1.2
FNA	7.56	314	ePnd	06	47.38	2.3	AWKL	12.70	163	eP	07	55.65	0.6	CKI	17.72	306	P	08	58.20	-1.2
DHLJ	7.56	128	Pd	06	43.83	-1.3				eS	10	27.00		IMI	17.79	304	P	08	59.10	-1.3
PGB	7.62	335	iPc	06	46.00	0.0	SDI	12.93	302	P	07	57.70	-0.4	FUR	17.82	320	iPc	09	01.10	0.5
MDSJ	7.64	120	Pd	06	44.67	-1.6	ERC	12.94	285	P	07	57.30	-1.0		1.2s	641.00nm		5.6mb		
QTRJ	7.66	123	Pd	06	43.99	-2.6	UZD	13.19	329	iPc	08	02.60	1.3	VDL	17.89	313	ePd	09	04.00	2.3
QTRJ	7.66	123	Pd	06	45.15	-1.4	AZI	13.30	303	P	08	03.30	0.4	ROB	17.94	305	P	09	01.15	-1.1
JRSJ	7.84	132	Pd	06	47.40	-1.6	BHD	13.34	96	iPd	08	06.00	2.6X	IR7	17.97	83	iPc	09	03.70	1.0
PVL	7.90	343	iP	06	49.00	-0.7				eS	10	09.00		IR5	18.01	85	eP	09	04.00	0.8
KEK	7.97	303	eP	06	52.00	1.3				e	10	53.00		VAI	18.02	310	P	09	03.50	0.5
MBH	7.99	136	iPc	06	48.30	-2.9	AQU	13.47	304	P	08	03.50	-1.7	TMA	18.06	311	ePd	09	04.10	0.3
VTJ	8.01	331	iPc	06	52.00	0.5	RDP	13.71	301	P	08	07.70	-0.7	IR1	18.07	84	iPc	09	05.10	1.2
OHR	8.10	314	iPc	06	55.10	2.5X	BUD	13.73	332	eP	08	08.70	0.2	SBF	18.09	303	eP	09	03.00	-1.0
	1.6s	769.00nm					RMP	13.74	301	P	08	08.40	-0.3	AUTN	18.14	304	P	09	04.82	0.1
		i					PSZ	13.78	335	iP	08	10.00	0.8	AURF	18.17	303	P	09	05.06	0.1
		i					PTJ	13.91	321	eP	08	12.20	1.3	GRC1	18.22	322	iPnc	09	05.50	0.0
AQBJ	8.12	135	Pd	06	51.64	-1.2	MNS	13.97	303	P	08	12.40	0.6	ENR	18.22	304	P	09	05.05	-0.6
NAQJ	8.19	132	Pc	06	52.96	-0.8	VBY	14.02	318	iPc	08	13.40	1.1	TOUF	18.26	304	P	09	06.52	0.2
CSTJ	8.22	121	Pd	06	51.78	-2.6				e	08	17.50		IR4	18.27	85	iPc	09	07.40	1.1
SKO	8.34	321	iPc	06	57.20	1.4				eS	10	45.60		STV	18.29	304	P	09	05.26	-1.3
	0.6s	287.00nm					ASS	14.27	306	P	08	13.30	-2.4	LLS	18.36	313	ePd	09	07.90	0.4
		i					SRO	14.28	331	eP	08	20.70	5.1X	ORO	18.40	309	P	09	06.90	-1.0
		i					ARV	14.28	308	P	08	15.80	0.0	ORX	18.41	309	P	09	06.59	-1.3
		i					RIY	14.40	316	iPc	08	16.70	-0.5	CALN	18.42	302	P	09	07.91	-0.3
		i					TAB	14.48	75	eP	08	20.00	1.5	DOI	18.44	305	P	09	06.80	-1.5
OTFJ	8.43	115	Pd	06	55.52	-1.6	CEY	14.62	318	ePc	08	20.30	0.2	BRG	18.45	330	iPc	09	05.80	-2.4
HSJH	8.50	133	Pd	06	57.02	-1.2	LJU	14.75	319	ePc	08	23.00	1.1		0.8s	130.00nm		5.2mb		
BUC1	8.85	348	eP	07	15.00	12.2X	SPC	14.78	338	iP	08	23.80	1.4	FRF	18.53	302	eP	09	07.90	-1.4
TLB	8.89	358	eP	07	02.00	-1.4	RSM	14.80	309	P	08	23.50	1.1	PZZ	18.54	305	P	09	07.72	-1.8
BUC	8.90	349	eP	07	16.00	12.5X	TRI	14.97	316	iPd	08	25.50	0.9	BHB	18.55	306	P	09	07.41	-2.2
RUWJ	9.16	108	Pc	07	01.56	-5.7X	CRE	14.98	307	P	08	25.90	0.9	LMR	18.56	301	eP	09	08.20	-1.5
LCI	9.51	302	P	07	09.30	-2.7	MAO	15.03	302	Pd	08	25.70	0.2	TEH	18.59	83	eP	09	12.00	1.7
		eSn					ZST	15.07	329	eP	08	26.60	0.7	MMK	18.60	310	ePd	09	09.50	-0.9
DRA	9.54	341	eP	07	16.00	3.7X				i	08	30.20		RSP	18.67	307	P	09	07.61	-3.6X
ULC	9.54	314	iPd	07	13.10	0.7	VOY	15.09	318	ePc	08	26.90	0.5	LRG	18.70	301	eP	09	09.80	-1.5
PVY	9.55	319	iPc	07	14.84	2.3	SFI	15.18	308	P	08	28.00	0.7		1.2s	348.65nm		5.4mb		
ISR	9.55	352	ePd	07	12.00	-0.5	PGD	15.24	307	P	08	30.10	1.7		20s	1.27um				
IYA	9.78	320	iPc	07	17.82	2.1	KER	15.32	90	eP	08	30.00	0.6	LSD	18.86	308	P	09	11.41	-2.2
TTG	9.83	316	iPc	07	17.24	1.0	VKA	15.45	328	iPc	08	32.80	1.9	RRL	18.90	306	P	09	12.33	-1.7
BRD	9.87	354	eP	07	31.00	14.1X				i	08	35.40		DIX	18.96	310	ePd	09	14.10	-0.7
CMP	9.92	346	ePd	07	26.00	8.5X				i	08	52.30		BNI	19.02	306	P	09	16.00	0.6
MLR	9.98	350	iPd	07	18.00	-0.5	KRA	15.65	339	eP	08	37.00	3.7X	ZLA	19.03	314	ePd	09	14.50	-0.9
BDV	9.99	314	iPc	07	18.08	-0.4				e	08	41.20		RYD	19.07	120	ePc	09	17.00	1.0
ROI	10.21	296	P	07	20.10	-1.5	VVI	15.89	315	P	08	36.20	-0.3			eS		12	57.00	
NKY	10.22	317	iPd	07	22.68	0.8	MME	16.04	307	P	08	39.60	0.9	SLE	19.12	315	ePd	09	14.60	-1.8
SOI	10.24	287	P	07	19.60	-2.3	KBA	16.04	320	iPc	08	38.10	-0.5	LPG	19.14	307	eP	09	15.60	-1.3
		eSn												0.8s	209.90nm		5.4mb			
VRI	10.25	353	iPd	07	21.00	-1.1				i	08	42.40		LPL	19.16	307	eP	09	16.00	-1.0
BRT	10.26	304	P	07	21.80	-0.5				i	08	59.60		CLL	19.17	329	iP	09	16.00	-0.8
		eSn												1.9s	510.00nm		5.4mb			
HCY	10.28	314	iPc	07	22.46	0.0	FVI	16.05	318	P	08	40.40	2.0			i		09	34.60	94kmX
PLE	10.36	320	iPc	07	25.84	2.1	BDI	16.05	307	P	08	37.90	-0.7	CDR	19.18	301	ePd	09	16.80	-0.2
ACI	10.41	294	P	07	24.60	0.3	QASM	16.06	122	ePc	08	41.00	2.2			e		09	33.30	81kmX
CZI	10.43	293	P	07	23.00	-1.5				eS	12	36.00		EMS	19.26	309	ePd	09	17.30	-0.8
CSI	10.48	297	P	07	25.50	0.2	KMR	16.30	324	iP+	08	42.80	1.1	MOX	19.29	326	iPd	09	17.90	-0.2
		eSn					CTI	16.37	314	P	08	42.40	-0.3		1.8s	886.00nm		5.7mb		
PPE	10.53	357	eP	07	25.00	-0.9	PGF	16.58	300	eP	08	43.80	-1.5	RSL	19.30	308	P	09	16.70	-1.7
BRY	10.54	316	iPc	07	26.12	0.0	BHG	16.70	321	iPc	08	45.70	-1.0	BSF	20.14	314	eP	09	25.70	-1.6
BAI	10.60	304	Pd	07	25.50	-1.3	SAL	16.81	312	P	08	47.70	-0.4	CDF	20.16	316	eP	09	26.40	-1.0
ATN	10.71	287	P	07	26.50	-1.9	GEC2	17.06	325	ePc	08	50.50	-0.8	OBN	20.20	14	iPd	09	28.10	0.4
MMN	10.74	297	P	07	28.20	-0.5				0.7s	46.74nm			1.0s	52.00nm		4.8mb			
CLI	10.88	356	ePd	07	32.00	1.3	WTTA	17.08	318	iPc	08	53.50	1.9			e		09	43.00	71kmX
BEO	10.98	329	eP	07	32.20	0.2				1.1s	362.00nm				e		10	18.00		
MEU	11.02	281	P	07	31.10	-1.5														
		eSn												HAU	20.49	314	eP	09	29.80	-1.0
DEV	11.02	339	ePc	07	42.00	9.5X	BOB	17.10	308	P	08	52.50	0.7		0.6s	70.45nm		5.2mb		
MGR	11.13	297	P	07	31.80	-2.3	WATA	17.15	318	iPc	08	54.20	1.7		20s	1.38um		4.3msz		
BZS	11.20	334	eP	07	38.50	3.6X				0.9s	318.00nm									
MNO	11.28	285	P	07	35.00	-1.3								ABA	20.54</					

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

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

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

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

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

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

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

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

Hypocenter Symbols

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

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

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

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LBF	21.49	309	eP	09	40.00	-1.0	GIBL	27.71	283	eP	10	38.00	-2.2	NST	66.25	87	eP	15	52.00	12.1X			
TRGS	21.62	296	P	09	43.01	0.5	AAE	28.15	158	eP	10	49.00	4.4X	MBC	66.48	352	ePc	15	41.60	1.0			
BNS	21.64	321	iPd	09	47.60	5.3X	EVAL	28.24	284	ePc	10	48.52	3.6X		0.6s	36.00nm			5.6mb				
	0.9s	98.00nm				5.2mb	EMON	28.50	297	iPd	10	47.87	0.6	BJI	66.59	57	eP	15	46.00	4.3X			
LOR	21.68	310	eP	09	42.00	-0.8	MTE	28.62	290	iPc	10	49.40	1.0		1.0s	13.00nm			4.9mb				
	0.8s	104.95nm				5.3mb					11	02.50	52km			pP	15	59.00	45km				
Z	20s	0.80um				4.1Msz	FIG	29.15	284	eP	10	56.50	3.3X	TIA	69.07	60	eP	15	59.10	1.7			
PYM	21.68	305	P	09	39.59	-3.4X					11	10.50	56km		1.2s	14.00nm			4.8mb				
AVF	21.82	308	eP	09	43.70	-0.5	PTO	29.41	292	eP	10	56.20	0.8	SNY	70.62	52	eP	16	10.00	3.3X			
SSF	21.82	309	eP	09	42.90	-1.3	AVE	29.58	276	iP	10	58.50	1.4	CN2	70.78	50	eP	16	11.40	3.7X			
GRBF	21.99	297	P	09	46.50	0.4					11	16.00	74kmX		1.0s	11.00nm			4.7mb				
MEM	22.04	320	iPc	09	45.20	-1.1	LIS	29.99	287	eP	10	58.00	-2.6	QIZ	72.31	79	eP	16	21.90	4.8X			
BGF	22.06	307	eP	09	45.80	-0.8	TIO	30.14	271	iP	11	03.50	1.3	NJ2	72.41	63	Pc	16	21.50	4.0X			
CAF	22.08	303	eP	09	46.70	-0.1					11	17.00	53km		0.9s	18.00nm			5.0mb				
MAF	22.13	306	eP	09	47.70	0.4	SOD	31.74	359	iP	11	15.40	-0.3			pP	16	35.00	47km				
ENN	22.17	320	eP	09	47.00	-0.6	QUE	32.60	89	eP	11	25.00	1.2	IPM	73.17	97	ePd	16	21.00	-1.3			
	1.0s	50.00nm				4.9mb	KSH	37.49	70	eP	12	09.50	4.1X	BRW	73.24	2	eP	16	23.70	2.0			
LESF	22.21	298	P	09	48.97	0.8	NDI	41.49	85	iPc	12	40.50	2.0	SSE	74.60	63	eP	16	42.50	12.2X			
SALF	22.23	297	P	09	52.05	3.6X					18	52.00				i	16	48.00	18kmX				
MLS	22.34	297	P	09	50.07	0.6					12	46.34	2.1	INK	75.44	353	eP	16	34.00	-0.5			
TCF	22.38	306	eP	09	50.30	0.5	TIC	42.18	235	Pd	12	46.72	2.3	YKA	77.75	343	eP	16	47.40	0.0			
WTS	22.45	323	eP	09	50.50	0.2					0.6s	57.50nm			0.7s	4.60nm			4.6mb				
	1.0s	26.00nm				4.6mb	KIC	42.21	234	Pd	12	46.72	2.3			1 eP	16	53.90	2.0				
DOU	22.53	317	Pd	09	50.40	-0.8					0.6s	81.00nm		IMA	78.55	1	eP	16	53.90	2.0			
	0.7s	53.30nm				5.1mb					19	01.00			0.7s	4.10nm			4.5mb				
		i				10kmX	BOM	42.42	101	iPd	12	48.20	2.1	SOB1	79.01	250	eP	16	58.50	3.4X			
RJF	22.55	303	eP	09	52.30	0.8	LIC	42.50	234	Pd	12	48.98	2.2			e	17	15.00	59km				
Z	20s	1.08um				4.3Msz					0.7s	71.00nm		FBA	79.70	358	eP	16	59.50	1.5			
EROQ	22.58	292	ePd	09	54.05	2.2	POO	43.44	101	eP	12	56.50	2.0	PDCR	79.77	247	(P)	17	02.00	2.8X			
LPO	22.62	302	eP	09	52.90	0.8	KBS	43.88	355	iPc	12	58.40	1.1	FFC	80.41	333	iPd	17	03.00	1.0			
LSF	22.82	306	eP	09	54.60	0.5	WMO	45.38	61	P	13	14.00	4.1X		0.6s	10.00nm			4.9mb				
EPF	22.89	297	eP	09	54.90	0.0					0.8s	29.00nm		PWA	82.99	359	eP	17	16.70	1.4			
	0.8s	18.80nm				4.6mb					PcP	14	49.30		0.9s	42.00nm			5.5mb				
SNF	22.91	318	Pc	09	55.20	0.3	DAG	46.17	346	eP	13	15.20	-0.4	SES	87.14	335	ePd	17	37.80	1.5			
SNF	22.99	302	eP	09	56.50	0.8	GKN	47.76	83	Pc	13	30.40	1.4			pP	17	53.00	52km				
ACU	23.18	286	iPc	09	59.25	1.6	HYB	47.81	99	ePc	13	30.50	1.2	BAO	88.40	250	ePd	17	47.00	4.1X			
EGRA	23.25	295	ePc	09	56.47	-1.8					1.0s	30.00nm		LRM	91.53	334	eP	17	58.90	1.5			
BTH	23.30	297	iPd	10	03.00	4.2X	DMN	48.30	83	Pc	13	34.80	1.5	TUL	91.89	318	eP	17	59.70	0.9			
		i				10 05.00	KKN	48.37	83	Pc	13	34.80	1.0		0.6s	10.20nm			5.4mb				
		iPp				10 10.00	PKI	48.56	83	Pc	13	36.60	1.2	MEO	94.25	319	iPd	18	11.20	1.5			
		iSP				10 16.00	GUN	48.80	82	Pc	13	38.40	1.1	WRA	113.97	98	PKP	23	32.00	1.9			
		iPP				10 29.50	LSZ	50.69	180	iPc	13	54.50	3.1X		0.7s	0.40nm							
		e				10 35.50					15	11.50	376kmX	SPA	125.51	180	iPKPc	23	52.90	1.9			
		PPP				10 39.00	NPA	51.52	167	iPd	14	03.50	5.9X		0.9s	10.91nm							
		iSPp				10 42.00					1.0s	80.00nm											
		i(sPPP)				10 03.00	MTD	52.27	176	iPd	14	05.70	2.4										
ECHE	23.59	288	iPd	10	04.78	3.1X	LSA	52.30	78	P	14	05.20	1.2										
ETOR	24.45	291	iPd	10	11.25	1.2	IRK	54.50	47	eP	14	22.00	2.6X										
MUD	24.55	334	iPc	10	06.00	-4.7X	SHL	54.65	82	iP	14	21.00	-0.1										
	1.1s	135.70nm				5.4mb	GTA	55.31	63	P	14	26.60	1.0										
		i				5.4mb					1.0s	40.00nm											
LDF	24.66	310	P	10	13.20	1.3					Z	20s	0.35um										
	0.6s	70.45nm				5.4mb							pP	14	41.60	56km							
ENIJ	24.71	282	iPc	10	14.94	2.4	BUL	55.53	180	iPd	14	29.90	2.7X	VLS	0.22	54	ePg	50	03.00	0.3			
EVIA	24.81	286	iPd	10	15.59	2.0					iPP	15	29.50	IGT	1.48	359	ePbc	50	24.88	0.9			
ECRI	24.91	296	iPd	10	16.39	1.9									eSb	50	42.21						
FLN	24.94	311	eP	10	13.20	-1.3	CIR	56.47	177	iPc	14	39.50	5.7X	KEK	1.72	345	ePb	50	28.00	0.6			
	0.6s	70.45nm				5.4mb	WIN	58.93	192	iPd	14	54.50	3.2X	AGG	1.82	57	ePbd	50	29.62	0.6			
Z	20s	0.88um				4.3Msz					1.0s	60.00nm				eSb	50	52.11					
NUR	24.96	356	iP	10	14.30	-0.3	LZH	59.52	65	eP	14	57.80	2.5X	VLI	2.44	122	ePg	50	48.00	10.2X			
	0.7s	29.40nm				4.9mb					1.8s	69.00nm		KZN	2.51	25	ePg	50	41.20	2.4			
LPF	25.04	309	P	10	14.60	-0.9					Z	20s	0.44um		LIT	2.63	38	ePnc	50	40.84	0.2		
GRR	25.05	310	P	10	14.40	-1.1					E	15s	0.31um				eSn	51	10.88				
UPP	25.19	347	eP	10	16.00	-0.7							pP	15	14.00	61km	FNA	2.84	16	ePnc	50	43.92	0.4
AFC	25.74	283	ePc	10	23.57	1.2							sP	15	20.50								
ECOG	25.76	283	ePc	10	26.45	4.0X	BFT	61.06	178	iPc	15	11.00	5.2X	OHR	3.08	6	ePn	50	45.00	-1.9			
EGUA	25.81	282	iPd	10	25.08	2.3					0.8s	44.78nm		PAIG	3.19	53	ePnd	50	48.32	-0.2			
EBAN	25.85	285	iPc	10	24.47	1.3	SLR	61.09	180	iPd	15	07.60	1.6			eSn	51	24.92					
TOL	25.97	289	iP	10	25.00	0.8					1.0s	55.00nm		GRG	3.31	28	ePnd	50	50.64	0.5			
	1.0s	210.00nm				5.6mb	CD2	61.66	71	eP	15	10.60	0.8			eSn	51	27.40					
GUD	26.04	291	iPc	10	26.51	1.4	BTO	62.11	58	eP	15	16.60	3.8X	ROI	3.33	298	P	50	50.80	0.3			
HFS	26.26	343	eP	10	25.00	-1.7	PRY	62.29	181	iPc	15	17.50	3.5X	CZ1	3.51	291	P	50	53.70	0.7			
	0.6s	19.90nm				4.8mb					1.0s	65.00nm		SOH	3.61	39	ePnd	50	54.52	0.1			
Z	16s	1.01um				4.5MszX	HHC	63.07	58	P	15	23.00	3.9X	OUR	3.62	50	ePnc	50	54.52	-0.1			
		LR				19 20.00					1.0s	29.00nm				eSn	51	35.94					
KAF	26.48	358	eP	10	28.20	-0.5	CHG	63.64	85	eP	15	24.70	1.7	KNT	3.67	31	iPnd	50	55.10	-0.3			
	0.7s	30.40nm				5.0mb	SEK	63.68	181	iPd	15	27.20	4.1X			eSn	51	36.81					
MAL	26.49	282	iPc	10	30.50	1.4					0.7s	75.34nm		SKO	4.01	12	ePn	51	07.00	7.0X			
EMOR	27.03	285	iPc	10	35.89	1.9	XAN	64.16	65	eP	15	27.00	0.7			eSn	52	03.00					
EPRU	27.11	283	ePd	10	36.71	1.9					0.6s	11.00nm											
LJA	27.27	283	eP	10	36.00	-0.3	BLF	64.49	182	iPd	15	3											

18d 14h

CLMC 2.69 158 eP 51 23.80 0.2
 BUGC 2.81 152 eP 51 25.11 -0.1
 ANCC 2.94 166 eP 51 26.66 -0.4
 HOQC 3.05 162 eP 51 29.11 0.2
 UPA 3.22 323 ePc 51 26.50 -4.5X
 1.0s 180.00nm

BOG 3.91 116 eP 51 49.00 7.9X
 FUQ 3.93 103 eP 51 45.50 4.2X
 PURC 4.22 163 eP 51 48.96 3.3X
 BMG 4.52 81 eP 51 52.00 2.3
 CUMC 5.40 183 eP 52 02.66 0.2
 SDV 7.32 70 ePn 52 29.70 0.6
 TOV 8.41 66 eP 52 44.00 -0.3
 CEOS 9.53 73 iP 52 57.40 -2.3
 OLLA 11.26 71 iP 53 17.80 -5.6X
 PRM 27.91 351 P 56 27.40 -3.7X
 FVM 33.55 341 P 57 20.00 -0.9
 BAO 36.57 127 ePd 57 46.50 -0.6
 ALQ 38.92 321 eP 58 05.00 -1.7
 1.2s 11.72nm 4.5mb

ANMO 38.92 321 P 58 06.60 -0.1
 1.4s 69.77nm 5.2mb
 SOB1 39.71 113 eP 58 14.10 0.8
 GOL 41.53 327 P 58 29.20 1.0
 1.5s 23.58nm 4.7mb
 PDCR 42.60 116 eP 58 38.10 1.2
 GLA 43.58 312 P 58 46.60 1.8
 RSSD 44.15 333 P 58 49.60 0.1
 1.3s 19.00nm 4.8mb

MSU 44.73 321 P 58 55.20 0.9
 PLM 45.22 312 P 59 00.00 1.8
 DAU 45.34 323 P 59 00.00 0.8
 BW06 45.93 327 P 58 56.40 -7.3X
 1.5s 15.26nm 4.7mb
 DUG 46.14 322 P 59 06.10 0.8
 TNP 47.79 317 P 59 19.60 1.1
 BONR 48.46 316 P 59 25.40 1.6
 HPI 48.49 326 P 59 23.30 -0.6
 LRM 49.52 328 eP 59 30.80 -0.9
 SES 52.00 333 eP 59 50.00 -0.3
 LBFM 52.54 319 P 59 55.80 1.1
 LON 55.25 324 P 00 12.60 -1.8
 MCW 56.87 326 P 00 24.00 -2.0
 YKA 62.20 342 eP 01 00.40 -2.0
 0.9s 6.50nm 4.8mb

INK 71.97 341 eP 02 03.00 -0.9
 TOL 73.30 50 eP 02 15.50 3.2X
 MBC 73.46 350 eP 02 11.50 -1.1
 0.6s 16.00nm 5.2mb

RND 75.98 334 P 02 26.90 -0.5
 KHC 85.98 41 eP 03 22.00 1.6
 GEC2 86.08 41 ePc 03 23.70 2.7X
 1.1s 2.44nm 4.4mb

ASPA 145.21 237 iPKPc 10 18.60 -0.3
 1.3s 14.10nm
 WR2 146.19 243 ePKP 10 18.90 -1.6
 0.7s 3.10nm

HYB 146.60 45 ePKP 10 23.00 1.7
 KMI 148.68 359 ePKP 10 30.00 5.3X
 S.D. = 1.3 on 39 of 49 obs.

? OCT 18, 1991 14h 55m 39.03 ± 6.48s
 5.035 N ± 61.3km 76.096 W ± 36.8km
 DEPTH = 90.0km (geophysicist)
 COLOMBIA (103)
 MD 3.9 (UVC).

HOBC 0.68 183 eP 55 55.56 -0.1
 eS 56 09.00
 BUGC 1.15 188 eP 56 00.91 0.0
 CLMC 1.24 202 ePd 56 02.70 0.7
 HOQC 1.65 199 eP 56 07.13 -0.2
 eS 56 29.30

ANCC 1.69 207 ePc 56 07.40 -0.4
 PURC 2.71 186 eP 56 21.91 0.0
 S.D. = 0.5 on 6 of 6 obs.

? OCT 18, 1991 15h 46m 10.15 ± 6.40s
 3.673 N ± 9.8km 77.026 W ± 45.6km
 DEPTH = 10.0km (geophysicist)
 NEAR WEST COAST OF COLOMBIA (102)
 MD 3.2 (UVC).

ANCC 0.22 135 iPd 46 14.75 -0.2

HOQC 0.44 117 eP 46 19.57 0.3
 CLMC 0.51 66 eP 46 20.14 -0.3
 HOBC 1.12 53 eP 46 31.43 0.2
 eS 46 48.50
 S.D. = 0.6 on 4 of 4 obs.

OCT 18, 1991 16h 23m 44.35 ± 0.41s
 41.642 N ± 10.0km 47.638 E ± 5.8km
 DEPTH = 33.0km (normol)
 4.5mb (10 obs.)
 EASTERN CAUCASUS (337)

TAB 3.71 196 eP 24 41.00 0.1
 MSL 6.31 215 eP 25 29.00 11.5X
 eS 26 57.00
 e 27 31.00

TEH 6.58 152 eP 25 10.00 -11.5X
 MAIO 10.66 116 eP 26 13.00 -4.9X
 eS 28 07.00
 OBN 15.31 335 iPd 27 15.00 -4.4X
 0.7s 44.00nm 4.8mb

iPP 27 22.20
 eSP 27 34.00
 eS 30 05.00

VR1 15.68 293 eP 27 25.00 0.6
 ISR 15.72 290 eP 27 25.00 0.1
 MLR 16.18 291 ePc 27 31.50 0.7
 CMP 16.79 290 ePc 27 50.00 11.5X
 SKO 19.51 280 eP 28 11.20 -0.5

SPC 20.58 301 eP 28 20.90 -2.1
 PSZ 20.60 297 eP 28 25.00 1.8
 BUD 21.14 296 e(P) 28 28.00 -0.5
 SRO 21.65 297 eP 28 32.30 -1.4
 e 53 33.30

ZST 22.50 297 eP 28 43.60 1.5
 KSP 23.40 304 eP 28 50.20 -0.7
 NUR 23.56 331 eP 28 51.30 -1.0
 0.3s 5.50nm 4.5mb

KAF 24.15 335 eP 28 57.40 -0.6
 0.4s 9.00nm 4.7mb
 PRU 24.37 301 eP 29 01.00 0.7
 e 29 34.00
 e 30 03.50

GEC2 24.80 298 ePd 29 03.70 -0.9
 0.6s 3.86nm 4.2mb
 BRG 24.87 303 eP 29 05.60 0.5
 1.3s 16.00nm 4.4mb

KHC 24.91 299 eP 29 07.20 1.7
 e 29 47.50
 CLL 25.52 304 iPd 29 12.10 0.8
 1.2s 25.00nm 4.7mb

WTTA 26.14 295 e(P) 29 20.00 2.7X
 NDI 27.27 109 eP 29 27.00 -0.6
 HFS 27.83 323 eP 29 31.50 -0.8
 0.5s 2.60nm 4.2mb

SOD 28.22 343 iP 29 36.80 1.1
 WMO 29.31 72 P 29 47.00 1.1
 0.6s 6.90nm 4.6mb

NB2 29.33 324 P 29 43.10 -2.8
 0.5s 1.30nm 3.9mb
 GKN 33.02 102 P 30 17.40 -1.4
 DMN 33.58 103 P 30 24.80 1.0

KKN 33.61 102 P 30 24.40 0.4
 PKI 33.83 102 P 30 24.60 -1.4
 GUN 33.98 101 P 30 26.80 -0.6
 GTA 39.23 75 P 31 12.60 1.3
 0.8s 6.00nm 4.4mb

XAN 48.10 78 eP 32 22.70 -0.1
 TIY 48.98 72 eP 32 33.40 3.8X
 CHC 49.00 102 eP 32 30.00 0.1
 FBA 73.11 7 P 35 14.40 1.7
 S.D. = 1.2 on 32 of 39 obs.

OCT 18, 1991 16h 48m 50.00 ± 0.44s
 33.702 N ± 7.1km 36.792 E ± 5.1km
 DEPTH = 10.0km (geophysicist)
 4.9mb (5 obs.)
 JORDAN - SYRIA REGION (374)
 MD 4.5 (HLW).

HRI 0.98 244 eP 49 08.00 -0.7
 ADI 1.45 245 iPc 49 16.20 -0.1
 ATZ 1.55 236 iPc 49 17.60 -0.1
 eS 49 37.00
 MML 1.71 223 iPc 49 20.30 0.2
 ZNT 2.08 226 eP 49 26.00 0.7

MKT 3.08 207 eP 49 40.50 0.9
 eS 50 16.00
 LFK 3.12 301 ePn 49 35.60 -4.6X
 RMN 3.69 210 eP 49 48.00 -0.3
 KOT 5.65 230 ePn 50 16.50 0.4
 eSn 51 24.80

MSL 5.86 61 ePnc 50 16.00 -3.0
 ePa 50 26.50
 ePg 50 43.00
 eSn 51 23.00
 e 51 39.00
 iS* 51 43.00
 iLg 51 52.50
 iSg 51 59.50

HLW 6.02 232 e(Pn) 50 32.00 10.8X
 eS 51 48.00
 BHD 6.36 92 ePn 50 26.00 0.0
 ePg 50 52.00
 iSn 51 37.50
 iS* 51 57.00
 iSg 52 13.50

BBTK 6.93 333 eP 50 42.00 7.8X
 YER 7.74 299 ePn 50 43.80 -1.7
 KER 8.59 83 eP 50 55.00 -2.4
 TAB 8.88 58 eP 51 03.00 1.6
 QASM 9.58 141 eP 51 10.00 -0.9
 eS 53 53.00

MJMA 10.75 134 ePc 51 25.00 -2.1
 eS 54 17.00
 SHI 14.00 103 eP 52 08.00 -2.7
 MAIO 18.77 76 eP 53 13.00 1.5
 SPC 19.76 326 eP 53 36.70 13.6X
 ZST 20.67 320 eP 53 31.50 -0.9
 OBN 21.39 360 ePd 53 39.00 -0.7
 1.1s 90.00nm 5.1mb

i 53 41.70
 e 53 59.00
 e 55 16.00

GEC2 22.90 318 P 53 54.40 -0.5
 0.5s 1.07nm 3.6mb X
 PRU 23.09 321 eP 53 57.50 0.8
 e 54 09.50

KHC 23.12 319 eP 54 01.00 4.0X
 QUE 25.79 90 eP 54 27.00 4.0X
 HYB 40.71 103 eP 56 34.00 1.4
 GKN 41.18 85 P 56 38.00 1.5
 0.7s 17.00nm 4.9mb

DMN 41.70 85 P 56 42.60 1.6
 KKN 41.78 85 P 56 43.00 1.4
 0.8s 16.00nm 4.8mb
 PKI 41.97 85 P 56 44.60 1.4
 GUN 42.24 84 P 56 47.20 1.7
 1.0s 40.00nm 5.1mb

INK 78.04 356 eP 00 49.00 -0.8
 FBA 81.66 2 P 01 10.80 1.5
 1.0s 2.00nm 4.1mb

S.D. = 1.5 on 29 of 35 obs.

OCT 18, 1991 17h 22m 55.15 ± 0.10s
 24.295 S ± 2.8km 177.561 W ± 3.0km
 DEPTH = 197.5km (geophysicist)
 5.8mb (76 obs.)
 SOUTH OF FIJI ISLANDS (171)

mb 5.4 (BRK). Mo=8.0+10**18 Nm
 (PPT). Depth from broadband
 displacement seismograms.
 FAULT PLANE SOLUTION: P-Waves
 NP1: Strike=358 Dip=84 Slip=-150
 NP2: 265 60 -7
 Principal Axes:
 T Plg=16 Azm=128
 P 25 225

Comment: The focal mechanism is
 moderately well controlled and
 corresponds to strike-slip
 faulting with a moderate
 normal component. The
 preferred fault plane is not
 determined.

RADIATED ENERGY
 No. of sta: 9 Focal mech. F
 Energy 3.0±1.0*10**13 Nm
 MOMENT TENSOR SOLUTION
 Dep 198 No. of sta: 18
 Moment Tensor: Scale 10**18 Nm
 Mrr=-2.05 Mtt=-1.11
 Mff=3.17 Mrt=1.72

Mrf=-2.81 Mtf= 3.47
 Principal axes:
 T Val= 5.50 Plg=14 Azm=114
 N 0.07 46 10
 P -5.57 41 217
 Best Double Couple: Mo=5.5*10**18
 NP1: Strike=247 Dip=51 Slip= -22
 NP2: 351 73 -139
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 27S, 72C
 Centroid Location:
 Origin Time 17:23: 0.3 0.2
 Lat 23.84S 0.02 Lon 177.28W 0.01
 Dep 202.9 0.7 Half-duration 6.1
 Moment Tensor; Scale 10**18 Nm
 Mrr=-0.80 0.04 Mtt=-2.64 0.07
 Mff= 3.44 0.07 Mrt= 1.47 0.04
 Mrf=-1.92 0.04 Mtf= 3.05 0.06
 Principal Axes:
 T Val= 4.98 Plg=13 Azm=109
 N 0.01 59 357
 P -4.99 27 206
 Best Double Couple: Mo=5.0*10**18
 NP1: Strike=245 Dip=61 Slip= -11
 NP2: 340 80 -151

ODZ	22.81	202	eP	27	40.90	-0.8	LAT	38.23	291	eP	29	58.00	0.3	
			e		28	26.80	RKT	38.90	97	iP	30	03.80	0.6	
MSCZ	23.29	204	P	27	45.60	-0.8		1.4s	225.00nm			5.6mb		
MHZ	23.31	204	eP	27	45.40	-1.2	ADE	39.20	244	iPd	30	06.30	0.7	
			e		29	35.80		1.2s	1968.75nm			6.6mb		
LSCZ	23.33	204	eP	27	46.10	-0.6	QIS	39.66	267	iPd	30	09.60	0.1	
SBCZ	23.33	204	eP	27	45.60	-1.1		0.9s	179.00nm			5.6mb		
CMCZ	23.39	204	eP	27	46.30	-1.1					32	13.50		
MSZ	23.52	207	eP	27	49.70	1.3					35	47.00		
			e		28	38.30	MDG	39.99	292	eP	30	12.40	0.2	
TUZ	23.96	202	eP	27	53.30	0.8	MNDI	41.34	289	eP	30	25.00	1.5	
BCZ	24.66	205	eP	27	59.40	0.3	ASPA	44.17	260	iPd	30	46.30	0.1	
SIZ	25.28	203	eP	28	05.20	0.4		1.4s	322.90nm			5.7mb		
TBI	25.71	94	iP	28	08.20	-0.7	Z	21s	21.10um			6.0msz		
	1.5s	1155.00nm			6.4mb						31	33.30	219kmx	
		iPP			28	48.40	204kmX				iPP	32	28.80	
HNR	26.05	301	eP	28	11.00	-1.1					eScP	36	03.50	
AFR	26.78	81	iP	28	16.10	-2.6					iPcS	36	20.50	
	1.6s	810.00nm			6.2mb						iS	37	02.40	
BRS	26.85	257	iPc	28	21.00	1.7					eScS	40	23.40	
	0.9s	50.00nm			5.2mb		WR2	44.58	266	iPc	30	48.80	-0.6	
		i(Pp)			28	35.00	57kmX		0.6s	161.00nm			5.7mb	
		i(PP)			29	05.00					epP	31	36.40	
		iS			32	30.00					ePcP	32	29.50	
PAE	26.92	81	iP	28	17.40	-2.5					eScP	36	07.50	
	1.6s	735.00nm			6.2mb						eS	37	09.00	
		iPP			28	58.40	205kmX	MHA	48.99	27	P	31	24.00	0.4
PPT	26.95	81	iP	28	17.90	-2.4	HON	49.17	24	P	31	24.40	-0.6	
	1.6s	990.00nm			6.3mb		DHH	49.20	25	P	31	26.40	1.1	
PPN	27.09	81	iP	28	19.10	-2.4	KIP	49.26	24	eP	31	26.24	0.5	
	1.6s	585.00nm			6.1mb						iS	38	16.61	
		iPP			29	00.60	208kmX				eS	39	35.24	
TVO	27.17	82	iP	28	19.70	-2.6	HKL	49.31	27	P	31	25.90	-0.7	
		iPP			29	01.00	206kmX	MTN	49.71	274	eP	31	27.50	-1.8
COO	27.77	250	ePd	28	31.70	4.1X		0.4s	67.00nm			5.5mb		
	0.6s	220.00nm			6.1mb		DRV	49.94	201	iPc	31	31.60	1.2	
		e			35	09.00		50.17	255	iPd	31	31.90	-0.9	
PMO	29.37	77	iP	28	39.40	-2.5	WARB	0.3s	34.00nm			5.4mb		
	1.6s	505.00nm			6.0mb		KNA	50.89	269	eP	31	37.00	-1.3	
		iPP			29	19.40	196kmX	GUA	52.51	312	eP	31	48.90	-1.3
VAH	29.52	78	iP	28	40.60	-2.6		1.0s	272.00nm			5.8mb		
	1.6s	420.00nm			5.9mb						eS	39	00.00	
		iPP			29	20.60	196kmX	GUMO	52.58	312	ePd	31	49.26	-1.4
TPT	29.63	77	iP	28	41.80	-2.3					e	32	37.27	
	1.6s	505.00nm			6.0mb						eScP	32	54.65	
		iPP			29	21.70	196kmX	PJG	52.58	312	eP	31	49.20	-1.5
RUV	29.76	78	iP	28	42.60	-2.7	COOL	54.14	248	iPd	32	00.80	-1.4	
	1.6s	610.00nm			6.1mb			0.6s	92.00nm			5.6mb		
		iPP			29	22.60	196kmX	KLB	56.89	247	iPd	32	20.70	-1.0
RMQ	30.46	259	iPd	28	53.40	1.9					e	33	11.00	
	1.0s	513.00nm			6.2mb		RKG	57.03	243	eP	32	22.00	-0.7	
		iPP			29	37.80		NWAO	57.10	245	iPd	32	22.39	-0.8
		iPd			28	55.10	2.4X	Z	20s	6.90um			5.8msz	
CNB	30.60	241	iPd	28	55.10	2.4X					eS	40	06.00	
	0.3s	181.00nm			6.3mb		MBL	57.41	260	iPd	32	24.00	-1.5	
		e			35	12.00		0.4s	18.00nm			5.2mb		
CAN	30.89	241	eP	28	56.80	1.6	KUPT	57.55	273	eP	32	32.60	6.0X	
		e			30	15.60	436kmX		0.9s	243.30nm			5.9mb	
BWA	31.19	243	eP	28	57.30	-0.5	BAL	57.95	248	iPd	32	28.10	-1.1	
		e			30	16.60	438kmX					e	33	18.00
CTA	33.70	270	iPd-	29	20.30	0.6	MUN	58.12	246	iPd	32	29.40	-0.9	
	0.9s	441.18nm			6.1mb		Z	20s	8.80um			5.9msz		
		i			29	39.00						e	34	11.50
		iPP			30	02.00	200kmX	MRWA	58.84	249	iPc	32	34.30	-1.0
		i(PP)			30	44.00			0.6s	129.00nm			5.8mb	
		iS			34	16.00		CSY	60.74	206	iPd	32	49.80	2.1X
		i			34	25.50			0.9s	612.70nm			6.3mb	
		i(sS)			35	21.00		MNI	61.41	286	ePc	32	52.50	-0.4
		iScS			39	25.00		DAV	63.59	292	ePc+	33	06.00	-1.2
CTAO	33.70	270	iPd	29	20.59	0.9					eS	41	17.80	
		epPd			30	02.63	202kmX	SPA	65.85	180	iPd	33	22.50	1.2
		iPPc			30	24.32		Z	20s	250.50nm			5.9mb	
		iS			34	26.78				1.80um			5.3msz	
		eSS			36	53.78						i	34	11.50
TOO	34.12	238	iPd	29	24.50	1.4	TRT	68.49	271	iPd	33	38.80	0.4	
	0.2s	192.00nm			6.4mb			0.6s	29.10nm			5.2mb		
TAU	34.32	229	ePc	29	23.13	-1.5	TSM	68.88	285	ePd	33	41.00	0.3	
		ePP			30	52.41		KKM	71.15	286	ePd	33	54.00	-0.6
QLP	34.49	258	iPd	29	27.50	1.2		1.0s	70.60nm			5.4mb		
	0.5s	420.00nm			6.3mb		BAG	72.65	298	ePd-	34	02.00	-1.5	
		i			29	45.80	76kmX					e	34	52.00
MCQ	34.87	204	eP	29	30.70	1.7					eS	43	06.00	
	0.2s	3434.10nm			7.6mb X		CHJJ	72.71	324	P	34	01.40	-1.8	
BFD	36.36	240	eP	29	40.00	-1.8	IIDJ	72.87	323	P	34	02.80	-1.4	
	1.0s	359.00nm			6.0mb		OFUJ	73.68	328	P	34	07.30	-1.4	
		i			29	52.80	48kmX	MTMJ	73.75	324	P	34	07.30	-2.0
PMG	36.74	288	iPd-	29	45.00	-0.2	YAMJ	73.78	326	P	34	08.50	-0.9	

TSRJ	73.98	322 P	34 09.60 -1.0		1.5s	180.00nm	5.6mb	MSU	87.45	46 P	35 22.40 0.8
AOMJ	75.46	328 eP	34 16.90 -1.9		Z 24s	2.52um	5.5MsZx	MWU	87.54	33 P	35 22.10 0.6
KUSJ	75.52	332 eP	34 18.10 -1.0		N 14s	1.38um		DUG	87.98	44 P	35 23.80 -0.2
HOOJ	75.55	331 eP	34 18.80 -0.5		E 16s	1.83um		SIT	88.48	22 P	35 28.70 2.9X
MRRJ	76.58	330 eP	34 24.70 -0.3		pP	35 50.00 189kmX		TTA	1.2s	454.55nm	6.2mb
TATO	76.68	305 ePd epPc	34 23.94 -2.1 35 12.11 200kmX		sP	36 12.00		PMT	88.60	10 eP	35 26.50 0.2
SMY	77.04	355 P	34 25.60 -1.7		SKS	45 04.00			88.60	13 iPd	35 25.60 -0.6
ASAJ	1.2s	1010.10nm	6.4mb		S	45 08.00			1.4s	255.80nm	5.9mb
MAW	77.23	332 eP	34 29.10 0.5	TNP	83.97	44 P	35 04.40 -0.1	BJI	88.86	315 ePc	35 27.74 -0.2
	78.15	200 iPd	34 35.80 2.4X		1.2s	67.20nm	5.3mb		2.0s	460.00nm	6.1mb
	1.1s	309.00nm	5.9mb	KVN	84.01	42 P	35 04.70 0.0		eP	36 13.00 191kmX	
OZH	78.84	304 Pd	34 37.50 -0.4		pP	35 51.80 193kmX			ePP	39 02.50	
	1.0s	65.00nm	5.3mb	IPM	84.07	278 ePd	35 52.20 193kmX		eSKS	45 40.00	
	pP	35 22.00 182kmX			0.6s	80.70nm	5.6mb	GVA	88.87	300 ePD	35 29.00 0.5
SBC	80.15	45 ePc	34 46.43 1.8	KDC	84.38	13 P	35 06.10 0.3		1.8s	130.00nm	5.6mb
	i	35 28.14 169kmX			1.1s	225.00nm	5.8mb		Z 40s	4.46um	5.6MsZx
	e	35 50.65		COR	84.57	36 eP	35 08.28 1.3		N 18s	2.30um	
	iS	44 36.47			i	35 51.82 175kmX			E 18s	1.27um	
PRS	80.29	43 eP	34 45.39 0.0		iSKS	45 13.65			SKS	45 40.00	
	ipPd	35 33.52 198kmX			eS	45 22.09			S	45 58.00	
GCC	80.35	42 eP	34 47.41 1.8	DL2	84.76	317 eP	35 08.00 -0.1	HVU	88.90	43 P	35 28.50 0.0
	ipPd	35 31.89 181kmX			pP	35 57.00 200kmX		LOE	88.91	290 iPd	35 28.30 -0.1
BCH	80.38	44 P	34 46.10 0.1		SKS	45 04.00		LNV	89.05	127 eP	35 29.00 -0.2
PCC	80.42	41 eP	34 46.55 0.6		S	45 10.00		DAU	89.10	44 P	35 30.10 0.6
	ipPd	35 33.82 194kmX		NVL	84.97	183 ePc+	35 10.00 1.3	KLU	89.21	15 P	35 29.10 -0.2
SSE	80.43	310 Pd	34 45.50 -0.7		eP	35 59.00 200kmX		DPW	89.39	35 P	35 29.50 -0.9
	1.0s	200.00nm	5.8mb		e	36 05.00		ALO	89.46	51 eP	35 31.00 -0.1
Z 20s	2.90um	5.6MsZx			e	36 14.50			1.5s	88.19nm	5.5mb
N 17s	1.80um				e	36 19.00			Z 18s	3.78um	5.9MsZx
	pP	35 35.00 204kmX			e	36 25.00			eP	36 18.50 191kmX	
	sP	35 53.00			e	36 39.00		ANMO	89.46	51 ePd	35 32.10 1.0
	S	44 32.00			e	36 57.00			1.2s	39.06nm	5.2mb
	ScS	44 47.00			e	37 34.00			e	36 15.30 172kmX	
	sS	45 53.00			e	37 59.00		NST	89.55	287 Pd	35 36.50 4.9X
PHAM	80.58	44 P	34 51.40 4.5X		e	38 16.00		PNT	89.57	34 eP	35 31.00 -0.1
PRI	80.61	43 eP	34 47.50 0.3		ePP	38 33.00			1.4s	225.00nm	5.9mb
	ipPd	35 35.73 198kmX			e	38 43.00		BALM	89.69	16 P	35 31.10 -0.4
SDN	80.65	10 eP									

				isPP	40	31.14		JOZ	121.15	211	ePKP	41	25.00	-1.2		1.3s	555.00nm					
HIA	92.00	324	ePd	35	42.26	0.0			1.0s	20.00nm						EBL	148.30	6	ePKPc	42	15.20	0.0
			e	40	08.74			FRS	121.94	203	iPKPd	41	28.40	0.8		ESK	148.73	6	iPKPc	42	19.80	3.9X
RTCB	92.18	126	iPd	35	45.50	1.7			0.6s	160.00nm							1.0s	180.00nm				
HHC	92.28	314	iPd	35	44.00	0.1		BLF	122.20	205	iPKPc	41	29.50	1.1		KAS	148.87	311	iPKPc	42	17.30	0.7
	1.6s								0.9s	61.54nm					HRI	149.58	295	ePKP	42	16.60	-1.4	
Z	32s							SEK	122.34	206	iPKPd	41	29.20	0.5		DMU	149.61	11	ePKP	42	17.70	0.5
N	18s								0.5s	56.34nm						1.2s	136.00nm					
E	17s							QUE	123.00	291	ePKP	41	30.00	0.0		JVI	150.08	292	ePKP	42	17.50	-1.2
			pP	36	28.00	175kmX		BFT	123.59	210	ePKP	41	32.50	1.2		DCN	150.08	12	ePKP	42	18.30	0.4
			SKS	45	57.00				0.9s	100.84nm					ANTO	150.14	309	ePKPd	42	18.04	-0.6	
GOL	92.58	47	P	35	46.20	0.7		PRY	123.63	207	ePKP	41	31.50	0.2		ANTO	150.14	309	ePKPd	42	18.21	-0.4
	1.2s								1.0s	56.00nm							id	42	23.84			
CD2	93.16	302	iPd	35	49.30	1.2		SLR	124.33	208	iPKPd	41	31.30	-1.3		BBTK	150.17	309	ePKP	42	18.00	-0.7
	2.0s									e	43	14.50			CLI	150.17	324	ePKPd	42	22.30	3.9X	
			sP	36	58.00				1.3s	105.77nm					PPE	150.21	324	ePKP	42	24.00	5.6X	
			iSKS	46	02.50			PDCR	125.34	127	ePKP	41	33.80	-0.9		PTT	150.39	326	ePKP	42	19.00	0.3
			S	46	40.00					e	42	26.30			CFR	150.54	321	ePKP	42	18.00	-0.9	
BTO	93.17	313	iPc	35	48.50	0.5		SOB1	126.17	123	iPKPc	41	35.50	-0.9		MBH	150.65	288	ePKP	42	19.00	-0.7
	1.6s									e	42	29.70			VAL	150.74	16	iPKP	42	25.10	6.2X	
E	18s							DAG	126.45	6	iPKPd	41	34.10	-0.9		RMN	150.83	289	ePKP	42	19.20	-0.7
			pP	36	33.00	177kmX			0.5s	16.90nm					ETA	150.89	11	ePKP	42	24.90	5.7X	
			PP	39	39.00			NPA	126.86	226	iPKP	41	39.40	1.8		KRA	150.90	337	ePKPd	42	20.60	1.3
			SKS	46	02.00				0.8s	220.00nm							i	42	26.00			
			S	46	39.00					i	42	31.40					i	42	33.60			
			sS	47	51.00					i	45	02.00					i	43	16.00			
SES	94.68	36	ePd	35	54.30	-0.3		BUL	129.00	212	iPKPc	41	42.90	1.2		VRI	150.91	324	ePKPd	42	24.00	4.5X
	1.2s								1.0s	150.00nm					BRD	150.95	323	ePKP	42	27.00	7.5X	
			pP	36	42.00	191kmX				i	42	35.30			TLB	150.96	321	ePKPc	42	26.00	6.5X	
MEO	95.09	54	iPd	35	55.20	-1.6				i	43	52.00			LFK	150.99	299	ePKP	42	24.60	4.6X	
LZH	95.38	307	ePd	35	59.21	0.9				i	44	57.50			ECB	151.10	12	ePKP	42	25.40	5.9X	
	1.8s							MAIO	129.94	298	iPKPd	41	43.00	0.0		BMR	151.29	330	ePKPd	42	22.00	2.1X
Z	28s							MTD	130.25	218	iPKP	41	44.00	-0.1		WIT	151.34	355	ePKP	42	27.50	7.7X
N	18s									i	42	45.80			ECP	151.36	11	ePKP	42	26.00	6.1X	
										i	43	47.00			PSN	151.39	319	ePKP	42	22.00	1.8	
			esPc	37	08.07					i	44	51.00			KSP	151.41	342	iPKPc	42	20.60	0.6	
			SKS	46	14.00					i	41	47.00					id	42	26.40			
			S	46	54.00					i	41	51.00					i	42	35.50			
ACO	95.52	52	e(P)	36	03.50	4.7X				i	42	45.00					i	43	17.00			
RSSD	95.59	44	P	35	59.00	-0.2				i	45	14.00					i	42	28.00			
	1.0s									i	42	45.00					i	43	17.00			
YAK	95.74	338	iPc	35	58.00	-1.1		SOD	134.38	347	iPKP	41	50.00	-0.3		ISR	151.47	323	ePKPd	42	28.00	7.6X
			iPp	36	46.00	193kmX		SHI	135.32	288	ePKP	41	52.00	-1.5		SPC	151.49	335	iPKP	42	21.50	1.0
			ePP	40	34.00			KAF	138.89	343	ePKP	41	51.20	-7.7X			i	42	27.80			
			iSKS	46	10.00				0.7s	18.10nm							i	43	18.70			
			iSKKS	46	37.00			KER	140.06	295	ePKP	41	54.00	-8.1X		MLR	151.57	324	ePKPc	42	20.50	-0.1
			eS	46	54.00				140.06	295	ePKP	41	54.00	-8.1X		GPA	151.71	311	ePKP	42	26.50	5.6X
			esS	48	22.00			OBN	140.24	330	ePKP	41	56.00	-5.5X		CEI	151.75	331	ePKP	42	40.00	19.4X
			ePS	48	38.00				1.8s	280.00nm					CLL	151.83	346	iPKP	42	21.00	0.4	
			eSS	53	30.00											1.6s	490.00nm					
			eSSS	57	10.00				Z	20s	2.20um			5.9MsZ				i	42	27.10		
BRW	96.44	7	P	36	02.50	0.4			N	24s	3.30um							i	42	36.30		
			pP	36	49.30	187kmX			E	24s	1.10um							i	43	17.90		
CRZF	96.61	212	e(PKP)	36	12.00	8.4X					ePP	42	51.00					pPKP	43	17.90		
			e(PP)	46	34.00						ePPP	45	19.00			HRT	151.91	312	iPKP	42	20.00	-1.2
			e(SPP)	48	35.00						eSSS	03	20.00			BRG	152.01	344	iPKP	42	20.20	-0.7
INK	97.81	15	eP	36	06.00	-2.3		TAB	140.38	301	ePKP	41	56.00	-6.6X				i	42	27.40		
	1.7s							NUR	140.67	343	ePKP	41	54.30	-7.9X				i	42	36.80		
									0.4s	10.60nm								i	43	18.40		
			pP	36	55.00	197kmX		MJMA	141.28	282	ePKPc	42	00.00	-4.4X				i	42	27.40		
GTA	99.67	309	Pd	36	17.80	0.2		AAE	142.18	253	ePKP	42	03.00	-3.7X				i	42	36.80		
	1.4s							BHD	142.37	293	iPKPc	42	02.00	-4.0X		AKSR	152.07	275	iPKPc	42	25.00	3.2X
										e	44	17.00			WTS	152.14	354	ePKP	42	21.50	0.5	
Z	22s									iSKP	45	29.00				0.9s	189.00nm					
E	14s									ePKS	45	45.00					id	42	28.20			
			SKS	46	35.00					ePPP	46	31.00					e	43	15.00			
YKA	99.77	25	eP	36	27.00	9.7X				eSKS	49	05.00			ISK	152.20	313	ePKP	42	28.00	6.5X	
	0.8s									iSKKKS	51	49.00			CMP	152.20	324	ePKPc	42	31.00	9.6X	
SHL	100.58	293	ePd	36	22.50	0.4									YLV	152.22	312	ePKP	42	26.00	4.3X	
			iS	46	41.50										IZI	152.26	312	ePKP	42	21.50	-0.2	
FVM	102.40	54	Pd	36	22.00	-7.7X		NB2	142.78	353	PKP	42	01.30	-4.6X		AKUR	152.33	275	iPKPc	42	24.00	1.8
LSA	102.68	297	Pd	36	32.40	0.6			1.0s	23.90nm					TNR	152.34	326	ePKPd	42	30.00	8.4X	
			iS	47	52.00			OASM	142.88	282	iPKPc	42	05.00	-2.2		ANMR	152.51	275	iPKPc	42	25.00	2.6X
MBC	106.39	12	ePKP	40	56.00	-0.7		UPP	142.90	347	iPKP	42	01.00	-5.1X		AWKL	152.57	274	iPKPc	42	26.00	3.5X
	1.7s							HFS	143.33	351	ePKP	42	02.00	-4.8X		CTT	152.57	314	ePKP	42	21.50	-0.5
									0.8s	45.00nm					BCK	152.62	305	ePKP	42	29.00	6.7X	
GUN	106.42	294	Pd	36	50.20	1.9		KONO	144.31	354	ePKP	42	06.10	-2.4		PSZ	152.66	334	iPKPc	42	21.50	-0.5
GUN	106.42	294	PKP	40	57.80	-0.9		EDR	147.21	5	ePKPc	42	12.30	-1.1		DMK	152.66	316	ePKP	42	29.70	7.6X
PKI	106.71	293	Pd	36	50.00	0.5		MUD	147.49	353	iPKPd	42	15.90	2.1X		PRU	152.67	343	iPKP	42	22.20	0.3
PKI	106.71	293	PKP	40	57.20	-2.0			1.5s	845.00nm						1.8s	466.90nm					
KKN	106.89	293	Pd	36	51.40	1.2		EDU	147.54	6	ePKPc	42	13.70	-0.2				id	42	28.20		
KKN	106.89	293	PKP	40	58.40	-1.0			1.3s	741.00nm						N	34s	2.20um				
	0.8s							ELO	147.55	6	ePKPc											

18d 17h

JMB	153.04	318	ePKP	42	23.00	0.4											1.9s	171.10nm					
KHL	153.08	308	ePKP	42	24.00	1.1											ORO	158.25	349	PKP	42	28.70	-0.8
BNS	153.12	353	iPKPc	42	23.50	1.0											AGO	158.28	359	PKP	42	30.57	1.2
			i c	42	42.80		LDF	155.66	4	iPKPc	42	26.50	0.5				PLDF	158.35	358	PKP	42	28.81	-0.7
PVL	153.34	321	ePKP	42	23.00	0.0	GRR	155.81	5	iPKPc	42	26.90	0.7				LPL	158.54	352	iPKPc	42	31.10	1.2
EDC	153.34	313	iPKP	42	30.50	7.4X	ECH	155.84	352	PKP	42	26.29	0.0					1.8s	103.60nm				
BUD	153.35	334	ePKP	42	23.50	0.6	PTJ	155.84	336	ePKP	42	25.80	-0.7				LPG	158.56	352	iPKPc	42	30.90	0.8
SRO	153.36	336	iPKP	42	24.20	1.3	LIBD	155.84	352	PKP	42	26.46	0.2					1.8s	129.45nm				
			i	42	44.10		OUR	155.86	317	iPKPc	42	25.64	-0.9				IGT	158.58	319	iPKPc	42	29.76	-0.1
ENN	153.44	355	ePKP	42	23.00	0.1	WATA	155.88	345	iPKPd	42	26.20	-0.4				PYM	158.59	359	PKP	42	31.20	1.4
	1.1s	27.00nm						1.5s	634.00nm							KEK	158.77	321	ePKP	42	30.50	0.4	
			e	42	30.20					i c	42	26.60				SFI	158.96	341	PKP	42	30.00	-0.1	
			e	42	43.00					i	42	36.50				ARV	158.99	338	PKP	42	31.00	0.8	
ZST	153.47	338	iPKPd	42	23.40	0.4	ZAG	155.90	336	ePKP	42	25.00	-1.4			SSB	158.99	356	PKP	42	31.42	1.2	
			i	42	45.20		WTTA	155.93	345	iPKPd	42	25.90	-0.8			BNI	159.01	352	PKP	42	31.50	1.2	
UCC	153.50	357	PKP	42	25.00	2.0		1.8s	860.00nm						RJF	159.03	2	iPKPc	42	31.20	1.0		
			i	42	43.00					i c	42	27.00					1.8s	172.65nm					
MFT	153.51	314	ePKP	42	23.50	0.0				i	42	54.80			Z	22s	1.70um			5.8msz			
MEM	153.59	355	PKPc	42	23.90	0.8	VITF	155.96	354	PKP	42	26.93	0.5		LBL	159.10	358	PKP	42	32.09	1.7		
			e	42	31.10		SOH	155.96	318	iPKPc	42	25.16	-1.6		MBO	159.24	115	iPKPd	42	33.10	1.9		
			i	42	44.30		KNT	156.03	319	iPKPc	42	25.98	-0.8		STS	159.36	23	iPKPc	42	32.47	1.9		
			e	43	22.30		FEL	156.05	351	PKP	42	26.20	-0.5		LFF	159.36	3	iPKPc	42	31.60	1.1		
KGT	153.66	314	ePKP	42	32.50	9.0X	VAY	156.12	320	iPKP	42	26.00	-0.9		CAF	159.42	1	iPKPc	42	31.90	1.2		
VKA	153.68	339	iPKPd	42	23.40	0.1		1.4s	316.00nm							1.7s	99.25nm						
	4.5s	2015.00nm								i	42	55.40			ASS	159.46	338	PKP	42	31.50	0.7		
			i	42	45.70					i	43	43.60			LPO	159.63	3	iPKPc	42	32.30	1.4		
			i	43	15.30		HAU	156.13	354	iPKPc	42	27.30	0.6			1.9s	140.90nm						
BZS	153.68	329	ePKP	42	20.00	-3.4X	Z	21s	1.45um			5.8msz		DUI	160.00	333	PKP	42	31.50	0.0			
TNS	153.70	351	ePKP	42	31.50	8.1X	LPF	156.15	6	iPKPc	42	27.20	0.5		SBF	160.05	349	iPKPc	42	32.20	0.8		
			e	42	44.30			1.8s	103.60nm						1.6s	174.15nm							
KHC	153.71	343	iPKPd	42	22.90	-0.5	MOF	156.20	352	PKP	42	26.72	-0.2		MNS	160.06	337	PKP	42	29.80	-1.6		
	1.5s	352.20nm					LJU	156.21	339	ePKPd	42	26.50	-0.3		SDI	160.22	334	PKP	42	31.50	-0.2		
			e	42	31.80		FVI	156.25	342	PKP	42	26.00	-0.8		ERUA	160.28	21	iPKPd	42	33.01	1.4		
HLW	153.71	289	ePKP	42	24.00	0.1	BSF	156.26	353	PKP	42	27.14	0.1		FRF	160.47	351	iPKPc	42	32.60	0.8		
			e	42	43.40		PAIG	156.29	316	iPKPc	42	26.16	-0.9			1.7s	132.35nm						
			e	42	32.00		VOY	156.43	340	ePKPc	42	27.50	0.2		LRG	160.62	351	iPKPc	42	42.32	10.4X		
			e	42	46.00					e	42	55.40				1.6s	136.80nm						
GRF	153.73	347	iPKPd	42	23.50	0.1	VBY	156.43	337	ePKPd	42	27.30	0.2		Z	22s	1.90um			5.3msz			
Z	20s	1.40um			5.8msz					i	42	56.00			CSI	160.64	326	PKP	42	32.70	0.6		
			e	42	31.20		PLE	156.44	328	iPKPc	42	27.96	0.6		ROI	160.65	325	PKP	42	32.80	0.7		
			e	42	46.10		OGA	156.45	345	iPKPc	42	28.10	0.7		LIC	160.65	157	PKPd	42	33.08	0.3		
SNF	153.79	357	PKPc	42	24.00	0.6	GRG	156.45	320	iPKPc	42	26.78	-0.6			1.2s	74.50nm						
			e	42	32.00		CEY	156.51	339	e(PKP)	42	24.50	-2.8		Z	20s	0.60um						
			e	42	45.20		BBS	156.53	351	PKP	42	26.99	-0.3		WMN	160.71	327	PKP	42	34.40	2.3X		
			e	43	23.00		IVA	156.53	326	iPKPc	42	27.64	0.2		LMR	160.72	351	iPKPc	42	32.90	0.9		
WET	153.87	344	iPKPc	42	24.50	0.9	PVY	156.69	326	iPKPc	42	27.68	-0.1			1.9s	161.05nm						
DIM	153.92	318	ePKP	42	24.00	0.2	LOMF	156.73	352	PKP	42	27.14	-0.4		MGR	160.73	328	PKP	42	32.00	-0.1		
GEC2	153.94	343	ePKPc	42	23.40	-0.4	VVI	156.91	342	PKP	42	28.00	0.2		PTO	160.84	26	ePKP	42	33.00	0.8		
	1.0s	11.07nm					LIT	156.92	318	iPKPc	42	27.33	-0.6		KIC	160.88	158	PKPd	42	33.36	0.3		
DOU	154.19	357	PKP	42	26.90	3.0X	NKY	157.02	328	iPKPc	42	28.26	0.1			1.0s	45.50nm						
			i	42	33.00		GRC	157.04	359	PKP	42	29.20	1.4		PGF	161.00	345	ePKP	42	33.40	0.9		
			i	42	46.80		LOR	157.05	358	iPKPc	42	28.80	0.9			1.6s	161.70nm						
			e	43	23.90			1.5s	112.30nm					TIC	161.05	157	PKP	42	33.72	0.5			
KDZ	154.22	318	ePKP	42	24.00	-0.3	Z	21s	1.95um			5.9msz			0.8s	18.00nm							
ALN	154.24	316	iPKPc	42	23.08	-1.2	CTI	157.06	343	PKP	42	27.50	-0.6		CZI	161.14	325	PKP	42	32.80	0.3		
UZD	154.25	334	iPKPd	42	24.80	0.6	FNA	157.16	321	iPKPc	42	28.28	0.0		EPF	161.23	5	iPKPc	42	34.10	1.5		
PLD	154.38	319	ePKP	42	24.00	-0.5	NPS	157.16	304	ePKP	42	28.00	-0.4			1.7s	132.35nm						
PGB	154.43	321	ePKP	42	24.00	-0.6	TTG	157.17	326	iPKPc	42	28.42	0.3		ECRI	161.28	11	iPKPc	42	34.81	2.1X		
RDO	154.43	317	ePKP	42	24.00	-0.5	BRV	157.17	328	iPKPc	42	28.42	0.1		LESF	161.29	3	PKP	42	34.12	1.5		
YER	154.45	306	ePKP	42	31.00	6.2X	KZN	157.23	319	ePKP	42	28.00	-0.4		LSPF	161.39	1	PKP	42	34.04	1.3		
WLF	154.51	354	iPKPc	42	25.78	1.4	SSF	157.27	358	iPKPc	42	29.00	0.9		MTE	161.88	25	iPKPc	42	34.70	1.3		
			i	42	34.43			1.5s	141.00nm							i	43	26.50					
			i	42	48.83		OHR	157.28	322	iPKP	42	27.90	-0.5		EGRA	162.00	7	iPKPc	42	35.88	2.6X		
			i	43	25.02			1.9s	235.00nm					SOI	162.02	323	PKP	42	33.20	-0.2			
EZN	154.62	313	ePKP	42	24.00	-0.8				i	43	00.70		ETER	162.04	359	iPKPc	42	34.81	1.5			
RZN	154.62	319	iPKP	42	25.00	-0.1	LBF	157.33	357	iPKPc	42	29.00	0.7		MTH	162.42	31	ePKP	42	36.00	2.1X		
IZM	154.66	310	ePKP	42	23.90	-1.1		1.6s	130.60nm					LIS	162.58	32	iPKPc	42	34.10	0.1			
BEO	154.82	329	ePKP	42	25.60	0.7	BDV	157.50	327	iPKPc	42	28.88	0.3		EPLA	162.72	23	iPKPc	42	36.60	2.4X		
			i	42	50.00		ULC	157.52	326	iPKPc	42	28.68	0.1		GUD	162.79	17	iPKPc	42	36.96	2.6X		
VTS	154.95	322	ePKP	42	26.00	0.6	HCV	157.54	328	iPKPc	42	28.94	0.3		ETOR	163.10	12	iPKPc	42	36.78	2.2X		
PRK	154.95	312	ePKP	42	34.50	9.2X	AVF	157.54	358	iPKPc	42	29.20	0.8		EROO	163.43	5	iPKPc	42	36.78	2.0		
GWf	155.03	352	PKP	42	25.80	0.6		1.6s	74.65nm					TOL	163.52	18	ePKPc	42	33.94	-1.0			
FUR	155.17	346	iPKPc	42	26.00	0.6	MFF	157.64	5	iPKPc	42	29.50	0.9				ePKP	46	32.96				
			i	42	35.50			1.7s	102.95nm							ePP	47	08.05					
			i	42	51.70		AGG	157.66	316	iPKPc	42	27.56	-1.3				eHPP	47	10.37				
BHG	155.19	343	ePKP	42	25.20	-0.2	SMF	157.67	357	iPKPc	42	29.30	0.7		MCT	163.62	327						

EPRU	165.76	26	iPKPc	42	39.66	2.6X			1.5s	67.00nm	4.9mb	BTO	34.38	344	eP	16	55.50	-1.0	
EHUE	165.85	17	iPKPd	42	38.22	1.1	Z	20s	3.30um	4.8Msz		N	16s		1.57um				
ALJ	165.86	27	ePKP	42	39.00	1.8	N	17s	1.80um						eP	17	05.00	32km	
AFC	166.10	20	iPKPc	42	37.96	0.5	E	16s	1.20um						ePP	18	13.00		
EJIF	166.10	28	iPKPc	42	40.20	2.9X			pP	15	27.00	35km			eS	22	23.00		
MOMI	166.10	29	ePKP	42	40.50	1.2			S	19	23.00		CN2	35.96	4	eP	17	08.80	-0.9
PLAT	166.26	29	ePKP	42	37.50	0.1			sS	19	39.00			1.2s	25.00nm			5.0mb	
MAL	166.28	24	iPKPd	42	37.50	0.1	Gya	23.66	323 iPd	15	20.00	0.2	Z	20s	3.86um			5.2Msz	
			i	43	41.00			1.8s	130.00nm			5.1mb	N	11s	0.25um				
			iPP	47	10.00								E	11s	0.52um				
EGUA	166.48	21	iPKPc	42	38.54	1.0	Z	20s	4.38um	4.9Msz					PP	18	34.00		
AVE	167.55	42	iPKP	42	40.20	1.7	N	14s	3.02um			LSA	36.32	311	iPd	17	14.00	0.5	
			i	43	31.00		E	14s	2.21um				0.6s	20.00nm			5.2mb		
IFR	168.68	34	iPKPd	42	42.80	3.4X			sP	15	38.00				iS	22	54.00		
TIO	169.16	50	iPKP	42	40.60	0.9	WHN	23.75	343 ePc	15	22.00	1.5	CTA	36.51	140	iPd	17	08.50	-6.0X
			i	42	51.50		Z	18s	3.61um	4.9Msz			1.5s	62.50nm			5.3mb		
S.D. = 1.1 on 427 of 524 obs.							N	12s	1.30um			MRWA	37.29	189	eP	17	20.60	-0.4	
							E	12s	1.83um			GTA	37.29	331	iPd	17	21.40	0.3	
OCT	18,	1991	19h	10m	10.41 ± 0.22s				pP	15	36.00	58kmX			10.00nm			4.9mb	
7.817 N ± 3.6km 122.127 E ± 5.0km									S	19	38.00			37.29	331	iPd	17	21.40	0.3
DEPTH = 35.5km (8 depth phases)							KHT	24.08	289 iPd	15	24.90	1.1		1.0s	74.00nm			5.5mb	
5.3mb (33 obs.) 5.0Msz (9 obs.)							NJ2	24.30	353 Pc	15	26.50	0.7	Z	18s	4.19um			5.3Msz	
MINDANAO, PHILIPPINE ISLANDS (259)							Z	28s	1.89um	4.4MszX			N	16s	2.73um				
CENTROID, MOMENT TENSOR (HRV)									pP	15	40.00	56kmX			sP	17	38.20		
Data Used: GDSN									iS	19	45.50				PcP	19	37.80		
L.P.B.: 11S, 20C							KNA	24.32	164 eP	15	26.70	0.6			S	23	07.00		
Centroid Location:							BDT	24.41	295 eP	15	28.00	1.0	BAL	38.55	188	eP	17	31.00	-0.6
Origin Time 19:10:11.1 0.8								1.0s	165.60nm	5.5mb		KLB	39.41	186	eP	17	38.00	-0.7	
Lat 7.87N 0.08 Lon 122.22E 0.13						CHG	25.03	298 ePd	15	33.00	0.0		0.5s	7.00nm			4.7mb		
Dep 15.4 8.2 Half-duration 2.3							1.2s	117.19nm	5.3mb			GUN	39.64	305 Pd	17	41.60	0.4		
Moment Tensor; Scale 10**17 Nm								eS	19	56.00		PKI	39.89	304 Pd	17	43.00	-0.2		
Mrr=-0.49 0.22 Mtt= 2.30 0.21							KMI	25.27	315 Pd	15	35.50	0.1	MUN	39.97	188 eP	17	43.00	-0.4	
Mff=-1.82 0.30 Mrt= 0.09 0.54							Z	24s	6.00um	5.0MszX			KKN	40.08	304 Pd	17	44.40	-0.3	
Mrf=-1.63 1.09 Mtf=-0.68 0.17							N	12s	0.60um			DMN	40.15	304 Pd	17	45.20	-0.1		
Principal Axes:							E	12s	0.90um			GKN	40.69	304 Pd	17	49.60	0.0		
T Val= 2.46 Plg= 8 Azm= 12									pP	15	49.50	58kmX	RMO	42.79	144 eP	18	06.60	0.0	
N 0.50 56 115									eS	20	00.00		HYB	43.49	287 iPd	18	12.60	0.2	
P -2.96 33 277							TIA	28.63	352 eP	16	06.50	0.7		1.0s	110.00nm			5.6mb	
Best Double Couple:Mo=2.7*10**17								E	14s	0.68um			STK	43.64	156 eP	18	27.00	55kmX	
NP1:Strike= 60 Dip=61 Slip=-161							CD2	28.68	326 eP	16	04.90	-1.5		0.6s	52.10nm			1.1	
NP2: 320 74 -31								1.2s	37.00nm	4.9mb			CMS	45.18	151 iPc	18	26.30	0.5	
							Z	18s	3.73um	5.0Msz			0.9s	22.00nm			5.1mb		
DAV	3.50	102	eP+	11	06.50	2.8	E	13s	2.14um			ADE	45.34	161 iPc	18	27.70	0.6		
TSM	5.49	231	iPd	11	32.90	0.9			pP	16	13.00	2Bkm		0.7s	221.92nm			6.2mb	
	0.2s	197.50nm				6.3mb			S	20	52.00		BRS	45.89	141 iPc	18	30.40	-1.1	
		e	12	33.80			XAN	28.80	337 P	16	05.90	-1.5		1.0s	8.50nm			4.6mb	
KKM	6.13	254	ePd	11	41.20	0.1	MBL	28.88	184 eP	16	07.00	-1.2		i		18	41.00	36km	
	1.0s	484.80nm				6.1mb		0.6s	5.00nm	4.4mb		IRK	46.67	345 eP	18	49.10	11.8X		
		e	12	47.10			WRA	30.09	157 P	16	09.00	-10.1X		e		19	13.00	101kmX	
OCP	6.86	351	eP	12	33.50	42.3X		1.0s	0.40nm			WR2	30.11	157 iPd	16	17.70	-1.5		
MNI	6.88	157	eP	11	52.50	0.9		0.6s	27.10nm	5.2mb		TIY	31.03	345 eP	16	27.00	-0.2		
		eS	13	04.50				31.03	345 eP	16	27.00	-0.2		Z	18s	3.17um		5.0Msz	
BAG	8.67	350	ePc+	12	16.00	-0.7		Z	18s	3.17um	5.0Msz		BJI	32.52	351 eP	16	46.50	6.4X	
	1.7s	884.62nm				6.6mb X		1.5s	53.00nm	5.2mb			1.5s	53.00nm	5.2mb				
		eS	13	54.00				Z	28s	2.10um	4.7MszX		BJI	32.52	351 eP	16	41.50	1.4	
AAI	12.93	152	eP	13	20.00	5.5X			eS	21	48.00			1.5s	53.00nm	5.2mb			
HKC	16.31	333	eP	14	02.50	4.0X			S	21	27.50			Z	28s	2.10um	4.7MszX		
QIZ	16.33	314	Pd	13	59.00	0.3			iPc	16	42.50	0.3	BOM	49.07	288 eP	18	52.30	-4.2X	
	1.2s	220.00nm				5.2mb			eS	21	48.00			0.7s	40.00nm			5.6mb	
	N 11s	3.10um							pP	16	53.00	38km		BWA	48.83	151 eP	18	56.00	1.5
	E 11s	1.80um							PP	17	50.50			e		19	06.70	37km	
		S	17	02.00					S	21	55.00			e		23	01.00		
TATO	17.07	358 (P)		14	08.50	0.4			sS	22	10.00			e		23	45.00		
OZH	17.36	349 eP		14	12.80	1.1			S	16	44.00	-0.7	MAIO	63.41	307 eP	20	39.00	-0.1	
	Z 24s	4.04um				4.7MszX			iPc	16	46.60	-0.9	SHI	68.46	299 eP	21	10.00	-1.7	
	E 20s	3.41um							eS	21	48.00		IMA	80.55	24 eP	22	21.20	0.7	
		pP	14	17.00					S	21	55.00			1.2s	62.50nm			5.5mb	
		S	17	18.00					sS	22	15.50			81.08	325 eP	22	22.00	-1.3	
GZH	17.37	332 iPc		14	15.00	3.2X			S	16	50.20	-1.8		e		22	33.00	36km	
	Z 18s	4.24um				4.7MszX			pP	16	56.50			e		22	55.00		
	N 14s	1.74um							PP	17	50.50			e		22	55.00		
	E 12s	1.20um							S	21	55.00		QUE	56.12	301 eP	19	50.00	0.8	
		eS	17	25.00					S	22	10.00			e		23	45.00		
KUPT	17.91	175 eP		14	29.00	10.4X			S	16	44.00	-0.7		e		20	39.00	-0.1	
TRT	18.09	212 ePd		14	25.50	4.7X			S	16	46.60	-0.9		e		21	10.00	-1.7	
	0.8s	213.60nm				5.3mb	QIS	33.02	149 eP	16	44.00	-0.7		e		22	21.20	0.7	
KGM	19.60	254 ePd		14	41.50	2.7	ASPA	33.34	160 iPc	16	46.60	-0.9		e		22	21.20	0.7	
IPM	21.22	263 ePd		14	57.50	1.9		0.8s	27.10nm	5.2mb									
	1.3s	178.90nm				5.3mb	SHL	33.79	305 iP	16	51.00	-0.6							
SNG	21.34	270 eP		14	57.90	1.1			eS	22	15.50								
	1.3s	250.00nm				5.5mb	SNY	33.90	2 eP	16	50.20	-1.8							
		eS	19	56.80			WARB	34.08	173 eP	16	53.50	-0.3							
LOE	22.05	298 eP		15	02.00	-1.9	HHC	34.21	346 eP	16	54.80	-0.2							
MTN	22.39	156 eP		15	07.00	-0.3			S	16	54.80	-0.2	HR1	82.76	303 iPd	22	32.30	-0.4	
	0.5s	43.00nm				5.2mb	Z	26s	3.24um	4.9MszX			DSI	83.20	301 iPd	22	34.60	-0.2	
							N	18s	1.60um				PRNI	83.64	300 iPd	22	37.10	0.0	
NST	22.89	292 iPc		15	16.00	3.8X	E	18s	1.80um				KEV	84.50	340 iP	22	42.50	1.9	
SSE	23.18	358 Pc		15	17.50	2.6			pP	17	10.50	63kmX		SOD	84.96	337 iP	22	42.20	-0.8
									eS	22	26.00		KAF	85.87	332 eP	22	46.00	-1.1	

18d 19h

INK	88.05	21	eP	23	06.00	7.9X	LST	21.06	84	e(P)	16	47.56	-0.5	1.0s	10.00nm	5.0mb				
MLR	88.80	316	ePd	23	03.00	0.7	PWLA	22.70	87	eP	17	02.95	-1.5	LPG	83.00	37	eP	24	28.40	-0.3
MBC	88.97	12	eP	23	12.50	10.1X	PPM	23.55	135	iP	17	15.50	2.1	1.0s	10.00nm	5.0mb				
	1.0s	13.00nm					YKA	25.47	2	eP	17	28.90	-2.1	KHC	83.26	31	eP	24	29.00	-0.6
VAY	92.01	312	eP	23	16.00	-1.1		1.1s	20.70nm				4.8mb	1.3s	12.00nm	5.0mb				
BRG	95.24	323	eP	23	32.00	0.2	GBTN	25.61	83	eP	17	31.68	-1.0		e	26	09.00			
GEC2	96.05	321	ePKPc	23	35.00	-0.7	TKL	25.96	83	ePc	17	35.16	-0.8		e	27	31.00			
	0.6s	0.49nm				4.2mb X	PRM	27.48	86	e(P)	17	48.67	-1.1	AVE	83.46	53	iP	24	30.00	-0.9
	S.D. = 1.1	on 81 of 95 obs.					NAV	27.99	79	eP	17	53.09	-1.4		i	24	51.00			
							BLA	28.30	79	eP	17	56.00	-1.3	GEC2	83.53	31	P	24	29.80	-1.3
								0.9s	15.70nm				4.8mb	1.0s	13.03nm	5.1mb				
& OCT 18, 1991 19h 12m 00.00s							LHS	28.61	85	eP	17	58.33	-1.7		e	24	34.60			
37.063 N						116.045 W	CEH	29.62	81	e(P)	18	07.44	-1.7	SOB1	83.86	106	eP	24	32.40	-0.7
DEPTH = 0.0km							INK	32.78	348	eP	18	34.00	-2.5	FRF	84.38	38	eP	24	34.50	-0.9
5.2mb (46 obs.)							IMA	36.26	335	iPc	19	06.00	-0.7		1.2s	35.70nm	5.5mb			
SOUTHERN NEVADA (41)								1.2s	46.90nm				5.2mb	LMR	84.48	38	eP	24	35.20	-0.6
<DOE>. ML 5.0 (BRK). 37' 03'							MBC	39.30	359	ePc	19	31.30	-0.5		1.2s	41.65nm	5.5mb			
48.35" N., 116' 02' 43.03" W.,								1.0s	59.00nm				5.2mb	KRA	84.95	27	ePd	24	36.80	-1.3
Surface Elev. 1240 m., Depth of							DAG	55.90	16	iPc	21	39.00	-2.4		1.2s	66.00nm	5.7mb			
Burial 457 m., Shot Time								1.0s	21.00nm				5.1mb		e	24	38.30			
191200.00, "LUBBOCK," Nevada							RUV	59.77	216	iP	22	09.30	0.1	OBN	85.25	15	iPd	24	38.00	-1.5
Test Site (Dept. of Energy).								1.2s	70.00nm				5.7mb		1.2s	46.00nm	5.6mb			
							ARE	67.79	133	eP	23	02.00	-0.4	ZST	85.41	29	eP	24	40.30	-0.1
TNP	1.38	318	iPc	12	26.15	-0.4	NB2	73.23	24	P	23	32.40	-2.1		e	48	11.60			
BONR	2.00	297	iPc	12	35.45	-0.3		1.3s	37.50nm				5.3mb	SPC	85.78	27	eP	24	43.00	0.4
KVN	2.56	321	iPc	12	42.83	-0.9	HFS	74.72	24	iPc	23	40.70	-2.3	SRO	86.20	29	iP	24	44.60	0.3
FRI	2.93	270	iPc	12	48.37	-0.4		0.7s	28.20nm				5.4mb	GUA	89.01	286	eP	24	59.00	0.6
			eSg	13	34.13		FLN	77.20	38	iPc	23	56.20	-1.1	WR2	117.12	265	iPKPc	30	47.00	-2.1
SSK	3.15	206	ePc	12	51.07	-0.9		1.2s	47.60nm				5.5mb		0.6s	2.10nm				
PEC	3.29	196	iPnc	12	53.10	-0.8	GRR	77.27	38	eP	23	56.60	-1.0	LSZ	141.59	65	iPKP	31	31.00	-4.6
MSU	3.39	64	iPnc	12	54.55	-1.0		1.2s	41.65nm				5.4mb	BUL	144.94	71	iPKPd	31	39.00	-2.3
ABL	3.39	230	ePn	12	54.08	-1.5	LPF	77.41	39	eP	23	57.40	-1.0		1.0s	33.00nm				
PKEM	3.42	254	ePnc	12	56.23	0.5		1.2s	38.70nm				5.4mb	MTD	145.02	63	iPKPd	31	38.90	-2.6
CMB	3.58	287	iPnc	12	57.25	-0.8	LDF	77.49	38	iPc	23	57.70	-1.2	FRS	147.11	89	iPKPc	31	45.70	1.3
			iPbc	13	05.30			1.2s	32.75nm				5.3mb		0.8s	37.31nm				
PHAM	3.72	252	ePn	12	59.27	-0.7	DOU	78.67	34	P	24	05.00	-0.3	PRY	147.62	82	iPKPc	31	46.50	0.9
PLM	3.76	190	iPnc	12	59.73	-1.0	MFF	78.83	39	eP	24	05.20	-1.1		1.0s	15.00nm				
BCH	3.77	241	iPnc	12	59.67	-1.1		1.2s	29.75nm				5.2mb	SEK	148.36	85	iPKPc	31	49.20	2.5
PRI	3.83	257	iPc	13	00.95	-0.7	MEM	78.93	33	Pc	24	05.80	-0.9		0.7s	30.82nm				
LLA	3.95	265	ePnc	13	02.14	-1.2	WLF	79.68	34	P	24	06.00	-4.7	BFT	149.06	78	iPKPc	31	52.50	4.5
			ePb	13	12.11		LSF	79.91	39	eP	24	10.80	-1.4		1.0s	40.00nm				
DUG	4.02	38	ePn	13	03.15	-1.2		1.2s	20.85nm				4.9mb	JOZ	151.50	80	ePKP	31	52.00	0.7
GLA	4.12	166	iPnc	13	04.29	-1.4	TCF	80.23	38	eP	24	12.50	-1.3		126 obs. associated					
SAO	4.34	268	iPn	13	07.79	-1.0		1.2s	28.25nm				5.1mb							
			iPbc	13	17.74		SSF	80.32	37	iPc	24	13.30	-1.0							
PRS	4.34	262	ePnc	13	07.78	-1.0		1.2s	31.25nm				5.1mb							
			ePb	13	16.35		LOR	80.34	37	iPc	24	13.40	-1.0							
ARN	4.39	275	ePn	13	08.89	-0.6		1.3s	72.20nm				5.5mb							
GCC	4.76	271	ePnc	13	12.16	-2.6	BGF	80.35	38	eP	24	13.00	-1.5							
			ePb	13	20.58			1.2s	35.70nm				5.2mb							
ORV	4.96	302	iPc	13	16.35	-1.2	LFF	80.42	40	iPc	24	14.10	-0.7	SVA	7.93	317	eP	30	01.20	4.9X
ZSP	5.02	282	ePn	13	16.85	-1.5		1.2s	35.70nm				5.2mb	VUN	8.00	317	eP	30	00.20	2.8
			ePb	13	28.98		AVF	80.43	37	iPc	24	13.50	-1.4	NDF	8.84	313	eP	30	08.40	-0.6
DAU	5.02	47	ePn	13	18.56	-0.2		1.3s	36.10nm				5.2mb	DZM	16.43	273	iPc	31	55.90	5.4X
PCC	5.07	277	ePn	13	17.67	-1.5	MAF	80.45	38	eP	24	13.80	-1.2	COO	29.35	250	eP	34	06.00	2.7
			ePb	13	27.76			1.0s	12.00nm				4.8mb	RMQ	32.07	258	eP	34	26.70	-0.6
HVU	5.35	27	ePn	13	21.34	-1.9		80.56	39	eP	24	14.50	-1.1		1.2s	74.00nm	5.5mb			
MIN	5.44	309	iPc	13	23.79	-0.8	RJF	81.22	30	iP	24	18.80	-0.7	CMS	34.61	249	eP	34	49.00	-0.3
NWRM	5.60	286	e(P)	13	28.73	2.2		1.2s	23.80nm				5.1mb		1.2s	23.00nm	5.0mb			
LTCM	5.70	305	eP	13	27.60	-0.5	LBF	80.60	37	iPc	24	14.60	-1.2		35.29	269	iPc	34	54.00	-1.2
WDC	6.17	307	ePc	13	33.06	-1.5		1.2s	28.25nm				5.1mb	CTA	1.0s	35.00nm	5.2mb			
LBFM	6.24	315	ePc	13	35.69	-0.1	SMF	80.77	37	eP	24	15.40	-1.3		38.17	286	eP	35	18.00	-1.5
PTI	6.45	25	eP	13	36.90	-1.9		1.1s	17.10nm				5.0mb	PMG	40.75	244	eP	35	40.80	0.0
HPI	7.01	18	eP	13	47.00	0.3	LPO	80.83	40	eP	24	16.00	-1.0	ADE	41.25	266	eP	35	43.70	-1.3
FHC	7.23	304	eP	13	49.08	-0.5		1.2s	32.75nm				5.2mb	OIS	45.78	260	iPc	36	19.80	-1.9
ALO	8.05	102	ePc	13	58.60	-2.7	HAU	80.97	35	eP	24	16.80	-1.0	ASPA	1.1s	23.70nm	5.1mb			
LRM	9.16	16	eP	14	17.90	1.3		1.0s	20.00nm				5.1mb		1.1s	23.70nm	5.1mb			
VGB	9.16	339	eP	14	17.61	1.1	CDF	81.10	34	iPc	24	17.40	-1.1		Z	19s	2.70um	5.2msz		
SHW	10.23	335	eP	14	32.46	1.2		1.2s	23.80nm				5.1mb							
LON	10.59	338	eP	14	37.33	1.3	CAF	81.11	39	iPc	24	17.30	-1.2	WR2	46.18	265	iPc	36	22.70	-2.2
BMW	10.82	333	eP	14	39.93	0.6		1.2s	32.75nm				5.2mb		0.6s	16.00nm	5.2mb			
DPW	10.92	352	ePc	14	41.01	0.4	TOL	81.22	46	eP	24	19.50	0.3							
RMW	11.23	340	eP	14	45.22	0.4	MOX	81.28	31	eP	24	18.80	-0.5							
GMW	11.60	337	eP	14	52.05	2.2		1.3s	22.00nm				5.1mb							
PNT	12.52	349	eP	15	04.00	1.7	BSF	81.31	35	iPc	24	18.40	-1.2	WRA	46.20	265	P	36	23.00	-2.0
	0.8s	41.00nm				5.8mb		1.2s	41.65nm				5.4mb		0.5s	10.10nm	5.1mb			
PGC	12.78	337	eP	15	12.00	6.3	CLL	81.32	30	iP	24	18.80	-0.7	WARB	51.78	255	eP	37	07.00	-1.1
ACO	13.54	86	iPd	15	17.00	1.1		1.2s	30.00nm				5.2mb	CSY	61.69	206	eP	38	20.40	2.3
SES	13.81	14	ePd	15	19.80	0.5	EPF	81.53	42	eP	24	19.90	-0.9		0.6s	18.80nm	5.4mb			
	0.9s	41.00nm				5.3mb		1.2s	20.85nm				5.1mb	SPA	66.13	180	iPd	38	47.60	0.2</

Z	18s		1.03um		5.3msz		S	58 12.92		iSn	11 15.60	
ANMO	88.05	50 P	40 48.30	-1.7		LMW	1.11 21 Pc	57 58.31	-0.9	PTJ	3.14 336 ePn	10 38.60 0.1
		e	40 53.80	17km		GLK	1.28 43 P	58 01.10	-0.7	RIY	3.37 314 ePn	10 36.60 -5.0X
PNT	88.46	33 eP	40 51.00	-0.4		LON	1.34 33 Pd	58 01.90	-0.7		eSn	11 16.20
	0.6s	9.00nm		5.3mb		CPW	1.35 352 P	58 01.80	-1.0	CEY	3.62 319 eP	10 45.45 0.2
BJI	89.78	315 eP	40 58.00	0.2		REMR	1.38 30 P	58 02.72	-0.6		e	10 56.40
	1.7s	39.00nm		5.4mb		WPW	1.40 40 Pd	58 03.13	-0.4		eSn	11 32.50
KHT	91.97	285 eP	41 09.50	1.1		RVC	1.45 25 Pd	58 03.81	-0.4	BZS	3.74 45 ePc	10 50.00 3.0X
BDT	92.61	288 eP	41 13.00	1.7		GL2	1.46 76 P	58 04.91	0.5	VOY	4.09 318 ePn	10 51.80 -0.1
	1.0s	34.50nm		5.7mb		GHW	1.47 16 P	58 03.73	-0.6		(eSg)	11 54.60
KMI	92.71	296 Pc	41 13.00	1.1		VGB	1.47 94 eP	58 04.40	0.0	FVI	5.04 316 P	11 04.50 -0.7
	1.8s	0.09nm		2.9mb X		CROR	1.47 116 P	58 04.36	-0.2		eSn	12 06.00
CHG	93.30	289 ePc	41 16.00	1.5		FMW	1.54 32 Pd	58 05.45	-0.1	WTTA	6.07 316 ePn	11 21.00 1.0
	1.1s	50.32nm		5.9mb		VTHM	1.68 105 P	58 07.69	0.1		i	11 21.80
CHTO	93.30	289 ePc	41 15.80	1.3		SMW	1.72 349 P	58 08.11	0.0		iSn	12 35.40
		pP	41 20.80	16km		GSM	1.74 25 Pd	58 08.53	0.2	KHC	6.76 336 ePn	11 29.50 -0.1
LZH	96.48	307 eP	41 29.00	0.1		TGO	1.77 149 P	58 08.94	0.0		eSg	12 45.50
	1.2s	19.00nm		5.5mb		NAC	1.79 51 P	58 10.08	0.9	S.D. = 0.7 on 18 of 25 obs.		
		pP	41 34.00	16km		GMO	1.80 131 P	58 08.97	-0.4	OCT 18, 1991 20h 33m 31.31±0.42s		
LNK	97.13	15 eP	41 30.00	-0.9		HBO	1.83 168 P	58 09.76	0.0	42.810 N ± 5.2km 17.382 E ± 4.0km		
LSZ	134.45	213 iPKP	47 20.00	1.2		GMW	1.92 2 eP	58 11.30	0.4	DEPTH = 10.0km (geophysicist)		
HFS	143.29	352 ePKP	47 28.70	-4.8X		VIPM	1.95 124 Pc	58 11.20	-0.3	ADRIATIC SEA (382)		
	0.4s	1.30nm				RMW	1.97 21 P	58 12.57	0.9	ML 3.4 (ZAG), 3.1 (TTG). Felt on Mijet Island.		
BHL	150.84	297 PKP	47 53.00	6.4X		HDW	2.02 356 P	58 12.34	-0.1	HVAR	0.78 299 iPgd	33 44.30 -2.2
HRI	150.89	296 iPKPc	47 51.40	4.7X		MXC	2.02 61 P	58 12.64	0.2	BRY	0.86 84 iPgc	33 46.44 -1.5
KRA	151.24	339 ePKP	47 51.80	5.3X		EBG	2.04 50 P	58 13.20	0.5		iSg	34 00.62
		e	48 06.50			HSO	2.11 185 P	58 14.14	0.3	HCY	0.90 113 iPgd	33 47.50 -1.0
JVI	151.43	293 iPKPc	47 52.60	5.1X		JBO	2.13 94 P	58 15.14	1.1		iSg	34 01.66
KSP	151.61	344 iPKPd	47 53.40	6.3X		BRVW	2.17 66 P	58 16.75	2.1	NKY	1.19 89 iPgd	33 53.54 0.0
SPC	151.87	337 ePKP	47 54.90	7.1X		ETW	2.63 41 P	58 24.49	3.2		iSg	34 11.28
CLL	151.90	348 iPKP	47 53.30	5.8X		JCW	2.64 14 P	58 22.36	1.1	BDV	1.19 116 iPgd	33 53.58 0.1
PRNI	151.91	290 iPKPc	47 53.80	5.6X		MCW	3.05 0 eP	58 27.50	0.5		iSg	3

18d 22h

ROCH	1.76	161	eP	24 51.00	0.2
			iS	24 30.00	
PEL	2.02	156	iPc	24 34.00	-0.4
			iS	25 00.40	
RTRS	2.22	60	iPc	24 35.90	-0.2
			S	25 05.20	
TACH	2.43	165	iP	24 40.00	0.8
PCH	2.52	157	iP	24 40.00	-0.5
LNV	2.66	175	eP	24 42.00	-0.3
CHCH	2.77	162	eP	24 44.50	0.6
CFA	2.96	97	eP	24 47.20	0.5
S.D. = 0.6 on 9 of 9 obs.					

* OCT 18, 1991 23h 14m 31.43±1.73s
32.202 S ± 8.5km 71.410 W ± 17.9km
DEPTH = 33.0km (normal)
NEAR COAST OF CENTRAL CHILE (135)

ROCH	0.84	156	iP	14 46.50	-0.5
JACH	0.84	125	iPc	14 46.80	-0.1
			iS	15 00.70	
PEL	1.12	147	eP	14 50.00	-0.9
			iS	15 07.70	
TACH	1.50	165	eP	14 56.00	-0.3
			iS	15 18.50	
PCH	1.60	152	eP	14 58.00	0.1
			iS	15 22.50	
LNV	1.75	180	eP	15 00.50	0.6
CHCH	1.84	160	eP	15 02.00	0.7
			iS	15 28.00	
RTRS	2.63	40	ePc	15 11.80	-0.6
			S	15 46.00	
RTLL	2.65	72	ePd	15 13.20	0.4
CFA	2.76	78	e(P)	15 15.00	0.6
S.D. = 0.7 on 10 of 10 obs.					

OCT 18, 1991 23h 22m 02.00±0.44s
2.559 N ± 6.3km 127.839 E ± 8.7km
DEPTH = 23.0km (7 depth phases)
5.0mb (18 obs.) 4.3Msz (3 obs.)
NORTHERN MOLUCCA SEA (266)

MNI	3.20	250	ePd	22 54.40	2.4
			eS	23 45.00	
DAV	5.03	333	ePc+	23 20.00	2.0
TSM	10.10	280	eP	24 30.00	1.3
BAG	15.51	333	eP	25 41.00	-0.2
GUMO	20.08	56	eP	26 47.00	10.0X
WR2	23.27	164	iPc	27 08.00	-1.0
			0.9s	11.40nm	4.4mb
GZH	24.77	327	eP	27 22.00	-1.5
OIS	25.71	154	eP	27 32.00	-0.4
			i	27 37.90	21km
ASPA	26.73	168	eP	27 43.00	1.2
			1.2s	16.80nm	4.6mb
Z	21s		0.80um		4.2Msz
CTA	28.87	142	iP	28 11.00	9.8X
			1.2s	31.25nm	4.9mb
SSE	29.07	348	P	28 10.50	7.6X
			1.0s	12.00nm	4.6mb
Z	20s		0.50um		4.1Msz
E	12s		0.60um		
			pP	28 20.00	33kmX
			eS	33 06.00	
LOE	29.58	302	eP	28 05.00	-2.7
NJ2	30.53	345	Pc	28 16.00	0.1
WHN	30.62	337	Pc	28 18.70	1.9
			1.0s	31.00nm	5.1mb
Z	24s		0.68um		4.2MszX
E	12s		0.23um		
			pP	28 26.00	25km
KHT	31.30	295	eP	28 22.00	-1.0
BDT	31.86	299	eP	28 27.00	-0.8
CHG	32.57	302	eP	28 33.00	-1.1
			0.9s	13.66nm	4.9mb
CHTO	32.57	302	P	28 32.90	-1.2
			pP	28 38.70	20km
TIA	34.92	345	eP	28 54.20	0.0
XAN	35.95	333	P	29 03.00	0.0
			1.5s	33.00nm	5.0mb
			sP	29 11.00	
			PP	29 19.30	
CD2	36.24	324	eP	29 05.60	0.2
TIIY	37.74	340	Pc	29 19.20	1.2
Z	20s		0.63um		4.4Msz
BJI	38.78	346	eP	29 27.50	0.9

	1.5s	70.00nm	5.2mb	
		eS	35 20.00	
SNY	39.28	355	Pc	29 31.40 0.7
	1.2s	35.00nm	5.0mb	
		pP	29 38.30 23km	
		sP	29 43.80	
LZH	40.07	329	eP	29 38.80 1.2
	1.5s	81.00nm	5.2mb	
Z	28s	0.82um	4.4MszX	
N	16s	0.58um		
		eS	35 40.00	
HHC	40.85	341	Pc	29 44.80 0.9
	1.0s	15.00nm	4.7mb	
CN2	41.12	357	eP	29 45.00 -0.9
	1.0s	8.00nm	4.4mb	
Z	16s	0.92um	4.7MszX	
		eP	29 52.00 24km	
BTO	41.15	339	eP	29 47.50 1.2
SHL	41.46	307	eP	29 48.50 -0.7
BWA	41.57	154	eP	29 50.50 0.8
BFD	41.83	162	eP	29 56.00 4.2X
MDJ	41.91	2	eP	29 52.00 -0.3
	1.5s	60.00nm	5.1mb	
CAN	42.58	154	eP	29 58.10 0.1
LSA	44.04	312	P	30 10.80 0.3
GTA	44.66	329	P	30 15.80 0.8
	1.0s	26.00nm	5.1mb	
Z	34s	0.77um	4.4MszX	
		pP	30 24.20 28km	
GUN	47.31	306	P	30 36.20 -0.2
	0.8s	36.00nm	5.5mb	
PKI	47.55	306	P	30 37.40 -0.9
KKN	47.74	306	P	30 38.80 -0.9
	0.9s	33.00nm	5.4mb	
DMN	47.81	306	P	30 39.60 -0.7
GKN	48.35	306	P	30 42.80 -1.5
	0.7s	18.00nm	5.2mb	
HYB	50.55	290	eP	31 01.00 -0.2
IRK	53.28	342	eP	31 27.80 6.6X
		e	32 06.40 169kmX	
WMO	54.31	325	P	31 29.50 0.5
	1.2s	30.00nm	5.2mb	
		pP	31 35.50 20km	
		sP	31 44.00	
YAK	59.33	1	eP	32 02.80 -1.5
QUE	63.70	302	eP	32 34.50 -0.1
TAB	81.74	308	eP	34 29.00 8.3X
S.D. = 1.1 on 40 of 46 obs.				

OCT 18, 1991 23h 31m 16.66±0.62s
36.066 N ± 6.7km 139.966 E ± 6.7km
DEPTH = 66.3 ± 4.3 km
4.9mb (10 obs.)
EASTERN HONSHU, JAPAN (227)

KAKJ	0.22	50	iP+	31 26.30	-0.7
			S	31 32.20	
CHJJ	0.79	269	iPd	31 31.40	-1.1
NIIJ	1.41	327	iPd	31 40.50	-0.1
IIDJ	1.77	251	iP+	31 46.90	1.2
MTMJ	1.82	287	iPd	31 46.60	0.2
YAMJ	2.10	2	iPd	31 51.10	0.8
TSRJ	3.28	262	P	32 00.10 1.4	
OFUJ	3.30	24	iPd	32 06.80 -0.2	
			eS	32 42.90	
WKYJ	4.03	244	P	32 16.80 -0.5	
AOMJ	4.50	4	eP	32 23.60 -0.2	
TKSJ	5.28	249	P	32 34.00 -0.9	
YONJ	5.37	263	P	32 37.10 1.0	
GUN	46.09	276	P	39 36.60 0.3	
	0.8s	17.00nm	5.0mb		
	46.61	276	P	39 40.00 -0.4	
	0.7s	11.00nm	4.9mb		
KKN	46.63	276	P	39 40.40 0.0	
	0.7s	13.00nm	5.0mb		
DMN	46.84	276	P	39 42.00 -0.1	
GKN	47.06	277	P	39 43.80 0.1	
	0.8s	42.00nm	5.4mb		
FBA	50.54	32	P	40 11.10 1.2	
INK	55.78	27	eP	40 50.00 1.4	
WRA	55.96	186	P	40 50.00 -0.3	
	0.5s	4.30nm	4.7mb		
ASPA	59.68	186	eP	41 17.00 0.5	
	0.5s	5.20nm	4.9mb		
QUE	60.12	287	eP	41 19.00 -0.7	
KAF	68.63	332	eP	42 13.60 -0.7	
	0.6s	7.90nm	4.8mb		

NUR	70.25	332	iP	42 23.70	-0.5
	0.3s	4.80nm		4.9mb	
HFS	74.48	335	eP	42 48.00	-1.3
	0.4s	1.80nm		4.4mb	
NB2	74.62	337	P	42 49.90	-0.2
	0.6s	3.40nm		4.5mb	
GEC2	82.91	328	ePd	43 35.30	-0.1
	0.5s	0.54nm		3.8mb X	
S.D. = 0.8 on 27 of 27 obs.					

? OCT 18, 1991 23h 37m 59.87±15.73s
34.451 S ± 90.4km 70.384 W ± 62.8km
DEPTH = 10.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)

CHCH	0.56	337	iPc	38 11.20	-0.1
			iS	38 20.00	
PCH	0.83	353	iPc	38 16.00	-0.1
			iS	38 28.50	
TACH	0.92	330	iPc	38 17.50	0.1
			iS	38 30.50	
LNV	0.98	300	eP	38 18.50	0.0
			iS	38 32.00	
PEL	1.33	349	iPc	38 24.50	0.1
			iS	38 43.50	
S.D. = 0.1 on 5 of 5 obs.					

% OCT 19, 1991 00h 05m 23.70±0.70s
40.465 N ± 6.3km 15.695 E ± 6.9km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.31	288	P	05 30.00	-0.1
			eSg	05 36.50	
MGR	0.34	198	P	05 31.50	0.7
			eSg	05 38.80	
MMN	0.62	158	P	05 36.20	0.1
			eSg	05 52.80	
CSI	0.83	146	P	05 39.00	-0.7
BAI	1.10	53	P	05 47.00	2.6
			eSg	05 59.00	
ROI	1.12	143	P	05 43.70	-1.0
BRT	1.22	70	P	05 44.60	-1.8
			eSg	06 01.60	
CZI	1.29	165	P	05 48.50	0.9
DUI	1.52	322	P	05 50.00	-1.0
SDI	1.89	312	P	05 56.50	0.2
S.D. = 1.4 on 10 of 10 obs.					

? OCT 19, 1991 00h 06m 29.20±3.27s
30.893 S ± 29.8km 68.242 W ± 51.0km
DEPTH = 100.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.48	204	iPc	06 45.30	0.2
CFA	0.71	180	iPc	06 46.90	-0.1
			S	06 59.30	
RTCB	0.76	219	iPd	06 47.50	0.0
RTRS	1.27	304	iPc	06 53.00	0.0
S.D. = 0.2 on 4 of 4 obs.					

? OCT 19, 1991 01h 29m 21.90±2.17s
31.346 S ± 22.4km 179.647 W ± 28.2km
DEPTH = 442.4 ± 21.7 km
4.2mb (1 obs.)
KERMADEC ISLANDS REGION (177)

HBZ	6.46	195	eP	31 01
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19d 01h

S.D. = 0.7 on 14 of 14 obs.
 % OCT 19, 1991 01h 42m 23.53 ± 0.76s
 44.469 N ± 6.2km 7.316 E ± 7.8km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 1.4 (GEN).

PZZ 0.16 283 P 42 27.50 0.2
 S 42 29.83
 STV 0.23 178 P 42 28.32 -0.1
 S 42 31.15
 ENR 0.25 163 P 42 28.81 -0.2
 S 42 32.13
 BHB 0.37 354 P 42 31.02 -0.2
 S 42 36.06
 ROB 0.43 114 P 42 32.66 0.3
 S 42 38.77

S.D. = 0.3 on 5 of 5 obs.
 OCT 19, 1991 01h 55m 27.53 ± 0.63s
 0.945 N ± 9.3km 97.408 E ± 7.2km
 DEPTH = 26.8km (3 depth phases)
 5.1mb (22 obs.)
 NORTHERN SUMATERA, INDONESIA (706)

KLM 4.75 63 eP 56 57.50 18.3X
 IPM 5.11 45 ePc 56 44.90 0.6
 0.7s 232.90nm 5.8mb
 e 58 07.00
 KGM 6.00 80 eP 56 58.50 1.5
 SNG 6.97 27 eP 57 09.20 -1.3
 0.9s 136.13nm 5.9mb
 KHT 13.80 5 eP 58 51.50 7.7X
 NST 14.88 10 eP 59 02.50 4.6X
 BDT 16.27 5 eP 59 18.00 2.0
 1.0s 69.00nm 4.7mb
 LOE 16.90 14 eP 59 29.00 5.1X
 CHG 17.82 5 ePc 59 34.00 -1.5
 1.0s 22.50nm 4.3mb
 KKM 19.44 74 eP 59 55.00 -0.2
 KMI 24.58 12 Pc 00 48.00 1.0
 1.5s 130.00nm 5.3mb
 SHL 25.05 348 iPd 00 51.50 0.0
 GYA 26.89 19 iPd 01 08.00 -0.4
 Z 16s 0.84um 4.4MsZ
 N 16s 1.65um
 E 16s 1.53um

PKI 28.87 338 P 01 27.20 0.6
 GUN 29.00 339 P 01 28.40 0.6
 DMN 29.02 337 P 01 28.60 0.7
 1.0s 42.00nm 5.1mb
 KKN 29.11 338 P 01 29.20 0.5
 0.8s 44.00nm 5.2mb
 LSA 29.21 349 iPd 01 31.00 1.2
 GKN 29.55 337 P 01 33.20 0.6
 0.8s 40.00nm 5.2mb
 CD2 30.40 11 eP 01 38.30 -1.6
 XAN 34.64 17 Pc 02 15.00 -1.9
 pP 02 22.50 26km
 LZH 35.47 9 P 02 23.50 -0.6
 1.2s 27.00nm 5.1mb
 Z 18s 0.54um 4.3MsZ

GTA 38.35 3 iPd 02 48.00 -0.2
 0.8s 40.00nm 5.3mb
 pP 03 00.00 44kmX
 TIY 39.12 19 eP 02 53.90 -0.7
 Z 12s 1.20um 4.9MsZ
 N 10s 0.54um
 HHC 41.74 16 eP 03 16.00 -0.2
 BJI 42.50 21 Pc 03 23.50 1.3
 1.0s 34.00nm 5.0mb
 WMO 43.56 350 P 03 31.50 0.5
 pP 03 41.50 34km
 SNY 47.03 27 Pc 03 58.00 -0.6
 1.0s 31.00nm 5.3mb
 CN2 49.44 27 Pc 04 16.50 -0.7
 1.0s 23.00nm 5.2mb
 Z 15s 1.16um 5.0MsZ

COO 60.48 126 eP 05 38.00 0.2
 GEC2 85.14 319 ePc 08 02.90 0.2
 0.8s 2.45nm 4.5mb
 e 08 09.70 21km
 GRB2 86.50 319 e(P) 08 11.40 2.0
 NB2 87.33 331 P 08 13.40 0.3
 0.9s 4.60nm 4.7mb
 NVL 89.42 199 ePd 08 33.50 10.6X

LPG 89.79 315 eP 08 24.90 -0.7
 0.8s 5.35nm 4.9mb
 LPL 89.81 315 eP 08 24.50 -1.0
 0.8s 3.35nm 4.6mb
 LBF 91.66 317 eP 08 33.30 -0.5
 0.8s 4.05nm 4.9mb
 LOR 91.73 317 eP 08 33.50 -0.6
 0.8s 5.35nm 5.0mb
 SMF 91.78 317 eP 08 34.70 0.4
 0.8s 6.70nm 5.1mb
 SSF 91.98 317 eP 08 33.80 -1.4
 1.0s 8.00nm 5.1mb
 AVF 92.10 317 eP 08 35.40 -0.4
 1.0s 6.00nm 5.0mb
 S.D. = 1.0 on 36 of 41 obs.

% OCT 19, 1991 03h 14m 03.94 ± 0.42s
 40.837 N ± 4.2km 28.052 E ± 3.4km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)
 CTT 0.42 43 ePg 14 12.00 -0.6
 EDC 0.51 196 iPg 14 14.20 -0.1
 iSg 14 22.00
 MFT 0.59 265 ePg 14 15.50 -0.4
 eSg 14 24.40
 KGT 0.69 236 iPg 14 17.50 0.0
 iSg 14 28.50
 ISK 0.80 73 ePg 14 19.00 -0.4
 DMK 1.01 347 iPg 14 23.50 0.5
 iSg 14 38.00
 YLV 1.04 105 iPg 14 23.50 -0.1
 GBZT 1.06 92 ePg 14 24.70 0.8
 iSg 14 39.60
 IZI 1.19 114 iPn 14 26.20 0.0
 HRT 1.23 90 iPn 14 26.90 0.1
 DST 1.31 160 iPn 14 28.00 -0.2
 EZN 1.66 233 ePn 14 33.60 0.4
 S.D. = 0.4 on 12 of 12 obs.

? OCT 19, 1991 03h 36m 53.04 ± 2.97s
 3.793 N ± 44.9km 76.875 W ± 69.9km
 DEPTH = 100.0km (geophysicist)
 COLOMBIA (103)
 MD 2.8 (UVC).

ANCC 0.28 178 eP 37 07.61 -0.2
 eS 37 19.30
 CLMC 0.32 74 eP 37 08.08 -0.1
 eS 37 20.10
 HOQC 0.40 143 eP 37 08.51 -0.2
 eS 37 20.90
 HOBC 0.93 53 eP 37 12.89 -0.2
 eS 37 28.50
 S.D. = 0.1 on 4 of 4 obs.

% OCT 19, 1991 04h 05m 46.09 ± 0.49s
 40.802 N ± 5.1km 28.073 E ± 4.1km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)
 CTT 0.44 38 iPg 05 54.50 -0.5
 EDC 0.48 199 iPg 05 55.50 -0.4
 iSg 06 03.00
 MFT 0.60 269 ePg 05 57.90 -0.4
 KGT 0.68 239 ePg 05 59.50 -0.1
 eSg 06 09.50
 YLV 1.02 103 ePg 06 05.30 -0.1
 eSg 06 19.40
 DMK 1.05 347 iPg 06 06.20 0.4
 iSg 06 21.00
 IZI 1.16 113 iPn 06 08.00 0.1
 HRT 1.21 89 iPn 06 08.90 0.2
 EZN 1.65 234 ePn 06 16.00 0.7
 S.D. = 0.5 on 9 of 9 obs.

% OCT 19, 1991 04h 07m 29.49 ± 0.44s
 40.806 N ± 4.8km 28.071 E ± 3.7km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)
 CTT 0.44 38 iPg 07 38.00 -0.4
 EDC 0.48 199 iPg 07 39.20 -0.1
 eSg 07 46.50
 MFT 0.60 268 iPg 07 41.20 -0.5
 KGT 0.68 239 iPg 07 43.00 0.0
 iSg 07 53.40

ISK 0.79 71 ePg 07 44.50 -0.4
 YLV 1.02 103 iPg 07 48.80 0.0
 eSg 08 03.40
 DMK 1.04 347 iPg 07 49.70 0.6
 iSg 08 04.00
 IZI 1.17 113 iPn 07 51.50 0.2
 HRT 1.21 89 iPn 07 52.40 0.3
 EZN 1.65 234 ePn 07 59.00 0.3
 S.D. = 0.4 on 10 of 10 obs.

OCT 19, 1991 04h 09m 07.53 ± 0.44s
 53.695 N ± 5.1km 167.137 W ± 6.3km
 DEPTH = 33.0km (normal)
 5.0mb (29 obs.)
 FOX ISLANDS, ALEUTIAN ISLANDS (9)
 ML 5.5 (PMR). Felt (IV) at
 Akutan and Unalaska. Also felt
 at Dutch Harbor.

SDN 4.21 64 eP 10 10.70 -0.2
 KDC 9.20 58 eP 11 22.17 1.3
 PDB 9.36 44 eP 11 22.77 -0.4
 RSO 10.34 43 eP 11 36.61 -0.1
 TTA 10.93 28 eP 11 45.50 0.8
 PMR 12.44 43 eP 12 09.20 4.4X
 KLU 13.75 47 P 12 19.00 -3.2X
 TOA 13.91 44 eP 12 23.00 -1.4
 IMA 14.08 23 eP 12 28.40 1.8
 FBA 14.87 33 eP 12 36.50 -0.4
 0.9s 20.83nm 4.5mb
 BRW 18.26 11 eP 13 21.40 1.9
 SIT 18.29 67 e(P) 13 20.60 0.5
 1.5s 156.60nm 4.9mb
 INK 21.49 34 eP 13 52.00 -3.0X
 0.5s 30.00nm 5.0mb
 YKA 28.36 51 eP 14 59.80 -0.3
 0.8s 13.30nm 4.7mb
 BMW 28.70 86 eP 15 04.00 0.6
 MBC 28.81 22 ePc 15 04.50 0.5
 0.7s 14.00nm 4.8mb
 LON 29.40 85 eP 15 09.90 0.2
 PNT 29.46 79 eP 15 11.00 0.8
 0.8s 21.00nm 4.9mb
 NEW 31.41 79 eP 15 27.80 0.3
 0.8s 48.96nm 5.4mb
 FHC 31.50 96 eP 15 29.50 1.2
 0.8s 49.41nm 5.4mb
 LBFM 32.40 94 eP 15 37.20 0.8
 MIN 33.19 95 iPd 15 43.47 0.3
 ORV 33.76 96 iPd 15 47.95 0.8
 SES 33.90 72 eP 15 49.00 -0.1
 0.8s 42.00nm 5.4mb
 ZSP 34.37 99 eP 15 53.89 0.7
 PCC 34.59 99 eP 15 54.75 -0.4
 ARN 35.19 99 eP 16 00.00 -0.3
 LRM 35.40 80 eP 16 02.00 -0.3
 CMB 35.41 97 eP 16 02.00 -0.2
 1.2s 17.36nm 4.9mb
 SAO 35.64 100 ePd 16 04.31 0.2
 PRS 35.98 100 ePd 16 07.59 0.6
 LLA 36.04 99 iPd 16 08.45 1.0
 HPI 36.21 83 eP 16 09.50 0.3
 FRI 36.51 98 iPd 16 12.12 0.8
 PRI 36.53 100 iPd 16 12.86 1.2
 BONR 36.70 95 eP 16 14.40 1.1
 FFC 36.89 61 eP 16 15.00 0.6
 0.9s 20.00nm 5.0mb
 TNP 37.25 94 eP 16 18.00 0.1
 1.0s 11.67nm 4.7mb
 BCH 37.53 100 eP 16 20.50 0.4
 SYP 38.05 101 eP 16 25.00 0.5
 ABL 38.27 100 eP 16 27.00 0.5
 CLC 38.55 97 iPd 16 29.00 0.4
 BW06 38.85 82 eP 16 31.00 -0.3
 1.0s 21.67nm 4.9mb
 SB8 39.20 99 eP 16 33.00 -1.1
 GSC 39.38 97 eP 16 36.00 0.5
 MWC 39.39 99 eP 16 36.00 0.2
 SSK 39.61 99 eP 16 38.10 0.5
 RVR 39.95 99 eP 16 41.00 0.8
 MSU 39.97 89 eP 16 40.80 0.2
 PEC 40.15 99 eP 16 42.30 0.4
 PLM 40.71 99 eP 16 47.00 0.4
 RSSD 41.28 77 eP 16 50.00 -1.2
 0.8s 18.03nm 4.9mb
 BAR 41.30 100 eP 16 53.00 1.7
 GLA 42.12 98 eP 16 58.00 0.0

BCK	4.71	47	iP	15	38.00	1.0
KHL	4.79	32	eP	15	32.80	-5.4X
PRK	4.93	360	eP	15	38.30	-1.8
EZN	5.51	0	eP	15	47.00	-1.2
DST	5.61	19	eP	15	49.60	-0.1
AGG	5.67	327	iPc	15	51.64	1.1
PAIG	5.98	340	ePc	15	55.40	0.6
OUR	6.29	344	eP	15	59.12	0.0
KOT	6.42	131	ePn	16	01.50	0.5
			eSn	17	09.50	
LIT	6.52	334	ePd	16	02.28	-0.2
SOH	6.90	341	ePc	16	07.84	0.1
KZN	6.98	330	eP	16	15.50	6.6X
IGT	7.06	319	eP	16	10.98	1.1
SRS	7.12	343	eP	16	10.12	-0.7
GRG	7.31	336	ePc	16	12.68	-0.8
KNT	7.35	340	ePc	16	14.16	0.2
KEK	7.48	318	eP	16	15.00	-0.8
ZNT	7.62	103	eP	16	16.80	-0.9
			eS	17	36.10	
MKT	8.20	112	eP	16	25.20	-0.6
			eS	17	49.90	
SKO	8.55	335	ePn	16	22.00	-8.5X
MBH	8.59	119	eP	16	31.30	0.1
LCI	8.95	315	P	16	34.20	-1.8
			eSn	18	03.20	
SOI	9.07	297	P	16	37.10	-0.7
			eSn	18	06.50	
ROI	9.38	307	P	16	41.00	-1.0
			eSn	18	17.80	
CZI	9.50	324	P	16	42.10	-1.5
			eSn	18	23.00	
MEU	9.64	290	P	16	45.50	-0.2
CSI	9.67	307	P	16	49.70	3.7X
BRT	9.73	315	P	16	45.50	-1.4
MMN	9.92	307	P	16	51.50	2.1
MGR	10.34	307	P	16	54.10	-1.0
SGO	10.72	309	P	16	59.50	-0.7
GEC2	17.27	331	ePc	18	24.40	-1.3
	0.6s	3.45nm				3.7mb
			pP	18	37.70	
KHC	17.55	331	eP	18	30.40	1.3
			e	21	06.00	
PRU	17.89	335	eP	18	32.50	-0.8
			e	18	34.00	
GRB5	18.32	328	eP	18	39.00	0.4
	0.7s	9.00nm				4.0mb
LPG	18.64	313	eP	18	46.40	3.6X
	0.8s	5.35nm				3.8mb
LPL	18.66	313	eP	18	46.30	3.3X
	0.6s	1.80nm				3.4mb
CLL	19.53	334	eP	18	46.00	-6.7X
			e	20	48.00	
BSF	19.88	319	eP	18	55.80	-0.8
	0.8s	8.05nm				4.1mb
CDF	19.97	321	eP	18	57.50	0.0
	1.0s	28.00nm				4.5mb
HAU	20.23	319	eP	18	59.90	-0.1
	1.0s	12.00nm				4.2mb
SMF	20.97	313	eP	19	08.30	0.7
	1.0s	10.00nm				4.1mb
LBF	21.05	314	eP	19	08.20	-0.3
	1.1s	12.20nm				4.1mb
LOR	21.25	314	eP	19	10.10	-0.4
	0.8s	5.35nm				4.0mb
WLF	21.33	322	P	19	10.00	-1.2
AVF	21.33	313	eP	19	11.70	0.4
	0.8s	4.70nm				3.9mb
SSF	21.37	313	eP	19	11.90	0.3
	1.0s	10.00nm				4.1mb
MEM	22.00	324	Pc	19	19.30	1.4
OBN	22.00	16	ePd	19	17.00	-0.9
			e	19	34.00	
			e	20	22.00	
DOU	22.39	321	P	19	24.30	2.5
	0.6s	6.40nm				4.2mb
FLN	24.53	314	eP	19	41.90	-0.7
	0.8s	10.75nm				4.4mb
KAF	27.82	0	eP	20	12.00	-0.9
	0.7s	11.00nm				4.6mb
NB2	28.46	345	P	20	17.30	-1.4
	0.8s	4.00nm				4.1mb
KIC	39.93	233	P	22	02.00	4.3X
MCB	67.59	352	eP	25	21.00	1.4
YKA	78.54	343	eP	26	26.20	2.4
	0.6s	1.20nm				4.0mb
FFC	80.81	333	iPd	26	39.40	3.3X

	0.7 s	8.00nm	4.8mb
	S.D. = 1.2	on 53 of 62 obs.	
?	OCT 19, 1991	04h 28m 36.23± 1.46s	
	44.959 N ±10.7km	6.834 E ±10.2km	
	DEPTH = 10.0km	(geophysicist)	
	FRANCE		(538)
	ML 1.6 (GEN).		
RRL	0.05 222 P	28 38.78	0.1
	S	28 39.91	
BHB	0.33 111 P	28 43.49	0.5
	S	28 48.72	
RSP	0.36 57 P	28 43.39	-0.2
PZZ	0.49 157 P	28 45.85	-0.4
	S	28 50.88	
	S.D. = 0.7	on 4 of 4 obs.	
	OCT 19, 1991	04h 57m 40.92± 0.32s	
	40.641 N ± 4.0km	21.363 E ± 3.0km	
	DEPTH = 10.0km	(geophysicist)	
	GREECE		(364)
	ML 3.9 (ATH), 3.5 (TTG), MD 3.7 (THE).		
FNA	0.14 4 i Pgd	57 44.92	0.6
	eSg	57 47.44	
KZN	0.46 137 i Pbc	57 51.00	0.8
OHR	0.64 318 i Pgc	57 53.00	-0.7
	iSg	58 03.00	
LSK	0.76 230 ePg	57 55.50	-0.4
GRG	0.85 68 i Pgd	57 57.52	0.2
	eSg	58 09.40	
LIT	1.02 122 ePgc	58 00.76	0.6
	eSg	58 14.72	
VAY	1.14 53 i Pn	58 02.40	0.2
	iSn	58 17.60	
	Lg	58 23.70	
THE	1.22 90 ePbd	58 03.82	0.2
	eSb	58 20.20	
PHP	1.26 327 i Pnd	58 03.30	-0.9
KNT	1.27 65 i Pbc	58 04.77	0.2
	eSb	58 22.12	
SKO	1.33 2 i Pn	58 05.00	-0.5
	i	58 06.80	
	i	58 24.00	
	iSg	58 25.80	
TIR	1.33 302 i Pn	58 06.70	1.2
IGT	1.36 216 i Pbc	58 07.60	1.7
	eSb	58 28.32	
KEK	1.52 233 ePn	58 12.20	4.1X
SOH	1.52 83 ePbc	58 08.64	0.4
	iSb	58 29.08	
LACI	1.60 309 ePn	58 10.60	1.4
SRS	1.76 74 ePbd	58 11.16	-0.4
	iSb	58 34.40	
AGG	1.78 155 i Pbc	58 12.72	0.8
	iSb	58 36.82	
PAIG	1.91 111 ePbd	58 13.64	-0.2
	iSb	58 37.77	
OUR	2.02 98 ePnc	58 15.68	0.3
	eSn	58 42.80	
ULC	2.07 310 i Pnd	58 18.08	1.9
	iSn	58 43.82	
PVY	2.21 332 i Pnc	58 19.50	1.2
	iSn	58 46.08	
TTG	2.38 319 i Pnc	58 22.20	1.6
	iSn	58 50.58	
IVA	2.48 334 i Pnc	58 23.06	1.0
	iSn	58 52.10	
BDV	2.51 312 i Pnc	58 24.32	1.8
	iSn	58 54.04	
VLS	2.53 194 ePb	58 28.00	5.2X
LCI	2.62 264 P	58 21.50	-2.5
NKY	2.80 322 i Pnd	58 27.74	1.1
	iSn	59 00.86	
HCY	2.81 311 i Pnd	58 28.28	1.6
	iSn	59 01.04	
PLE	3.06 332 i Pnc	58 31.34	1.0
	iSn	59 06.52	
BRY	3.09 318 i Pnd	58 31.88	1.1
	iSn	59 07.92	
BRT	3.17 276 P	58 32.00	0.2
RDO	3.20 80 ePn	58 32.50	0.2
ATH	3.23 145 ePn	58 33.50	0.9
BAI	3.44 279 P	58 39.00	3.4X
ALN	3.57 84 ePnc	58 36.32	-1.1

ROI	3.83	255	P	58	41.90	0.7	LON	29.45	85	eP	05	12.00	1.0	E	12s	0.40um			
EZN	3.88	100	eP	58	40.00	-1.9	PNT	29.51	79	eP	05	11.00	-0.4	GBTN	58.29	72	eP	08 59.60 -2.3	
CSI	3.98	259	P	58	43.00	0.5		0.6s	12.00nm			4.8mb	TKL	58.54	72	eP	09 01.60 -2.0		
VLI	4.11	162	ePn	58	45.00	-0.1	NEW	31.46	79	eP	05	28.00	-0.6	BNH	58.76	56	eP	09 03.80 -1.3	
MMN	4.18	261	P	58	47.00	1.7		0.9s	65.79nm			5.5mb	NAV	59.00	68	eP	09 05.40 -1.5		
BEO	4.23	351	ePn	58	45.00	-1.0	YAK	33.25	310	eP	05	47.80	3.8X	BLA	59.29	68	eP	09 07.50 -1.4	
			e(Sg)	58	58.00		MIN	33.25	95	iPd	05	44.87	0.4		0.7s	11.11nm		5.1mb	
CZI	4.26	252	P	58	48.40	1.1	ORV	33.82	96	iPd	05	49.14	-0.1	MIM	59.37	54	eP	09 08.00 -1.3	
HVAR	4.46	306	iP	58	52.60	2.5	SES	33.94	72	eP	05	50.00	-0.2	LVNJ	59.72	61	eP	09 10.80 -0.9	
MGR	4.46	265	P	58	50.10	-0.1		0.8s	49.00nm			5.5mb	TBR	59.76	61	eP	09 11.00 -1.0		
MFT	4.50	86	eP	58	50.00	-0.8	BRK	34.48	99	e(P)	05	52.00	-2.9X	XAN	59.93	287	eP	09 13.80 0.5	
SGO	4.61	271	P	58	51.50	-0.7	Z	20s	2.20um			4.9MsZ			PcP	09 59.60			
			eSn	59	42.00				eS	11	43.00		PNJ	59.97	61	iP	09 12.80 -0.6		
SOI	4.85	240	P	58	54.50	-1.1			eLR	15	07.00		GMTN	59.97	61	iP	09 13.00 -0.4		
DUI	5.31	283	P	59	01.50	-0.8	PCC	34.66	99	eP	05	55.85	-0.6	CBN	60.23	65	eP	09 14.00 -1.2	
SDI	5.79	283	P	59	08.50	-0.5	LRM	35.45	80	eP	06	04.20	0.7	PRM	60.48	72	eP	09 18.00 1.0	
			eSn	00	10.50		CMB	35.47	97	iPd	06	04.29	0.8	GTA	60.99	298	eP	09 20.20 -0.4	
ISR	5.89	39	ePd	59	19.00	8.7X	SAO	35.70	100	eP	06	09.42	4.0X		1.0s	9.00nm		4.9mb	
MLR	5.89	33	ePd	59	16.00	5.5X	PRS	36.04	100	ePd	06	08.87	0.6			pP	09 27.60	24kmX	
MEU	6.14	237	P	59	11.00	-2.9	LLA	36.10	99	iPd	06	09.61	0.9	LZH	61.27	293	eP	09 25.00 2.4	
UZD	6.28	342	e(P)	59	30.00	14.2X	HPI	36.27	83	eP	06	11.00	0.6		1.2s	21.00nm		5.1mb	
PTJ	6.57	325	eP	59	18.20	-1.8	FRI	36.57	98	iPd	06	13.29	0.7			pP	09 31.50	21kmX	
VBV	6.60	319	e(P)	59	24.40	4.0X	PRI	36.59	100	eP	06	13.96	1.0	HBF	62.44	71	eP	09 27.00 -3.2X	
			e	00	23.00		FFC	36.92	61	iPc	06	16.00	0.6	WMQ	63.69	309	P	09 37.50 -1.0	
			e	00	48.70			0.8s	19.00nm			5.0mb	KAF	64.00	353	iP	09 40.30 0.2		
ARV	6.89	297	P	59	21.50	-2.9	PTI	37.19	84	eP	06	19.50	1.5		0.7s	8.10nm		4.9mb	
ASS	6.94	293	P	59	24.50	-0.6	SYN	38.12	101	eP	06	31.00	5.2X	NB2	65.57	1	P	09 52.50 2.2	
BUD	7.04	347	e(P)	59	36.00	9.5X	DUG	38.57	88	eP	06	29.60	0.0		1.3s	13.20nm		4.9mb	
PSZ	7.35	352	ePn	59	29.50	-1.4	CLC	38.62	97	iPd	06	31.00	1.1	NUR	65.71	354	eP	09 50.90 -0.2	
FVI	8.61	317	P	59	45.50	-2.9	BW06	38.90	82	eP	06	32.50	0.0		1.0s	20.40nm		5.2mb	
CTI	8.90	311	P	59	50.00	-2.6		1.2s	42.24nm			5.1mb	BAG	66.40	266	eP	09 56.00 -0.4		
KHC	10.12	330	eP	00	20.90	11.6X	SBB	39.26	99	eP	06	35.00	-0.4	HFS	66.48	359	ePKP	09 54.30 -1.7	
			e	00	24.50		DAU	39.35	86	eP	06	36.50	0.1		0.4s	2.80nm		4.7mb	
			e	03	25.00		GSC	39.44	97	eP	06	37.00	0.2	GYA	66.88	283	iPd	10 04.00 4.7X	
							PAS	39.44	100	eP	06	38.00	1.3		1.4s	34.00nm		5.3mb	
S.D. = 1.4 on 54 of 63 obs.							MWC	39.45	99	eP	06	38.00	0.9	N	20s	0.73um			
							RVR	40.02	99	eP	06	43.00	1.5	E	20s	1.63um			
OCT 19, 1991 04h 59m 08.29±0.23s							MSU	40.03	89	eP	06	42.00	0.2			S	18 52.00		
53.736 N ± 5.1km 167.234 W ± 3.2km							PLM	40.77	99	eP	06	46.00	-1.9	KMI	70.16	285	Pc	10 19.50 -0.2	
DEPTH = 33.0km (normol)							MAT	41.04	268	eP	06	52.00	2.2	RUV	70.73	160	eP	10 23.00 0.2	
5.0mb (50 obs.) 5.0MsZ (4 obs.)									eS	13	06.00			0.8s	20.00nm		5.2mb		
FOX ISLANDS, ALEUTIAN ISLANDS (9)							RSSD	41.32	77	eP	06	51.70	-0.7	PPN	72.61	162	eP	10 34.00 0.0	
ML 5.2 (PMR). Ms 5.2 (BRK).								0.8s	60.10nm			5.4mb		0.8s	25.00nm		5.3mb		
Mo=3.0*10**17 Nm (PPT). Felt							BAR	41.36	100	eP	06	53.00	0.4	BRG	75.76	359	iP	11 00.20 8.3X	
(IV) at Unalaska. Also felt at							GLA	42.18	98	eP	07	00.00	0.7		1.3s	22.00nm		5.0mb	
Dutch Harbor.							GOL	43.29	83	eP	07	08.90	0.3	SHL	75.88	294	eP	10 53.00 -0.3	
CENTROID, MOMENT TENSOR (HRV)								0.6s	24.55nm			5.0mb	KRA	76.41	355	eP	10 58.50 2.9X		
Data Used: GDSN							GLD	43.34	83	eP	07	10.00	1.1			e	11 49.10		
L.P.B.: 25S, 52C								1.1s	53.04nm			5.2mb	GRF	76.94	1	eP	10 59.80 1.2		
Centroid Location:							CN2	43.89	285	Pc	07	13.00	0.0		1.6s	12.00nm		4.7mb	
Origin Time 04:59: 8.3 0.3								1.0s	11.00nm			4.6mb			e	11 08.00			
Lat 53.60N 0.05 Lon 166.99W 0.06							Z	20s	4.45um			5.4MsZ	GUN	77.18	300	P	11 00.20 -0.5		
Dep 15.0 FIX Half-duration 2.5							N	12s	0.54um				KKM	77.20	263	eP	11 01.00 0.4		
Moment Tensor: Scale 10**17 Nm							E	12s	0.28um				SPC	77.26	355	eP	10 58.70 -1.9		
Mrr=-1.34 0.05 Mtt=0.17 0.06									eP	07	19.00	20kmX			e	22 46.60			
Mff=1.17 0.05 Mrt=-0.47 0.19									ePP	09	00.00		FLN	77.26	9	eP	11 00.00 -0.4		
Mrf=-0.28 0.23 Mtf=0.57 0.06							ANMO	45.82	89	eP	07	29.00	0.2		0.8s	13.45nm		5.0mb	
Principal Axes:								1.2s	42.97nm			5.2mb	LDF	77.46	9	eP	11 00.90 -0.6		
T Val=1.50 Plg=9 Azm=116							ALQ	45.82	89	eP	07	28.80	0.0		0.9s	16.40nm		5.1mb	
N -0.02 12 208								1.4s	19.19nm			4.8mb	KHC	77.51	359	eP	11 02.40 0.7		
P -1.48 75 350									iPcP	09	06.00				e	11 10.00			
Best Double Couple: Mo=1.5*10**17							SNY	46.20	285	Pd	07	30.00	-1.4			e	11 43.10		
NP1: Strike=192 Dip=37 Slip=-110							Z	20s	2.43um			5.1MsZ	KKN	77.59	300	P	11 02.60 -0.2		
NP2: 37 55 -75									PP	09	24.00		PKI	77.70	300	P	11 02.90 -0.7		
SDN	4.24	65	eP	00	12.20	0.1	DAG	48.23	9	eP	07	47.00	0.0	GKN	77.75	301	P	11 02.20 -1.4	
KDC	9.23	58	eP	01	19.90	-2.1	ACO	48.94	81	iPc	07	54.10	1.1	GEC2	77.79	359	ePKPc	11 02.60 -0.8	
PDB	9.37	44	eP	01	23.75	-0.3	IRK	49.88	307	eP	08	00.00	0.0		0.7s	0.93nm		3.9mb X	
SVW	9.67	36	eP	01	28.30	0.1			ePP	10	00.00		DMN	77.83	300	P	11 04.80 0.6		
ANM	10.90	4	eP	01	49.70	4.7X			eS	15	20.00		ZST	78.38	357	e(P)	11 07.50 1.0		
TTA	10.92	28	eP	01	46.30	1.0			e	15	56.00				e	11 13.50			
PMR	12.45	44	eP	02	07.10	1.4			eSS	19	10.00				e	22 54.20			
KLU	13.76	47	P	02	20.00	-3.2X			eSSS	21	34.00		SRO	78.72	356	eP	11 14.70 6.4X		
TOA	13.92	45	eP	02	24.70	-0.6	MEO	50.59	83	iPc	08	04.90	-0.8	SRO	78.72	356	eP	11 16.80 8.5X	
IMA	14.06	23	eP	02	29.10	1.9	SIO	51.26	80	eP	08	09.90	-0.8			e	30 47.70		
FBA	14.87	34	eP	02	38.50	0.9	TUL	51.45	80	eP	08	11.00	-1.2	LOR	79.09	6	eP	11 10.40 0.0	
	1.0s							1.2s	39.00nm			5.2mb		0.9s	11.45nm		4.9mb		
BRW	18.23	11	eP	03	22.70	2.8	BJI	51.60	288	eP	08	12.00	-1.2	SSF	79.27	6	eP	11 11.30 -0.1	
SIT	18.33	67	e(P)	03	15.70	-5.6X	Z	24s	1.92um			5.0MsZ X		0.8s	12.10nm		4.9mb		
	1.6s						RLO	51.72	79	e(P)	08	12.20	-2.0	LBF	79.38	6	eP	11 11.70 -0.3	
INK	21.49	34	eP	03	52.00	-3.7X	FVM	53.12	74	eP	08	22.70	-2.0		0.8s	8.05nm		4.8mb	
	0.6s							0.8s	40.40nm			5.4mb	MFF	79.44	9	eP	11 12.50 0.2		
PGC	27.56	83	eP	05	03.00	9.2X	ELC	54.29	74	eP	08	31.40	-1.8		1.0s	22.00nm		5.1mb	
YKA	28.37	51	eP	05	01.00	0.0	BTO	54.65	292	eP	08	36.00	0.0	AVF	79.53	7	eP	11 12.70 -0.1	
	0.8s							N	17s			1.13um			1.0s	17.00nm		5.0mb	
GMW	28.48	84	eP	05	02.70	0.6			eS	16	13.00		SMF	79.71	6	eP	11 13.60 -0		

19d 05b

1.2s	29.75nm	5.2mb	SIT	18.20	67 P	15 05.00	0.0	OBN	69.66	346 eP	21 49.00	-12.2X	
LSF	79.93	8 eP	11 15.50	0.5	0.9s	83.33nm	4.9mb	GRF	76.81	1 iPc	22 43.90	0.7	
1.0s	26.00nm	5.2mb	YKA	28.23	51 eP	16 44.90	-0.1	1.1s	8.00nm			4.7mb	
TCF	79.95	7 eP	11 15.00	-0.1	0.7s	5.20nm	4.3mb	LDF	77.32	9 eP	22 46.40	0.4	
1.0s	9.00nm	4.7mb	GMW	28.38	85 eP	16 47.50	1.0	1.1s	19.55nm			5.0mb	
MAF	80.04	7 eP	11 16.60	1.0	28.64	22 ePc	16 50.50	2.0	KHC	77.38	360 eP	22 47.10	0.8
0.9s	11.45nm	4.9mb	MBC	0.5s	8.00nm		4.7mb	e			23 32.30		
CMP	80.82	351 ePd	11 35.00	15.3X	29.36	85 eP	16 56.20	0.8	GEC2	77.66	359 ePc	22 47.40	-0.6
RJF	80.87	8 eP	11 20.10	0.1	29.40	79 eP	16 57.00	1.3	0.6s	1.13nm		4.0mb	
0.8s	8.05nm	4.8mb	PNT	0.7s	24.00nm		5.0mb	LPF	77.79	10 eP	22 47.70	-0.9	
LFF	81.17	9 eP	11 21.90	0.4	31.35	80 ePc	17 13.00	0.0	1.2s	35.70nm		5.3mb	
1.2s	35.70nm	5.2mb	NEW	1.0s	90.00nm		5.6mb	LOR	78.95	6 eP	22 54.60	-0.4	
CAF	81.29	8 eP	11 22.60	0.4	31.49	97 eP	17 17.00	2.7	1.0s	8.00nm		4.7mb	
1.1s	4.90nm	4.4mb	FHC	0.9s	64.62nm		5.5mb	SSF	79.13	7 eP	22 55.60	-0.4	
LPO	81.46	8 eP	11 23.30	0.3	32.38	94 eP	17 23.00	0.7	1.2s	17.85nm		4.9mb	
1.1s	24.40nm	5.1mb	YAK	33.23	310 eP	17 26.30	-2.9	LBF	79.24	6 eP	22 57.00	0.4	
EPF	83.02	9 eP	11 30.50	-0.8	33.75	96 eP	17 34.40	0.5	1.0s	6.00nm		4.5mb	
0.8s	6.05nm	4.7mb	SES	33.82	73 eP	17 35.00	0.5	AVF	79.39	7 eP	22 57.00	-0.3	
QUE	84.18	315 eP	11 34.00	-3.5X	35.19	99 eP	17 47.90	1.5	0.8s	6.05nm		4.6mb	
BBTK	85.21	345 eP	11 44.00	1.5	35.35	80 ePd	17 47.90	0.0	SMF	79.57	6 eP	22 58.00	-0.3
SNG	85.54	276 eP	11 49.80	5.5X	35.40	97 eP	17 49.00	0.8	1.0s	8.00nm		4.7mb	
TOL	85.63	13 eP	11 43.00	-1.5	1.1s	21.57nm		5.0mb	BGF	79.59	7 eP	22 58.90	0.5
TOV	86.56	78 eP	11 51.10	1.7	36.17	84 eP	17 55.30	0.4	0.8s	8.05nm		4.8mb	
SDV	86.79	79 eP	11 51.50	0.8	36.68	95 eP	18 00.00	0.7	TCF	79.81	8 eP	23 00.60	0.9
RMD	88.50	219 eP	12 00.00	1.7	37.09	84 eP	18 03.50	1.0	1.0s	10.00nm		4.8mb	
WR2	88.85	233 iPd	11 59.80	-0.3	37.24	94 eP	18 04.00	0.2	MAF	79.90	7 eP	23 00.80	0.7
0.8s	10.50nm	5.2mb	TNP	0.8s	9.31nm		4.7mb	1.0s	13.00nm		4.9mb		
HYB	89.62	299 eP	12 04.00	0.0	37.53	100 eP	18 07.80	1.6	PCI	80.81	256 ePc	23 14.00	8.7X
0.8s	19.20nm	5.4mb	BCH	38.06	101 eP	18 12.00	1.4	LPG	80.87	4 eP	23 06.60	0.9	
ASPA	92.26	232 iPc	12 18.50	2.6	38.48	88 eP	18 14.20	0.1	1.2s	13.40nm		4.8mb	
1.1s	12.80nm	5.3mb	CLC	38.55	97 iP+	18 16.00	1.3	LFF	81.02	9 eP	23 06.10	0.0	
MTD	140.31	331 ePKP	18 34.50	-1.1	38.80	82 eP	18 17.00	0.1	0.8s	10.75nm		4.9mb	
BUL	144.33	334 iPKPd	18 41.50	-1.1	0.8s	26.79nm		5.1mb	LPO	81.32	8 eP	23 08.40	0.8
1.0s	18.49.00		SBB	39.20	99 eP	18 20.00	-0.1	0.8s	10.75nm		4.9mb		
BFT	149.16	328 iPKPd	18 55.50	5.1X	39.26	87 eP	18 21.00	0.1	QUE	84.15	315 eP	23 19.00	-3.7X
0.7s	37.67nm		DAU	39.37	97 eP	18 22.00	0.4	HO8C	87.08	87 eP	23 37.35	0.0	
JOZ	150.12	324 ePKP	18 58.00	6.5X	39.39	100 eP	18 24.00	2.1	CLMC	87.21	87 eP	23 37.45	-0.6
1.0s	30.00nm		GSC	39.94	90 eP	18 26.80	0.4	HOOC	87.49	88 eP	23 39.25	-0.3	
PRY	151.09	332 ePKP	18 56.00	2.8X	39.95	99 eP	18 26.00	-0.3	PURC	88.57	88 eP	23 45.19	0.2
1.0s	20.00nm		RVR	40.15	99 eP	18 28.00	0.1	RMQ	88.66	219 eP	23 45.00	0.6	
MAW	152.75	220 e(PKP)	18 56.00	1.9X	40.71	99 eP	18 30.00	-2.7	WR2	89.00	233 eP	23 45.20	-0.9
1.0s	25.00nm		PEC	41.21	77 eP	18 36.40	-0.4	0.6s	3.30nm		4.8mb		
BLF	153.51	333 ePKP	19 05.00	8.4X	0.8s	40.06nm		5.2mb	HYB	89.63	300 eP	23 50.00	0.6
FRS	154.35	334 iPKPd	19 10.20	12.7X	41.30	100 eP	18 38.00	0.6	ASPA	92.41	232 eP	24 04.30	2.4
0.7s	10.27nm		GLA	42.11	98 eP	18 44.00	-0.1	1.3s	9.20nm		5.0mb		
NVL	162.90	179 ePKPd	19 10.00	3.9X	43.19	83 eP	18 53.00	0.0	BUL	144.25	334 iPKPd	30 26.50	-1.2
S.D. = 1.1 on 125 of 150 obs.			GOL	0.8s	24.55nm		5.0mb	i			30 32.30		
% OCT 19, 1991 05h 02m 05.39± 1.78s			GLD	43.24	83 eP	18 54.30	0.9	WIN	148.59	353 ePKP	30 26.00	-8.9X	
40.682 N ±15.6km 21.260 E ±11.8km			1.2s	55.56nm		5.2mb		0.7s	10.96nm				
DEPTH = 10.0km (geophysicist)			ANMO	45.73	89 eP	19 13.00	-0.4	BFT	149.10	329 ePKP	30 41.00	5.4X	
GREECE (364)			1.4s	66.86nm		5.4mb		0.7s	17.12nm				
FNA 0.14 41 iPgd 02 08.09 -0.6			ALO	45.73	89 ePd	19 12.80	-0.7	JOZ	150.06	324 ePKP	30 39.00	2.3X	
eSg 02 10.84			1.7s	31.73nm		5.0mb		PRY	151.01	332 e(PKP)	30 26.00	-12.4X	
OHR 0.55 321 ePg 02 16.90 0.2			DAG	48.09	9 iPc	19 31.10	-0.1	SEK	152.29	331 iPKPd	30 47.20	7.0X	
iSg 02 26.20			1.0s	13.00nm		4.9mb		0.7s	27.40nm				
GRG 0.91 72 ePgc 02 21.36 -1.5			ACO	48.84	82 iPd	19 38.30	0.7	MAW	152.90	220 ePKP	30 47.00	7.4X	
eSg 02 35.22			MEO	50.49	83 iPc	19 49.50	-0.7	BLF	153.43	333 ePKP	30 50.00	8.2X	
LIT 1.10 121 ePgc 02 25.52 -0.6			SIO	51.16	80 eP	19 53.60	-1.6	S.D. = 1.2 on 96 of 108 obs.					
THE 1.30 92 iPbd 02 30.74 1.3			TUL	51.34	80 eP	19 54.90	-1.8	OCT 19, 1991 05h 17m 23.12± 0.52s					
KNT 1.33 68 ePbc 02 31.08 1.1			1.8s	120.70nm		5.6mb		40.720 N ± 4.8km 21.409 E ± 4.8km					
S.D. = 1.4 on 6 of 6 obs.			Z 22s 0.53um			4.5MsZ		DEPTH = 10.0km (geophysicist)					
			N 16s 0.52um					GREECE (364)					
			E 18s 0.60um					MD 3.0 (ATH).					
OCT 19, 1991 05h 10m 53.60± 0.40s			LR			28 19.00		FNA 0.07 339 ePgd 17 25.64 0.1					
53.865 N ± 6.3km 167.089 W ± 5.6km			RLO	51.61	79 e(P)	19 56.60	-2.1	eSg 17 27.96					
DEPTH = 33.0km (normal)			VVO	51.77	80 eP	19 55.90	-4.0X	KZN 0.50 146 ePg 17 31.90 -1.3					
4.9mb (38 obs.) 4.5MsZ (1 obs.)			FVM	53.00	74 eP	20 07.00	-2.1	eSb 17 39.00					
FOX ISLANDS, ALUTIAN ISLANDS (9)			1.0s	46.67nm		5.4mb		OHR 0.61 310 iPgc 17 33.90 -1.5					
ML 5.3 (PMR). Mo=1.6*10**17 Nm			ELC	54.17	74 eP	20 15.80	-1.9	iSg 17 43.90					
(PPT). Felt (IV) at Dutch Harbor			GBTN	58.16	72 eP	20 44.00	-2.3	Lg 17 45.40					
and Unalaska. Felt (III) at			TKL	58.42	72 eP	20 46.00	-2.1	GRG 0.79 72 ePgc 17 38.40 -0.1					
Akutan.			BNH	58.62	56 eP	20 48.20	-1.2	eSg 17 49.48					
SDN 4.11 66 eP 11 55.00 -0.6			NAV	58.88	68 eP	20 50.00	-1.4	LIT 1.03 126 ePgc 17 41.98 -0.6					
KDC 9.09 59 eP 13 04.30 -1.1			BLA	59.16	68 eP	20 52.20	-1.1	eSg 17 57.60					
PDB 9.22 45 eP 13 07.85 0.6			0.8s	20.13nm		5.3mb		VAY 1.06 55 ePn 17 43.60 0.4					
SVW 9.52 36 e(P) 13 10.90 -0.5			LVNJ	59.58	62 eP	20 55.00	-1.1	KNT 1.21 68 iPbc 17 45.84 0.2					
TTA 10.77 28 eP 13 31.10 2.6			TBR	59.62	61 eP	20 55.80	-0.6	iSb 18 03.68					
PMR 12.29 44 eP 13 48.50 -0.5			CVL	59.67	66 eP	20 56.00	-0.7	Lg 18 07.30					
1.8s	417.60nm	6.3mb X	PNJ	59.83	61 iP	20 57.10	-0.7	SKO 1.25 1 ePn 17 46.00 -0.4					
KLU 13.61 47 P 14 05.00 -1.5			GMTN	59.83	61 iP	20 57.30	-0.5	e 17 47.90					
TOA 13.77 45 eP 14 08.70 0.1			PRM	60.35	72 eP	21 02.50	1.0	iSn 18 05.00					
IMA 13.91 23 eP 14 13.80 3.3X			HBF	62.32	71 eP	21 12.00	-2.7	iSg 18 05.50					
FBA 14.72 34 e(P) 14 22.30 1.4			NB2	65.44	1 P	21 35.20	0.4	Lg 18 07.30					
1.0s	70.00nm	5.0mb	0.8s	2.60nm		4.4mb		IGT 1.45 215 ePbc 17 50.00 0.7					
BRW 18.09 11 eP 15 06.00 2.5			HFS	66.35	360 eP	21 40.00	-0.5	eSb 18 08.42					
			0.5s	1.90nm		4.4mb		SOH 1.48 85 ePbd 17 49.44 -0.4					

						1.1s 190.00nm 5.6mb						1.6s 360.00nm 5.9mb							
KEK	1.59	231	ePn	17	53.00	1.6			sP	24	44.50		Z	18s	4.30um		5.4Msz		
SRS	1.70	76	iPbc	17	53.60	0.6	HHC	28.05	276 Pc	24	37.00	0.1	N	15s	1.30um				
			eSb	18	15.12				1.2s	360.00nm		5.9mb	E	15s	1.20um				
AGG	1.84	157	iPbd	17	53.92	-1.1			Z	18s	7.01um		5.3Msz		pP	26	51.00		
			eSb	18	17.76				N	13s	1.48um				eS	33	02.00		
PAIG	1.91	114	ePbd	17	56.21	0.2			E	14s	3.95um			WMO	43.53	292 iPc	26	48.80	
OUR	2.00	100	ePbc	17	58.81	1.5					pP	24	47.00	36km		1.0s	82.00nm		5.4mb
	S.D. = 1.0	on 15 of 15 obs.					TIY	28.62	270 eP	24	42.00	-0.1	Z	18s	6.01um		5.5Msz		
								1.2s	81.00nm		5.2mb		N	15s	5.57um				
	OCT 19, 1991	05h 18m 48.00± 0.16s						Z	19s	3.46um		5.0Msz	INK	45.04	31 eP	26	59.00		
	44.289 N ± 3.7km		149.595 E ± 2.5km					N	14s	1.24um				0.7s	39.00nm		5.4mb		
	DEPTH = 46.4km (22 depth phases)							E	14s	1.40um			MBC	47.74	19 ePd	27	20.60		
	5.6mb (97 obs.)		5.2Msz (19 obs.)				BTO	29.24	277 iPd	24	47.00	-0.6		1.0s	52.00nm		5.5mb		
KURIL ISLANDS	(221)							1.4s	110.00nm		5.3mb				pP	27	34.20		
								N	15s	3.31um			LSA	47.93	273 P	27	25.00		
KUSJ	3.74	253 P		19	42.20	-2.4			E	16s	3.90um		N	13s	0.56um		0.7		
		S		20	24.00						pP	24	57.00	36km		pP	27	38.00	
HOQJ	4.98	250 P		20	01.70	-0.4	IRK	30.74	301 eP	24	59.00	-1.7			eS	34	15.00		
		S		20	58.00					e	25	14.00	61kmX	LOE	48.17	252 eP	27	27.00	
ASAJ	5.00	270 P		20	04.10	1.6				e	25	41.00		CHG	49.13	256 ePc	27	33.30	
SAP	6.12	261 iP		20	19.30	1.2				e	26	06.00			1.1s	57.91nm		5.5mb	
MRRJ	6.49	256 eP		20	22.00	-1.3								NST	50.47	252 eP	27	47.00	
		S		21	34.10		WHN	30.92	256 Pc	25	02.00	-0.4		GUN	52.74	274 P	28	00.60	
AOMJ	7.77	245 eP		20	39.00	-2.2		1.0s	68.00nm		5.3mb		NNT	52.94	249 iPd	28	03.20		
OFUJ	7.89	231 P		20	38.80	-4.1X		Z	18s	6.02um		5.3Msz	PKI	53.27	274 P	28	04.40		
		eS		22	02.20			N	15s	1.64um			KSH	53.33	292 P	28	04.00		
YAMJ	9.44	233 eP		21	02.10	-2.1	XAN	E	17s	5.20um			DMN	53.47	275 P	28	06.10		
NIIJ	10.68	232 P		21	18.40	-2.7				pP	25	16.00	56km	GKN	53.57	275 P	28	06.30	
KAKJ	10.81	225 P		21	19.00	-4.0X		32.86	266 P	25	17.60	-1.8		YKA	54.37	35 eP	28	11.00	
		S		23	12.60			1.1s	63.00nm		5.4mb				0.7s	9.80nm		4.9mb	
CHJJ	11.55	228 P		21	29.20	-3.7X		N	13s	0.97um			SNG	56.35	244 eP	28	28.00		
		S		23	32.00			E	14s	1.71um			MCW	57.23	52 P	28	39.60		
MAT	11.62	232 eP		21	30.00	-3.9X	LZH	35.51	273 iPc	25	42.30	-0.1	GMW	57.85	53 P	28	36.80		
	0.8s	40.30nm				5.6mb		1.5s	320.00nm		6.0mb				pP	28	49.30		
	Z 20s	5.32um				5.2Msz		Z 20s	2.91um		5.0Msz		BMW	58.17	54 P	28	38.60		
		eS		23	38.00			N 13s	1.06um				NDI	58.45	281 iPc	28	41.00		
MDJ	14.29	278 iPd		22	09.00	-0.2				pP	25	55.00	47km		iS	36	42.00		
	1.0s	190.00nm				5.6mb				sP	25	58.00		RMW	58.46	53 P	28	40.70	
	Z 16s	7.58um				3.7Msz	TTA	35.90	39 eP	25	45.50	0.2		PNT	58.69	50 eP	28	42.00	
	N 16s	7.74um					SVW	35.96	43 eP	25	46.80	1.0			0.6s	10.00nm		5.1mb	
	E 14s	9.17um						1.1s	131.20nm		5.8mb		SHW	58.90	54 P	28	45.00		
		pP		22	18.00		GZH	36.42	247 Pc	25	51.80	1.8			pP	28	57.00		
		sP		22	21.00			Z 18s	3.63um		5.2Msz		DAG	58.99	357 eP	28	42.00		
CN2	17.36	277 P		22	46.00	-2.3		N 16s	7.27um				DPW	60.27	51 P	28	52.50		
	1.0s	170.00nm				5.1mb		E 16s	1.11um			NEW	60.65	50 P	28	55.00			
	Z 18s	19.50um				4.2MszX	GTA	36.94	280 iPc	25	55.00	0.7			0.8s	25.00nm		5.4mb	
	N 13s	1.54um						1.0s	150.00nm		5.9mb				pP	29	10.00		
	E 13s	2.84um						Z 16s	3.54um		5.2MszX		LBFM	61.84	59 P	29	04.40		
		epP		22	52.00			E 13s	3.19um				ORV	63.13	60 P	29	12.00		
		eS		25	50.00					pP	26	08.00	49km	FFC	64.21	38 eP	29	19.50	
SNY	19.15	272 iPd		23	09.00	-1.1				sCs	36	05.00			0.7s	27.00nm		5.4mb	
	1.6s	380.00nm				5.4mb	BAG	37.05	231 ePc	25	55.00	-0.4	ARN	64.43	62 P	29	20.90		
	Z 18s	7.61um				4.6MszX	IMA	37.24	34 iP	25	56.20	-0.4	HYB	64.55	270 iPc	29	21.50		
	N 16s	3.60um					BRW	37.26	25 iP	25	56.30	-0.1	KAF	64.61	334 eP	29	20.40		
	E 19s	4.06um												0.7s	29.20nm		5.4mb		
		sP		23	26.00		RSO	37.36	44 P	25	57.80	0.1							
YAK	21.23	334 iPd		23	27.60	-4.1X	KDC	37.63	48 eP	25	59.00	-0.7	LRM	64.66	50 ePd	29	23.10		
		iPP		24	02.00		CD2	38.21	265 iPc	26	04.80	-0.2	QUE	64.67	288 eP	29	22.00		
		iPPP		24	21.00			1.2s	270.00nm		6.0mb		CMB	64.74	61 P	29	23.50		
		eS		27	29.00			Z 16s	2.14um		5.1MszX			1.3s	20.49nm		5.0mb		
		iPS		27	44.00			E 14s	1.91um				OIS	65.17	190 iPd	29	26.70		
		isS		27	53.00					pP	26	12.00	24kmX	WR2	65.43	196 iPc	29	28.30	
		eSS		28	13.00					sP	26	18.00			0.8s	22.40nm		5.3mb	
		eSSS		28	24.00					PcP	28	18.50		KVN	65.54	59 P	29	29.20	
DL2	21.54	265 Pc		23	33.00	-2.0				eS	31	57.00							
	E 13s	1.76um								PcS	32	10.00		HPI	65.61	52 P	29	29.20	
BJI	25.03	272 Pc		24	09.00	0.0	GYA	38.76	257 iPc	26	09.40	-0.3	MAIO	65.85	298 eP	29	30.00		
	2.0s	990.00nm				6.0mb		1.4s	180.00nm		5.7mb		OBN	65.91	325 iPc+	29	29.00		
	Z 18s	5.61um				5.1Msz		Z 18s	6.48um		5.5Msz			1.0s	160.00nm		6.0mb		
	N 14s	1.66um						N 15s	3.06um				Z	16s	2.20um		5.5MszX		
	E 16s	2.93um						E 15s	2.60um				N	16s	1.40um				
										pP	26	17.00	26kmX		1.80um				
SSE	25.91	249 Pc		24	18.00	0.7				sP	26	22.00			iPcP	29	44.50		
	1.6s	170.00nm				5.3mb				PcS	32	04.00			e	30	01.00		
	Z 20s	5.10um				5.1Msz				sS	32	22.00			ePP	31	52.00		
	N 16s	1.10um													ePPP	33	24.00		
	E 16s	4.10um													eS	38	08.00		
		sP		24	35.00		PMR	39.09	42 eP	26	10.80	-1.1			ePS	38	24.00		
TIA	25.93	263 Pc		24	17.30	-0.2		1.1s	27.10nm		5.0mb				eScS	39	10.00		
	1.6s	270.00nm				5.5mb	RND	39.16	39 P	26	11.60	-1.0			e	45	20.00		
	Z 19s	3.05um				4.9Msz	FBA	39.62	36 eP	26	16.60	0.3	BQNR	66.09	60 P	29	32.40		
	N 18s	1.35um						1.0s	50.00nm		5.3mb		NUR	66.35	334 eP	29	31.60		
	E 18s	3.71um						40.45	41 iP	26	24.40	1.1			0.4s	18.00nm		5.5mb	
								40.63	42 P	26	24.10	-0.6							
								41.59	246 Pc	26	28.00	-5.0X	PTI	66.55	53 P	29	35.60		
								1.1s	230.00nm		5.8mb		TNP	66.68	59 P	29	35.70		
NJ2	26.92	253 Pd		24	27.00	0.4	KMI	42.35	259 Pc	26	40.00	0.6	POO	67.19	274 iPd	29	39.80		

CLC	67.86	61	iPd	29	43.00	-0.6			1.7s	178.00nm		5.8mb	SRS	82.13	322	ePd	31	04.96	0.0		
DUG	68.00	55	P	29	44.40	-0.1			Z 19s	1.00um		5.2Msz	OGA	82.14	333	iPd	31	06.10	1.0		
BW06	68.20	51	P	29	44.90	-1.0			N 21s	1.30um			HRI	82.15	309	iPd	31	05.40	0.1		
	1.0s	16.67nm				5.0mb			E 21s	1.20um			ECH	82.15	336	P	31	04.62	-0.3		
		pP		30	00.00	54km		SRO	78.78	329	eP	30	47.70	0.7	SLE	82.15	335	ePd	31	05.20	0.3
SBB	68.43	62	eP	29	47.00	-0.2		BUD	78.78	328	iPd	30	47.00	0.0	FEL	82.20	335	P	31	04.62	-0.7
GSC	68.69	61	eP	29	48.00	-0.8		WTS	78.86	338	eP	30	43.00	-4.3X	TRI	82.21	330	iPc	31	05.00	-0.2
DAU	68.77	54	P	29	49.20	-0.3			1.0s	88.00nm		5.7mb						31	16.00	35km	
UPP	69.00	336	iPd	29	48.80	-1.3		ZST	78.90	330	iP	30	48.40	0.8	IVA	82.27	325	iPd	31	06.54	0.8
ASPA	69.13	195	iPd	29	52.70	1.3					31	02.60	49km	NWAO	82.31	207	eP	31	07.80	2.1	
	0.8s	31.90nm				5.3mb		VKA	79.12	330	eP	30	49.00	0.1	SKO	82.37	324	iP	31	06.50	0.4
RVR	69.16	63	eP	30	03.00	11.4X			3.0s	493.00nm		5.9mb			1.3s	150.00nm			5.9mb		
PEC	69.36	63	P	29	52.00	-0.9				id	30	49.70	2kmX	KNT	82.40	322	ePc	31	05.92	-0.4	
MSU	69.46	56	P	29	53.60	-0.1				i	31	05.20		PRK	82.41	319	eP	31	06.80	0.4	
NB2	69.72	340	P	29	53.20	-1.4		CAN	79.24	180	eP	30	52.00	2.5X	VAY	82.42	323	iP	31	07.70	1.3
	0.9s	74.20nm				5.6mb		KHC	79.32	332	iPd	30	51.00	1.0				31	20.00	41km	
HFS	69.86	338	eP	29	54.00	-1.4				e	31	04.00	44km	ZLA	82.44	335	ePd	31	07.00	0.5	
	0.7s	59.10nm				5.7mb				e	31	10.00		PVY	82.47	325	iPd	31	07.16	0.4	
Z	17s	0.85um				5.1MszX		ADE	79.50	189	eP	30	53.20	2.2	SOH	82.48	322	iPd	31	06.72	-0.1
		LR	57	20.00			GEC2	79.53	332	ePc	30	50.20	-1.0	MOF	82.49	336	P	31	06.58	-0.2	
RSSD	70.31	47	P	29	57.00	-1.7			0.6s	10.93nm		4.9mb	VITF	82.49	336	P	31	06.68	0.0		
	1.0s	29.83nm				5.2mb				e	30	55.00	15kmX	HAU	82.58	336	eP	31	07.30	0.1	
RMO	70.43	181	iPd	30	01.20	2.0		WET	79.54	333	iPc	30	51.30	0.1		0.8s	18.80nm		5.2mb		
	0.9s	20.00nm				5.1mb			1.5s	237.00nm		5.9mb		Z	20s	1.27um		5.3Msz			
GLA	71.39	62	eP	30	05.00	-0.2		HRT	79.56	318	iP	30	52.40	1.0	VAL	82.58	348	iP	31	07.20	0.2
GOL	72.60	51	P	30	12.00	-0.6		GRF	79.60	334	iPc	30	51.80	0.3	OSS	82.59	333	ePd	31	08.20	0.8
	0.9s	7.2																			

LPL	84.71	335 eP	31 19.00	0.7	NVL	146.38	204 ePKPc	38 22.50	-0.1		0.4 s	0.55nm	3.9mb
	0.8 s	38.95nm		5.6mb		e	38 37.00				S.D. = 1.3 on 16 of 16 obs.		
LPG	84.72	335 eP	31 19.10	0.7		e	38 43.00				% OCT 19, 1991 05h 39m 54.78± 0.67s		
	0.8 s	40.30nm		5.6mb		e	39 02.00				40.039 N ± 6.0km	28.462 E ± 5.7km	
BDI	84.75	332 P	31 18.40	0.1	LCCH	146.50	85 ePKP	38 25.00	1.0	TURKEY		(geophysicist)	(366)
PRNI	84.76	308 iPd	31 18.70	0.2	ROCH	146.64	84 ePKP	38 26.00	1.5	DST	0.45	164 iPg	40 04.00 0.0
IGT	84.86	323 ePd	31 18.56	-0.3	LNV	146.86	86 ePKP	38 26.50	2.0		iSg	40 11.00	
RSP	84.87	334 P	31 18.63	-0.3	PEL	146.96	84 iPKPd	38 27.10	2.3	EDC	0.55	304 iPg	40 05.50 -0.5
BGF	84.88	338 eP	31 19.20	0.3	TACH	147.05	85 ePKP	38 27.50	2.6X		eSg	40 13.50	
	1.3 s	86.65nm		5.7mb	PCH	147.33	85 ePKP	38 25.00	-0.4	IZI	0.83	69 iPg	40 10.90 0.0
ASS	84.89	330 P	31 19.60	0.6	CHCM	147.39	85 ePKP	38 28.50	3.0X	YLV	0.87	53 iPg	40 11.40 -0.2
KEK	84.94	323 eP	31 19.00	-0.2	BAO	147.78	33 ePKPd	38 29.50	2.9X	KGT	0.98	295 iPn	40 13.50 0.2
PCP	85.01	333 P	31 19.66	0.1	SNA	150.39	199 iPKPd	38 35.90	7.0X	CTT	1.11	359 ePn	40 15.40 -0.1
BNI	85.14	335 P	31 21.30	1.0		0.9 s	50.42nm			DMK	1.86	344 ePn	40 27.50 0.6
BHB	85.15	334 P	31 19.35	-0.9	PPD	151.89	45 ePKP	38 37.40	4.8X		S.D. = 0.4 on 7 of 7 obs.		
PLDF	85.21	337 P	31 21.17	0.6		e	38 39.60			* OCT 19, 1991 05h 45m 27.89± 0.88s			
RRL	85.23	334 P	31 21.92	1.0		e	38 41.90			44.128 N ±16.4km	149.803 E ±12.7km		
AGO	85.27	337 P	31 21.77	1.0						DEPTH = 33.0km (normal)			
MAF	85.27	338 iPc	31 21.30	0.5						4.6mb (13 obs.)			
TCF	85.30	338 eP	31 21.60	0.6						KURIL ISLANDS		(221)	
	1.0 s	52.00nm		5.7mb									
FIN	85.41	333 P	31 21.20	-0.4									
ROB	85.45	333 P	31 21.61	-0.2									
MNS	85.48	329 P	31 21.90	-0.1									
PZZ	85.50	334 P	31 21.51	-0.6									
LSF	85.52	338 eP	31 22.90	0.8									
SSB	85.58	336 P	31 23.22	0.8									
PYM	85.58	337 P	31 22.97	0.5									
COLF	85.60	337 P	31 23.15	0.6									
MFF	85.63	340 iPc	31 23.50	1.0									
	0.6 s	41.50nm		5.8mb									
ENR	85.65	334 P	31 21.71	-1.1									
SDI	85.65	328 P	31 22.70	-0.1									
STV	85.67	334 P	31 23.35	0.4									
IMI	85.78	333 P	31 23.76	0.3									
VLS	85.87	322 eP	31 24.00	0.1									
NPS	85.90	317 eP	31 24.00	-0.1									
SBF	85.97	334 eP	31 24.50	0.1									
	1.0 s	70.00nm		5.8mb									
VLI	86.00	320 eP	31 22.60	-2.0									
RDP	86.02	329 P	31 24.70	0.1									
SGO	86.06	327 P	31 24.70	-0.1									
MGR	86.33	326 P	31 25.20	-0.9									
CSI	86.34	326 P	31 26.30	0.1									
MMN	86.36	326 P	31 25.50	-0.8									
RJF	86.40	338 eP	31 27.50	1.1									
	1.0 s	64.00nm		5.8mb									
Z	20 s	1.42um		5.4Msz									
ROI	86.40	326 P	31 26.80	0.2									
FRF	86.49	334 eP	31 27.30	0.4									
	1.2 s	148.75nm		6.1mb									
CAF	86.60	338 iPc	31 28.40	0.9									
PGF	86.63	332 eP	31 27.90	0.2									
	1.2 s	83.30nm		5.8mb									
GBTN	86.64	41 P	31 27.30	-0.5									
CDR	86.66	335 ePd	31 28.50	0.8									
LRG	86.68	334 eP	31 28.50	0.7									
	1.0 s	128.00nm		6.1mb									
Z	20 s	0.80um		5.1Msz									
ACI	86.74	326 P	31 29.80	1.6									
LMR	86.74	334 eP	31 28.70	0.6									
TKL	86.85	41 P	31 28.80	0.0									
LFF	86.94	338 iPc	31 30.40	1.3									
	0.8 s	59.10nm		5.9mb									
LPO	87.06	338 iPc	31 31.20	1.5									
	0.8 s	26.85nm		5.5mb									
BLA	87.10	38 P	31 30.00	0.0									
	1.0 s	15.00nm		5.2mb									
GRI	87.10	325 P	31 30.23	0.3									
	1.1 s	63.10nm		5.8mb									
CVL	87.30	36 P	31 31.40	0.5									
NA2	87.48	35 P	31 31.70	0.0									
MLS	88.69	337 P	31 37.89	0.4									
PRM	88.81	41 P	31 38.50	0.3									
EPF	88.82	338 iPc	31 39.30	1.1									
	0.8 s	9.40nm		5.2mb									
JSC	89.16	40 P	31 39.80	0.0									
PZI	89.25	325 P	31 40.34	0.0									
	0.9 s	35.90nm		5.7mb									
SGS	90.41	40 P	31 46.00	0.3									
HBF	90.68	40 P	31 47.20	0.3									
TOL	92.91	340 eP	31 57.00	-0.2									
TIC	124.37	329 PKP	37 43.70	-0.1									
KIC	124.53	328 PKP	37 43.90	-0.1									
LIC	124.76	329 PKP	37 44.40	0.0									
Z	20 s	0.21um		4.8Msz									
SOB1	143.88	18 ePKP	38 17.50	-2.6									

19d 05h

FBA	14.88	33	eP	49	15.50	-0.4
	1.1s	108.13nm				5.1mb
BALM	15.17	51	P	49	17.60	-2.2X
BRW	18.30	11	eP	49	59.90	0.9
INK	21.50	34	eP	50	32.00	-2.0
MBG	28.83	22	eP	51	43.50	0.3
RMW	28.99	84	P	51	45.30	0.3
NEW	31.35	79	eP	52	05.50	-0.4
	0.8s	16.67nm				4.9mb
SES	33.85	72	eP	52	28.00	0.3
ARN	35.12	99	eP	52	39.30	0.6
HPI	36.15	83	eP	52	48.20	0.5
BONR	36.62	95	eP	52	52.90	1.2
PTI	37.07	84	eP	52	56.80	1.5
HVU	37.49	86	P	52	59.30	0.6
DUG	38.44	88	eP	53	07.10	0.3
BW06	38.79	82	eP	53	10.00	0.2
	1.5s	30.51nm				4.9mb
DAU	39.23	86	eP	53	13.60	0.0
MSU	39.90	89	eP	53	19.20	0.2
PLM	40.63	99	eP	53	24.10	-0.9
RSSD	41.22	77	eP	53	29.50	-0.3
	1.0s	13.56nm				4.6mb
GOL	43.17	83	eP	53	45.80	-0.1
	0.9s	5.68nm				4.3mb
ANMO	45.69	89	eP	54	06.00	-0.1
	1.3s	6.73nm				4.4mb
ALO	45.70	89	eP	54	06.00	-0.1
	1.4s	8.14nm				4.5mb
		ePcP	55	44.00		
FVM	53.03	74	eP	55	00.10	-2.1
	1.0s	10.00nm				4.7mb
ELC	54.20	74	eP	55	09.00	-1.8
CVL	59.73	66	eP	55	49.00	-1.0
KAF	64.11	353	eP	56	01.30	-17.8X
	0.4s	1.90nm				
NUR	65.82	354	iP	56	14.60	-15.4X
	0.5s	7.80nm				
KHC	77.60	360	eP	57	32.50	-8.0X
WRA	88.90	233	P	58	39.00	0.4
	0.7s	1.00nm				4.3mb
S.D. = 0.9 on 35 of 41 obs.						
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? OCT 19, 1991	06h 02m	10.81±	4.37s			
41.353 N ±32.7km	22.704 E ±14.0km					
DEPTH = 10.0km (geophysicist)						
NORTHWESTERN BALKAN REGION (383)						
KNT	0.24	142	ePgc	02	15.92	0.0
			eSg	02	19.16	
GRG	0.46	210	ePgd	02	20.08	0.0
			eSg	02	26.44	
SRS	0.71	109	ePgc	02	24.72	-0.1
			eSg	02	34.24	
SOH	0.72	137	iPgd	02	25.01	-0.1
			eSg	02	34.84	
OUR	1.41	136	ePbd	02	36.61	0.2
S.D. = 0.2 on 5 of 5 obs.						
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* OCT 19, 1991	06h 03m	03.70±	1.30s			
53.641 N ±14.1km	167.066 W ±18.5km					
DEPTH = 33.0km (normal)						
4.2mb (2 obs.)						
FOX ISLANDS, ALEUTIAN ISLANDS (9)						
ML 4.0 (PMR).						
SDN	4.19	63	eP	04	07.30	0.5
KDC	9.20	58	eP	05	16.50	-0.5
SVW	9.69	35	eP	05	26.50	2.6
TTA	10.96	27	eP	05	41.60	0.3
KLU	13.75	47	eP	06	16.04	-2.4
TOA	13.92	44	e(P)	06	21.00	0.3
IMA	14.11	23	eP	06	28.10	4.9X
FBA	14.90	33	eP	06	33.70	0.4
INK	21.52	34	eP	07	49.00	-2.3
MBG	28.84	22	eP	09	01.00	0.5
NEW	31.38	79	eP	09	23.60	0.3
SES	33.87	72	eP	09	46.00	0.9
BW06	38.82	82	eP	10	30.70	3.5X
MSU	39.93	89	eP	10	38.50	2.1
RSSD	41.25	77	eP	10	47.00	-0.2
GOL	43.20	83	eP	11	04.50	1.2
ALO	45.72	89	e(P)	11	22.00	-1.5
	1.3s	5.77nm				4.3mb
		ePcP	13	02.00		
GBTN	58.22	72	eP	12	55.00	-1.8
CVL	59.75	66	eP	13	06.60	-0.8

WRA	88.88	233	P	15	56.00	0.3
	0.7s		0.80nm			4.2mb
	S.D. = 1.5		on 18 of		20 obs.	
% OCT	19, 1991	06h	22m	53.13±	0.65s	
	40.677 N ± 5.7km			21.367 E ± 5.8km		
DEPTH =	5.0km		(geophysicist)			
GREECE						(364)
FNA	0.11	4	iPg	22 56.46		1.0
			eSg	22 58.70		
DHR	0.61	315	iPg	23 04.60		-0.8
			iSg	23 14.60		
			Lg	23 15.10		
GRG	0.83	70	ePg	23 09.18		-0.6
			eSg	23 22.34		
LIT	1.03	124	ePg	23 12.61		-0.5
			eSg	23 28.34		
KNT	1.26	67	ePb	23 16.90		0.0
			iSb	23 34.86		
IGT	1.39	215	ePbd	23 19.32		0.1
			eSb	23 39.32		
SOH	1.52	84	ePbd	23 21.22		0.2
			eSb	23 42.34		
AGG	1.81	156	ePbc	23 25.81		0.6
	S.D. = 0.7		on 8 of		8 obs.	
OCT	19, 1991	06h	32m	58.78±	0.66s	
	40.723 N ± 6.5km			21.447 E ± 5.8km		
DEPTH =	5.0km		(geophysicist)			
GREECE						(364)
FNA	0.08	319	iPg	33 01.90		1.2
			eSg	33 03.96		
OHR	0.63	309	iPg	33 10.00		-1.3
			iSg	33 20.00		
			Lg	33 21.60		
GRG	0.76	72	ePg	33 14.61		0.5
			eSg	33 26.06		
LIT	1.01	128	ePg	33 18.36		0.0
			eSg	33 32.31		
VAY	1.04	55	ePn	33 16.00		-2.8
KNT	1.18	68	iPbd	33 22.08		0.7
			eSb	33 38.81		
SKO	1.25	360	ePn	33 23.50		1.1
			i	33 24.50		
			iSg	33 42.00		
			Lg	33 43.50		
SOH	1.45	85	ePbd	33 26.06		0.3
IGT	1.46	216	ePbd	33 25.76		-0.1
			eSb	33 45.01		
AGG	1.83	158	ePbd	33 31.12		0.0
			eSb	33 55.62		
PAIG	1.88	114	ePbd	33 31.87		0.0
OUR	1.97	101	ePnd	33 33.62		0.5
	S.D. = 1.2		on 12 of		12 obs.	
OCT	19, 1991	07h	02m	11.93±	0.69s	
	16.871 N ± 10.1km			94.641 E ± 7.1km		
DEPTH =	33.0km		(normol)			
	4.4mb (3 obs.)					
NEAR SOUTH COAST OF MYANMAR						(298)
BDT	4.19	84	eP	03 14.50		-0.6
	0.6s		174.70nm			
KHT	4.33	118	iPn	03 16.60		-0.6
			ePg	03 20.60		
			eSg	03 47.60		
CHG	4.53	64	ePn	03 20.90		0.8
			iSg	04 15.10		
CHTO	4.53	64	ePd	03 20.20		0.1
NST	5.41	102	eP	03 34.00		1.6
LOE	6.80	84	eP	03 51.00		-1.0
SHL	9.03	344	eP	04 22.50		-0.7
			eS	06 04.00		
GUN	13.64	325	P	05 28.60		2.8x
PKI	13.65	323	P	05 25.70		-0.2
DMN	13.85	322	P	05 29.00		0.5
KKN	13.89	323	P	05 28.00		-0.9
GKN	14.42	322	P	05 36.00		0.1
HYB	15.39	274	eP	05 55.00		6.6x
WR2	53.49	132	iPc	11 31.10		-0.5
	0.4s		3.40nm			4.7mb
ASPA	55.62	135	iPd	11 47.00		-0.2
	1.0s		4.10nm			4.4mb
GEC2	71.57	317	ePKP	13 33.40		1.4
	0.6s		0.89nm			4.0mb

S.D. = 0.9 on 14 of 16 obs.									
? OCT 19, 1991 07h 21m 27.68± 8.83s 16.901 N ±34.9km 60.612 W ±67.4km DEPTH = 33.0km (normal)	(92)								
LEEWARD ISLANDS									
ML 3.1 (FDF).									
DEG 0.73 216 eP 21 40.65 -0.9 S 21 48.20									
SEG 0.99 240 eP 21 44.40 -0.8 S 21 56.20									
MGG 1.19 215 eP 21 48.20 0.2 S 22 02.00									
BPA 1.20 277 eP 21 47.96 -0.3 S 22 00.30									
DOG 1.30 228 eP 21 49.80 0.2									
PAG 1.34 230 eP 21 50.50 0.2 S 22 07.40									
MGH 1.55 264 eP 21 53.90 0.6									
BBL 1.60 211 eP 21 54.60 0.5									
S.D. = 0.7 on 8 of 8 obs.									
? OCT 19, 1991 07h 55m 50.60± 4.72s 7.370 S ±38.1km 127.562 E ±29.9km DEPTH = 131.7 ± 49.0 km 4.6mb (2 obs.)	(280)								
BANDA SEA									
MTN 6.48 147 iPd 57 25.20 0.4 0.3s 89.00nm 5.6mb x e 57 34.00 eS 58 30.00									
KNA 8.41 172 eP 57 50.50 -0.5 eS 59 16.00									
WR2 14.14 153 eP 59 03.50 -2.7x 0.7s 11.00nm 4.3mb ipP 59 10.70 eS 01 28.70									
ASPA 17.31 160 iPc 59 46.30 0.6 0.3s 19.80nm 4.9mb iS 02 48.00									
QIS 17.55 140 eP 59 48.00 -0.5 eS 02 48.00									
HYB 54.32 297 eP 05 06.00 0.0									
S.D. = 1.0 on 5 of 6 obs.									
? OCT 19, 1991 08h 16m 14.85± 3.88s 31.472 S ±49.0km 69.197 W ±57.6km DEPTH = 110.0km (geophysicist)	(137)								
SAN JUAN PROVINCE, ARGENTINA									
RTCB 0.34 93 iPd 16 31.00 -0.1 S 16 44.00									
RTLL 0.64 77 iPc 16 32.70 -0.3									
CFA 0.83 100 iPc 16 35.00 0.3 S 16 51.00									
RTRS 1.32 350 iPc 16 39.90 0.1 S 16 58.60									
S.D. = 0.5 on 4 of 4 obs.									
OCT 19, 1991 08h 48m 19.22± 0.11s 9.012 S ± 3.2km 117.170 E ± 3.7km DEPTH = 96.7km (29 depth phases) 5.8mb (76 obs.)									
SUMBAWA REGION, INDONESIA (285)									
Felt on Boli and Lombok.									
FAULT PLANE SOLUTION: P-Waves									
NP1:Strike=150 Dip=66 Slip= 70									
NP2: 12 31 128									
Principal Axes:									
T P1g=63 Azm= 27									
P 19 255									
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting with a moderate strike-slip component. The preferred fault plane is not determined.									
RADIATED ENERGY									
No. of sta: 5 Focal mech. M									
Energy 4.2±1.6*10**11 Nm									
MOMENT TENSOR SOLUTION									
Dep 65 No. of sta: 7									
Moment Tensor: Scale 10**17 Nm									
Mrr= 1.38 Mtt= 0.03									

Mff=-1.41	Mrt= 0.30	NNT	27.58	321	eP	54	00.00	0.7	1.0s	35.00nm	5.2mb	
Mrf=-0.31	Mtf= 0.15				e	00	48.00		Z 20s	0.50um	4.4msz	
Principal axes:		PMG	29.60	93	eP	54	18.00	0.5		pP	56 07.50 81kmX	
T Vol= 1.47	Pig=78	NST	29.77	325	eP	54	22.00	3.1X		PcP	57 50.50	
N 0.00	10 172	KHT	29.97	322	eP	54	21.00	0.3		eS	01 42.00	
P -1.47	7 263	CTA	30.17	115	iPc	54	22.50	-0.1	NJ2	40.86 2 iPc	55 55.00 1.9	
Best Double Couple:Mo=1.5*10**17			1.0s	47.50nm				5.2mb		0.8s	280.00nm 6.1mb	
NP1:Strike= 4 Dip=39 Slip= 106				ipP	54	43.00	90km			pP	56 17.00 93km	
NP2: 164 53 77				i	55	06.00				iPcP	57 53.00	
CENTROID. MOMENT TENSOR (HRV)				eS	59	15.00				ScP	01 35.00	
Data Used: GDSN		LOE	30.36	330	iPc	54	22.00	-2.2	CD2	41.73 343 iPc	56 00.00 0.5	
L.P.B.: 25S, 46C		OLP	31.02	128	iPc	54	30.00	0.1		0.7s	440.00nm 6.4mb	
Centroid Location:			0.7s	136.00nm				5.8mb	SHL	42.27 325 iP	56 22.50 91km	
Origin Time 08:48:24.4 0.3				i	54	52.40	99km			iS	01 39.70 -0.6	
Lot 8.99S FIX;Lon 117.21E FIX				e	00	29.00			XAN	43.52 350 iPc	56 14.70 -0.2	
Dep 96.0 2.0 Half-duration 2.2										0.6s	56.00nm 5.6mb	
Moment Tensor: Scale 10**17 Nm		HKC	31.26	355	eP	54	33.40	1.4		S	02 35.00	
Mrr= 1.54 0.04 Mtt= 0.34 0.06		BDT	31.67	325	eP	54	35.70	0.1	TIA	44.98 360 Pc	56 26.30 -0.2	
Mff=-1.89 0.08 Mrt= 0.10 0.05			0.6s	44.70nm				5.4mb		1.0s	65.00nm 5.4mb	
Mrf= 0.09 0.05 Mtf=-0.51 0.06		GZH	32.12	353	P	54	40.00	0.5		pP	56 47.00 86kmX	
Principal Axes:			1.0s	68.00nm				5.4mb	LSA	45.92 328 P	56 34.50 -0.1	
T Vol= 1.55	Pig=86	ADE	32.50	146	iPc	54	42.00	-0.8	HYB	46.32 305 iPc	56 35.50 -2.0	
N 0.45	4 192		1.0s	372.00nm				6.1mb		1.0s	130.00nm 5.7mb	
P -2.00	2 102	CHG	32.98	327	ePc	54	47.00	-0.1		e	56 56.00 84kmX	
Best Double Couple:Mo=1.8*10**17			1.1s	25.00nm				5.0mb	LZH	46.58 345 iPc	56 39.83 0.4	
NP1:Strike=188 Dip=43 Slip= 84		CHTO	32.98	327	ePc	54	46.95	-0.1		1.5s	24.00nm 4.8mb	
NP2: 16 47 95		OZH	33.78	2	eP	54	55.00	1.2	Z 28s	0.71um	4.5mszX	
		TATO	34.04	7	P	54	56.70	0.6	E 18s	0.63um		
				pP	55	17.70	90km			epPd	57 01.35 89km	
KHK I 1.67 293 iPd 48 50.20 2.3		RMQ	34.59	124	iPc	55	01.40	0.4		sP	57 08.50	
MKS 4.41 31 iPd 49 29.00 4.0X				ipP	55	24.20	100km			PcP	58 12.50	
				iS	50	36.00			TIY	46.69 355 iPc	56 39.90 -0.2	
TRT 4.67 286 iPd 49 31.00 2.3		CMS	34.77	134	iPc	55	02.10	-0.3		0.8s	95.00nm 5.7mb	
			0.7s	19.00nm				5.1mb	Z 18s	0.61um	4.6msz	
KUPT 6.45 101 ePd 49 58.00 4.7X		GUMO	35.50	51	eP	55	07.60	-1.1		GUN	47.58 321 P	56 46.60 -1.0
		PJG	35.50	51	eP	55	08.00	-0.7		PKI	47.63 321 P	56 46.80 -1.2
AAI 12.16 65 eP 51 13.00 2.5		GUA	35.50	51	eP	55	08.20	-0.5		DMN	47.84 321 P	56 48.60 -1.0
			0.7s	169.86nm				6.1mb	DL2	47.85 5 Pc	56 48.80 -0.2	
MBL 12.35 168 iPd 51 06.40 -6.5X		GYA	36.70	344	iPc	55	20.00	1.2	KKN	47.86 321 P	56 48.40 -1.3	
MNI 12.89 37 ePd 51 27.50 7.4X			1.2s	210.00nm				5.9mb	GKN	48.42 321 P	56 52.40 -1.4	
KNA 13.15 122 eP 51 18.60 -4.9X			Z 20s	0.94um				4.6msz	BJI	48.81 359 iPc	56 56.24 -0.2	
			N 16s	0.82um						1.2s	160.00nm 5.8mb	
			E 16s	1.53um						epPd	57 18.09 90km	
TSM 13.24 3 ePc 51 36.30 11.7X				pP	55	42.00	93km			ePcP	58 19.67	
MTN 14.23 107 eP 51 32.80 -4.7X				PcP	57	40.40				eScP	02 07.50	
				S	00	54.00			DZM	49.01 111 iPc	56 59.10 0.7	
KKM 14.99 356 ePd 51 54.20 6.9X				ScP	01	18.60			MAT	49.44 22 iPc	56 59.70 -1.7	
1.0s 235.50nm 5.4mb				PcS	01	22.00				0.8s	28.36nm 5.3mb	
KGM 17.62 308 eP 52 23.50 3.4X				ScS	05	23.80				eS	03 52.00	
DAV 18.05 28 eP 52 29.00 3.6X		KMI	36.73	338	ePc	55	21.55	2.4	BTO	49.80 353 iPd	57 03.50 -0.7	
WARB 19.30 153 iPc 52 38.20 -1.1			1.0s	160.00nm				5.9mb		1.2s	200.00nm 6.0mb	
			Z 16s	1.20um				4.8mszX		pP	57 25.50 90km	
KLM 19.60 307 eP 52 44.00 1.5				epPd	55	42.49	87km		HHC	49.88 354 Pc	57 04.60 -0.2	
WR2 19.86 125 iPc 52 43.20 -2.0				iPcP	57	24.01				1.0s	110.00nm 5.8mb	
0.8s 251.10nm 5.6mb				eS	00	57.94			BKM	50.31 105 iP	57 10.40 2.1	
				eS	03	49.68			PVC	50.37 106 iPc	57 10.30 1.5	
MRWA 20.13 183 eP 52 46.20 -1.7		BWA	38.22	136	eP	55	33.30	1.9	POO	50.75 303 iPc	57 09.50 -2.2	
				i	55	57.70	106km		GTA	50.80 343 iPc	57 12.40 0.5	
IPM 21.01 309 ePd 52 57.20 0.3				ePcP	57	45.70				0.8s	130.00nm 6.0mb	
0.8s 93.80nm 5.2mb		TOD	38.24	142	iPc	55	32.90	1.4		Z 18s	0.64um 4.7msz	
ASPA 21.65 134 iPc 53 03.00 -0.2			0.8s	56.00nm				5.5mb		pP	57 33.00 83kmX	
0.6s 627.90nm 6.1mb				i	55	56.00	99km			PcP	58 27.80	
				i	57	45.50				ScP	02 15.00	
KLB 22.47 179 eP 53 10.00 -1.3		COO	38.83	128	iPc	55	35.90	-0.7		S	04 18.20	
			0.8s	69.00nm				5.6mb		ScS	06 50.00	
MUN 22.87 182 iPd 53 13.90 -1.2				i	55	59.40	101km		SNY	50.93 6 iPc	57 11.40 -1.2	
				i	57	47.00				1.2s	160.00nm 5.9mb	
SNG 23.04 314 eP 53 17.20 0.4				e	01	25.00			CN2	53.10 7 iPc	57 27.00 -1.8	
1.0s 110.00nm 5.2mb				e	04	15.00				1.0s	51.00nm 5.5mb	
				eS	57	05.90				Z 14s	0.58um 4.8mszX	
NWAO 23.80 180 ePc 53 23.05 -1.1		CAN	39.11	137	eP	55	39.30	0.4		epPd	57 48.00 84kmX	
Z 20s 0.90um 4.2msz				iPcP	57	47.90				PcP	58 35.00	
		CNB	39.36	137	iPd	55	41.60	0.7		ScP	02 24.00	
			1.0s	60.00nm				5.4mb		eS	04 48.00	
				i	56	04.80	99km		NDI	53.77 316 iPc	57 30.50 -3.5X	
OIS 24.50 120 iPc 53 30.90 -0.1				e	03	44.00				0.6s	66.67nm 5.8mb	
0.6s 145.00nm 5.6mb		WHN	39.42	356	Pc	55	43.00	1.7		eS	04 50.50	
			1.0s	81.00nm				5.5mb	MDJ	54.55 11 iPc	57 38.50 -0.9	
			Z 22s	0.75um				4.5msz		0.9s	270.00nm 6.3mb	
				ipP	56	06.20	99km		MCQ	56.22 152 eP	57 52.00 0.6	
				iPcP	57	48.30				0.9s	102.10nm 5.9mb	
RKG 25.44 180 eP 53 39.00 -0.6				ScP	01	28.00			MSZ	56.29 138 eP	57 52.40 0.3	
0.4s 57.00nm 5.4mb				S	01	38.00				e	58 17.10 101km	
				e	54	05.00	123kmX		BCZ	56.77 140 P	57 55.60 0.1	
				eS	58	12.00			TLC	57.25 139 P	57 58.40 -0.6	
BAG 25.48 8 eP 53 40.00 -0.4		SSE	40.06	5	Pc	55	48.00	1.4				

19d 08h																				
MHZ	57.33	138	P	57	58.60	-1.0	PRY	85.71	244	iPd	00	50.50	1.2	PMR	99.62	29	eP	01	52.30	-0.4
			e	58	23.40	101km			1.0s	250.00nm			6.2mb	FBA	100.24	26	Pdiff	01	55.00	-0.5
SBCZ	57.37	138	P	57	58.60	-1.2	BLF	86.53	241	iPc	00	53.90	0.6		0.8s		4.31nm			5.1mb
CSY	57.38	183	eP	57	59.20	-0.1			0.9s	230.77nm			6.2mb	TOA	101.02	28	ePdiff	02	00.20	1.1
	0.7s		87.10nm			5.9mb	NVL	86.55	199	iPd-	00	54.00	1.7	KLU	101.16	29	Pdiff	01	59.00	-0.8
			i	58	53.50	243kmX				e	00	57.00	9kmX	ZST	103.37	317	ePdiff	02	09.20	-0.6
BWZ	57.54	138	P	57	59.80	-1.0				e	01	08.00					e	06	23.20	
			e	58	52.70	235kmX				e	01	16.50					e	17	53.00	
WVZ	57.60	136	P	58	01.10	-0.2				e	01	30.00		HFS	104.47	330	ePdiff	02	13.10	-1.3
EWZ	57.83	136	P	58	02.80	-0.1				e	01	43.00			0.5s		1.60nm			5.3mb
			e	58	53.80	226kmX				e	01	46.50		BRG	105.28	320	e(PKP)	06	33.30	1.3
TUZ	57.90	139	P	58	02.90	-0.5				e	02	36.00		INK	105.42	21	ePdiff	02	19.00	0.6
HIA	58.07	2	ePc	58	03.37	-1.1				e	04	57.50		INK	105.42	21	ePKP	06	32.00	0.3
ODZ	58.23	138	P	58	04.80	-0.9				e	11	36.00		NB2	105.55	331	PKP	06	43.30	11.0X
THZ	58.71	134	P	58	09.20	0.0	DSI	87.75	302	iPc	00	58.90	0.1		1.0s		8.90nm			
			e	58	33.70	99km	HRI	87.80	304	iPc	00	59.60	0.4	GEC2	105.59	318	ePdiff	02	18.90	-1.0
WMO	59.00	335	ePc	58	10.17	-0.9	BHL	88.01	305	P	01	01.00	0.9		0.8s		1.19nm			5.0mb
	0.7s		170.00nm			6.3mb	ADI	88.18	304	iPc	01	01.40	0.5	GEC2	105.59	318	ePKPc	06	32.40	-0.4
Z	32s		1.00um			4.7MsZx	AKSR	88.26	294	iPc	01	05.00	1.6		0.7s		1.76nm			
			sP	58	44.00		AGRW	88.45	294	iPc	01	05.00	2.7	KHC	105.65	318	ePKP	06	31.00	-1.8
			PcP	58	58.50		HON	88.46	68	P	01	06.00	3.6X				e	06	57.00	
			PP	00	22.00		AKUR	88.53	294	iPc	01	04.00	1.3	CLL	105.84	321	iPKP	06	33.50	0.5
			e	02	31.44		ANMR	88.70	294	iPc	01	04.00	0.5	MBC	106.35	12	ePdiff	02	22.50	0.1
			S	06	07.00		KVT	89.23	312	eP	01	02.00	-3.8X		1.0s		6.00nm			5.6mb
			ScS	07	46.20		AFR	90.20	108	iP	01	14.40	3.8X	MBC	106.35	12	ePKP	06	34.00	0.7
MOZ	59.13	136	eP	58	11.80	-0.2			1.0s	150.00nm			6.1mb		1.0s		7.00nm			
DIW	59.17	132	P	58	11.70	-0.7	PAE	90.37	108	iP	01	15.10	3.7X	WTTA	107.10	317	iPKPc	06	35.40	-0.4
KHZ	59.36	134	P	58	12.80	-0.7			1.0s	45.00nm			5.6mb		0.6s		12.50nm			
			e	58	23.50	36kmX	PPT	90.39	108	iP	01	15.30	3.8X	BSF	110.29	318	ePKP	06	41.00	-0.7
			e	58	37.50				1.0s	75.00nm			5.8mb		0.8s		8.05nm			
TCW	59.54	133	eP	58	14.00	-0.9	KOT	90.43	300	eP	01	11.50	0.0	MEM	110.31	321	PKPc	06	37.00	-4.5X
RUZ	59.80	130	P	58	16.40	-0.3	PPN	90.53	108	iP	01	16.00	3.9X	HAU	110.56	318	ePKP	06	41.70	-0.4
MRW	59.86	133	P	58	15.90	-1.1			1.0s	70.00nm			5.8mb		0.8s		12.10nm			
			e	58	40.90	101km	TVO	90.66	108	iP	01	16.70	3.9X		Z	20s		0.15um		4.6MsZ
KIW	59.91	132	eP	58	15.70	-1.7	SNA	91.05	197	iPc	01	15.20	1.6	LMR	111.14	313	ePKP	06	42.40	-0.9
			e	58	41.30	104km			1.0s	182.00nm			6.3mb		0.8s		8.05nm			
WEL	59.92	133	P	58	16.60	-0.8	BBTK	91.44	310	eP	01	17.00	0.9	DOU	111.30	320	PKPc	06	44.00	0.6
			e	58	40.00	93km	CER	91.61	236	iPd	01	18.00	1.1		0.7s		8.90nm			
CAW	60.09	132	P	58	17.60	-1.0			1.0s	172.00nm			6.3mb	SNF	111.41	321	PKPc	06	44.50	0.9
MNG	60.27	132	P	58	19.00	-0.9	TUH	91.74	236	iPc	01	20.00	2.5	LBF	112.32	317	ePKP	06	45.20	-0.3
MTW	60.42	132	P	58	19.80	-1.1			0.9s	117.65nm			6.2mb		0.8s		8.05nm			
PGZ	60.85	132	eP	58	23.10	-0.7	QBN	91.97	325	iPc	01	17.50	-0.4	LOR	112.34	317	ePKP	06	45.30	-0.2
	0.7s		102.00nm			6.0mb			1.3s	*****nm			9.0mb X		0.8s		6.70nm			
			e	58	49.00	105km				e	01	51.00	129kmX		Z	20s		0.28um		4.8MsZ
			e	59	05.60					e	02	24.00		SMF	112.48	317	ePKP	06	45.30	-0.5
URZ	60.96	129	P	58	23.40	-1.1	PMO	92.41	106	iP	01	24.80	4.0X		1.0s		5.00nm			
			e	59	05.30	180kmX			1.0s	55.00nm			5.9mb	SSF	112.62	317	ePKP	06	46.00	0.0
HBZ	61.75	128	P	58	29.80	-0.1	VAH	92.62	106	iP	01	25.50	3.7X		0.8s		17.45nm			
	0.7s		218.00nm			6.3mb			1.0s	45.00nm			5.8mb	AVF	112.78	317	ePKP	06	45.90	-0.4
			e	58	53.30	93km	TPT	92.68	106	iP	01	26.00	4.0X		0.9s		9.00nm			
IRK	62.03	351	ePc	58	30.00	-1.5			1.0s	55.00nm			5.9mb	BGF	113.17	317	ePKP	06	47.20	0.1
			e	58	52.00	86kmX	RUV	92.87	106	iP	01	26.50	3.6X		0.8s		24.20nm			
			e	59	10.00				1.0s	30.00nm			5.6mb	MAF	113.42	317	ePKP	06	47.40	-0.2
MAW	68.62	200	iPc	59	14.00	0.5	SDN	93.01	35	eP	01	21.50	-1.2		0.8s		6.70nm			
	0.9s		153.00nm			5.9mb			0.6s	208.80nm			6.7mb	TCF	113.65	317	ePKP	06	47.20	-0.9
MAIO	70.43	314	iPc	59	24.00	-1.2	GPA	93.37	310	eP	01	23.90	-0.9		1.0s		12.00nm			
YAK	71.48	6	iPc	59	31.60	0.7	HRT	93.94	311	iP	01	26.90	-0.5	CAF	114.03	315	ePKP	06	49.20	0.3
SHI	73.04	305	eP	59	39.00	-2.0	IZI	94.01	310	eP	01	27.90	0.1		0.9s		16.40nm			
DHR	73.89	301	iPc	59	44.00	-1.8	IZM	95.45	308	iP	01	34.20	-0.3	LSF	114.12	317	ePKP	06	48.80	-0.2
			eS	09	00.00		WIN	95.76	246	iPd	01	36.50	0.1		0.8s		6.70nm			
RYD	76.45	298	iPc	59	59.00	-1.5			0.9s	46.22nm			6.0mb	RJF	114.33	316	ePKP	06	49.20	-0.2
MJMA	77.92	299	iPc	00	08.50	-0.1	SVW	96.47	29	eP	01	39.40	0.8		0.8s		13.45nm			
SMY	78.21	31	eP	00	10.30	0.8	TTA	96.50	27	P	01	38.80	0.1		Z	20s		0.15um		4.6MsZ
AFIF	79.29	297	iPc	00	17.00	0.8			0.9s	22.92nm			5.7mb	LDF	114.65	320	ePKP	06	49.60	-0.3
QASM	79.50	299	iPc	00	17.00	-0.2	ALN	96.67	310	ePc	01	38.85	-1.0		0.8s		10.75nm			
UQSK	80.44	298	iPc	00	23.00	0.7	VR1	96.70	315	ePd	01	39.50	-0.4	LPO	114.69	315	ePKP	06	50.60	0.5
TAB	80.78	311	eP	00	23.00	-0.8	PDB	97.03	31	P	01	40.00	-1.0		1.0s		20.00nm			
BHD	80.80	306	iPd	00	24.00	0.2	MLR	97.21	315	ePd	01	41.50	-0.9	FLN	114.84	320	ePKP	06	50.00	-0.2
			eS	10	41.00		BRW	97.21	19	eP	01	42.10	0.4		0.8s		18.80nm			
SPA	81.05	180	iPc	00	25.20	0.5	KDC	97.73	33	P	01	44.00	-0.2		Z	20s		0.22um		4.8MsZ
	1.1s		145.24nm			5.7mb	IMA	97.82	24	iP	01	45.50	0.8	YKA	114.94	24	ePKP	06	49.70	-0.3
JOZ	81.58	244	iPc	00	29.00	0.9			1.1s	36.80nm			5.8mb		0.6s		19.90nm			
	1.0s		30.00nm			5.1mb	OUR	98.18	310	ePd	01	45.70	-0.9	LFF	114.95	315	ePKP	06	51.20	0.6
MSL	82.67	309	iPd	00	33.00	-0.5	KAF	98.30	332	iP	01	45.10	-1.6		0.8s		24.20nm			
			eS	10	44.00				0.8s	19.90nm			5.7mb	MFF	115.17	317	ePKP	06	50.90	0.0
MTD	83.25	254	iPc	00	37.00	0.0	PAIG	98.38	309	ePc	01	46.22	-1.3		0.8s		14.80nm			
			i	01	02.00	94km	SRS	98.54	310	ePd	01	46.54	-1.7	GRR	115.18	319	ePKP	06	50.60	-0.3
BFT	83.58	245	iPc	00	41.50	2.8X	SOH	98.70	310	ePd	01	47.22	-1.8		1.0s		20.00nm			
	1.0s		210.00nm			6.0mb	NUR													

MIN	119.45	49	ePKP	06	59.61	0.1	HOOC	165.22	111	ePKPc	08	14.94	0.6	GRG	0.85	71	ePgc	57	14.40	-0.6
PCC	119.50	52	iPKPc	07	00.13	0.7	CLMC	165.44	110	ePKP	08	15.04	0.6	LIT	1.06	123	iPgc	57	18.53	0.1
ORV	119.72	50	iPKPc	07	00.06	0.2	BUGC	165.73	110	ePKPc	08	14.89	0.3	KNT	1.28	68	iPbc	57	22.08	-0.1
GCC	119.90	52	ePKPc	07	00.98	0.8	HOBC	166.00	108	ePKPc	08	14.65	-0.2				eSb	57	40.98	
NEW	120.07	39	PKP	07	00.50	0.2		S.D. = 1.1	on 270	of 310	obs.			IGT	1.38	214	ePbd	57	24.41	0.4
PRS	120.54	53	iPKPc	07	02.59	1.1							SOH	1.54	84	ePb	57	26.00	-0.2	
LLA	120.81	53	ePKP	07	03.20	1.2								S.D. = 0.8	on 7	of 7	obs.			
CMB	120.93	51	iPKPc	07	02.67	0.4														
PR1	121.13	53	iPKPc	07	04.37	1.6														
FR1	121.70	52	iPKPc	07	04.57	0.9														
SYP	122.02	55	iPKPd	07	06.00	1.5														
KIC	122.42	272	PKPc	07	05.64	0.0														
	0.8s	39.00nm																		
LIC	122.69	272	PKPc	07	05.96	-0.2														
	0.6s	37.00nm																		
TIC	122.73	272	PKPc	07	06.10	-0.2														
	0.8s	40.50nm																		
SES	122.74	35	ePKPc	07	05.30	0.0														
	0.9s	66.00nm																		
PAS	123.56	55	ePKP	07	08.00	0.6														
CLC	123.63	53	iPKPc	07	08.00	0.5														
MWC	123.64	55	ePKP	07	07.00	-0.8														
SBB	123.72	54	ePKP	07	08.00	0.2														
LRM	123.97	40	ePKPc	07	08.00	0.4														
RVR	124.24	55	ePKP	07	09.00	0.3														
GSC	124.38	53	ePKP	07	08.00	-1.1														
PLM	124.80	56	ePKP	07	09.00	-1.0														
FFC	124.83	26	ePKPc	07	09.40	0.3														
	0.8s	61.00nm																		
BAR	125.11	56	ePKP	07	12.00	1.6														
GLA	126.53	55	iPKPd	07	15.00	1.8														
MSU	126.97	48	PKP	07	15.30	1.1														
BW06	127.15	42	PKP	07	14.00	-0.4														
RSSD	130.13	38	PKP	07	19.50	-0.3														
GOL	131.34	44	PKP	07	22.80	0.3														
ANMO	132.54	50	PKP	07	26.10	1.3														
ALO	132.54	50	iPKPc	07	25.90	1.1														
		e	10	44.00																
		e	11	24.00																
LNV	136.50	170	ePKP	07	23.00	-9.0X														
PCH	136.98	171	ePKP	07	26.00	-7.1X														
ACO	137.08	44	iPKPd	07	25.60	-7.6X														
PEL	137.42	170	ePKP	07	24.00	-9.9X														
ROCH	137.53	170	ePKP	07	27.00	-7.4X														
MEO	138.44	46	iPKPd	07	39.30	3.6X														
SIO	139.53	44	ePKP	07	30.60	-7.0X														
TUL	139.79	43	ePKP	07	30.30	-7.8X														
	0.6s	16.30nm																		
		e	07	37.00																
		i	07	40.10																
VVO	140.14	44	ePKP	07	30.50	-8.2X														
MRX	141.44	70	iPKP	07	36.70	-4.7X														
FVM	141.92	36	PKP	07	35.00	-6.9X														
III	143.27	71	iPKP	07	43.80	-1.1														
CLE	143.67	24	iPKP	07	42.40	-2.3														
BNH	143.81	10	PKP	07	42.40	-2.5														
PPM	143.93	70	ePKP	07	45.30	-1.2														
EMM	144.18	6	PKP	07	43.60	-1.8														
VAO	144.60	206	ePKP	07	47.30	0.4														
		i	07	48.50																
		e	07	51.50																
		e	08	13.20																
IISM	145.11	70	iPKP	07	49.50	1.7														
LVVM	145.80	68	iPKP	07	50.00	1.1														
OXX	146.07	73	iPKP	07	52.50	2.8X														
TBR	146.45	16	PKP	07	50.00	0.6														
LVNJ	146.61	17	PKP	07	50.00	0.3														
ANT	146.65	167	ePKP	07	52.50	2.3														
PNJ	146.68	16	PKP	07	51.10	1.4														
GMTN	146.70	16	ePKP	07	50.80	1.0														
PPD	147.15	200	ePKP	07	44.60	-6.5X														
		e	07	51.50																
TKL	147.31	33	PKP	07	51.40	0.4														
BLA	147.72	27	PKP	07	51.50	-0.1														
CVL	147.90	24	PKP	07	51.30	-0.5														
CBN	148.12	22	ePKP	07	53.00	0.9														
BAO	151.44	211	ePKPc	07	59.00	1.0														
		e	08	05.00																
SOB1	151.63	231	ePKP	08	00.80	2.6														
		e	08	06.60																
		e	08	23.40																
ARE	153.28	161	ePKP	08	03.00	2.2														
NNA	154.92	146	iPKPd	08	05.00	2.3														
	0.8s	18.66nm																		
CUMC	163.02	117	iPKPc	08	14.79	2.1														
PURC	164.99	115	ePKPc	08	16.31	1.8														
ANCC	165.02	111	ePKPc	08	13.73	-0.2														

19d 10h

IGT 1.43 215 ePbc 46 18.44 0.9
 SOH 1.48 85 ePbd 46 18.04 -0.2
 SRS 1.71 75 ePbd 46 22.92 1.5
 S.D. = 1.2 on 8 of 8 obs.

OCT 19, 1991 10h 49m 46.51±0.49s
 39.603 N ± 5.0km 21.022 E ± 4.4km
 DEPTH = 5.0km (geophysicist)
 GREECE (364)
 MD 3.2 (ATH).

IGT 0.54 263 iPgc 49 55.73 -1.5
 KZN 0.91 39 ePgd 50 04.20 -0.2
 KEK 0.95 277 ePgd 50 05.50 0.4
 AGG 1.17 119 ePbd 50 07.80 -1.0
 FNA 1.21 13 ePbc 50 08.67 -0.9
 LIT 1.23 66 iPbd 50 09.96 0.0
 VLS 1.46 193 ePbd 50 14.30 0.7
 OHR 1.52 354 iPn 50 15.80 1.4
 GRG 1.72 38 iPbc 50 16.94 -0.3
 PAIG 2.07 80 ePnc 50 24.12 1.7
 VAY 2.08 34 ePn 50 22.00 -0.5
 KNT 2.12 42 ePnc 50 22.67 -0.3
 SOH 2.16 55 ePnd 50 24.12 0.4
 SKO 2.39 7 ePn 50 28.00 1.1
 OUR 2.39 71 ePnd 50 26.78 -0.1
 SRS 2.48 52 ePnd 50 28.14 -0.1
 VLI 3.25 152 ePnd 50 40.00 0.8
 YLV 6.48 79 iPn 51 23.30 -1.7
 HRT 6.73 77 iPn 51 28.50 0.0
 S.D. = 1.0 on 19 of 19 obs.

OCT 19, 1991 13h 43m 10.42±0.39s
 44.319 N ± 5.2km 9.860 E ± 3.4km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 2.7 (LDG).

BOB 0.54 327 Pc 43 20.40 -0.9
 BDI 0.59 116 P 43 22.50 0.1
 MME 0.62 101 P 43 22.60 -0.4
 PCP 0.97 284 P 43 29.20 0.3
 CKI 1.14 276 P 43 31.60 -0.1
 FIN 1.19 265 P 43 32.49 -0.2
 PGD 1.41 108 P 43 36.90 0.6
 ROB 1.43 270 P 43 36.18 -0.3
 IMI 1.48 255 P 43 36.18 -0.9
 SFI 1.49 105 P 43 38.50 1.3
 CRE 1.66 114 P 43 40.20 0.4
 ENR 1.75 268 P 43 40.67 -0.5
 SBF 1.81 256 Pn 43 41.80 -0.1
 STV 1.82 269 P 43 41.61 -0.5
 ORX 1.87 315 P 43 43.76 0.9
 PGF 1.88 200 Pn 43 42.40 -0.5
 BHB 1.93 287 P 43 44.15 0.6
 PZZ 1.99 276 P 43 44.07 -0.5
 RSP 2.03 295 P 43 45.51 0.3
 CTI 2.14 36 P 43 45.00 -1.8
 LSD 2.23 302 P 43 50.95 2.7
 RRL 2.28 286 P 43 51.76 2.9
 FRF 2.44 253 Pn 43 50.30 -0.7
 S.D. = 1.1 on 11 of 12 obs.

LPG 2.50 299 Pn 43 53.20 1.1
 LMR 2.62 249 Pn 43 52.50 -0.9
 LRG 2.67 252 Pn 43 53.80 -0.5
 BSF 4.11 330 Pn 44 14.20 -0.5
 HAU 4.42 328 Pn 44 18.60 -0.5
 CDF 4.47 337 Pn 44 18.60 -1.2
 AVF 5.20 301 Pn 44 29.60 -0.4
 S.D. = 1.1 on 30 of 30 obs.

OCT 19, 1991 14h 03m 22.67±0.86s
 35.172 N ± 7.6km 139.452 E ± 8.0km
 DEPTH = 33.0km (normal)
 4.6mb (1 obs.)
 NEAR S. COAST OF HONSHU, JAPAN (230)

CHJJ 0.95 337 iPd 03 38.10 -1.6
 KAKJ 1.19 29 P 03 43.40 0.4
 IIDJ 1.30 284 P 03 45.10 0.5
 MAT 1.70 324 iPc 03 50.50 0.0
 MTMJ 1.94 317 P 03 54.30 0.2
 NIJJ 2.10 350 P 03 55.80 -0.3
 TSRJ 2.86 278 P 04 09.70 2.8X
 YAMJ 3.03 9 eP 04 09.80 0.4
 WKYJ 3.32 254 P 04 14.10 0.5
 OFUJ 4.28 24 eP 04 27.70 0.5
 TKSJ 4.61 257 eP 04 31.90 0.0
 WR2 55.03 186 eP 12 52.60 -0.8
 S.D. = 0.7 on 11 of 12 obs.

? OCT 19, 1991 15h 23m 52.19±1.62s
 31.410 S ± 26.1km 68.264 W ± 38.1km
 DEPTH = 90.0km (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 0.19 294 iPc 24 05.40 -0.3
 CFA 0.20 174 iPc 24 05.80 0.1
 RTCB 0.46 260 iPd 24 07.00 0.0
 RTRS 1.61 320 iPd 24 19.80 0.1
 S.D. = 0.3 on 4 of 4 obs.

? OCT 19, 1991 15h 53m 36.21±5.68s
 37.082 N ± 38.5km 27.617 E ± 25.9km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

YER 0.53 84 iPg 53 47.00 -0.1
 CIN 0.64 36 iPd 53 49.00 0.0
 IZM 1.34 348 iPn 54 01.00 0.0
 KHL 1.95 50 ePn 54 10.00 0.2
 DST 2.64 17 ePn 54 19.50 -0.1
 S.D. = 0.2 on 5 of 5 obs.

* OCT 19, 1991 16h 26m 12.80±1.02s
 20.880 S ± 10.6km 68.536 W ± 9.7km
 DEPTH = 111.8 ± 14.7 km
 CHILE-BOLIVIA BORDER REGION (124)

ANT 3.31 211 iPc 27 03.80 0.1
 ARE 5.21 327 eP 27 29.00 -1.0
 SIV 8.59 57 iPc 28 16.20 0.2
 PPD 16.08 97 eP 29 54.60 0.9
 VAO 20.12 100 (P) 30 40.00 -0.1
 BAO 20.19 78 ePd 30 41.00 0.0
 ANCC 25.58 340 eP 31 35.60 2.3
 HOBG 26.16 343 eP 31 38.27 -0.4
 SOB1 29.05 71 eP 32 04.20 -0.5
 LIC 67.88 74 P 37 00.90 -0.7
 KIC 68.20 74 P 37 02.90 -0.7
 GKN 154.60 69 PKP 46 00.00 6.4X
 S.D. = 1.1 on 11 of 12 obs.

OCT 19, 1991 16h 45m 06.68±0.17s

20.992 S ± 3.9km 178.599 W ± 4.7km
 DEPTH = 603.7km (2 depth phases)
 5.1mb (44 obs.)
 FIJI ISLANDS REGION (181)

SVA 3.99 315 ePc 46 31.10 -1.6
 VUN 4.06 316 eP 46 31.00 -2.3
 KRO 4.12 332 iPc 46 31.80 -2.0
 TVI 4.27 341 iPc 46 33.60 -1.2
 SGE 4.72 315 iP 46 37.80 -0.4
 MBU 4.73 327 iPc 46 37.40 -0.9
 NDE 4.81 335 ePc 46 37.10 -1.8
 NDF 4.93 310 iPd 46 35.10 -4.5X
 UDU 4.99 344 iPc 46 38.90 -1.3
 YSA 5.60 319 ePc 46 44.10 -1.0
 DZM 13.96 263 iPc 48 05.20 0.5
 WCZ 16.12 201 P 48 29.50 4.1X
 KUZ 16.46 196 P 48 31.30 2.7X
 URZ 17.60 191 eP 48 37.60 -1.8
 NOZ 17.80 189 eP 48 41.90 0.6
 PAHZ 18.20 191 eP 48 45.10 0.1
 WHH 18.33 192 eP 48 45.60 -0.7
 MOZ 18.36 197 eP 48 48.60 2.1
 RUZ 18.81 195 P 48 50.10 -0.6
 WAHZ 19.14 192 P 48 52.70 -1.1
 PGZ 20.05 191 eP 49 00.90 -1.1
 MNG 20.20 193 P 49 01.30 -2.2
 CAW 20.76 194 eP 49 07.40 -1.2
 BLW 20.93 193 P 49 09.60 -0.4
 WDW 20.93 194 P 49 09.90 -1.2
 WEL 21.00 194 P 49 10.20 -0.5
 THZ 21.92 197 eP 49 18.50 -0.6
 KHZ 22.36 195 P 49 21.90 -1.1
 WVZ 23.76 200 eP 49 34.90 -0.6
 EWZ 24.12 199 P 49 37.90 -0.7
 MSCZ 25.99 200 eP 49 55.10 0.0
 LSCZ 26.03 200 eP 49 55.00 -0.5
 CMZ 26.09 200 eP 49 56.10 0.1
 BRS 26.84 251 iPc 50 04.00 1.3
 COO 28.16 244 iPd 50 17.40 3.2X
 RMQ 30.33 253 iPd 50 33.90 1.3
 CNB 31.49 236 eP 50 44.00 1.6
 CAN 31.77 236 eP 50 46.00 1.3
 BWA 31.97 238 eP 50 45.20 -1.2
 CMS 33.44 244 iPc 51 00.30 1.6
 QLP 34.38 253 iPd 51 07.20 0.7
 PMG 34.91 284 iPd 51 10.50 -0.5
 TOO 35.16 234 iPd 51 15.00 2.1
 LAT 36.21 288 eP 51 22.40 0.7
 MDG 37.93 289 eP 51 35.90 0.2
 QIS 39.00 263 iPd 51 44.00 -0.4
 ASPA 43.86 257 iPd 52 23.20 0.3
 WR2 43.96 263 iPc 52 22.80 -0.8
 WRA 43.98 263 P 52 21.00 -2.8
 MTN 48.61 271 eP 52 58.00 -1.0
 GUA 49.62 311 eP 53 05.50 -0.8
 PJG 49.69 311 eP 53 05.80 -1.0

KNA	50.05	267	iPd	53	09.20	-0.3		1.0s	16.75nm	4.8mb	ZST	150.06	339	ePKP	03	51.40	6.1X	
WARB	50.15	253	eP	53	09.70	-0.5	NVL	88.20	183 ePc	56	56.00	0.9		i	04	00.50		
	0.3s	12.00nm				4.9mb	IMA	88.82	10 iP	56	57.70	-0.4	ENN	150.07	354 iPKPc	03	51.10	5.9X
AAI	54.46	281	eP	53	39.60	-1.5		1.1s	25.00nm	5.0mb		1.0s	60.00nm					
COOL	54.52	246	iPd	53	40.80	-0.6	FBA	88.84	13 iPc	56	57.00	-1.0		ic	03	59.20		
	0.5s	14.00nm				4.5mb	KMI	89.07	297 Pd	57	02.00	1.8	MEM	150.22	354 PKPd	03	51.40	6.0X
KLB	57.34	245	iPd	54	00.40	-0.3		1.4s	90.00nm	5.5mb	KHC	150.29	344 PKP	03	45.40	-0.3		
NWAO	57.65	244	eP	54	03.00	0.2	BDT	89.24	289 eP	57	02.60	1.8		1.0s	26.80nm			
RKG	57.69	242	eP	54	03.00	-0.1		1.0s	75.20nm	5.6mb			i	03	51.80			
BAL	58.35	246	iPd	54	07.00	-0.6	HHC	89.30	315 eP	57	01.60	0.9		i	04	00.80		
	0.6s	45.00nm				4.9mb		1.0s	20.00nm	5.0mb	GRF	150.32	347 iPKPc	03	45.90	0.2		
MUN	58.61	245	iPc	54	09.80	0.5	LRM	89.45	40 ePd	57	01.40	-0.1		e	03	51.90		
	0.7s	125.00nm				5.3mb	CHG	89.88	290 iPd	57	05.90	2.1		e	04	01.60		
MRWA	59.14	248	iPd	54	12.50	-0.3		1.0s	44.50nm	5.3mb	BZS	150.36	331 ePKP	03	44.00	-1.8		
	0.6s	22.00nm				4.6mb	BTO	90.21	314 P	57	06.00	1.0		e	23	29.50		
PCI	63.23	280	ePd	54	40.50	1.0	CD2	90.58	303 eP	57	08.00	1.2	SNF	150.45	356 PKP	03	51.60	5.8X
SPA	69.14	180	iPc	55	17.00	1.8	GOL	91.06	48 P	57	09.20	0.1	GEC2	150.52	343 ePKPc	03	44.30	-1.8
	0.9s	38.64nm				4.9mb		0.8s	4.46nm	4.5mb		0.8s	1.09nm					
		i				57	19.60	605km				DOU	150.85	356 PKPc	03	52.90	6.5X	
MAT	70.27	324	iPd	55	20.70	-1.4	GLD	91.19	48 P	57	10.00	0.4	UZD	150.87	335 e(PKP)	03	53.00	6.4X
	1.0s	25.00nm				4.7mb		0.7s	32.00nm	5.5mb		WLF	151.14	354 iPKPd	03	53.97	7.1X	
OFUJ	70.38	328	eP	55	21.50	-1.1	SES	92.60	36 eP	57	16.00	0.4		i	04	03.89		
YAMJ	70.51	326	eP	55	22.50	-0.9	LZH	92.62	308 eP	57	16.50	0.3	ALN	151.18	319 ePKPd	03	52.73	5.5X
SSE	77.57	310	Pd	56	03.00	0.0		1.5s	37.00nm	5.2mb		FUR	151.75	346 ePKP	03	54.70	6.9X	
	1.0s	20.00nm				4.5mb	RSSD	93.90	44 P	57	20.50	-1.5		i	04	06.80		
PRS	78.56	44	ePd	56	08.76	0.7		0.8s	5.41nm	4.8mb		BHG	151.77	343 iPKPc	03	54.80	6.9X	
GCC	78.58	43	ePd	56	08.75	0.6	INK	94.89	15 eP	57	24.00	-1.6	CDF	152.24	352 ePKP	03	55.30	6.7X
BCH	78.73	45	P	56	08.30	-0.8	GTA	96.85	309 P	57	36.00	0.7		0.8s	16.10nm			
PR1	78.91	44	ePd	56	10.56	0.5	GKN	105.29	294 PKP	02	21.40	-2.3	FLN	152.25	3 ePKP	03	55.10	6.6X
ARN	79.06	43	P	56	11.50	0.8	MA10	127.51	300 ePKP	03	05.00	-0.8		1.0s	34.00nm			
GZH	79.47	300	Pd	56	14.00	0.9	SOB1	128.74	122 ePKP	03	08.60	-0.1	LDF	152.43	2 ePKP	03	55.80	7.1X
MWC	79.55	47	eP	56	14.00	0.5		e	05	34.20			1.0s	20.00nm				
NJ2	79.76	310	iPc	56	15.20	0.8	KAF	135.47	344 ePKP	03	19.50	-0.5	SRS	152.50	322 ePKPd	03	55.14	6.0X
	1.2s	78.00nm				5.0mb		0.4s	4.10nm			WTTA	152.51	345 iPKPc	03	48.90	-0.3	
RVR	79.89	48	eP	56	15.00	-0.1	OBN	136.91	331 ePKPd	03	22.00	-0.9		0.9s	43.00nm			
PLM	79.89	48	eP	56	15.00	-0.3		1.0s	*****nm				i	03	56.40			
SBB	79.97	47	eP	56	15.00	-0.5		e	06	00.00			i	04	10.00			
PEC	79.98	48	P	56	15.90	0.3	NUR	137.25	343 iPKP	03	22.40	-1.0	GRR	152.61	3 ePKP	03	56.40	7.4X
FRI	80.03	44	ePd	56	15.77	0.1		1.0s	37.20nm				1.0s	28.00nm				
CMB	80.20	43	iPd	56	16.95	0.3	NB2	139.40	353 PKP	03	17.40	-9.9X	HAU	152.76	353 ePKP	03	56.60	7.3X
WDC	80.41	40	ePd	56	18.13	0.5		0.9s	9.20nm				1.0s	12.00nm				
ORV	80.41	41	ePd	56	18.01	0.4	HFS	139.93	350 ePKP	03	19.40	-8.8X	OUR	152.77	320 iPKPd	03	55.90	6.4X
MDJ	80.60	325	iPd	56	18.70	0.2		0.4s	5.80nm			BSF	152.87	352 ePKP	03	56.50	6.9X	
	1.0s	88.00nm				5.2mb	MUD	144.11	353 iPKPd	03	35.00	-0.5		1.0s	16.00nm			
CLC	80.75	46	eP	56	20.00	0.4		1.1s	169.00nm			VAY	152.95	323 ePKP	03	56.40	6.7X	
MIN	80.83	40	eP	56	16.19	-3.8X	BSD	144.44	347 iPKPd	03	25.00	-11.2X		i	04	12.00		
GSC	81.00	47	eP	56	20.00	-0.9		1.0s	10.00nm			LPF	152.95	4 ePKP	03	56.90	7.4X	
GLA	81.17	50	eP	56	22.00	0.3	EKA	145.54	5 PKPc	03	38.80	0.8		1.0s	42.00nm			
LBFM	81.27	40	P	56	22.80	0.6		1.2s	57.60nm			LOR	153.71	356 ePKP	03	58.90	8.3X	
BONR	81.50	44	P	56	25.60	2.0	KAS	145.95	314 iPKPd	03	41.80	2.6		1.2s	22.30nm			
KVN	82.25	43	P	56	27.50	0.3	DCN	147.02	10 ePKP	03	43.00	2.6	SSF	153.94	357 ePKP	03	59.40	8.6X
TNP	82.27	44	P	56	27.70	0.4	BHL	147.15	300 PKP	03	43.00	1.6		1.0s	8.00nm			
WHN	82.28	307	Pc	56	28.50	1.3	KRA	147.49	338 iPKPd	03	43.20	1.9	FNA	153.98	324 ePKPc	03	59.26	8.1X
	1.0s	22.00nm				4.6mb		1.1s	50.00nm			LBF	153.99	356 ePKP	03	59.40	8.4X	
CN2	82.35	323	iPd	56	26.30	-1.0		i	03	48.20			1.0s	9.00nm				
	1.0s	45.00nm				5.0mb	VRI	147.67	326 ePKPd	03	45.00	3.2X	MFF	154.42	2 ePKP	04	00.20	8.7X
BMW	83.71	35	P	56	34.40	0.3	ADI	147.70	299 iPKPd	03	44.90	2.7		0.8s	8.05nm			
RSO	83.84	13	P	56	33.10	-1.5	WIT	147.98	354 ePKP	03	47.50	5.5X	TCF	154.76	359 ePKP	04	00.90	8.9X
SNG	84.01	280	eP	56	38.20	2.0	KSP	147.99	342 ePKP	03	40.60	-1.5		1.0s	10.00nm			
	1.0s	96.00nm				5.4mb		id	03	45.90		LSF	154.81	360 ePKP	04	01.00	8.9X	
SHW	84.07	36	P	56	37.10	1.1		e	03	50.80			1.2s	17.85nm				
GMW	84.62	34	P	56	38.80	0.3		e	06	03.40		LIC	164.05	156 PKP	04	03.34	0.2	
TTA	85.52	10	eP	56	42.40	-0.2	ZNT	148.04	298 iPKPd	03	46.10	3.3X		0.8s	7.00nm			
PMR	85.62	14	eP	56	42.20	-0.7	SPC	148.10	336 ePKP	03	43.70	1.1	KIC	164.28	157 PKP	04	03.52	0.2
	1.2s	59.10nm				5.2mb		i	03	47.90		TIC	164.44	156 PKP	04	03.62	0.1	
BJI	85.85	316	ePd	56	45.50	1.0	MLR	148.33	326 ePKPd	03	46.50	3.5X		1.0s	13.50nm			
	1.8s	57.00nm				5.0mb	CLL	148.41	346 iPKP	03	42.80	0.1		S.D. = 1.1 on 157 of 203 obs.				
MSU	85.85	46	P	56	44.80	-0.1		1.6s	31.00nm				%	OCT	19, 1991	17h	10m	41.92± 2.78s
GYA	86.41	300	iPc	56	49.00	1.3		i	03	46.90				16.841 N	±14.6km			61.909 W ±11.2km
	1.2s	23.00nm				4.8mb		i	03	51.70				DEPTH =	77.1 ± 28.7 km			
TOA	86.75	15	eP	56	47.90	-0.6	BRG	148.59	345 iPKPc	03	43.20	0.2		LEEWARD ISLANDS				(92)
NNT	86.84	285	iPd	56	52.00	2.3		id	03	45.60								
HVU	87.14	43	P	56	50.90	0.0		ic	03	52.80			BPA	0.21	14 iPd	10	52.23	-1.4
TIY	87.19	312	Pd	56	52.00	1.0	MBH	148.60	293 iPKPd	03	47.50	3.7X		S	11	03.00		
DPW	87.28	36	P	56	51.30	0.1	WTS	148.77	354 iPKPd	03	48.00	4.8X	MGH	0.32	248 ePc	10	53.10	-1.1
RND	87.30	13	P	56	49.60	-1.4		1.0s	109.00nm				SEG	0.58	138 ePc	10	56.08	-0.2
PNT	87.37	34	ePd	56	52.00	0.4		e	03	58.00			NEV	0.70	295 eP	10	56.60	-0.9
	1.0s	36.00nm				5.1mb	GPA	148.77	315 iPKP	03	48.00	4.3X	PAG	0.84	165 ePc	10	58.57	-0.6
HPI	87.95	41	P	56	55.20	0.5	PRU	149.25	343 iPKPd	03	49.00	5.0X		S	11	15.00		
PTI	87.97	42	P	56	55.30	0.6		1.1s	35.10nm				DOG	0.85	161 ePc	10	58.68	-0.6
XAN	87.98	308	Pd	56	55.50	0.7		e	03	56.10			SFG	0.90	130 eP	10	59.08	-0.7
NEW	88.10	36	P	56	54.00	-1.0	PSZ	149.27	335 iPKPc	03	49.00	4.7X	DEG	0.97	123 ePc	10	59.30	-1.4
	1.0s	20.00nm				4.9mb		i	03	49.30		MGG	1.08	148 ePc	11	01.33	-0.7	
ALO	88.15	51	eP	56	55.00	-0.7	MOX	149.33	347 iPKP	03	44.00	-0.2		S	11	18.80		
	1.2s	25.39nm				4.9mb	DEV	149.56	330 ePKPd	03	40.00	-4.6X	BBL	1				

19d 17h

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

OCT 19, 1991 17h 22m 15.57 ± 0.29s
 40.642 N ± 3.6km 21.359 E ± 2.7km
 DEPTH = 11.0 ± 2.5 km

GREECE (364)
 ML 3.8 (ATH), 3.4 (TTG), MD 3.4 (THE).

FNA	0.14	5	iPgd	22	19.37	0.3
			eSg	22	22.16	
KZN	0.46	137	iPgc	22	25.00	0.0
OHR	0.63	318	iPgc	22	27.20	-1.0
			iSg	22	37.40	
			Lg	22	38.20	
GRG	0.85	68	ePgc	22	31.82	-0.1
			eSg	22	42.14	
LIT	1.02	122	ePgd	22	35.24	0.5
			eSg	22	48.62	
VAY	1.14	53	iPn	22	37.00	0.2
			iSn	22	52.30	
			iS	22	55.00	
			Lg	22	55.40	
THE	1.22	90	ePgd	22	37.89	-0.3
			eSg	22	54.01	
KNT	1.28	66	ePbc	22	39.12	-0.1
			eSb	22	55.12	
SKO	1.33	3	iPn	22	39.60	-0.4
			i	22	41.30	
			iSg	22	58.60	
			Lg	23	02.60	
IGT	1.36	216	ePbc	22	42.52	2.1
			eSb	23	02.52	
KEK	1.51	233	ePb	22	45.80	3.2X
SOH	1.53	83	iPbc	22	43.01	0.2
			eSb	23	03.68	
SRS	1.76	74	ePbd	22	45.73	-0.4
			eSb	23	08.72	
AGG	1.78	155	ePbc	22	47.32	0.8
			eSb	23	10.76	
PAIG	1.91	111	ePbc	22	48.12	-0.3
			eSb	23	13.78	
OUR	2.02	98	iPbd	22	49.69	-0.3
			eSb	23	15.22	
ULC	2.07	310	iPnd	22	51.22	0.6
			iSg	23	18.64	
PVY	2.21	332	iPnd	22	58.02	5.2X
			iSn	23	30.92	
TTG	2.38	319	iPnc	22	56.88	1.8
			iSn	23	29.38	
IVA	2.48	334	iPnd	23	01.52	4.9X
			iSn	23	37.68	
BDV	2.51	312	iPnd	22	56.92	0.0
			iSn	23	28.58	
VLS	2.53	194	ePb	23	03.30	6.0X
NKY	2.80	322	iPnd	23	02.72	1.6
			iSn	23	39.42	
HCY	2.80	311	iPnc	23	00.18	-1.0
			iSn	23	35.20	
PLE	3.06	332	iPnd	23	08.46	3.7X
			iSn	23	50.02	
BRY	3.09	318	iPnd	23	05.56	0.3
			iSn	23	44.12	
BRT	3.16	276	P	23	05.80	-0.5
			eSn	23	42.00	
RDO	3.21	80	ePn	23	09.00	2.2
ATH	3.23	145	ePn	23	07.50	0.3
ALN	3.57	84	ePnd	23	11.08	-0.9
ROI	3.83	255	P	23	14.60	-1.1
			eSn	24	09.40	
VLI	4.11	162	ePn	23	19.20	-0.4
MMN	4.18	261	P	23	21.40	0.8
BEO	4.23	351	ePn	23	22.00	0.7
MGR	4.46	265	P	23	24.30	-0.3
			eSn	24	12.00	
SOI	4.85	240	P	23	29.00	-1.1
			eSn	24	19.90	
SDI	5.79	283	P	23	42.90	-0.6
S.D. = 0.9 on 32 of 37 obs.						
% OCT 19, 1991 18h 48m 34.99 ± 0.70s						
39.891 N ± 12.5km 32.388 E ± 5.2km						
DEPTH = 10.0km (geophysicist)						
TURKEY (366)						
BBTK	0.29	99	eP	48	40.00	-1.1
GPA	1.64	285	iPn	49	04.20	0.2

KAS	1.81	35	ePg	49	08.00	1.5
			iSg	49	35.00	
HRT	2.28	295	iPn	49	12.90	-0.4
IZI	2.28	282	ePn	49	13.30	0.0
YLV	2.40	287	ePn	49	14.00	-1.1
KHL	2.72	236	ePn	49	21.40	1.7
ITU	2.84	296	ePn	49	30.00	8.8X
			iSg	50	00.00	
DST	2.91	266	ePn	49	22.00	-0.3
KVT	3.03	66	eP	49	24.00	0.1
EDC	3.50	279	eP	49	30.00	-0.5
S.D. = 1.1 on 10 of 11 obs.						

? OCT 19, 1991 20h 16m 35.30 ± 0.69s
 35.693 N ± 54.8km 54.965 E ± 8.0km
 DEPTH = 30.0 ± 10.7 km

NORTHERN IRAN (348)
 ML 4.0 (TEH). Felt at Gorgan.

TEH	2.91	272	eP	17	22.00	1.2
IR4	3.35	263	eP	17	27.50	0.5
IR1	3.50	267	eP	17	28.70	-0.4
IR7	3.55	271	eP	17	29.00	-0.8
IR5	3.61	264	eP	17	30.00	-0.7
MAIO	3.72	79	ePn	17	32.00	-0.2
	0.8s	21.96nm	eSn	18	26.00	
GKN	26.27	99	P	22	10.40	0.4
DMN	26.82	99	P	22	15.60	0.5
KKN	26.88	98	P	22	15.60	-0.1
PKI	27.08	99	P	22	16.80	-0.8
GUN	27.31	98	P	22	20.00	0.2
CHTO	42.18	102 (P)	P	24	27.00	0.0
S.D. = 0.7 on 12 of 12 obs.						

OCT 19, 1991 20h 18m 59.50 ± 0.70s
 38.316 N ± 6.9km 8.059 W ± 7.6km
 DEPTH = 10.0km (geophysicist)

PORTUGAL (376)
 MG 2.8 (LIS).

LIS	0.94	295	iPd	19	17.60	0.1
			iS	19	30.20	
MTH	1.06	303	iPc	19	19.00	-0.5
			iS	19	34.00	
FIG	1.23	171	eP	19	22.40	0.1
			iS	19	38.00	
EVAL	1.27	125	iP	19	22.30	-0.8
			eS	19	39.20	
FAR	1.30	177	eP	19	24.00	0.5
			eS	19	40.00	
MTE	2.12	11	eP	19	45.50	10.0X
			iS	20	00.50	
EPLA	2.33	41	iP	19	39.00	0.5
			eS	19	46.00	
TOL	3.49	62	e(Pn)	19	33.00	-21.9X
			iSg	20	52.50	
S.D. = 0.7 on 6 of 8 obs.						

OCT 19, 1991 21h 23m 14.30 ± 0.12s
 30.780 N ± 3.3km 78.774 E ± 2.2km
 DEPTH = 10.3km (30 depth phases)
 6.5mb (109 obs.) 7.0Msz (28 obs.)

NORTHERN INDIA (308)

Ms 7.0 (BRK). Mo=6.0*10**18 Nm (PPT). At least 2,000 people killed, more than 1,800 injured and 18,000 buildings destroyed in the Chomoli-Uttorkashi oreo. Some damage occurred at Chandigarh and New Delhi. Felt in northern India, western Nepal and northeastern Pakistan. Landslides occurred in the epicentral oreo. A 30-meter deep crack was noted in the Uttorkashi oreo. Two events about 1.6 seconds apart observed on broadband displacement seismograms.

FAULT PLANE SOLUTION: P-Waves
 NP1: Strike=116 Dip=85 Slip= 90
 NP2: 296 5 90
 Principal Axes:
 T P1g=50 Azm= 26
 P 40 206
 Comment: The focal mechanism is

poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.

RADIATED ENERGY
 No. of sta: 7 Focal mech. M
 Energy 3.2±0.6*10**14 Nm

MOMENT TENSOR SOLUTION

Dep 19 No. of sta: 8
 Moment Tensor; Scale 10**19 Nm
 Mrr= 0.24 Mtt= 0.63
 Mff=-0.87 Mrt= 1.31
 Mrf=-0.52 Mtf= 0.81

Principal axes:
 T Val= 1.79 P1g=38 Azm=351
 N 0.03 37 118
 P -1.81 30 235

Best Double Couple: Mo=1.8*10**19
 NP1: Strike=18 Dip=38 Slip= 172
 NP2: 115 85 52

CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 24S, 71C M.W.: 16S, 24C

Centroid Location:
 Origin Time 21:23:21.6 0.2
 Lat 30.22N 0.02 Lon 78.24E 0.02
 Dep 15.0 BDY Half-duration 9.0

Moment Tensor; Scale 10**19 Nm
 Mrr= 0.68 0.01 Mtt=-0.54 0.01
 Mff=-0.14 0.01 Mrt= 1.49 0.04
 Mrf=-0.57 0.04 Mtf= 0.44 0.01

Principal Axes:
 T Val= 1.71 P1g=57 Azm= 14
 N 0.11 6 113
 P -1.82 32 207

Best Double Couple: Mo=1.8*10**19
 NP1: Strike=317 Dip=14 Slip= 115
 NP2: 112 78 84

NDI	2.49	213	iPnd	23	59.00	3.5X
			iSn	24	31.50	
GKN	5.82	117	P	24	43.40	0.6
DMN	6.37	118	P	24	50.40	-0.4
KKN	6.42	116	P	24	51.20	-0.1
PKI	6.62	117	P	24	54.00	-0.4
GUN	6.83	113	P	24	57.40	0.2
KSH	8.95	346	iPc	25	28.00	1.3
N 10s 467.00um						
			S	27	10.00	
QUE	10.22	270	iPd-	25	44.00	-0.2
			e(S)	27	48.00	
LSA	10.76	93	iPc	25	50.60	-1.2
1.2s 1000.00nm 7.1mb						
N 15s 584.00um						
			pP	25	59.80	
DSH	11.31	316	eP	25	58.00	-0.9
			eS	27	57.00	
FRU	12.48	346	iPc	26	14.00	-0.7
			iS	28	18.00	
TLG	12.51	355	iPc	26	15.30	0.1
			iS	28	59.50	
AAA	12.55	354	iPc	26	13.00	-2.7
			eS	28	36.00	
SHL	12.67	111	eP	26	12.60	-4.9X
			eS	28	25.20	
POO	12.99	201	iPd	26	17.20	-4.3X
2.5s 4444.44nm 7.2mb						
			iS	28	30.00	
SAM	13.09	316	iPc	26	20.00	-2.8
			iS	28	39.00	
HYB	13.30	181	iPd	26	20.30	-5.5X
			iS	28	40.00	
			e	29	16.00	
WMO	14.81	26	ePc	26	44.75	-0.8
N 14s 599.00um						
			ec	26	46.66	
MAIO	16.98	294	iPc	27	13.00	-0.5
			eS	30	08.00	
GTA	19.22	58	iPc	27	39.60	-1.6
1.0s 560.00nm 5.8mb						
Z 15s 145.00um 4.9Msz						
E 15s 98.60um						
			pP	27	50.00	43kmX
			S	31	08.00	
CD2	21.44	83	eP	28	03.80	-1.0
1.4s 3340.00nm 6.5mb						
Z 16s 91.90um 6.3MszX						

N 15s 335.00um	31 57.00	MSL 30.09 290 eS 34 10.00	1.0s 860.00nm 6.5mb
LZH 21.56 69 ePc 28 05.97 0.0		ePd 29 25.50 -0.5	Z 20s 84.00um 6.5msz
2.0s 7400.00nm	6.7mb	i 29 30.00 16km	N 13s 78.10um
E 16s 316.00um		ePP 30 19.00	E 17s 188.00um
ec 28 07.87 7km		ePPP 30 37.50	pP 30 38.00 34kmX
PP 28 12.00		eS 34 23.00	iS 36 14.00
sP 28 15.00		eSS 35 25.00	KAS 37.51 299 iPc 30 30.80 0.7
eS 32 04.16		eSSS 35 55.00	SIM 37.51 305 iPc 30 32.00 2.1
sS 32 06.00		e 36 48.40	iS 36 17.00
SS 32 35.00		eLO 38 54.50	PRNI 37.52 281 eP 30 30.80 0.6
i 35 12.87		eLR 40 04.00	RMN 37.80 281 eP 30 33.00 0.4
CHG 21.80 118 iPc 28 07.50 -0.9		P 29 28.00 -1.0	LFK 37.95 289 iP 30 30.90 -2.9X
eS 31 56.00		S 34 22.00	TATO 38.03 88 ePc 30 34.43 0.0
KMI 21.89 99 ePc 28 08.71 -0.8		WHN 30.53 81 iPc 29 30.50 0.6	ic 30 36.34 7km
Z 18s 97.40um	6.3msz	1.5s 2060.00nm	id 30 43.79
E 14s 60.80um		Z 24s 134.00um	ePP 32 07.15
ec 28 10.61 7km		N 16s 283.00um	ANTO 38.24 297 ePc 30 36.54 0.3
PP 28 14.00		E 12s 88.90um	ic 30 37.86 5km
iS 32 07.68		iS 34 30.00	ed 30 42.91
i 35 22.60		eP 29 35.90 0.5	ePP 32 04.30
SHI 22.70 274 eP 28 18.00 0.5		eS 34 39.00	BBTK 38.27 297 iPc+ 30 37.00 0.5
BDT 22.82 122 eP 28 18.00 -0.4		ePd 29 36.50 0.0	OBN 38.44 322 iPc+ 30 38.70 1.2
IR4 23.76 288 iPc 28 30.00 2.3		eS 34 40.00	1.2s 2400.00nm 6.8mb
IR1 23.94 289 iPc 28 31.60 2.1		BJI 31.66 63 ePc 29 40.51 0.7	Z 10s 24.00um 6.3mszX
IR5 24.02 288 eP 28 32.20 2.0		2.0s 2750.00nm	N 10s 8.40um
IR7 24.02 289 iPc 28 32.70 2.5		E 16s 189.00um	E 10s 18.00um
NST 24.66 123 iPc 28 40.00 3.7X		ec 29 42.17 6km	i 31 07.00 126kmX
LOE 24.76 117 eP 28 35.00 -2.4		ed 29 49.04	iPP 32 05.00
e 28 40.00 18km		ePP 30 45.13	iPPP 32 35.00
e 28 46.50		eS 34 54.07	ePcP 32 57.00
GYA 24.83 93 iPc 28 38.40 0.3		i 39 24.69	iS 36 28.00
1.2s 850.00nm	6.3mb	GZH 31.66 96 iPc 29 39.30 -0.7	eSS 39 12.00
Z 20s 84.40um	6.2msz	2.0s 700.00nm	eSSS 39 42.00
N 12s 86.30um		Z 17s 59.20um	iScS 40 32.00
E 12s 25.20um		N 14s 102.00um	CN2 38.85 57 iPc 30 41.40 0.2
S 32 58.00		E 13s 32.80um	1.0s 570.00nm 6.2mb
KBR 25.35 127 eP 28 55.00 12.0X		iS 34 47.00	Z 14s 90.40um 6.7mszX
DHR 25.51 267 iPd 28 48.00 3.5X		ePd 29 48.00 3.3X	N 12s 70.00um
iS 33 10.00		TIA 32.29 70 Pc 29 45.40 0.0	E 12s 66.00um
XAN 25.61 75 iPc 28 44.80 -0.6		2.0s 1730.00nm	ePP 32 09.00
0.6s 1500.00nm	6.9mb	N 13s 227.00um	BCK 40.09 293 eP 30 51.50 -0.2
E 15s 212.00um		E 13s 282.00um	GPA 40.14 297 iP 30 51.50 -0.5
pP 28 56.00 43kmX		sP 29 56.00	KOT 40.29 281 eP 30 58.50 5.3X
S 33 11.00		S 34 57.00	ALT 40.35 295 iP 30 55.00 1.2
sS 33 19.00		eP 29 48.30 -0.4	HRT 40.61 298 iP 30 56.40 0.6
SS 34 14.00		eS 35 01.60	BAG 40.65 101 ePc+ 30 56.00 -0.5
NNT 26.50 129 eP 28 53.80 0.1		IPM 33.44 137 ePc 29 55.10 -0.5	1.5s 222.22nm 5.7mb
BTO 27.08 60 P 29 00.00 1.0		0.6s 35.50nm	eS 37 04.00
1.6s 1780.00nm	6.5mb	e 30 01.00 20km	i 40 16.00
E 13s 79.20um		NJ2 34.09 77 Pc 30 00.60 -0.5	HLW 40.71 281 ePd 30 59.00 2.3
sP 29 12.50		2.0s 2170.00nm	ePP 32 40.00
PP 29 49.00		Z 20s 53.90um	ePPP 33 24.00
PcP 32 16.00		N 14s 103.00um	eS 36 48.00
iS 33 39.00		E 13s 24.90um	eSS 39 24.00
TAB 27.64 294 iPc 29 05.00 0.9		sP 30 11.00	IZI 40.77 297 iP 30 57.80 0.6
HHC 28.28 60 Pc 29 10.40 0.5		iS 35 25.00	GBZT 40.78 298 eP 31 01.40 4.2X
2.0s 1540.00nm	6.4mb	KLM 34.99 137 eP 30 08.50 -0.4	YLV 40.84 298 iP 30 58.00 0.2
Z 14s 293.00um	7.0mszX	OZH 35.54 89 Pc 30 13.00 -0.6	KHL 40.86 294 iP 30 57.90 -0.1
E 14s 134.00um		1.5s 800.00nm	ASW 41.05 272 iPd 31 04.00 4.4X
pP 29 18.50 28kmX		Z 16s 71.20um	eS 37 24.00
S 33 58.00		N 14s 35.70um	ISK 41.06 299 iP 31 00.40 0.9
i 29 11.80 0.3		E 14s 32.10um	AKSR 41.09 272 eP 31 03.00 3.2X
e 29 21.00 32kmX		S 35 46.00	1.0s *****nm 8.4mbX
e 29 34.00		KVT 35.78 299 iP 30 16.40 0.9	ITU 41.09 299 iPc 31 00.00 0.3
ePP 30 12.00		DL2 35.83 65 eP 30 16.00 0.2	AKUR 41.21 272 eP 31 04.00 3.2X
ePPP 30 56.00		N 18s 183.00um	DST 41.46 296 iP 31 03.40 0.5
e 32 55.00		pP 30 26.00 34kmX	ANMR 41.48 272 eP 31 05.00 1.9
e 33 24.00		ePc 30 17.23 1.2	AWKL 41.65 271 eP 31 07.00 2.5
iS 34 02.00		ic 30 18.96 6km	CFR 41.74 305 eP 31 05.00 0.0
eSS 35 22.00		ec 30 20.87	TLB 41.81 304 ePd 31 07.50 2.0
e 36 52.00		id 30 25.50	MDJ 41.86 56 iPc 31 06.50 0.5
TIY 28.56 67 Pc 29 11.70 -0.7		ePP 31 31.05	1.7s 2770.00nm 6.7mb
Z 14s 88.30um	6.5mszX	iS 35 55.77	Z 15s 56.80um 6.6mszX
E 12s 62.80um		e 36 04.05	N 12s 31.10um
S 33 55.00		eSS 38 36.49	E 12s 68.80um
RYD 29.03 266 iPd 29 23.00 6.3X		SSE 36.22 78 iPd 30 19.50 0.3	sP 31 17.00
iS 34 06.00		2.0s 2230.00nm	PP 32 48.00
ePd 29 18.50 0.6		N 16s 230.00um	S 37 20.00
iPP 29 26.50 28kmX		BHL 36.37 287 P 30 21.00 0.4	SS 40 20.00
iPP 30 16.00		PP 31 44.00	OCP 41.93 103 eP- 31 00.00 -6.8X
iPcP 32 10.00		S 36 02.00	YER 41.96 293 iP 31 06.80 -0.1
iS 34 11.00		eP 30 20.50 -0.2	EDC 42.00 298 iP 31 06.50 -0.7
iSS 34 19.00		KGM 36.85 136 eP 30 25.00 0.4	DMK 42.02 300 iP 31 07.60 0.3
iSSS 36 09.50		e 30 50.40 110kmX	PPE 42.16 306 ePc 31 08.50 0.1
MJMA 29.82 269 iPd 29 24.00 0.2		DSI 36.96 283 eP 30 25.80 0.4	CLI 42.41 307 iPc 31 11.50 1.0
		SNY 37.37 60 iPc 30 28.00 -0.8	MFT 31 10.30 -0.4
			KGT 42.42 298 eP 31 10.30 -0.4

19d 21h

BRD	42.53	305	ePd	31	15.00	3.5X	IVA	47.76	302	eP	31	57.00	3.5X	TRO	51.07	337	iPc	32	18.66	0.3	
IZM	42.62	295	iP	31	12.20	-0.2	VLS	47.86	295	eP	31	53.50	-0.7	MMN	51.09	298	P	32	19.20	0.3	
VR1	42.77	306	ePc	31	16.00	2.6	BUD	48.07	308	iPd	31	56.10	0.4	CZ1	51.10	298	P	32	18.90	-0.1	
KKM	42.87	117	iPc	31	15.00	0.3	PLE	48.08	302	eP	31	57.00	1.0	BRG	51.25	313	iPc	32	20.00	0.0	
	1.1s	197.10nm			5.8mb		KEK	48.22	298	eP	31	57.50	0.5		1.5s	850.00nm			6.5mb		
ISR	42.88	305	ePc	31	16.00	1.6	TTG	48.28	301	eP	31	57.80	0.5					32	21.60	5km	
BUC	43.19	304	iPc	31	20.00	3.2X			e(S)	39	04.00							32	29.20		
EZN	43.22	297	iP	31	17.30	0.2	ULC	48.34	301	eP	31	58.10	0.2					33	08.80		
BUC1	43.24	304	iPc	31	18.00	0.8	UZD	48.41	307	iPd	31	59.00	0.6					34	55.20		
PUL	43.28	326	eP	31	19.00	1.7	NKY	48.43	302	eP	31	58.20	-0.5					39	36.00		
			iS	37	43.00		KEV	48.49	339	eP	31	58.44	-0.2					iScS	42	16.00	
MLR	43.31	305	iPd	31	19.00	1.0			ic	31	59.77	4km	LJU	51.25	306	ePc	32	20.20	0.1		
PRK	43.31	296	iPnc	31	17.60	-0.3			id	32	05.73						e(PP)	33	45.00		
RDO	43.72	299	iPd	31	21.50	0.3			ePP	33	53.27						eS	39	40.00		
CMP	43.94	305	ePc	31	33.00	10.0X			e	39	00.28						e(SS)	42	13.00		
PEN1	44.09	141	eP	31	20.00	-4.4X			iScS	41	47.89		KMR	51.33	309	iP+	32	20.70	0.1		
NPS	44.36	290	iPn	31	26.50	0.0			eSS	42	24.30						iPP	34	30.30		
TNR	44.48	305	ePc	31	28.00	0.6	SRO	48.54	309	eP	32	00.60	1.3	CEY	51.36	306	eP	32	21.40	0.4	
DRA	44.50	304	ePd	31	30.00	2.5			i	33	35.30	494kmX	MGR	51.37	299	P	32	20.50	-0.6		
BMR	45.04	308	ePd	31	34.00	2.2			i	33	54.80		SO1	51.39	296	P	32	20.90	-0.3		
YAK	45.19	31	iPc	31	31.90	-0.8			i	33	54.80		RIY	51.44	306	i(P)	32	20.10	-1.4		
			iPP	31	41.00	30kmX	BDV	48.61	301	eP	32	00.40	0.4	SGO	51.48	299	P	32	22.00	0.1	
			iPcP	32	48.00		BRV	48.75	302	eP	32	00.50	-0.7	HFS	51.51	325	eP	32	21.70	-0.2	
			iPP	32	51.00		HCY	48.83	301	eP	32	00.50	-1.2		0.8s	654.10nm			6.6mb		
			iPPP	33	59.00		TIK	48.85	19	eP	32	01.00	-0.4		Z	15s	170.53um		7.2MsZ		
			iS	37	57.00				eS	39	07.00						LR	53	39.00		
			iPS	38	19.00		MAT	49.13	66	iPc	32	02.80	-1.3	TAN1	51.54	124	eP	32	21.70	-1.0	
			iSS	40	53.00			1.0s	151.00nm			6.0mb	GEC2	51.55	310	ePd	32	20.30	-2.1		
			iScS	41	29.00				eS	39	07.00			0.9s	64.69nm			5.5mb			
			iSSS	42	33.00		ZST	49.33	309	eP	32	05.20	-0.2					32	27.60	24kmX	
PAS1	45.25	141	iPd	31	29.00	-4.8X			e	03	17.60						e	32	34.30		
TSM	45.26	118	iPc	31	33.00	-0.8			e	03	58.00						e	32	36.40		
APA	45.41	337	eP	31	34.70	0.3	KTk1	49.42	337	eP	32	05.97	0.1	KHC	51.60	310	iPc	32	22.70	-0.1	
DEV	45.44	306	iPd	31	36.00	1.0	UPP	49.52	324	iPc	32	06.50	-0.1		1.0s	91.00nm			5.7mb		
ATH	45.45	295	ePn	31	40.00	4.9X			iPP	34	04.00			Z	14s	46.30um			6.7MsZ		
			eSn	38	16.00				iS	39	12.00			N	16s	48.30um					
CE1	45.74	308	eP	31	42.00	4.7X	LCI	49.53	299	P	32	05.50	-1.5	E	18s	40.50um					
UZH	45.86	310	iPd	31	39.00	0.7	DAV	49.67	108	eP-	32	09.90	1.5					e	33	08.70	207kmX
			iS	38	17.00			1.0s	960.00nm			6.7mb						e	34	08.90	
KAF	45.90	329	iP	31	39.20	0.9			eS	38	44.20		BRN	51.65	315	eP	32	24.00	1.0		
PAC1	45.90	139	iPc	31	34.00	-5.0X	KSP	49.77	313	iPc	32	08.90	0.1	VOY	51.70	307	eP	32	17.10	-6.5X	
VAY	45.93	299	iP	31	38.40	-0.5		1.4s	493.00nm			6.3mb	SRD1	51.71	133	iPc	32	20.40	-3.5X		
	1.3s	920.00nm			6.6mb			i	32	54.40	206kmX	CLL	51.82	313	iPc	32	24.10	-0.2			
NUR	46.21	326	iP	31	41.50	0.7			iPP	34	07.40			2.2s	1600.00nm				6.6mb		
	1.4s	1251.00nm			6.7mb		VKA	49.85	309	iPc	32	09.70	0.3					iPcP	33	33.50	
			i	31	46.80	18km		4.0s	4866.00nm			6.8mb X					iScP	37	31.80		
			i	32	54.00		Z	11s	39.40um			6.7MsZ					iS	39	46.00		
			i	33	21.80				i	32	15.10	18km	MOR7	51.82	332	eP	32	24.19	0.0		
			e	38	26.00				iPP	34	06.70		TRI	51.83	306	iPc	32	23.80	-0.6		
			e	41	52.00				i	34	16.00						iPP	34	24.00		
			e	43	20.00				i	34	46.60						iS	39	44.00		
VLI	46.26	293	iPd	31	39.40	-2.1			iS	39	14.00						iSS	43	20.00		
BZS	46.35	305	iPd	31	44.00	1.9			LR	56	41.00						iSSS	45	18.00		
TIM	46.62	306	iPc	31	48.00	3.7X	BRT	50.01	299	P	32	10.60	-0.2	ATN	51.83	296	P	32	24.10	-0.5	
KZN	46.64	298	iPd	31	44.10	-0.6	PCI	50.14	121	ePd	32	12.50	0.5	DUI	51.92	301	P	32	25.90	0.5	
SKO	46.71	300	iP	31	44.70	-0.4	TRT	50.17	134	ePd	32	12.50	0.3	KBA	51.95	308	iPc	32	25.10	-0.5	
	1.0s	666.00nm			6.7mb			0.8s	166.70nm			6.1mb		1.3s	359.00nm				6.1mb		
Z	13s	55.20um			6.7MsZ		BAI	50.22	300	P	32	11.50	-0.8					i	32	30.60	18km
			i	31	48.50	13km	ZAG	50.27	306	eP	32	13.50	0.9	COP	52.03	319	iPd+	32	27.10	1.3	
			i	31	52.50				iS	39	25.50			1.2s	1906.25nm				6.9mb		
			i	32	04.50		PTJ	50.28	306	eP	32	13.00	0.2					i	33	06.50	174kmX
			iPcP	33	23.00		SAP	50.42	58	eP	32	13.00	-0.8					i	34	26.00	
			iPP	33	51.00				iS	39	29.00						iS	39	48.00		
			iS	38	32.50		BSD	50.61	318	iPd	32	13.80	-1.3					i	42	20.00	
			iPSP	40	08.00			1.0s	1460.00nm			6.9mb	WET	52.06	311	eP	32	26.00	-0.2		
			iScS	40	23.50				i	34	12.00	669kmX					iS	39	51.00		
			i(SSS)	42	24.00		ROI	50.71	298	P	32	16.40	0.3	BHG	52.20	309	iPc	32	27.10	-0.2	
			LR	57	20.00		VBY	50.81	306	iPc	32	17.00	0.3		1.5s	728.00nm			6.4mb		
BEO	47.20	304	eP	31	49.70	0.8			e	32	23.50	22kmX	SDI	52.39	301	P	32	28.00	-0.8		
			eS	38	43.50		CSI	50.88	298	P	32	17.20	-0.2	FVI	52.40	307	P	32	28.00	-0.7	
SPC	47.23	310	iPc	31	50.50	1.2	PRU	50.92	312	iPc	32	18.10	0.6	MNI	52.43	115	ePc	32	30.30	0.9	
			i	33	35.30	575kmX		1.5s	720.80nm			6.4mb		1.5s	2091.10nm				6.8mb		
			i	34	19.40		Z	13s	123.00um			7.1MsZ									
OHR	47.28	299	iP	31	49.20	-0.5			PP	34	14.70		MNO	52.47	296	P	32	29.00	-0.7		
	1.1s	164.00nm			6.0mb				S	39	34.90		MEU	52.47	295	P	32	29.30	-0.2		
			i	31	56.20	23kmX			ScS	42	04.50		NINI	52.50	124	iPc	32	28.00	-2.1		
KRA	47.44	312	iPc	31	50.20	-0.5			SS	43	07.50		KKH1	52.55	132	ePd	32	26.90	-3.3X		
	1.6s	582.00nm			6.4mb		YSS	50.95	52	iPc	32	17.00	-0.7					e	46	26.10	
Z	18s	63.30um			6.6MsZ				iS	39	34.00		AQU	52.58	302	P	32	30.00	-0.3		
E	18s	67.60um					ACI	51.03	298	P	32	19.60	1.1	KEDI	52.60	131	eP	32	29.00	-1.6	
			i	31	51.80	5km	NAI	51.06	239	P	32	20.50	1.2	HOF	52.61	312	iPc	32	30.40	0.1	
			i	31	55.20				PP	34	48.00			1.5s	427.00nm				6.2mb		
			i	32	07.60				PcS	37	40.00		Z	1							

MOX	52.74	313	iPc+	32	31.60	0.3	EGD	55.74	325	iPc	32	52.89	-0.2	COLF	58.81	307	P	33	14.62	-0.4
	2.5s	3412.00nm			6.8mb		ASK	55.75	325	iPc	32	52.94	-0.1	AGO	59.07	308	P	33	16.50	-0.3
Z	12s	102.90um			7.1MsZ		FOO	55.77	326	eP	32	53.45	0.2	BGF	59.14	309	eP	33	15.90	-1.3
N	20s	65.10um					MMK	55.78	307	ePd	32	52.70	-1.1	LBL	59.18	307	P	33	17.48	-0.2
E	16s	24.10um					KMY	55.79	323	eP	32	54.99	1.6	KUPT	59.22	126	eP	33	22.00	3.9X
		iS	40	03.00			CDF	55.83	310	P	32	53.12	-0.9		1.0s	388.30nm			6.5mb	
NB2	52.79	326	P	32	30.80	-0.8	BBS	55.83	309	P	32	52.88	-1.1	PYM	59.22	308	P	33	17.54	-0.4
	0.9s	476.80nm			6.4mb		FRO	55.84	326	eP	32	54.95	1.2	MAF	59.41	308	eP	33	18.30	-0.8
MKS	52.85	125	ePd	32	32.00	-0.5	ORX	55.84	307	P	32	51.87	-2.3	TCF	59.63	309	eP	33	19.90	-0.8
GIB	52.97	296	P	32	31.50	-1.8	ORO	55.84	307	P	32	51.90	-2.2	CAF	60.07	307	eP	33	23.30	-0.4
ASS	53.00	303	P	32	32.70	-0.6	CKI	55.87	305	P	32	53.80	-0.4	LSF	60.10	309	eP	33	22.50	-1.3
RSM	53.00	304	P	32	33.90	0.6	MBZ	55.88	296	iPc	32	58.00	3.6X	EDR	60.19	321	ePc	33	24.40	0.0
GRF	53.09	311	iPc	32	34.60	0.7	SUE	55.93	326	eP	32	54.77	0.4	ETER	60.21	304	iPc	33	24.01	-0.6
	1.8s	1441.00nm			6.6mb		ECH	55.94	310	P	32	53.76	-0.9	JNW	60.34	338	eP	33	28.30	3.1X
		eS	40	07.00			FIN	55.96	305	P	32	53.62	-1.3	RJF	60.35	308	eP	33	25.10	-0.4
WTTA	53.09	308	iPc	32	33.00	-1.1	MOF	56.02	310	P	32	54.82	-0.5	Z	20s	92.50um			6.9msz	
	1.3s	669.00nm			6.4mb		DIX	56.15	307	ePc	32	56.20	-0.3	ESY	60.44	320	ePc	33	25.50	-0.5
		i	32	38.30	17km		ROB	56.18	305	P	32	56.08	-0.4		0.8s	414.00nm			6.6mb	
		i	34	18.10			BSF	56.25	310	P	32	56.41	-0.6	EDU	60.52	321	ePc	33	26.10	-0.5
		iPP	34	38.20			IMI	56.25	305	P	32	56.49	-0.5		1.2s	1000.00nm			6.8mb	
		i	39	55.20			MEM	56.30	313	iPd	32	55.10	-2.0	LDF	60.61	312	eP	33	26.00	-1.2
		i	40	06.60			LOMF	56.31	309	P	32	55.80	-1.6	LSPF	60.71	305	P	33	27.97	-0.1
GRFO	53.09	311	eP	32	32.50	-1.4	ENN	56.32	313	iPc	32	57.10	-0.3	LPO	60.74	307	eP	33	37.60	9.4X
		ic	32	33.94	5km			1.2s	397.00nm			6.3mb	EDI	60.75	320	ePc	33	27.70	-0.4	
		id	32	39.53			KCHT	56.33	296	iPc	32	57.00	-0.6		0.9s	499.00nm			6.6mb	
MNS	53.10	302	P	32	33.00	-1.1	WLF	56.35	312	iPc	32	57.90	0.3	FLN	60.79	312	eP	33	26.80	-1.7
WATA	53.12	308	iPc	32	33.00	-1.3	ZGN	56.40	296	iPc	32	57.50	-0.7		1.0s	296.90nm			6.4mb	
	1.2s	544.00nm			6.4mb		RSP	56.44	306	P	32	56.18	-2.2	Z	18s	110.00um			7.0msz	
		i	32	38.50	18km		LSO	56.45	307	P	32	58.64	0.0	EBH	60.86	321	ePc	33	28.50	-0.4
		i	32	42.40			EMS	56.48	307	ePc	32	58.60	-0.2		1.1s	578.00nm			6.6mb	
RDP	53.19	301	P	32	33.90	-0.9	BHB	56.50	306	P	32	55.56	-3.2X	EKA	60.86	320	Pc	33	28.20	-0.7
RMP	53.19	301	P	32	33.40	-1.3	HAU	56.51	310	eP	32	57.80	-1.0		1.5s	1107.60nm			6.8mb	
FUR	53.22	309	iPc	32	35.00	0.1		1.2s	883.25nm			6.7mb	ESK	60.89	320	iPc	33	23.90	-5.2X	
	1.4s	621.00nm			6.4mb		Z	16s	137.50um			7.1MsZ		1.0s	440.00nm			6.5mb		
Z	10s	47.00um			6.8msz		ENR	56.51	305	P	32	57.62	-1.3	ESEL	60.91	301	iPc	33	27.65	-1.7
		iS	40	05.20			AUTN	56.56	305	P	32	51.75	-7.7X	EAU	60.92	320	ePc	33	29.00	-0.3
CTI	53.24	307	P	32	34.60	-0.6	STV	56.58	305	P	32	57.82	-1.6		1.4s	1047.00nm			6.8mb	
MCT	53.36	296	P	32	38.10	1.9	DOI	56.58	306	P	32	57.60	-1.8	ELO	60.92	321	ePc	33	28.60	-0.7
FAI	53.41	296	P	32	39.00	2.7	SBF	56.58	305	eP	32	58.20	-1.2	LFF	60.98	307	eP	33	29.20	-0.6
CRE	53.41	304	P	32	36.30	-0.1	DBN	56.59	315	iP+	32	59.00	-0.2	GRBF	61.00	305	P	33	29.34	-0.7
SFI	53.43	304	P	32	37.30	0.9		Z	20s	28.90um			6.4msz	LESF	61.12	305	P	33	30.51	-0.4
USI	53.46	298	P	32	35.20	-1.5			epP	33	24.00	102kmX		MFF	61.13	309	eP	33	29.70	-1.1
PGD	53.53	304	P	32	37.90	0.5			ePP	35	12.00		GRR	61.13	312	eP	33	29.60	-1.2	
OGA	53.56	308	iPc	32	36.50	-1.1			ePPP	36	12.00		SALF	61.27	305	P	33	30.57	-1.4	
KONO	53.56	324	ePc	32	36.77	-0.3			eS	40	44.00		MLS	61.29	305	P	33	31.14	-0.8	
		ec	32	38.42	5km				esS	42	00.00		EAB	61.32	321	ePc	33	31.50	-0.6	
		ec	32	39.74					eSSS	45	36.00		LPF	61.34	311	eP	33	31.30	-0.9	
		ed	32	43.39			AURF	56.65	305	P	32	59.38	-0.6	ABA	61.71	298	iPd	33	37.00	2.0
		ed	32	44.30			REVF	56.65	305	P	33	00.46	0.6	EPF	61.79	305	eP	33	33.70	-1.7
		iPP	34	39.41			PZZ	56.68	306	P	32	58.03	-2.2		1.0s	140.65nm			6.1mb	
		iS	40	08.77			TOUF	56.68	305	P	32	59.98	-0.3	ENSF	61.86	305	P	33	35.99	0.0
		iScS	42	26.82			VITF	56.71	310	P	32	59.70	-0.5	DAG	62.00	345	iPc+	33	35.00	-1.4
MUD	53.84	320	iPc	32	40.10	0.9	LPG	56.72	307	eP	33	00.00	-0.6		2.2s	4369.23nm			7.3mb	
	1.4s	1181.00nm			6.7mb			1.2s	1487.60nm			6.9mb	Z	18s	140.21um			7.2msz		
ERC	54.07	297	P	32	42.30	1.1	LPL	56.73	307	eP	33	00.00	-0.6	N	18s	43.99um				
SAL	54.09	306	P	32	41.60	0.4	RSL	56.76	307	P	33	00.38	-0.4	BTH	62.14	306	P	33	41.00	3.2X
OSS	54.18	308	ePc	32	41.50	-0.6	RRL	56.81	306	P	33	00.49	-0.8		i			33	55.00	50kmX
MME	54.20	305	P	32	42.70	0.3	BNI	56.86	306	P	33	01.60	0.1		e			41	25.00	
MAO	54.21	302	P	32	40.60	-1.5	FRF	57.20	305	eP	33	02.60	-1.1		S			42	03.00	
BDI	54.30	305	P	32	41.80	-1.1	DOU	57.27	313	iPc+	33	04.20	0.1		SKS			43	35.00	
MOL	54.58	327	eP	32	44.79	0.2		1.1s	780.70nm			6.7mb	JAU	62.28	306	P	33	39.00	0.1	
VOL	54.67	308	ePc	32	45.00	-0.8			PcP	33	57.80		OGE	62.32	306	P	33	39.50	0.6	
TNS	54.80	312	ePc	32	46.20	-0.3			iS	41	02.00		EROQ	62.40	303	iPc	33	39.04	-0.4	
LLS	54.93	308	ePc	32	46.60	-1.1	UCC	57.30	313	iP	33	06.00	1.7	ESCF	62.41	306	P	33	41.29	1.7
BOB	54.98	306	P	32	48.10	0.2			iS	41	02.00		LHE	62.50	305	P	33	40.16	-0.1	
ODD1	55.06	324	eP	32	48.48	0.3			ScS	42	52.00		EGRA	62.50	305	iPc	33	36.85	-3.2X	
SLE	55.13	309	ePc	32	47.60	-1.3	LMR	57.35	304	eP	33	03.60	-1.2	ATE	62.50	306	P	33	42.20	2.1
TMA	55.14	307	ePc	32	48.10	-1.1	SNF	57.40	313	iPd	33	02.60	-2.4	ISSF	62.58	306	P	33	40.75	-0.1
HYA	55.23	326	eP	32	49.38	0.0	LRG	57.43	305	eP	33	04.50	-0.8	BOH	62.71	306	P	33	42.27	0.6
ZLA	55.24	309	ePd	32	48.50	-1.2			1.2s	697.30nm			GUMO	62.74	90	ePc	33	41.01	-1.2	
VAI	55.26	307	P	32	48.40	-1.3			20s	62.50um				ec			33	42.50	5km	
FEL	55.43	309	P	32	50.27	-0.9	CDR	57.80	305	iPc	33	07.50	-0.4		id			33	45.40	
BNS	55.51	313	iPc	32	52.80	1.3			i	33	08.90	5km		ed			33	49.21		
	3.0s	3240.00nm			6.8mb				e	34	40.30			ePP			36	00.96		
Z	14s	59.00um			6.8msz				e	35	20.50			iS			42	06.12		
		iPPc	35	00.00					e	36	42.70			e			42	18.53		
		eS	40	30.30			AAI	58.25	117	ePd	33	11.80	0.3		eScS			43	31.37	
GWF	55.51	311	P	32	51.63	0.0	SSB	58.28	307	P	33	10.80	-0.5	GUA	62.80	90	eP	33	38.00	-4.6X
WIT	55.59	316	eP	32	52.00	0.0	LBF	58.29	309											

19d 21h

ECB	1.3s	1222.00nm	6.9mb		Z	20s	48.50um	6.8msz	BALM	82.58	19 iPc	35 39.20	0.6
DCN	63.70	317 iPd	33 48.30	0.4	N	20s	30.90um		MID	82.69	21 eP	35 39.00	0.0
	63.70	318 eP	33 47.90	0.0	E	20s	32.40um			1.6s	1831.50nm		7.0mb
	1.4s	772.00nm	6.7mb				iS	43 54.00	QLP	84.64	125 iPc	35 50.40	1.0
ACU	63.74	301 iPd	33 48.22	-0.2	TIO	71.85	296 iP	34 39.00 -0.6		0.6s	823.00nm		7.1mb
ECHE	63.79	302 iPd	33 49.18	0.4			i	35 11.00 129kmX	CER	85.00	226 iPd	35 51.00	-0.1
SONG	63.89	231 eP	33 53.00	3.2X	MNDI	72.00	109 eP	34 43.00 2.2		1.0s	570.00nm		6.8mb
ECRI	63.91	306 iPd	33 49.96	0.4	KLB	72.21	146 eP	34 39.30 -2.1	TUH	85.05	226 iPc	35 53.00	1.7
ETOR	64.17	304 iPd	33 50.94	-0.4	MBC	72.62	4 iPc	34 43.20 0.0		1.0s	540.00nm		6.7mb
EALH	64.71	300 iPc	33 54.48	-0.3		1.0s	560.00nm	6.6mb	ADE	86.35	135 iPc	35 58.30	0.5
MBL	64.98	137 eP	33 54.50	-2.1	ANM	72.71	24 iP	34 45.40 1.5		1.5s	2666.67nm		7.2mb
	0.7s	81.00nm	6.0mb		WARB	72.82	136 iPd	34 44.50 -0.6	YKA	86.43	6 eP	35 57.50	-0.3
AKU	65.11	333 iPc	33 58.70	1.8		0.4s	25.00nm	5.7mb		0.8s	74.80nm		5.9mb
	1.9s	1410.53nm	6.8mb		BFT	72.98	225 iPd	34 47.50 1.2	HNR	87.28	103 eP	36 05.00	2.3
EVIA	65.24	302 iPc	33 58.08	-0.2		1.7s	1019.23nm	6.6mb	MBO	87.56	285 iPc	36 07.10	3.0X
MTD	65.53	231 iPd	33 59.10	-1.3	NWAO	73.06	147 eP	34 45.00 -1.3		iS	46 43.10		
		i	42 48.00				iS	44 12.00	RMQ	87.81	123 iPc	36 06.00	0.9
		i	02 44.50		JOZ	73.07	223 eP	34 36.00 -10.5X		eS	46 47.40		
EHUE	65.59	301 iPd	34 00.59	0.0		1.0s	60.00nm		SIT	87.88	18 eP	36 06.40	1.5
ENIJ	65.61	300 iPd	34 00.32	-0.2	COOL	73.35	143 eP	34 46.60 -1.5		0.8s	117.24nm		6.3mb
GUD	65.73	304 iPc	34 01.15	-0.3	WR2	73.45	126 iPd	34 48.60 -0.3	Z	20s	370.00um		7.8msz
VAL	65.86	317 iP	34 03.40	1.5		1.0s	272.20nm	6.3mb	CMS	88.74	128 iPc	36 09.80	0.4
		S	42 50.00				eS	44 11.30		1.0s	221.00nm		6.4mb
TOL	65.92	303 eP	34 01.76	-0.8	SLR	74.10	226 iPd	34 50.20 -2.5	BFD	90.15	134 iPd	36 14.00	-1.8
	1.8s	4318.18nm	7.3mb			0.9s	126.05nm	5.9mb		1.0s	333.00nm		6.5mb
		ic	34 04.08	7km	Z	22s	68.15um	6.9msz	BRS	91.27	121 iPc	36 22.00	0.7
		ic	34 05.90				S	44 26.00		0.9s	9.50nm		5.1mb X
		ePP	36 36.02		RKG	74.32	148 eP	34 52.50 -1.1		iPcP	36 27.50		
		iS	42 49.00		BPI	74.57	226 iPc	34 56.10 0.6		i(SKS)	46 59.00		
		eSS	47 04.00			1.5s	1000.00nm	6.6mb		i	47 20.00		
EBAN	66.35	301 iPc	34 06.16	0.9	KSR	75.06	227 iPd	35 09.20 10.9X	TOO	92.23	133 iPd	36 27.00	1.5
ILT	66.38	24 iPc	34 04.80	-0.2	PRY	75.46	226 iPd	35 01.50 0.9		i	36 32.90	18km	
		iS	42 48.00		IMA	75.47	20 iPc	35 00.20 0.2		i(PS)	48 28.00		
MTN	66.41	123 eP	34 04.50	-1.4	ASPA	75.64	129 iPc	35 01.30 -0.2	BWA	92.24	129 eP	36 27.30	1.7
		e	34 32.00	110kmX		1.7s	242.00nm	6.0mb		e	36 34.90	24kmX	
AFC	66.50	300 iPd	34 05.38	-1.1			eS	44 39.20	COO	92.42	124 iPd	36 27.00	0.5
ECOG	66.51	300 iPd	34 05.71	-0.8			eP'P'	02 26.30	CAN	93.15	130 eP	36 30.60	0.8
EGUA	66.67	300 iPd	34 06.70	-0.7	BFS	75.87	227 iPc	35 03.70 0.8		i	36 38.20	24kmX	
KNA	66.71	127 eP	34 06.80	-1.0		1.5s	611.11nm	6.5mb	CNB	93.39	129 ePc	36 31.60	0.7
LSZ	66.79	234 iPc	34 08.00	-0.5	SEK	76.37	225 iPd	35 05.40 -0.3		e	40 39.00		
		i	34 10.00	6km		0.7s	44.52nm	5.7mb	RIV	93.75	127 e(P)	36 33.00	0.5
		i	34 11.00		TTA	76.95	23 iPc	35 09.60 1.2		i	36 36.00	9km	
		i	34 15.00		SWZ	76.98	227 iPc	35 08.60 -0.5		e	40 20.00		
		i	34 16.00			1.7s	846.15nm	6.6mb		iSKS	47 08.00		
EMON	66.96	308 iPc	34 10.31	1.2	OIS	77.56	123 iPc	35 17.20 4.9X		iS	47 40.00		
REY	67.19	332 iP	34 14.20	4.0X			i	45 04.00	FFC	94.85	0 iPc	36 37.30	-0.1
ERUA	67.21	307 iPd	34 11.00	0.3	BLF	77.81	225 iPc	35 12.00 -1.6		1.5s	432.00nm		6.7mb
MENI	67.28	108 iPc	34 12.80	1.2		0.9s	230.77nm	6.3mb	PGC	98.47	15 eP	36 56.00	2.1
EPLA	67.31	304 iPc	34 11.67	0.2	RAB	77.98	102 iP+	35 16.00 1.3	MCW	98.57	14 iPc	36 56.00	1.5
MAL	67.34	300 iPc	34 11.50	-0.1			iS	45 08.00		(PP)	40 44.60		
		iS	42 50.00		FBA	77.99	18 P	35 14.00 0.1	PNT	98.59	12 eP	36 55.00	0.4
EHOR	67.55	302 iPd	34 12.65	-0.3	CFTV	78.27	296 iPd	35 17.60 1.4		0.8s	30.00nm		6.0mb
EPRU	67.86	301 iPd	34 15.18	0.2	SVW	78.36	24 iPc	35 17.40 1.3	SES	98.72	6 eP	36 55.00	-0.1
STS	67.99	308 iPc	34 16.07	0.5	FUL	78.38	301 eP	35 19.00 2.4		1.7s	243.00nm		6.6mb
LIJA	68.02	301 eP	34 15.00	-1.0	RND	78.83	20 iP	35 17.50 -1.2		pP	37 13.00	64kmX	
MTE	68.22	305 iPc	34 19.00	1.8	WIN	79.44	236 iPc	35 22.00 -0.8	MAW	98.81	186 eP	36 58.00	3.3X
		i	34 22.50	11km		1.0s	345.00nm	6.3mb		1.0s	30.00nm		5.9mb
EJIF	68.23	300 iPd	34 16.05	-1.2	Z	20s	74.47um	7.0msz		Z	20s	97.00um	7.3msz
ALJ	68.25	301 eP	34 16.00	-1.5	PDB	79.80	24 iPc	35 24.00 0.2	DZM	99.08	110 iPc	37 02.00	4.9X
GIBL	68.45	301 eP	34 18.50	-0.1			(PP)	38 30.60	GMW	99.65	15 ePc	37 01.10	1.6
MOMI	68.47	300 eP	34 17.00	-1.7	RSO	79.81	23 eP	35 24.30 0.1	RMW	99.95	14 ePc	37 01.40	0.5
PLAT	68.58	300 eP	34 19.00	-0.4	PWA	79.86	21 iPc	35 24.40 0.3		(PP)	40 58.30		
PTO	68.69	306 iPc	34 20.00	0.0	CTFE	79.92	297 eP	35 26.80 1.7	NEW	100.04	11 ePdiff37	01.70	0.7
		iS	43 24.00		PMR	80.14	21 iPc	35 25.90 0.3		1.2s	32.20nm		5.7mb
EVAL	68.74	302 iPc	34 19.67	-0.7	Z	20s	130.00um	7.3msz		Z	18s	28.15um	6.8msz
COI	68.92	305 iPc	34 21.70	0.3	SDN	80.40	30 eP	35 26.80 -0.3			iPP	41 04.00	
IFR	69.13	297 iPd	34 23.50	0.4	CRZF	80.61	199 iPd	35 38.00 9.8X	BNH	100.16	339 ePdiff37	04.00	2.4
		i	34 26.00	8km			ePP	38 48.00	DPW	100.24	12 ePdiff37	01.60	-0.3
SMY	69.17	40 eP	34 22.20	-0.5			eS	45 43.00	LON	100.62	14 ePdiff37	03.65	0.0
	1.0s	560.00nm	6.7mb				eSS	51 06.00		iHPP	41 07.38		
Z	20s	40.00um	6.7mszX		SLKM	80.62	22 iPc	35 27.80 -0.5		iPP	41 13.34		
MRWA	69.40	146 eP	34 22.90	-1.5			PP	38 27.00		e	41 17.64		
FIG	69.72	302 eP	34 29.50	3.1X	TOA	80.63	20 iP	35 29.70 1.4	HRV	102.14	338 ePdiff37	12.57	2.2
		i	34 33.00	11km	TBT	81.08	298 iPd	35 33.00 1.7		eHPP	41 22.17		
BUL	69.90	230 iPd	34 28.70	0.9	KLU	81.19	20 iPc	35 31.50 0.2		ePP	41 23.49		
		i	43 36.00				PP	38 35.10		iSKS	47 49.74		
		i	44 29.00		KIC	81.22	272 Pc	35 32.70 0.5		eSDIF	48 51.76		
		i	02 33.50			1.3s	1000.00nm	6.7mb		e	49 33.69		
MTH	69.99	304 iPc	34 28.70	0.7			S	45 41.00		iPS	50 23.69		
		i	34 32.50	12km	TIC	81.32	273 Pc	35 33.22 0.5		e	50 37.70		
LIS	70.03	304 iPc	34 30.00	1.8		1.3s	850.50nm	6.6mb	COR	102.34	16 ePdiff37	11.91	0.7
BAL	70.89	146 eP	34 31.50	-2.0	LIC	81.53	272 Pc	35 34.38 0.5		eHPP	41 27.30		
AVE	70.96	298 iP	34 34.00	-0.1		1.3s	727.50nm	6.6mb		ePP	41 27.64		
		i	35 20.50	195kmX	Z	20s	50.40um	6.9msz		iSKS	47 53.55		
BRW	71.04	16 iPc	34 34.30	0.4	CHIE	81.59	297 iPd	35 33.00 -0.9		eSDIF	48 56.03		
MUN	71.79	147 eP	34 37.00	-1.9	KDC	81.89	25 iP	35 36.00 1.1		iPS	50 35.36		
	1.0s	240.00nm	6.2mb			1.6s	2572.30nm	7.1mb					

NNA	150.70	304	iPKPc	43	06.00	2.9X
	1.0s	80.00nm				
Z	20s	21.28um			6.9Msz	
CFA	151.83	260	ePKP	43	05.60	1.2
RTLL	151.99	260	e(PKP)	43	05.60	1.0
ZON	152.19	260	ePKP	43	05.00	0.1
RTCB	152.29	260	iPKPc	43	06.50	1.4
RTRS	152.66	263	ePKP	43	09.60	4.1X
PCH	153.90	256	iPKP	43	08.00	0.7
JACH	153.92	258	iPKP	43	10.00	2.6
SAN	154.02	256	iPKP	43	08.00	0.6
PEL	154.02	257	iPKPd	43	11.00	3.6X
	1.5s	166.67nm				
CHCH	154.03	255	iPKP	43	11.00	3.6X
TACH	154.26	256	iPKP	43	09.00	1.3
ROCH	154.29	257	iPKP	43	11.00	3.0X
LNV	154.66	255	iPKP	43	09.00	0.9
LCCH	154.78	256	iPKP	43	04.00	-4.3X
IHA	154.82	257	ePKP	43	11.50	3.2X
	S.D. = 1.2	on 525	of 614	obs.		
<hr/>						
%	OCT 19, 1991	22h	19m	52.23±	0.84s	
	40.823 N ±10.5km		27.874 E ±	5.9km		
	DEPTH = 10.0km	(geophysicist)				
	TURKEY				(366)	
MFT	0.45	266	ePg	20	01.50	0.1
			eSg	20	08.80	
ISK	0.93	75	ePg	20	10.30	0.3
			eSg	20	23.50	
DMK	1.00	355	ePg	20	11.10	-0.1
			iSg	20	25.10	
IZI	1.31	111	ePn	20	16.50	0.0
HRT	1.36	89	ePn	20	17.00	-0.3
	S.D. = 0.3	on 5	of 5	obs.		
<hr/>						
	OCT 19, 1991	22h	41m	15.44±	0.33s	
	30.747 N ± 6.4km		78.723 E ±	4.6km		
	DEPTH = 17.0km	(2 depth phases)				
	4.8mb (13 obs.)	4.6Msz (1 obs.)				
	NORTHERN INDIA				(308)	
	ML 4.7 (NDI).					
NDI	2.44	213	iPnd	41	57.20	2.1
			iSn	42	50.00	
DMN	6.40	118	P	42	52.20	0.7
KKN	6.44	116	P	42	52.00	-0.1
PKI	6.65	117	P	42	55.20	0.1
GUN	6.86	113	P	42	58.00	0.0
KSH	8.97	346	P	43	28.60	1.3
			S	45	10.60	
QUE	10.18	270	eP	43	44.00	0.1
LSA	10.80	92	P	43	53.00	0.2
SHL	12.70	111	eP	44	14.00	-4.2X
			eS	46	27.20	
POO	12.94	201	iPc	44	15.50	-5.8X
			iS	46	30.00	
HYB	13.27	181	iPc	44	20.00	-5.7X
			eS	46	41.00	
WMQ	14.86	26	P	44	46.50	0.0
MA10	16.96	294	eP	45	12.00	-1.4
CD2	21.49	83	eP	46	03.80	-1.6
LZH	21.61	69	eP	46	06.50	-0.2
	1.5s	48.00nm			4.7mb	
Z	20s	2.47um			4.6Msz	
E	13s	1.83um				
			pP	46	10.50	14km
CHG	21.83	118	eP	46	08.00	-0.8
GYA	24.87	93	eP	46	40.40	1.7
	1.0s	14.00nm			4.6mb	
XAN	25.67	75	P	46	46.00	-0.1
			pP	46	51.50	20km
			sP	46	55.20	
BTO	27.13	60	eP			

19d 22h

SMF	0.6s	7.20nm	4.9mb	
	58.44	309 eP	51 11.70	-0.7
	1.2s	11.90nm	4.8mb	
AVF	58.73	309 eP	51 13.60	-0.9
	1.2s	17.85nm	5.0mb	
TCF	59.62	309 eP	51 20.10	-0.5
	1.0s	10.00nm	4.9mb	
WRA	73.45	126 P	52 48.00	-0.9
	0.6s	5.70nm	4.8mb	
WR2	73.47	126 eP	52 47.50	-1.5
	0.3s	10.30nm	5.4mb	
ASPA	75.66	129 iPc	53 01.10	-0.6
	0.4s	5.40nm	5.0mb	
FBA	78.03	18 P	53 14.70	0.5
INK	78.37	12 eP	53 16.00	0.0

S.D. = 1.0 on 32 of 36 obs.

% OCT 19, 1991 22h 46m 38.11±0.76s
42.954 N ± 6.0km 12.949 E ± 10.5km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

ASS	0.24	299 P	46 42.10	-1.2
		eSg	46 46.70	
ARV	0.54	359 P	46 47.00	-2.1
		eSg	46 55.40	
MNS	0.60	199 P	46 48.50	-1.8
		eSg	46 58.80	
AQU	0.69	151 P	46 52.00	0.3
		eSg	47 02.00	
CRE	0.99	313 P	46 57.30	0.3
		eSg	47 11.30	
RDP	1.21	188 P	47 00.00	-0.6
SFI	1.25	321 P	47 01.50	0.1
PGD	1.28	316 P	47 02.50	0.5
SDI	1.40	152 P	47 03.70	-0.1

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

% OCT 19, 1991 23h 27m 01.05±0.62s
40.109 N ± 4.6km 22.434 E ± 5.3km
DEPTH = 10.0km (geophysicist)
GREECE (364)

LIT	0.04	100 iPg	27 03.61	0.4
		iSg	27 05.85	
THE	0.66	38 iPg	27 14.65	0.4
		eSg	27 24.50	
GRG	0.85	358 iPg	27 17.42	0.0
		iSg	27 30.38	
PAIG	0.97	100 ePg	27 19.70	0.2
		eSg	27 32.42	
SOH	1.00	44 ePg	27 19.93	-0.1
		eSg	27 33.98	
FNA	1.05	310 ePg	27 21.01	0.1
AGG	1.09	184 ePg	27 21.34	-0.2
KNT	1.11	18 ePg	27 21.91	0.0
		eSg	27 37.32	
OUR	1.21	79 ePbd	27 23.21	-0.3
		iSb	27 39.89	
SRS	1.34	41 ePbc	27 25.10	-0.6

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

? OCT 19, 1991 23h 38m 15.79±1.03s
1.901 N ± 16.2km 77.156 W ± 24.5km
DEPTH = 110.0km (geophysicist)
COLOMBIA (103)
MD 3.7 (UVC).

PURC	0.90	62 eP	38 36.89	0.1
CUMC	1.18	217 eP	38 39.72	0.0
ANCC	1.63	10 ePc	38 45.04	0.4
		eS	39 07.60	
HOOC	1.64	19 eP	38 44.49	-0.5
		eS	39 06.80	

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

? OCT 19, 1991 23h 39m 41.13±4.17s
29.880 N ± 71.1km 78.891 E ± 14.1km
DEPTH = 33.0km (normal)
NORTHERN INDIA (308)

NDI	1.89	231 ePn	40 11.50	-0.1
DMN	5.91	111 P	41 09.60	0.7
KKN	5.98	109 P	41 09.80	-0.1
PKI	6.17	110 P	41 12.60	0.0
GUN	6.43	106 P	41 15.60	-0.8
WRA	72.82	126 P	51 09.00	0.3

	0.7s	0.30nm	3.4mb
	S.D. = 0.6	on 6 of	6 obs.

* OCT 20, 1991 00h 45m 07.37±0.91s
29.583 N ± 16.8km 51.290 E ± 10.4km
DEPTH = 33.0km (normal)
4.2mb (1 obs.)

SOUTHERN IRAN (353)

SHI	1.08	86 iPc	45 26.00	-0.4
RYD	6.39	222 ePc	46 43.00	1.3
		eS	47 52.00	
MJMA	6.49	236 ePc	46 43.00	-0.1
		eS	47 50.00	
QASM	7.70	245 eP	46 59.00	-1.0
		eS	48 26.00	
UQSK	8.77	247 ePc	47 14.50	-0.5
		eS	48 48.00	
AFIF	9.07	235 eP	47 22.50	3.4X
		eS	49 08.00	
HFS	39.59	331 eP	52 37.60	0.6

0.4s 1.70nm 4.2mb
S.D. = 1.1 on 6 of 7 obs.

? OCT 20, 1991 00h 50m 48.97±2.38s
53.522 N ± 11.3km 167.093 W ± 31.4km
DEPTH = 33.0km (normal)
4.6mb (8 obs.)

FOX ISLANDS, ALEUTIAN ISLANDS (9)
ML 4.1 (PMR).

SDN	4.26	62 eP	51 53.30	0.2
RSO	10.45	43 eP	53 18.54	-1.1
SLKM	11.53	46 P	53 30.70	-3.5X
PMR	12.55	43 e(P)	53 46.10	-1.6
	1.2s	51.52nm	5.5mb X	
RND	13.70	37 P	54 03.60	0.6
KLU	13.84	46 P	54 00.30	-4.7X
TOA	14.02	44 eP	54 07.20	0.0
IMA	14.23	23 eP	54 11.40	1.4
	0.9s	13.80nm	4.6mb	
FBA	15.00	33 eP	54 20.90	0.9
	1.0s	10.00nm	4.1mb	
INK	21.62	34 eP	55 38.00	0.3
MBC	28.96	21 eP	56 47.00	0.2
	0.6s	3.00nm	4.2mb	
PNT	29.46	79 eP	56 54.00	2.3
	0.7s	6.00nm	4.4mb	
NEW	31.42	79 eP	57 08.30	-0.7
	0.8s	29.17nm	5.2mb	
LRM	35.41	80 eP	57 44.30	0.5
CLC	38.51	97 eP	58 12.00	2.3
BW06	38.85	82 eP	58 13.00	0.3
	1.0s	11.67nm	4.6mb	
SBB	39.15	98 eP	58 16.00	0.9
GSC	39.33	97 eP	58 14.00	-2.6
MWC	39.34	99 eP	58 18.00	1.2
PLM	40.65	99 eP	58 27.00	-0.6
BAR	41.24	100 eP	58 34.00	1.7
RSSD	41.29	77 eP	58 33.00	0.2
	1.0s	13.56nm	4.6mb	
GOL	43.23	83 eP	58 48.60	-0.2
ALO	45.74	89 eP	59 07.00	-1.9
	1.7s	16.35nm	4.7mb	
		e	00 45.00	
GBTN	58.27	72 eP	00 40.30	-2.2
CVL	59.81	66 eP	00 51.00	-2.1

S.D. = 1.4 on 24 of 26 obs.

OCT 20, 1991 01h 17m 03.14±0.28s
53.819 N ± 5.8km 166.923 W ± 4.0km
DEPTH = 33.0km (normal)
5.0mb (52 obs.) 5.2Msz (8 obs.)

FOX ISLANDS, ALEUTIAN ISLANDS (9)
ML 4.8 (PMR). Mo=3.0*10**17 Nm
(PPT). Felt (IV) at Dutch Harbor
and Unolasko.

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 23S, 50C
Centroid Location:
Origin Time 01:17: 2.3 0.5
Lat 53.89N 0.12 Lon 166.99W 0.11
Dep 15.0 FIX Half-duration 2.1
Moment Tensor: Scale 10**17 Nm
Mrr=-1.27 0.10 Mtt=-0.04 0.14
Mff= 1.32 0.09 Mrt=-0.64 0.33

Mrf= 0.03 0.49 Mtf= 0.47 0.11
Principal Axes:
T Val= 1.47 Plg= 4 Azm=109
N 0.09 24 200
P -1.56 66 10
Best Double Couple: Mo=1.5*10**17
NP1: Strike=175 Dip=46 Slip=124
NP2: 40 53 -59

SDN	4.04	65 eP	18 05.00	0.9
KDC	9.03	58 eP	19 13.80	-0.3
PDB	9.19	44 P	19 15.00	-1.3
SVW	9.50	35 eP	19 22.80	2.1
PWA	11.99	42 eP	19 57.10	2.6
PMR	12.26	43 eP	19 59.70	1.6
KLU	13.57	47 P	20 13.00	-2.5X
TOA	13.73	45 eP	20 17.70	0.0
IMA	13.92	23 eP	20 22.40	2.3
	1.2s	241.80nm	5.8mb	
FBA	14.70	33 iP	20 31.70	1.5
BRW	18.11	11 eP	21 14.60	1.2
SIT	18.13	67 eP	21 14.30	0.7
	0.8s	64.20nm	4.8mb	
INK	21.32	34 eP	21 45.50	-3.3X
		pP	22 01.00	69kmX
YKA	28.18	51 eP	22 56.00	1.9
	0.7s	10.40nm	4.6mb	
GMW	28.29	85 eP	22 56.50	1.3
BMW	28.56	87 eP	22 58.00	0.2
MBC	28.64	22 ePc	22 58.50	0.4
	0.6s	13.00nm	4.8mb	
RMW	28.91	84 eP	23 01.40	0.5
LON	29.26	85 eP	23 04.00	-0.1
PNT	29.31	79 eP	23 05.00	0.6
	0.8s	35.00nm	5.1mb	
NEW	31.26	80 eP	23 22.00	0.2
	0.8s	125.00nm	5.8mb	
LBFM	32.28	94 eP	23 30.00	-1.0
MIN	33.08	95 eP	23 38.85	1.0
ORV	33.65	96 ePc	23 43.41	0.8
SES	33.74	73 eP	23 43.00	-0.3
	0.7s	50.00nm	5.5mb	
PCC	34.49	100 eP	23 53.09	3.3X
ARN	35.09	99 eP	23 56.00	1.0
LRM	35.26	80 eP	23 56.20	-0.5
CMB	35.30	97 eP	23 57.00	0.1
	1.4s	35.88nm	5.1mb	
PRS	35.88	100 iPc	24 03.18	1.5
LLA	35.93	100 eP	24 03.11	0.9
HPI	36.07	84 eP	24 04.20	0.6
FRI	36.40	98 ePc	24 07.52	1.5
PRI	36.42	100 eP	24 09.42	3.0X
BONR	36.58	96 eP	24 08.70	0.7
FFC	36.72	62 eP	24 10.00	1.4
	1.0s	33.00nm	5.2mb	
TNP	37.14	94 eP	24 12.50	0.0
	1.0s	25.00nm	5.0mb	
SYP	37.95	101 eP	24 20.00	0.7
ABL	38.16	100 eP	24 22.00	0.8
CLC	38.44	97 iP+	24 24.00	0.7
BW06	38.71	83 eP	24 25.00	-0.7
	0.7s	22.42nm	5.1mb	
SBB	39.09	99 eP	24 28.00	-0.8
DAU	39.16	87 eP	24 30.00	0.4
GSC	39.26	97 eP	24 31.00	0.8
PAS	39.27	100 eP	24 31.00	0.8
MWC	39.29	100 eP	24 31.00	0.5
MSU	39.84	90 eP	24 35.00	-0.2
RVR	39.85	99 eP	24 35.00	0.1
PEC	40.04	99 eP	24 36.50	-0.1
PLM	40.60	100 eP	24 42.00	0.6
RSSD	41.13	77 eP	24 45.00	-0.6
	0.8s	54.09nm	5.3mb	
BAR	41.20	100 eP	24 47.00	0.9
GOL	43.09	83 eP	25 02.00	0.2
	0.9s	38.16nm	5.1mb	
GLD	43.15	83 eP	25 03.00	0.8
	1.0s	55.00nm	5.3mb	
CN2	44.04	286 eP	25 11.60	2.5
	1.0s	11.00nm	4.6mb	
Z	20s	6.70um	5.6Msz	
N	19s	1.77um		
E	19s	1.64um		
		eS	31 41.00	
ANMO	45.63	89 eP	25 21.00	-1.2
	1.2s	121.09nm	5.7mb	
ALO	45.63	89 eP	25 21.00	-1.2

20d 01h

SDN 4.22 65 eP 33 24.72 -1.9
 KDC 9.21 58 eP 34 30.60 -6.0X
 PDB 9.37 44 eP 34 38.46 -0.3
 SVW 9.67 35 eP 34 43.78 0.8
 RSO 10.34 43 eP 34 53.00 0.7
 ANM 10.92 4 P 35 00.00 -0.1
 SLKM 11.43 47 eP 35 07.17 0.1
 PMR 12.44 43 P 35 20.00 -0.4
 IMA 14.07 23 eP 35 43.50 1.4
 FBA 14.87 33 P 35 53.20 0.8

0.9s 13.33nm 4.3mb
 BALM 15.19 51 P 35 55.00 -1.7
 BRW 18.25 11 eP 36 37.26 2.3
 INK 21.49 34 eP 37 08.00 -2.5
 MBC 28.80 22 eP 38 19.00 -0.5
 0.6s 3.00nm 4.2mb
 PNT 29.48 79 eP 38 27.00 1.1
 0.7s 6.00nm 4.4mb

NEW 31.43 79 eP 38 43.50 0.3
 1.0s 30.00nm 5.1mb
 SES 33.91 72 eP 39 07.00 2.2
 DUG 38.53 88 eP 39 46.50 2.4
 BW06 38.87 82 eP 39 47.00 0.8
 1.0s 8.33nm 4.5mb

DAU 39.32 86 eP 39 53.00 2.1
 PLM 40.73 99 eP 40 03.40 1.0
 RSSD 41.30 77 eP 40 06.00 -1.0
 1.0s 12.20nm 4.6mb
 GOL 43.26 83 eP 40 24.00 0.9
 0.8s 4.46nm 4.3mb

ANMO 45.78 89 eP 40 44.00 0.6
 1.0s 5.50nm 4.4mb
 ALO 45.79 89 eP 40 43.00 -0.4
 1.4s 9.30nm 4.5mb
 ePcP 42 22.00

FVM 53.09 74 eP 41 40.00 0.7
 ELC 54.26 74 eP 41 46.30 -1.6
 GBTN 58.26 72 eP 42 15.00 -1.5
 NAV 58.98 68 eP 42 20.50 -1.1
 CVL 59.78 66 eP 42 26.30 -0.7
 JSC 60.93 71 eP 42 33.50 -1.4
 LHS 61.04 70 eP 42 34.70 -0.9
 SGS 62.15 71 eP 42 42.50 -0.6
 HFS 66.50 360 eP 43 10.00 -1.0

0.5s 1.60nm 4.4mb
 EKA 70.52 10 P 43 37.00 1.0
 0.9s 6.90nm 4.7mb
 GEC2 77.81 359 ePd 44 18.10 -0.2
 0.6s 0.93nm 4.0mb

WR2 88.87 233 iPd 45 14.40 -0.6
 0.8s 2.90nm 4.7mb
 WRA 88.87 233 P 45 16.00 1.0
 0.6s 1.80nm 4.6mb
 SHI 90.14 326 eP 45 37.00 15.7X
 BUL 144.36 334 iPKPd 51 56.30 -1.1
 i 52 01.20

BFT 149.20 329 ePKP 52 12.00 6.7X
 0.6s 6.67nm
 SEK 152.40 331 iPKPc 52 18.10 8.2X
 0.7s 13.70nm

S.D. = 1.3 on 38 of 42 obs.

* OCT 20, 1991 02h 42m 06.05±0.68s
 56.444 N ± 7.5km 2.936 E ± 21.1km
 DEPTH = 10.0km (geophysicist)
 NORTH SEA (534)
 ML 3.4 (LDG).

KMY 3.04 23 iP 42 55.17 0.2
 eS 43 28.09
 ODD1 3.99 28 iP 43 08.36 -0.2
 FLN 7.97 197 Pn 44 04.80 0.2
 Sn 45 32.80

LDF 8.08 195 Pn 44 06.80 0.6
 GRR 8.39 198 Pn 44 10.60 0.8
 Sn 45 41.00
 LPF 8.77 198 Pn 44 15.20 -0.5
 LOR 9.21 176 Pn 44 22.60 0.8
 AVF 9.67 178 Pn 44 28.20 0.0

SMF 9.83 176 Pn 44 29.80 -0.6
 BGF 9.90 180 Pn 44 31.20 -0.2
 MFF 10.04 192 Pn 44 33.00 -0.3
 MAF 10.24 181 Pn 44 36.00 0.8
 S.D. = 0.5 on 12 of 12 obs.

* OCT 20, 1991 03h 15m 13.28±0.97s
 10.909 N ± 19.7km 141.230 E ± 12.1km

DEPTH = 33.0km (normal)
 4.2mb (1 obs.)
 WESTERN CAROLINE ISLANDS (209)

GUMO 4.44 53 eP 16 20.00 -0.1
 PJG 4.44 53 eP 16 20.20 0.1
 GUA 4.45 54 eP 16 20.00 -0.2
 ASPA 35.10 192 eP 22 05.90 0.1
 1.3s 4.60nm 4.2mb
 BJI 36.53 327 eP 22 31.00 13.4X
 1.0s 7.00nm

CHG 41.54 286 eP 22 56.80 -2.8
 GUN 54.43 296 P 24 42.00 1.7X
 PKI 54.80 296 P 24 44.60 1.5X
 KKN 54.94 296 P 24 44.80 0.8
 DMN 55.08 296 P 24 46.00 1.0
 GKN 55.53 296 P 24 49.20 1.1
 S.D. = 1.5 on 8 of 11 obs.

? OCT 20, 1991 03h 34m 30.86±3.10s
 30.945 N ± 38.1km 78.922 E ± 12.3km
 DEPTH = 33.0km (normal)
 4.3mb (2 obs.)
 NORTHERN INDIA (308)

NDI 2.70 214 iPnd 35 12.80 0.0
 iSn 35 45.00
 GKN 5.78 119 P 35 57.80 1.1
 DMN 6.34 120 P 36 05.00 0.3
 0.4s 12.00nm 5.0mb

KKN 6.38 118 P 36 04.40 -0.8
 PKI 6.59 119 P 36 08.00 -0.3
 GUN 6.78 115 P 36 10.60 -0.3
 WRA 73.43 126 P 46 02.00 0.1
 0.5s 0.30nm 3.5mb
 S.D. = 0.7 on 7 of 7 obs.

? OCT 20, 1991 03h 38m 43.34±1.53s
 53.337 N ± 20.5km 166.977 W ± 23.9km
 DEPTH = 33.0km (normal)
 4.3mb (5 obs.)
 FOX ISLANDS, ALEUTIAN ISLANDS (9)

ML 4.4 (PMR).
 SDN 4.29 60 eP 39 46.70 -1.2
 RSO 10.54 42 eP 41 12.04 -3.2X
 PWA 12.37 41 eP 41 43.60 3.8X
 1.3s 41.00nm 5.4mb X

PMR 12.64 42 eP 41 46.00 2.7
 KLU 13.92 46 eP 41 56.69 -3.7X
 TOA 14.10 43 eP 42 02.70 0.0
 IMA 14.37 22 eP 42 12.70 6.4X
 0.9s 12.60nm 4.5mb

FBA 15.12 32 eP 42 14.50 -1.4
 0.6s 3.69nm 3.8mb
 BALM 15.34 50 P 42 13.80 -5.1X
 INK 21.74 34 eP 43 27.00 -6.2X
 PNT 29.43 78 eP 44 47.00 1.2
 NEW 31.38 79 eP 45 02.80 -0.2
 0.8s 14.58nm 4.9mb

BW06 38.81 82 eP 46 08.00 1.3
 MSU 39.88 89 eP 46 17.80 2.1X
 PLM 40.56 99 eP 46 25.00 3.8X
 RSSD 41.27 77 eP 46 27.00 0.0
 GOL 43.19 83 eP 46 44.00 1.2
 0.6s 3.29nm 4.3mb

ALO 45.68 89 e(P) 47 01.00 -1.8
 ePcP 48 41.00
 CVL 59.82 66 eP 48 45.50 -2.1
 WRA 88.74 234 P 51 35.00 0.3
 0.7s 0.70nm 4.1mb
 S.D. = 1.6 on 12 of 20 obs.

% OCT 20, 1991 04h 09m 01.57±3.41s
 18.300 N ± 16.0km 76.503 W ± 18.6km
 DEPTH = 10.0km (geophysicist)
 JAMAICA REGION (86)
 MD 1.8 (HOJ).

GWJ 0.32 225 iP 09 08.29 0.1
 S 09 11.76
 STH 0.37 233 iP 09 09.21 0.0
 S 09 13.37
 HOJ 0.38 218 eP 09 09.20 -0.1
 S 09 13.85

YHJ 0.41 179 eP 09 09.90 0.0
 S 09 14.43

BBJ 0.73 277 eP 09 15.94 0.0
 S 09 26.09
 S.D. = 0.1 on 5 of 5 obs.

OCT 20, 1991 04h 20m 28.93±0.45s
 30.899 N ± 9.3km 78.832 E ± 5.9km
 DEPTH = 33.0km (normal)
 4.5mb (6 obs.)
 NORTHERN INDIA (308)
 ML 4.5 (NDI).

NDI 2.62 213 iPnd 21 09.80 0.0
 iSn 21 40.50
 GKN 5.83 118 P 21 56.40 0.9
 DMN 6.39 119 P 22 04.30 0.9
 KKN 6.42 117 P 22 03.40 -0.5
 PKI 6.63 118 P 22 07.00 0.0
 GUN 6.83 114 P 22 09.80 0.1
 QUE 10.27 269 eP 22 58.00 0.7
 eS 24 45.00

SHL 12.67 112 eP 23 27.50 -2.2
 eS 25 41.50
 POO 13.11 201 eP 23 29.00 -6.5X
 iS 25 46.20
 HYB 13.42 181 eP 23 32.20 -7.4X
 eS 25 53.70

LZH 21.47 69 Pc 25 17.60 0.8
 1.0s 26.00nm 4.6mb
 sP 25 35.50
 CHG 21.82 119 eP 25 20.30 0.1
 HFS 51.44 325 eP 29 32.50 -0.2
 0.5s 2.80nm 4.5mb

NB2 52.72 326 P 29 41.40 -1.0
 1.0s 5.10nm 4.4mb
 LPG 56.68 307 iPc 30 11.30 -0.5
 LPL 56.69 307 iPc 30 11.30 -0.4
 0.7s 3.30nm 4.5mb

WR2 73.48 126 iPd 32 00.20 -0.1
 0.6s 4.10nm 4.6mb
 FBA 77.86 18 P 32 25.80 1.4
 0.9s 1.50nm 4.0mb
 S.D. = 0.9 on 16 of 18 obs.

? OCT 20, 1991 04h 31m 35.61±1.08s
 30.341 N ± 17.5km 78.830 E ± 8.2km
 DEPTH = 33.0km (normal)
 NORTHERN INDIA (308)

NDI 2.17 221 iPnd 32 10.00 -0.1
 iSn 32 42.50
 GKN 5.59 113 P 32 59.40 0.7
 DMN 6.13 115 P 33 07.60 1.0
 KKN 6.19 113 P 33 07.60 0.3
 PKI 6.39 114 P 33 09.80 -0.4
 GUN 6.62 110 P 33 12.00 -1.5
 ZST 49.65 309 eP 40 26.00 0.1
 e 01 02.00

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

OCT 20, 1991 04h 31m 42.13±0.31s
 4.831 S ± 5.2km 129.169 E ± 8.0km
 DEPTH = 231.4km (2 depth phases)
 4.9mb (23 obs.)
 BANDA SEA (280)

AAI 1.50 319 ePd 32 18.50 -0.4
 eS 32 30.00
 KUPT 7.64 226 eP 33 40.50 9.0X
 MTN 8.20 166 eP 33 37.50 -1.3
 0.3s 186.00nm 5.8mb

PCI 10.10 292 ePc 34 05.30 2.1
 1.0s 24.50nm 4.4mb
 KNA 10.86 182 eP 34 11.70 -1.1
 eS 36 08.00
 KHKI 13.92 255 ePd 34 52.90 1.7
 TSM 14.47 309 ePc 34 58.80 0.8
 WR2 15.86 162 iPc 35 13.50 -1.3
 0.7s 95.00nm 5.3mb

eS 38 03.70
 KKM 16.85 310 iPc 35 26.00 -0.3
 0.9s 49.70nm 4.9mb
 PMG 18.41 105 eP 35 48.00 5.3X
 MBL 18.59 208 iPc 35 43.80 -0.7
 0.4s 5.00nm 4.4mb

OIS 18.64 148 iPd 35 44.80 -0.2
 0.6s 71.00nm 5.4mb
 i 39 08.00

20d 04h

ASPA	19.28 167 iPd	35 52.10 0.6	NEAR COAST OF NORTHERN CALIF. (35)	BTO	27.14 60 eP	38 10.00 0.2		
	0.6s 708.70nm	6.4mb X	<BRK>. ML 3.1 (BRK).	HHC	28.34 60 eP	38 21.40 0.7		
WARB	21.37 186 iPd	36 04.30 -7.9X	FOX	0.44 53 iPd	23 21.54 0.6	WHN	30.60 81 eP	38 41.00 0.2
	0.6s 87.00nm	5.5mb	FHC	0.65 33 iPd	23 25.55 0.4	SNY	37.43 60 eP	39 39.40 -0.1
OLP	25.99 148 eP	36 56.00 0.4		eS	23 34.54		0.8s 10.00nm	4.7mb
	e	41 51.00	WDC	1.49 77 iP	23 38.26 -2.1	OBN	38.38 322 iPc	39 47.00 26km
COOL	26.99 195 eP	37 04.00 -0.7		eS	23 40.84		1.0s *****nm	8.3mb X
MRWA	27.28 206 eP	37 06.50 -0.7	MIN	2.18 87 eP	23 51.12 0.8		e	40 09.00 87kmX
BAL	28.20 203 eP	37 15.00 -0.5	LBFM	2.23 60 eP	23 49.70 -1.4		e	41 15.00
RMO	28.54 141 eP	37 18.60 0.0	ORV	2.38 106 eP	23 51.67 -1.4	CN2	38.91 57 eP	39 52.00 0.1
	e	38 09.70		6 obs. associated			1.0s 17.00nm	4.7mb
KLB	28.70 201 eP	37 19.00 -0.9					esP	40 07.00
MUN	29.61 203 eP	37 24.00 -4.0X	% OCT 20, 1991 05h 26m 05.78±0.85s	MDJ	41.92 56 eP	40 17.80 1.1		
CMS	30.79 151 eP	37 38.90 0.6	40.815 N ± 9.2km 28.073 E ± 6.5km	MLR	43.24 305 ePd	40 29.00 1.3		
	1.1s 13.00nm	4.5mb	DEPTH = 10.0km (geophysicist)	KAF	45.85 329 iP	40 49.00 0.8		
ADE	31.26 165 iPd	37 43.00 0.6	TURKEY (366)		0.7s 10.00nm	4.9mb		
	1.0s 180.00nm	5.7mb		NUR	46.16 326 eP	40 51.40 0.8		
BRS	31.77 137 iPd	37 46.50 -0.4	KGT	0.69 238 iPg	26 19.20 -0.2		0.4s 11.80nm	5.2mb
	0.8s 5.50nm	4.2mb		iSg	26 29.00	SOD	47.59 336 iP	41 02.20 0.3
COO	33.38 143 eP	37 59.50 -1.3	ISK	0.79 71 iPg	26 20.50 -0.6	UPP	49.47 324 iP	41 16.77 0.3
BWA	34.44 151 iPd	38 12.10 2.4	DMK	1.03 347 iPg	26 25.60 0.3	HFS	51.46 325 eP	41 31.50 -0.2
BFD	34.44 161 ePd	38 08.60 -1.1		iSg	26 40.10		0.6s 23.30nm	5.3mb
	0.9s 44.00nm	5.1mb	IZI	1.17 114 ePn	26 28.20 0.5	NB2	52.74 326 P	41 39.90 -1.5
NST	35.23 306 eP	38 20.00 3.5X	HRT	1.21 89 ePn	26 28.30 -0.1		0.8s 10.90nm	4.8mb
CAN	35.44 151 eP	38 19.70 1.6		S.D. = 0.6 on 5 of 5 obs.		BSF	56.18 310 eP	42 06.10 -0.6
TOO	35.84 158 iPc	38 24.00 2.6					0.7s 5.50nm	4.7mb
KHT	36.03 303 iPc	38 23.70 0.4	OCT 20, 1991 05h 32m 26.85±0.22s	HAU	56.44 310 eP	42 07.90 -0.6		
WHN	37.92 339 Pd	38 40.00 1.1	30.790 N ± 4.9km 78.686 E ± 3.4km		0.7s 6.60nm	4.8mb		
	1.0s 31.00nm	4.8mb	DEPTH = 26.5km (3 depth phases)	LPG	56.65 307 iPc	42 10.00 -0.3		
CHG	37.93 309 iPc	38 39.90 0.7	4.9mb (39 obs.)		0.5s 5.10nm	4.8mb		
	1.0s 62.00nm	5.1mb	NORTHERN INDIA (308)	LPL	56.66 307 iPc	42 10.10 -0.2		
NJ2	37.97 346 Pd	38 39.50 0.2	ML 5.3 (NDI).		0.5s 7.30nm	5.0mb		
	1.0s 29.00nm	4.8mb		LBF	58.22 309 eP	42 20.30 -0.7		
GYA	37.98 326 iPc	38 39.80 0.2	NDI	2.46 212 iPnd	33 08.50 2.5		0.9s 9.85nm	4.9mb
	1.0s 24.00nm	4.7mb		iSn	33 40.50	SMF	58.39 309 iPc	42 21.30 -0.9
KMI	39.32 320 eP	38 51.00 0.2	GKN	5.89 117 P	33 54.60 -0.2		0.9s 12.30nm	5.0mb
CD2	43.04 327 eP	39 20.20 -0.7	DMN	6.44 118 P	34 02.60 -0.1	SSF	58.52 309 iPc	42 22.40 -0.7
XAN	43.13 335 P	39 20.30 -1.3	KKN	6.49 116 P	34 02.40 -0.9		0.7s 4.95nm	4.7mb
	0.9s 17.00nm	4.5mb	PKI	6.70 117 P	34 06.00 -0.3	AVF	58.68 309 iPc	42 23.40 -0.8
TIY	45.10 341 eP	39 36.20 -1.0	GUN	6.90 113 P	34 07.50 -1.7		0.7s 4.40nm	4.7mb
BJI	46.22 346 eP	39 45.00 -0.9	KSH	8.92 346 P	34 38.00 0.8	BGF	59.07 309 iPc	42 27.00 0.1
	1.0s 9.00nm	4.1mb		S	36 16.20		0.8s 5.35nm	4.7mb
LZH	47.11 332 iPc	39 53.00 -0.1	QUE	10.14 270 eP	34 52.50 -1.6	MAF	59.34 308 iPc	42 28.60 -0.2
	1.6s 52.00nm	4.6mb		eS	36 56.50		0.7s 5.50nm	4.8mb
GTA	51.69 331 iPc	40 43.00 232km	LSA	10.83 93 P	35 04.00 0.2	TCF	59.57 309 iPc	42 30.20 -0.2
	1.0s 34.00nm	4.8mb		S	37 08.40		0.8s 7.40nm	4.9mb
	pP	41 19.00 231km	SHL	12.75 111 iP	35 24.00 -5.3X	CAF	60.00 307 iPc	42 33.30 -0.1
GUN	52.92 310 P	40 36.80 -0.5		iS	37 40.20		0.8s 4.05nm	4.6mb
PKI	53.10 310 P	40 37.80 -0.9	POO	12.97 201 iPc	35 27.20 -4.9X	LSF	60.03 309 eP	42 32.90 -0.6
KKN	53.31 310 P	40 39.00 -1.1		0.8s 19.40nm	5.3mb		0.7s 4.40nm	4.7mb
	0.9s 53.00nm	5.1mb	BOM	12.98 206 iPc	35 29.20 -3.0X	LDF	60.54 312 iPc	42 36.30 -0.6
DMN	53.35 310 P	40 39.80 -0.7		eS	37 49.20		0.6s 3.60nm	4.7mb
	1.0s 76.00nm	5.2mb	HYB	13.31 181 ePc	35 31.00 -5.7X	FLN	60.73 312 eP	42 37.30 -0.9
HYB	54.64 295 iPc	40 48.20 -1.4		0.6s 40.00nm	5.6mb		0.8s 5.35nm	4.7mb
	1.0s 35.00nm	4.9mb	WMO	14.84 26 P	35 55.90 -0.7	LFF	60.91 307 iPc	42 39.50 0.0
WMO	61.14 327 P	41 34.00 -0.4		eS	37 49.50		0.7s 7.70nm	4.9mb
	0.6s 21.00nm	5.0mb		N 12s 0.81um		MFF	61.06 309 eP	42 39.80 -0.7
MAW	76.66 201 eP	43 10.00 1.4		pP	36 01.70		0.6s 3.60nm	4.7mb
ALO	120.66 52 ePKP	50 09.70 1.1		S	38 41.50	GRR	61.07 311 eP	42 39.70 -0.8
	0.8s 1.87nm			SS	38 58.00		0.8s 10.75nm	5.0mb
ANMO	120.66 52 PKP	50 09.20 0.6	MAIO	16.91 294 eP	36 20.00 -3.3X	LPF	61.28 311 iPc	42 41.00 -1.0
ARE	150.59 136 ePKP	51 11.00 7.6X	GTA	19.28 58 P	36 51.20 -1.3		0.6s 4.50nm	4.8mb
PPD	153.30 179 ePKP	51 15.40 8.5X		0.8s 9.00nm	4.1mb	MTD	65.48 230 iPc	43 10.50 0.3
	e	51 28.20		Z 14s 1.05um	3.8mszx	BUL	69.84 230 eP	43 37.50 -0.1
	S.D. = 1.1 on 46 of 53 obs.			E 12s 0.84um		BRW	71.05 16 eP	43 45.00 1.0
				sP	37 06.00	MBC	72.62 4 eP	43 54.00 0.7
? OCT 20, 1991 05h 07m 18.07±3.86s			CD2	21.52 83 eP	37 13.30 -2.6		1.0s 31.00nm	5.3mb
3.806 N ±15.2km 76.993 W ±35.1km				0.6s 35.00nm	5.0mb	WRA	73.50 126 P	43 59.00 -0.3
DEPTH = 33.0km (normal)			LZH	21.62 69 iPc	37 17.00 -0.1		0.5s 7.20nm	5.0mb
COLOMBIA (103)				2.0s 110.00nm	4.9mb	WR2	73.52 126 iPd	43 59.00 -0.4
MD 2.6 (UVC).				Z 14s 0.29um	3.8mszx		0.5s 14.10nm	5.2mb
				N 10s 0.26um		IMA	75.48 19 eP	44 11.10 0.9
ANCC	0.31 156 iPd	07 26.14 0.1		pP	37 24.50 27km	ASPA	75.71 129 iPc	44 11.50 -0.5
	eS	07 32.10		sP	37 27.50		0.6s 9.70nm	5.0mb
CLMC	0.44 80 eP	07 28.12 0.2	CHG	21.88 118 ePc	37 18.50 -1.0	OIS	77.63 123 eP	44 22.00 -0.7
	eS	07 35.50		1.0s 22.50nm	4.6mb		e	45 50.00 389kmX
HOOC	0.49 133 iPd	07 28.69 -0.1	KMI	21.97 99 Pc	37 22.60 1.9	FBA	78.00 18 eP	44 25.20 1.2
	eS	07 36.50	BDT	22.89 121 eP	37 29.50 0.0		0.7s 43.02nm	5.6mb
BUGC	0.74 83 eP	07 32.11 -0.1	KHT	24.24 127 eP	37 44.00 1.4	INK	78.34 12 eP	44 26.00 0.2
HOBC	1.01 57 eP	07 36.02 -0.1	NST	24.73 123 eP	37 52.00 4.6X	PMR	80.16 21 eP	44 36.60 0.8
	S.D. = 0.2 on 5 of 5 obs.						0.7s 53.49nm	5.7mb
& OCT 20, 1991 05h 23m 12.20s			GYA	24.91 93 iPc	37 49.60 0.4	TOA	80.64 20 eP	44 40.30 1.8
40.260 N 124.450 W				1.0s 10.00nm	4.4mb	KIC	81.14 272 P	44 42.20 0.3
DEPTH = 0.0km			XAN	25.69 75 P	37 56.00 -0.4	KDC	81.91 25 e(P)	44 46.50 1.5
				0.8s 58.00nm	5.3mb	RMO	87.88 123 eP	45 17.00 1.6
				pP	38 03.60 27km		S.D. = 0.9 on 68 of 74 obs.	

OCT 20, 1991 05h 35m 21.08± 0.52s
38.389 N ± 5.5km 21.765 E ± 3.3km
DEPTH = 20.6 ± 4.4 km
3.9mb (9 obs.)

GREECE (364)
ML 4.0 (TTG), 3.9 (ATH), MD 3.8
(THE).

AGG	0.77	35	iPg	35	34.53	-1.2
			eSg	35	45.56	
VLS	0.95	257	ePg	35	38.00	-0.7
ATH	1.59	105	ePb	35	49.50	1.2
IGT	1.60	316	iPbc	35	50.66	2.3
			eSb	36	12.24	
LIT	1.80	18	iPbc	35	52.20	0.9
			eSb	36	16.64	
VLI	1.91	150	ePb	35	55.00	2.1
KZN	1.91	0	ePb	35	55.80	2.8X
KEK	2.02	311	ePn	35	54.00	-0.5
PAIG	2.14	44	iPnd	35	55.92	-0.3
			eSn	36	24.84	
FNA	2.41	353	iPnc	36	02.77	2.7
			eSn	36	32.29	
THE	2.42	22	ePnd	36	00.18	0.0
			eSn	36	32.04	
OUR	2.59	41	ePnc	36	02.76	0.1
			eSn	36	35.50	
SOH	2.72	26	iPnc	36	05.25	0.7
			eSn	36	39.74	
KNT	2.90	17	iPnc	36	07.82	0.8
			eSn	36	43.24	
VAY	2.99	12	iPn	36	09.00	0.7
SRS	3.07	27	ePnc	36	09.41	0.0
			eSn	36	47.68	
LCI	3.54	305	P	36	15.30	-0.7
			eSn	36	59.10	
SKO	3.59	356	iPn	36	19.60	2.8X
			i	36	23.00	
			iSn	37	01.80	
			Lg	37	13.70	
PRK	3.62	75	ePn	36	18.80	1.5
EZN	3.83	67	ePn	36	18.40	-1.7
RDO	4.00	45	ePn	36	21.20	-1.4
ULC	4.06	332	iPnd	36	24.20	0.8
			iSn	37	14.06	
ALN	4.15	51	ePnd	36	24.48	-0.2
ROI	4.22	288	P	36	26.30	0.5
BRT	4.31	307	P	36	27.70	0.7
			eSn	37	20.00	
IZM	4.32	88	ePn	36	27.50	0.3
NPS	4.39	134	ePb	36	32.50	4.3X
PVY	4.42	343	iPnc	36	31.02	2.4
			iSn	37	26.14	
ACI	4.45	284	P	36	30.70	1.7
TTG	4.47	335	iPnd	36	30.12	0.9
			iSn	37	24.62	
CZI	4.48	282	P	36	30.50	1.1
CSI	4.48	290	P	36	30.50	1.0
BDV	4.49	331	iPnd	36	29.68	0.1
			iSn	37	23.40	
SOI	4.51	268	P	36	30.10	0.3
			eSn	37	23.70	
IVA	4.70	343	iPnd	36	34.96	2.3
			iSn	37	33.12	
MMN	4.73	290	P	36	36.60	3.6X
KGT	4.76	63	ePn	36	33.20	-0.2
HCY	4.76	329	iPnd	36	32.58	-0.8
			iSn	37	28.78	
MFT	4.89	59	ePn	36	32.00	-3.3X
NKY	4.89	335	iPnc	36	35.98	0.6
			iSn	37	34.28	
ATN	4.96	269	P	36	36.00	-0.3
MGR	5.13	292	P	36	38.90	0.3
			eSn	37	39.50	
BRY	5.13	332	iPnc	36	38.38	-0.4
			iSn	37	38.38	
PLE	5.25	341	iPnc	36	41.76	1.3
			iSn	37	44.32	
DST	5.48	75	iP	36	42.90	-0.8
MEU	5.57	259	P	36	44.00	-0.9
KHL	6.10	88	eP	36	50.00	-2.4
DUI	6.49	303	P	36	58.50	0.6
GPA	6.89	71	iP	37	02.90	-0.6
SDI	6.94	301	P	37	04.60	0.4
BZS	7.22	359	eP	37	08.00	0.0
MLR	7.75	22	ePd	37	15.50	-0.1

VRI	8.33	25	iPc	37	25.00	1.4
ASS	8.34	307	P	37	23.70	-0.1
ARV	8.40	310	P	37	23.30	-1.3
VBY	8.60	328	ePn	37	26.00	-1.3
			iSn	39	01.60	
PTJ	8.65	332	eP	37	26.70	-1.4
VOY	9.61	325	e(Pn)	37	39.10	-2.2
PSZ	9.62	352	ePn	37	42.70	1.2
FVI	10.54	324	P	37	52.00	-1.9
CTI	10.71	319	P	37	53.50	-2.9
WTTA	11.56	323	iPc	38	06.50	-1.6
	0.4s	4.90nm		5.1mb	X	
		i(S)	40	13.50		

KHC	12.25	334	eP	38	22.00	4.8X
		e	40	36.50		
LPG	13.23	307	eP	38	29.60	-1.0
	0.9s	4.90nm		4.6mb		
LPL	13.25	307	eP	38	29.50	-1.3
SMF	15.56	308	eP	39	05.00	4.3X
	0.9s	6.55nm		3.9mb		
LBF	15.62	309	eP	39	06.20	4.6X
	0.9s	7.35nm		3.9mb		
LOR	15.82	310	eP	39	08.40	4.2X
	0.7s	2.75nm		3.5mb		
AVF	15.92	308	eP	39	10.40	5.0X
	0.9s	7.35nm		3.8mb		
SSF	15.94	309	eP	39	10.00	4.3X
	0.9s	12.30nm		4.0mb		
BGF	16.14	306	eP	39	13.00	4.7X
	0.9s	8.20nm		3.9mb		
HFS	22.36	349	eP	40	18.10	-0.8
	0.4s	1.70nm		3.9mb		
NB2	23.62	347	P	40	29.40	-1.9
	0.7s	1.80nm		3.7mb		
EKA	23.83	323	P	40	34.00	0.7
	2.2s	146.30nm		5.1mb	X	
S.D. = 1.3 on 62 of 74 obs.						

? OCT 20, 1991 05h 42m 54.88± 6.64s
46.749 N ± 17.6km 4.250 E ± 40.0km
DEPTH = 5.0km (geophysicist)
FRANCE (538)
ML 1.8 (LDG).

LBF	0.30	321	Pg	43	01.60	0.6
			Sg	43	07.80	
SMF	0.30	250	Pg	43	01.20	0.2
			Sg	43	07.00	
LOR	0.59	332	Pg	43	06.20	-0.4
			Sg	43	15.40	
SSF	0.60	302	Pg	43	07.00	0.0
			Sg	43	16.40	
AVF	0.62	274	Pg	43	07.00	-0.4
			Sg	43	16.40	
S.D. = 0.6 on 5 of 5 obs.						

OCT 20, 1991 05h 46m 50.99± 0.35s
12.489 N ± 5.7km 87.890 W ± 4.3km
DEPTH = 79.3km (5 depth phases)
4.7mb (13 obs.)
NEAR COAST OF NICARAGUA (74)

VSM	1.01	338	iPc	47	10.50	-0.1
QZA	1.49	314	iPc	47	16.50	-0.1
SJAS	1.71	313	iPd	47	20.00	0.4
LFU	1.73	317	iPd	47	20.20	0.4
VSS	1.81	314	iPc	47	21.80	0.8
YPE	2.38	313	iPc	47	29.40	0.6
TPX	4.88	300	iP	48	04.60	1.1
			iS	48	55.80	
SCX	6.24	313	(P)	48	26.20	3.8X
UPA	8.92	112	iPc	49	00.00	0.7
SPJ	11.37	60	eP	49	33.21	0.7
BBJ	11.80	59	eP	49	40.01	1.8
STH	12.04	61	eP	49	42.90	1.5
GWJ	12.11	61	eP	49	44.36	2.0
PPM	12.23	304	iP	49	46.70	2.4
III	12.60	299	(P)	49	50.60	1.7
ANCC	14.09	128	ePc	50	09.87	1.6
CLMC	14.09	126	ePc	50	09.56	1.1
HOBC	14.15	124	eP	50	08.51	-0.7
HOQC	14.30	128	ePc	50	11.71	0.5
BUGC	14.33	126	ePc	50	12.43	0.9
CUMC	15.16	138	ePc	50	25.64	3.0X
PURC	15.24	131	eP	50	26.72	3.0X
BMG	15.56	109	iPd	50	28.00	0.8
BOG	15.74	119	eP	50	34.00	4.2X

SDV	17.33	100	eP	50	48.90	-0.6
CEOS	19.52	98	iP	51	12.10	-2.8
LLAV	20.76	93	iP	51	26.10	-1.6
MGP	20.80	72	P	51	29.00	1.0
OLLA	20.82	95	iP	51	26.80	-1.6
MCP	20.87	71	P	51	28.70	0.0
PORP	21.23	72	P	51	32.00	-0.3
CLLP	21.29	72	(P)	51	32.70	-0.2
HBF	21.48	17	P	51	37.10	2.4
SGS	21.69	17	P	51	37.10	0.3
SJG	21.69	72	P	51	37.20	0.2
CPD	21.90	73	P	51	39.30	0.3
GUAN	21.96	94	iP	51	38.40	-1.4
PRM	22.08	12	P	51	41.00	0.3
PWLA	22.39	360	P	51	43.70	0.0
JSC	22.52	14	P	51	45.70	0.8
LHS	22.82	15	P	51	48.70	0.8
OLY	23.14	353	P	51	50.80	-0.2
GBTN	23.31	8	P	51	53.50	0.8
TKL	23.37	8	P	51	53.90	0.7
VVO	23.83	344	eP	51	57.10	-0.6
LST	23.99	356	P	51	58.60	-0.6
MEO	24.23	338	iPc	52	01.50	-0.1
SIO	24.37	343	eP	52	03.00	0.0
TUL	24.39	344	eP	52	01.50	-1.6
	0.6s	49.20nm			5.1mb	
Z	22s	0.43um			3.9msz	
		eS	56	27.00		
		eLR	58	58.00		
RLO	24.43	346	eP	52	04.10	0.5
ELC	24.72	357	P	52	05.10	-1.1
FVM	25.49	355	P	52	12.00	-1.5
	0.9s	21.19nm			4.6mb	
		pP	52	30.60	83km	
NAV	25.53	13	P	52	13.70	-0.2
PAG	25.64	79	eP	52	10.00	-5.1X
ACO	26.14	339	iPc	52	19.80	0.3
CVL	26.75	17	P	52	24.40	-0.6
ALQ	27.98	326	eP	52	36.80	0.3
	1.0s	7.50nm			4.3mb	
ANMO	27.98	326	P	52	37.40	0.9
	0.8s	7.46nm			4.4mb	
LVNJ	30.48	20	P	52	57.80	-0.6
GOL	31.20	333	P	53	04.50	-0.6
	0.8s	8.93nm			4.6mb	
		pP	53	24.50	87km	
PLM	33.62	313	P	53	29.00	2.8X
MSU	33.73	324	P	53	27.90	0.7
RSSD	34.44	339	P	53	33.40	0.2
	0.7s	17.30nm			5.1mb	
DAU	34.58	328	P	53	35.20	0.7
BW06	35.54	332	P	53	42.30	-0.3
	0.7s	5.85nm			4.6mb	
HVU	36.36	328	P	53	49.70	0.3
PTI	36.95	330	P	53	54.60	0.2
BONR	37.12	318	P	53	57.70	1.8
HPI	37.93	330	P	54	03.60	0.9
SIV	38.79	136	P	54	10.70	0.9
LRM	39.22	333	iPc	54	13.90	0.5
ORV	40.08	318	P	54	22.90	2.6X
SES	42.28	338	ePc	54	38.00	-0.2
NEW	43.17	332	P	54	44.40	-1.1
	0.7s	20.00nm			5.1mb	
DPW	43.40	330	P	54	47.10	-0.3
FFC	43.57	348	iPc	54	47.70	-0.9
	0.6s	24.00nm			5.2mb	
LON	44.50	327	P	54	56.00	-0.3
RMW	44.94	328	P	54	58.80	-1.0
PNT	45.08	331	ePc	55	01.00	0.2
BMW	45.10	326	P	55	00.60	-0.4
GMW	45.52	327	P	55	03.20	-1.1
MCW	46.25	328	P	55	09.60	-0.5
PGC	46.55	328	eP	55	12.00	-0.3
BAO	48.37	124	e(P)	55	27.00	-0.2
PPD	49.64	133	eP	55	35.60	-1.1
YKA	53.46	345	eP	56	02.90	-2.0
	0.6s	5.10nm			4.7mb	
INK	63.04	343	eP	57	09.00	-2.6
		pP	57	28.50	75km	
PMR	65.58	333	P	57	26.00	-2.2
MBC	65.92	352	ePc	57	28.00	-2.2
	1.0s	16.00nm			4.9mb	
		pP	57	48.00	76km	
FBA	66.22	336	P	57	29.90	-2.4
	0.8s	6.90nm			4.6mb	
		pP	57	49.80	76km	
KIC	81.98	85	P	59	00.60	-3.6X

NB2 83.54 29 P 59 07.90 -3.5X
0.9s 2.90nm 4.3mb
RMO 125.21 246 ePKP 05 49.30 4.6X
0.5s 5.00nm
WR2 138.84 254 iPKPd 06 14.20 3.5X
0.4s 19.00nm
ASPA 138.89 248 iPKPc 06 06.60 -4.2X
0.6s 2.70nm
GUN 139.39 8 PKP 06 00.00 -12.0X
WARB 144.81 242 ePKP 06 22.00 0.9
CHG 148.17 348 ePKP 06 27.20 0.5
KHT 152.15 346 ePKP 06 40.00 7.2X
S.D. = 1.1 on 85 of 99 obs.

? OCT 20, 1991 06h 01m 43.65±0.95s
16.753 N ±11.9km 147.075 E ±29.9km
DEPTH = 33.0km (normal)
4.6mb (4 obs.)

MARIANA ISLANDS REGION

(215)

GUMO 3.80 214 eP 02 41.70 0.4
eS 03 24.00
PJG 3.80 214 eP 02 42.50 1.2
GUA 3.82 213 eP 02 41.50 -0.1
MAT 21.22 340 eP 06 28.00 -0.9
0.9s 8.40nm 4.1mb
YAMJ 22.22 345 eP 06 39.90 1.0
QIS 37.80 191 iPd 08 58.50 -0.3
WR2 38.55 199 iPd 09 04.50 -0.7
0.4s 5.00nm 4.7mb
ASPA 42.18 198 iPc 09 36.10 1.0
0.6s 6.90nm 4.6mb
WARB 47.08 205 eP 10 13.50 -0.9
INK 70.64 23 eP 12 58.00 0.4
MBC 74.70 14 eP 13 23.50 2.1
1.0s 9.00nm 4.7mb
KIC 143.89 307 PKP 21 15.00 -3.3
S.D. = 1.5 on 12 of 12 obs.

? OCT 20, 1991 07h 15m 02.85±0.96s
31.366 S ±26.1km 68.498 W ±33.8km
DEPTH = 90.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 0.04 34 iPc 15 15.80 -0.2
RTCB 0.28 245 iPd 15 16.50 0.0
S 15 28.00
CFA 0.33 137 ePc 15 16.80 0.1
S 15 28.20
RTRS 1.45 325 iPc 15 28.40 0.1
S 15 47.40
S.D. = 0.2 on 4 of 4 obs.

? OCT 20, 1991 07h 56m 31.74±0.87s
30.847 N ±12.8km 78.777 E ±7.8km
DEPTH = 33.0km (normal)
4.2mb (2 obs.)

NORTHERN INDIA

(308)

NDI 2.55 213 ePnd 57 11.60 0.0
GKN 5.84 118 P 57 59.50 1.0
DMN 6.40 119 P 58 06.80 0.3
KKN 6.44 117 P 58 06.60 -0.4
PKI 6.65 118 P 58 09.80 -0.2
GUN 6.85 114 P 58 12.20 -0.7
POO 13.05 201 eP 59 29.00 -8.5X
iS 01 50.00
HYB 13.37 181 eP 59 34.70 -7.0X
eS 02 02.20
MAIO 16.96 294 eP 00 20.00 -8.1X
HFS 51.46 325 eP 05 35.70 0.1
0.4s 1.40nm 4.3mb
WR2 73.49 126 iPd 08 03.10 0.0
0.9s 2.40nm 4.2mb
S.D. = 0.6 on 8 of 11 obs.

? OCT 20, 1991 09h 24m 32.31±0.94s
39.146 N ±7.7km 27.542 E ±9.3km
DEPTH = 10.0km (geophysicist)

TURKEY

(366)

I ZM 0.78 196 ePg 24 47.50 0.0
eSg 25 00.50
DST 0.96 61 iPn 24 50.60 0.0
EZM 1.16 306 ePn 24 54.00 0.0
KGT 1.32 352 ePn 24 56.60 0.0
S.D. = 0.0 on 4 of 4 obs.

? OCT 20, 1991 09h 25m 17.39±0.96s
39.119 N ±8.4km 27.632 E ±9.5km
DEPTH = 10.0km (geophysicist)

TURKEY

(366)

I ZM 0.78 202 ePg 25 32.50 0.0
eSg 25 43.20
DST 0.91 57 iPn 25 35.00 0.1
EZM 1.23 305 ePn 25 40.50 0.2
KGT 1.36 349 ePn 25 42.00 -0.3
S.D. = 0.4 on 4 of 4 obs.

? OCT 20, 1991 09h 30m 38.71±0.85s
22.815 S ±18.3km 171.405 E ±15.0km
DEPTH = 33.0km (normal)
4.5mb (5 obs.)

LOYALTY ISLANDS REGION

(189)

DZM 4.65 278 iPd 31 49.10 0.6
iS 42 49.90
RMO 20.90 255 eP 35 24.30 3.5X
0.8s 14.00nm 4.4mb
CNB 22.88 232 eP 35 43.00 2.4
CAN 23.15 232 eP 35 42.80 -0.4
BWA 23.20 235 eP 35 41.40 -2.3
CMS 24.30 244 eP 35 57.60 3.3X
0.9s 14.00nm 4.5mb
PMG 26.78 296 eP 36 17.00 -0.7
ASPA 34.41 261 iPd 37 25.10 -0.2
0.7s 7.70nm 4.7mb
WR2 34.55 268 iPc 37 25.60 -0.9
1.1s 1.60nm 3.9mb
SPA 67.32 180 iPd 41 31.80 -0.6
1.0s 11.00nm 4.9mb
IPM 73.84 282 ePc 42 12.00 -0.4
CHG 81.96 294 eP 42 58.50 1.5
FBA 92.91 16 P 43 46.60 -2.5
SPC 145.21 326 ePKP 50 14.20 -0.5
KSP 145.98 332 ePKP 50 15.50 -0.2
BRG 146.95 334 ePKP 50 19.00 1.8
CLL 147.00 335 ePKP 50 18.00 0.8
PRU 147.37 332 ePKP 50 19.50 1.6
e 50 29.00
ZST 147.44 327 ePKP 50 20.50 2.4X
KHC 148.43 332 PKP 50 22.50 2.8X
e 50 36.00
SKO 148.49 314 ePKP 50 22.70 2.7X
S.D. = 1.5 on 16 of 21 obs.

? OCT 20, 1991 09h 39m 43.26±3.48s
40.712 N ±45.8km 21.397 E ±13.5km
DEPTH = 10.0km (geophysicist)

GREECE

(364)

OHR 0.60 312 ePg 39 55.50 0.0
iSg 40 05.50
GRG 0.80 72 ePg 39 59.04 0.2
eSg 40 11.61
KNT 1.22 68 ePbd 40 05.84 -0.2
SOH 1.49 85 ePbd 40 10.09 0.0
S.D. = 0.3 on 4 of 4 obs.

? OCT 20, 1991 09h 41m 57.27±0.93s
40.813 N ±11.4km 21.451 E ±7.5km
DEPTH = 10.0km (geophysicist)

GREECE

(364)

FNA 0.06 243 iPg 42 00.36 0.7
eSg 42 02.72
OHR 0.58 301 iPg 42 08.50 -0.5
iSg 42 18.30
Lg 42 18.90
VAY 0.99 59 ePn 42 16.40 0.4
LIT 1.07 132 iPg 42 16.84 -0.5
eSg 42 32.76
S.D. = 1.1 on 4 of 4 obs.

OCT 20, 1991 09h 51m 27.81±0.16s
33.336 N ±3.2km 135.247 E ±3.0km
DEPTH = 40.9km (8 depth phases)
5.2mb (58 obs.) 4.8msz (7 obs.)
NEAR S. COAST OF WESTERN HONSHU (233)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN

L.P.B.: 19S, 35C
Centroid Location:
Origin Time 09:51:31.8 0.6
Lat 33.57N 0.05 Lon 135.04E 0.05
Dep 45.3 3.5 Half-duration 1.3
Moment Tensor: Scale 10**16 Nm
Mrr=-6.33 0.26 Mtt= 4.39 0.46
Mff= 1.95 0.43 Mrt=-0.96 0.51
Mrf=-1.01 0.54 Mtf=-0.51 0.35
Principal Axes:
T Val= 4.54 Plg= 4 Azm=190
N 2.01 8 99
P -6.55 81 308
Best Double Couple: Mo=5.6*10**16
NP1: Strike=288 Dip=41 Slip=-78
NP2: 93 50 -100

WKYJ 0.93 18 iP+ 51 44.20 -0.4
S 51 55.00
TKSJ 1.19 303 iP+ 51 48.50 0.3
S 52 02.20
TSRJ 2.28 15 iP+ 52 03.30 -0.5
YONJ 2.37 322 iP+ 52 04.40 -0.7
S 52 31.10
IIDJ 3.07 45 iP+ 52 13.80 -1.3
MAT 4.02 36 iPc 52 27.50 -1.0
eS 53 17.00
MDJ 12.09 340 P 54 22.20 1.9
1.1s 24.00nm 5.2mb
Z 18s 2.27um 4.2msz
N 14s 1.73um
E 12s 0.65um
SSE 12.12 263 P 54 20.00 -0.7
eS 56 35.00
1.0s 25.00nm 5.3mb
Z 20s 2.30um 4.6msz
N 11s 0.70um
E 13s 2.20um
SNY 12.54 316 Pc 54 34.00 0.7
1.2s 20.00nm 5.0mb
Z 24s 1.82um 4.2msz
E 13s 0.97um
sP 54 43.60
S 56 45.00
CN2 12.95 327 Pc 54 34.00 2.3
1.2s 38.00nm 5.3mb
Z 17s 9.68um 4.9msz
N 14s 2.37um
E 14s 1.54um
epP 54 41.00
eS 57 03.00
NJ2 13.87 269 Pc 54 46.50 2.7
Z 17s 1.46um
N 10s 0.62um
E 12s 0.79um
TIA 15.17 286 P 55 02.40 1.6
N 15s 1.95um
E 14s 2.70um
BJI 16.68 299 eP 55 22.00 1.9
Z 15s 3.20um
E 15s 2.35um
WHN 17.95 267 eP 55 33.50 -2.5
1.2s 49.00nm 4.5mb
Z 16s 1.90um 4.2msz
E 15s 2.17um
pP 55 45.50
eS 58 54.00
TIY 19.06 290 Pd 55 50.00 0.4
Z 15s 1.66um
N 13s 0.74um
E 14s 1.19um
sP 56 06.00
HHC 20.29 299 eP 56 02.00 -0.8
1.2s 110.00nm 5.1mb
Z 17s 4.17um 4.9msz
N 12s 0.73um
E 14s 2.19um
pP 56 14.00 52kmX
S 59 50.00
BTO 21.38 297 P 56 13.50 -0.4
1.0s 53.00nm 4.9mb
N 15s 1.47um
E 15s 3.54um
BAG 21.43 222 eP 56 14.90 0.2
eS 00 12.00
GZH 21.80 248 eP 56 18.00 -0.1

XAN	21.90	279 P	56	19.00	-0.2	BAL	65.97	197 eP	02	11.00	-1.0	GOL	88.22	42 P	04	18.10	1.8
	1.0s	84.00nm		5.1mb		SOD	66.36	336 iP	02	10.20	-4.0X		1.2s	4.92nm			4.7mb
N	13s	0.73um				OBN	67.96	322 eP	02	22.20	-2.2	LOR	88.65	329 eP	04	16.80	-1.1
		pP	56	29.40	40km		1.3s	52.00nm			5.4mb	Z	21s	0.47um			4.9Msz
GYA	25.66	262 P	56	49.00			18s	1.40um			5.2Msz	LPL	88.72	327 eP	04	18.00	-0.6
	1.0s	80.00nm		5.2mb		N	18s	0.60um					0.7s	11.60nm			5.3mb
Z	16s	1.73um		4.7MszX		E	20s	1.00um				LPG	88.72	327 eP	04	18.00	-0.7
N	15s	1.12um						e	02	23.50	4 kmX		0.7s	12.15nm			5.3mb
E	15s	1.56um						e	02	28.00		LBF	88.82	329 eP	04	18.40	-0.4
		S	01	18.00				e	02	35.00		SSF	88.96	329 eP	04	18.60	-0.8
LZH	25.90	285 iPd	56	57.00	-0.9	ADE	68.02	177 eP	02	25.50	0.6		0.9s	4.90nm			4.8mb
	2.0s	140.00nm		5.2mb		NWAO	68.06	196 eP	02	24.40	-0.8	LDF	89.23	332 eP	04	19.50	-1.1
Z	16s	1.07um		4.5MszX		BWA	68.53	168 iPd	02	29.20	1.1	FLN	89.23	332 eP	04	19.40	-1.2
E	12s	0.58um						e	02	41.90	44km		0.7s	6.60nm			5.1mb
		sP	57	15.00		KAF	69.21	332 eP	02	30.70	-1.3	Z	21s	0.32um			4.7Msz
CD2	26.73	273 iPd	57	04.80	-0.6	CAN	0.6s	32.90nm			5.5mb	AVF	89.24	329 eP	04	20.10	-0.6
	1.2s	260.00nm		5.7mb			69.50	168 iPd	02	34.70	0.6		0.8s	8.75nm			5.1mb
Z	16s	1.07um		4.5MszX		NUR	70.76	331 iP	02	40.30	-1.1	GRR	89.68	332 eP	04	22.30	-0.4
E	15s	1.32um					0.6s	19.20nm			5.3mb	MAF	90.02	329 eP	04	24.30	-0.1
		sP	57	23.00		TOO	71.19	171 eP	02	45.00	0.7		1.0s	14.00nm			5.2mb
GTA	29.04	292 iPd	57	25.40	-0.9	UPP	73.96	332 iP	02	59.40	-0.9	LPF	90.04	332 eP	04	23.90	-0.5
	1.0s	31.00nm		4.9mb		PNT	74.30	41 eP	03	02.00	-0.6		0.9s	13.10nm			5.2mb
Z	16s	1.91um		4.8MszX		HFS	75.27	334 eP	03	06.70	-1.2	TCF	90.12	330 eP	04	24.40	-0.5
E	15s	2.30um					0.6s	32.20nm			5.5mb	LSF	90.44	330 eP	04	25.70	-0.6
		PcP	00	33.80		Z	16s	0.30um			4.7MszX		0.8s	12.10nm			5.3mb
		S	02	08.00				LR	36	47.00		ANMO	90.81	46 P	04	29.30	0.8
CHG	35.47	255 eP	58	23.00	0.5	NB2	75.54	335 P	03	06.70	-2.8		1.2s	15.63nm			5.3mb
	1.0s	35.50nm		5.3mb			1.0s	30.00nm			5.2mb	ALQ	90.81	46 eP	04	29.00	0.5
BDT	36.26	253 eP	58	29.80	0.7	DPW	75.89	42 P	03	11.70	-0.1		1.0s	11.25nm			5.2mb
LSA	37.56	277 P	58	41.80	1.2	NEW	76.26										

CD2	19.30	306	eP	21	55.80	-0.5	CNPM	0.21	79	iPc	44	23.94	-0.3	AEGEAN SEA				(365)		
	1.0s	47.00nm				4.7mb				eS	44	30.44		MD 3.5 (ATH).						
N	10s	0.72um					NNL	0.58	17	iPc	44	28.69	0.6	EZN	0.64	123	iPg	00	00.30	-0.5
BJI	19.97	347	eP	22	02.00	-1.4	AUE	0.90	263	ePd	44	31.56	-0.7				iSg	00	08.50	
	0.8s	11.00nm				4.2mb	AUP	0.92	263	eP	44	32.30	-0.4	ALN	0.79	24	ePg	00	03.07	-0.4
SNY	21.17	3	eP	22	15.80	-0.1				iS	44	45.07					eSg	00	14.19	
Z	14s	0.53um				4.1MsZx	AUL	0.92	264	ePd	44	32.04	-0.6	RDO	0.97	356	ePgc	00	06.00	-0.6
		S		26	05.50		INE	0.92	309	iPc	44	31.53	-1.3	PRK	1.05	152	ePgc	00	08.50	0.5
MAT	21.27	38	eP	22	21.00	4.0X				eS	44	44.53					eSg	00	24.00	
	1.0s	9.00nm				4.2mb	AGU	0.93	263	eP	44	32.40	-0.4	OUR	1.27	278	ePbc	00	10.83	-0.9
CHG	21.74	269	eP	22	24.90	3.1X	AUI	0.93	261	ePd	44	31.85	-0.8				eSb	00	28.66	
CHTO	21.74	269	P	22	23.50	1.7				eS	44	44.62		KGT	1.31	77	iPg	00	12.00	-0.3
HHC	22.01	339	eP	22	24.40	0.0	AUH	0.93	263	ePd	44	32.26	-0.6	PAIG	1.52	261	ePbc	00	14.67	-0.7
LZH	22.11	318	eP	22	25.50	0.0				eS	44	45.25					eSb	00	34.71	
	1.5s	31.00nm				4.5mb	INW	0.96	308	ePc	44	32.06	-1.1	EDC	1.72	84	iPn	00	18.50	0.2
Z	15s	0.44um				4.0MsZx				eS	44	45.11		SRS	1.81	302	ePbd	00	19.69	0.0
N	10s	0.26um					SYI	0.96	204	ePd	44	32.10	-1.0				eSb	00	44.67	
		pP		22	31.00	20km				S	44	45.43		SOH	1.85	291	ePbd	00	21.16	0.9
		sP		22	34.50		RED	1.10	329	eP	44	34.30	-0.8				eSb	00	45.16	
		eS		26	26.00					eS	44	48.88		IZM	2.18	144	iPn	00	25.60	0.6
BTO	22.36	336	eP	22	28.00	0.1	RS1	1.13	331	iPc	44	34.96	-0.7	KNT	2.30	296	ePnc	00	25.94	-0.8
CN2	23.28	6	eP	22	38.00	1.2	RSO	1.13	331	iPc	44	34.98	-0.7				eSn	00	57.87	
Z	16s	1.16um				4.4MsZx				eS	44	49.58		DMK	2.30	44	ePn	00	26.50	-0.2
IPM	25.87	235	ePd	23	04.00	2.2X	RS2	1.13	331	iPc	44	35.02	-0.7	DST	2.38	103	iPn	00	27.50	-0.3
GTA	26.67	319	eP	23	09.40	0.2				iS	44	50.34		LIT	2.41	269	ePnd	00	28.00	-0.3
	1.0s	10.00nm				4.4mb	REF	1.14	332	iPc	44	50.59	-0.7	VAY	2.59	297	ePn	00	32.00	1.2
Z	14s	0.41um				4.1MsZx				iS	44	50.59		ISK	2.76	70	ePn	00	33.00	-0.2
E	11s	0.32um					RDW	1.16	330	iPc	44	35.28	-0.9	AGG	2.80	247	ePnc	00	33.12	-0.7
		pP		23	17.40	28km				eS	44	50.84		YLV	2.89	81	ePn	00	35.00	-0.1
GUN	33.59	290	P	24	12.40	1.3	CDD	1.17	243	eP	44	35.24	-0.9	IZI	2.95	86	ePn	00	35.70	-0.2
KKN	34.11	289	P	24	16.60	1.1				eS	44	49.80		KZN	2.96	274	ePb	00	51.00	14.9X
DMN	34.26	289	P	24	18.20	1.5	RDN	1.18	332	iPc	44	35.55	-0.7	HRT	3.15	77	ePn	00	38.00	-0.7
GKN	34.70	290	P	24	20.80	0.4	DFR	1.23	335	ePc	44	36.27	-0.7	KHL	3.54	120	ePn	00	45.00	0.6
HYB	41.08	273	eP	25	16.00	2.2X	SLKM	1.25	34	iPc	44	37.25	0.0	GPA	3.58	87	ePn	00	44.70	-0.3
WR2	42.12	162	iPc	25	21.70	-0.5	NCT	1.26	330	eP	44	36.79	-0.6	SKD	3.64	301	ePn	00	58.00	12.2X
	0.6s	2.20nm				4.1mb	SEW	1.27	60	eP	44	37.69	0.3	MLR	5.32	2	eP	01	11.00	1.4
ASPA	45.54	165	iPd	25	50.80	1.0	NKA	1.28	9	iPc	44	39.31	1.8	S.D. = 0.7 on 24 of 26 obs.						
	1.1s	5.70nm				4.4mb	PDB	1.33	284	eP	44	37.41	-0.9	& OCT 20, 1991 16h 47m 01.80s						
WARB	46.76	174	eP	25	59.00	-0.4	SPU	1.72	353	eP	44	44.01	0.2	36.815 N 121.282 W						
FBA	71.63	27	P	28	51.20	-0.1	CKL	1.75	349	ePd	44	44.14	-0.2	DEPTH = 9.0km						
INK	76.24	22	eP	29	17.00	-0.9	CRP	1.81	352	eP	44	45.14	0.0	CENTRAL CALIFORNIA				(39)		
MBC	76.55	12	eP	29	19.00	-0.6	BGL	1.82	348	eP	44	45.50	0.1	<BRK>. ML 3.3 (BRK).						
NB2	81.69	333	P	29	46.00	-1.6	CGLM	1.84	354	eP	44	45.67	0.1	SAD	0.14	249	iPd	47	05.34	0.3
	0.8s	2.10nm				4.2mb	NGC	1.94	353	eP	44	47.29	0.2	LLA	0.34	126	iPc	47	08.20	-0.5
S.D. = 1.2 on 25 of 29 obs.							PMS	2.04	29	ePc	44	48.28	-0.2	PRS	0.49	188	iPd	47	11.23	-0.4
% OCT 20, 1991 11h 47m 25.36 ± 1.15s							KNIM	2.15	65	eP	44	48.67	-1.2	ARN	0.57	339	iPd	47	12.82	-0.5
39.709 N ± 18.8km 31.201 E ± 7.0km							PLRM	2.45	29	ePc	44	53.33	-0.8	MHC	0.60	331	ePc	47	13.50	-0.4
DEPTH = 10.0km (geophysicist)							KNK	2.50	38	eP	44	54.03	-0.8				eS	47	24.20	
TURKEY (366)							GHO	2.66	29	eP	44	56.45	-0.7	GCC	0.61	291	iPc	47	13.15	-1.0
GPA	0.90	310	iPn	47	43.00	0.4	GLI	2.67	56	eP	44	56.32	-0.9				eS	47	21.65	
BBTK	1.21	83	iPg	47	48.00	0.0	MID	2.71	89	eP	44	58.00	0.3	PRI	0.84	143	eP	47	17.75	-0.4
			eSg	48	08.00		SML	2.84	33	ePc	44	59.12	-0.7				eS	47	31.48	
IZI	1.47	296	ePn	47	51.70	-0.2	FID	2.88	62	eP	44	59.01	-1.2	PCC	1.11	308	iPc	47	20.95	-1.8
HRT	1.62	314	ePn	47	53.50	-0.5	VZW	2.98	56	eP	45	00.09	-1.7				eS	47	37.90	
YLV	1.64	302	iPn	47	54.70	0.3	CUT	3.00	12	ePc	45	02.00	0.0	PKEM	1.21	128	eP	47	24.14	-0.3
DST	1.99	268	ePn	47	59.50	0.0	VLZ	3.11	56	eP	45	01.93	-1.6	PHAM	1.21	144	eP	47	23.20	-1.2
S.D. = 0.4 on 6 of 6 obs.							45 obs. associated						FRI	1.27	82	iPc	47	24.32	-1.2	
% OCT 20, 1991 13h 35m 03.49 ± 1.03s							OCT 20, 1991 15h 25m 08.63 ± 0.86s									eS	47	40.88		
37.866 N ± 10.1km 15.599 E ± 9.4km							40.884 N ± 6.7km 20.935 E ± 7.7km						ZSP	1.37	326	ePd	47	25.40	-1.6	
DEPTH = 29.7 ± 10.0 km							DEPTH = 10.0km (geophysicist)						CMB	1.41	30	ePd	47	26.37	-1.3	
SICILY (398)							GREECE-ALBANIA BORDER REGION (392)									eS	47	44.42		
ATN	0.31	340	Pd	35	11.10	0.0	ML 3.0 (SKD).						BCH	1.89	149	eP	47	32.73	-2.0	
			eSg	35	17.70		OHR	0.25	336	iPg	25	13.40	-0.6	NWRM	2.08	323	eP	47	33.81	-3.4
SOI	0.41	60	P	35	12.80	0.2				iSg	25	19.10		BONR	2.63	63	eP	47	46.86	1.4
			eSg	35	19.50		FNA	0.35	106	ePg	25	14.72	-1.1	ORV	2.74	356	eP	47	46.03	-0.7
MNO	0.72	275	P	35	17.80	0.2				iSg	25	20.97					e	48	33.16	
			eSg	35	28.70		SKO	1.15	19	ePn	25	30.40	0.2	KVN	3.36	47	e(P)	47	57.63	1.9
MEU	0.93	215	Pd	35	20.40	-0.2				iPg	25	31.90		TNP	3.47	67	eP	47	56.93	-0.4
			eSg	35	33.20					iSn	25	49.00		WDC	3.89	346	eP	48	00.04	-2.9
CZI	1.41	17	P	35	27.00	-0.3	VAY	1.31	70	eP	25	33.00	0.1	SSK	3.91	131	eP	48	02.32	-1.2
ROI	1.86	24	P	35	34.00	0.0	LIT	1.42	123	ePb	25	34.48	0.0	LBFM	4.55	354	e(P)	48	09.15	-3.4
S.D. = 0.3 on 6 of 6 obs.										eSb	25	56.00		22 obs. associated						
& OCT 20, 1991 14h 44m 15.80s							IGT	1.43	199	ePb	25	34.88	0.3	OCT 20, 1991 17h 01m 06.29 ± 0.63s						
59.485 N 151.637 W										eSb	25	53.99		31.690 N ± 5.7km 50.138 E ± 9.9km						
DEPTH = 49.0km							KNT	1.51	79	ePb	25	36.81	1.1	DEPTH = 33.0km (normal)						

20d 17h

MJMA 7.20 217 eP 02 53.00 1.0
eS 04 13.00
RYD 7.61 205 eP 02 59.00 1.3
eS 04 10.00
QASM 8.04 228 eP 03 02.00 -1.7
eS 04 28.00
UOSK 9.01 231 eP 03 16.50 -0.6
eS 04 50.00
AFIF 9.75 221 eP 03 32.50 5.2X
eS 05 17.00
S.D. = 1.0 on 10 of 11 obs.

% OCT 20, 1991 17h 14m 29.16 ± 0.72s
40.424 N ± 8.8km 26.084 E ± 6.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ALN 0.47 356 iPc 14 38.21 -0.6
eS 14 45.88
EZN 0.63 163 iPg 14 40.50 -1.2
iSg 14 49.50
KGT 0.93 88 ePg 14 47.00 0.1
EDC 1.36 93 ePn 14 54.50 0.3
OUR 1.61 267 ePc 14 56.72 -0.9
DMK 1.88 42 ePn 15 02.00 0.3
PAIG 1.91 256 ePd 15 04.40 2.4
SRS 2.01 291 ePc 15 05.16 1.6
iS 15 30.21
SOH 2.12 282 ePd 15 10.44 5.4X
eS 15 33.84
DST 2.12 112 ePn 15 05.50 0.4
KNT 2.53 288 ePd 15 08.56 -2.4
S.D. = 1.6 on 10 of 11 obs.

? OCT 20, 1991 17h 39m 26.51 ± 3.52s
31.655 S ± 46.7km 68.931 W ± 42.4km
DEPTH = 90.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTCB 0.20 34 iPd 39 40.00 -0.1
S 39 53.00
RTLL 0.51 51 iPc 39 41.50 -0.1
S 39 54.20
CFA 0.59 86 ePc 39 42.40 0.1
S 39 55.30
RTRS 1.55 343 iPc 39 53.30 0.0
S.D. = 0.2 on 4 of 4 obs.

OCT 20, 1991 17h 50m 22.58 ± 0.29s
40.388 N ± 3.5km 25.925 E ± 2.5km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
MD 3.1 (ATH).

ALN 0.52 10 iPg 50 33.05 0.0
iSg 50 40.78
EZN 0.64 151 iPg 50 35.30 -0.1
eSg 50 44.00
RDO 0.81 339 ePg 50 39.00 0.7
KGT 1.05 86 iPg 50 42.00 -0.4
iSg 50 56.40
MFT 1.11 68 ePn 50 43.00 -0.4
PRK 1.17 167 ePb 50 45.00 0.6
eSb 51 02.00
EDC 1.48 91 ePn 50 49.50 0.2
OUR 1.49 269 iPbc 50 49.33 0.0
eSb 51 08.08
PAIG 1.78 256 ePbd 50 54.01 0.4
eSb 51 17.09
SRS 1.92 293 ePbd 50 55.57 0.0
eSb 51 20.02
DMK 1.99 43 ePn 50 57.00 0.3
SOH 2.00 283 ePnc 50 56.88 0.0
eSn 51 21.98
DST 2.22 110 ePn 51 00.00 0.0
KNT 2.43 290 ePnc 51 02.04 -0.9
LIT 2.64 265 ePnc 51 05.86 -0.2
VAY 2.71 291 ePn 51 13.00 6.0X
IZI 2.71 90 ePn 51 07.00 -0.1
AGG 3.09 245 ePnc 51 12.09 -0.2
S.D. = 0.4 on 17 of 18 obs.

? OCT 20, 1991 18h 04m 13.05 ± 3.28s
40.386 N ± 11.1km 25.935 E ± 28.0km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

EZN 0.63 152 iPg 04 25.80 0.0
eSg 04 34.50
KGT 1.05 86 iPg 04 32.60 -0.2
iSg 04 44.20
MFT 1.10 68 ePg 04 34.00 0.2
DMK 1.99 43 ePn 04 47.00 -0.1
S.D. = 0.3 on 4 of 4 obs.

OCT 20, 1991 18h 32m 30.69 ± 0.79s
45.187 N ± 5.2km 7.345 E ± 7.2km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.4 (GEN), 2.3 (LDG).

RSP 0.07 240 P 32 33.53 0.3
S 32 35.53
LSD 0.30 334 P 32 37.84 0.8
S 32 42.33
BHB 0.35 190 P 32 37.64 -0.3
S 32 42.33
RRL 0.48 236 P 32 39.58 -0.9
S 32 45.20
BNI 0.49 254 Pd 32 39.70 -1.0
eSg 32 45.50
LPG 0.52 307 Pg 32 41.20 -0.1
Sg 32 48.00
LPL 0.54 308 Pg 32 41.60 -0.1
ORX 0.63 45 P 32 42.78 -0.7
S 32 52.77
PZZ 0.70 194 P 32 43.07 -1.6
S 32 53.12
ROB 0.97 157 P 32 48.40 -0.7
S 33 00.93
SBF 1.33 177 Pg 32 59.90 4.7X
Sg 33 19.60
FRF 1.70 197 Pg 33 02.60 2.0
Sg 33 24.40
LRG 1.87 203 Pg 33 05.20 2.2
S.D. = 1.3 on 12 of 13 obs.

* OCT 20, 1991 19h 10m 36.75 ± 0.87s
6.693 S ± 9.2km 146.679 E ± 13.2km
DEPTH = 55.9 ± 9.6 km
3.6mb (2 obs.)
EASTERN NEW GUINEA REG., P.N.G. (207)

LAT 0.32 83 iPc 10 46.30 -0.4
YYYY 0.84 302 eP 10 52.20 -0.6
eS 11 03.50
MDG 1.69 328 eP 11 06.80 2.5
eS 11 31.50
PMG 2.74 170 iPd 11 19.00 -0.2
MNDI 3.05 280 eP 11 22.50 -1.3
QIS 15.39 206 iPd 14 11.30 -0.7
WR2 17.79 221 eP 14 42.80 0.6
0.7s 1.60nm 3.3mb
ASPA 20.87 215 eP 15 18.80 2.2
0.6s 4.10nm 3.9mb
GUN 67.98 304 P 21 32.60 -0.3
KKN 68.43 303 P 21 34.80 -0.7
DMN 68.52 303 P 21 35.60 -0.5
GKN 69.04 303 P 21 38.50 -0.7
S.D. = 1.4 on 12 of 12 obs.

& OCT 20, 1991 19h 19m 39.42s
59.714 N 153.080 W
DEPTH = 97.6km
SOUTHERN ALASKA (2)
<AEIC>.

INE 0.35 1 ePc 19 53.86 -0.5
eS 20 05.36
INW 0.36 356 iPc 19 53.51 -0.9
eS 20 04.83
AUI 0.42 205 eP 19 54.59 0.0
eS 20 05.40
PDB 0.57 278 ePc 19 55.16 -0.5
iS 20 06.93
RED 0.72 12 iPc 19 56.30 -0.9
iS 20 09.33
HOM 0.73 94 eP 19 57.00 -0.1
XLV 0.74 110 eP 19 56.85 -0.4
eS 20 10.22
RS1 0.77 12 iPc 19 56.97 -0.7
iS 20 11.02
RSO 0.77 12 iPc 19 56.99 -0.8
eS 20 11.25

RS2 0.77 12 iPc 19 57.02 -0.7
eS 20 10.96
RDW 0.78 10 iPc 19 57.12 -0.8
REF 0.80 14 iPc 19 57.26 -0.8
eS 20 10.86
RDN 0.82 11 iPc 19 57.49 -0.7
eS 20 10.86
MCNL 0.83 231 eP 19 57.07 -1.1
S 20 10.28
NCT 0.85 5 iPc 19 57.69 -0.8
iS 20 11.60
DFR 0.90 12 ePc 19 58.20 -0.8
RDT 0.93 21 iPc 19 58.33 -0.9
eS 20 12.52
CNPM 0.96 101 ePc 19 58.86 -0.6
eS 20 13.62
NNL 0.96 69 iPc 19 59.86 0.4
BRLK 1.11 86 eP 20 01.13 -0.1
NKA 1.38 41 ePc 20 05.22 0.8
CKL 1.53 14 iPc 20 05.74 -0.7
eS 20 25.72
SPU 1.56 19 eP 20 05.93 -0.8
BGL 1.59 12 ePc 20 06.64 -0.6
CRP 1.62 16 eP 20 06.92 -0.8
SLKM 1.64 60 eP 20 07.34 -0.4
CGLM 1.69 18 ePc 20 07.58 -0.8
NGC 1.76 15 iPc 20 08.59 -0.7
SVW 1.88 319 ePd 20 09.69 -1.2
SUA 2.10 32 eP 20 13.56 -0.3
PMS 2.32 47 ePc 20 15.75 -1.0
PWA 2.50 38 eP 20 18.78 -0.3
PLRM 2.71 44 eP 20 20.44 -1.4
KNIM 2.76 74 ePc 20 20.23 -2.4
KNK 2.85 51 eP 20 21.64 -2.2
GHO 2.90 43 ePc 20 23.14 -1.5
CUT 3.03 26 eP 20 25.73 -0.5
SML 3.14 46 eP 20 25.85 -2.0
GLI 3.20 66 eP 20 27.12 -1.5
FID 3.45 70 eP 20 30.07 -2.0
40 obs. associated

? OCT 20, 1991 19h 20m 58.23 ± 6.40s
4.216 N ± 34.3km 77.011 W ± 50.4km
DEPTH = 33.0km (normal)
NEAR WEST COAST OF COLOMBIA (102)
MD 2.3 (UVC).

CLMC 0.56 127 eP 21 10.10 0.3
eS 21 17.40
ANCC 0.71 168 eP 21 12.07 0.2
eS 21 20.80
HOOC 0.83 153 eP 21 13.36 -0.4
eS 21 23.10
HOBC 0.88 81 eP 21 14.30 -0.1
S.D. = 0.6 on 4 of 4 obs.

OCT 20, 1991 19h 29m 07.59 ± 1.32s
41.265 N ± 10.2km 23.321 E ± 5.7km
DEPTH = 5.0km (geophysicist)
GREECE-BULGARIA BORDER REGION (363)
ML 1.8 (SKO).

SRS 0.25 126 iPg 29 12.65 -0.1
eSg 29 16.65
KNT 0.34 252 ePg 29 14.21 -0.1
iSg 29 19.38
SOH 0.44 177 iPg 29 16.50 0.0
eSg 29 22.89
VAY 0.57 276 iPg 29 19.00 0.0
iSg 29 26.20
THE 0.69 203 iPg 29 21.02 -0.3
eSg 29 30.64
OUR 1.06 151 ePg 29 28.17 0.2
eSg 29 42.32
LIT 1.32 209 iPbd 29 33.04 0.5
PAIG 1.36 168 ePbd 29 32.96 -0.2
S.D. = 0.3 on 8 of 8 obs.

OCT 20, 1991 21h 12m 42.78 ± 0.37s
48.540 N ± 3.3km 7.697 E ± 3.6km
DEPTH = 12.8 ± 2.8 km
FRANCE (538)
ML 3.1 (LDG), 2.6 (STR).

STR 0.06 45 Pg 12 44.85 -0.6
CDF 0.31 246 Pg 12 50.80 1.4
Sg 12 56.20

LBD	0.39	189	Pg	12	51.43	0.4	* OCT 20, 1991 21h 54m 58.87±0.82s	KIC	150.90	282	PKP	27	13.40	5.7X
GWF	0.44	354	Pg	12	51.97	0.1	36.140 N ±11.3km 31.687 E ±11.1km		1.1s	27.50nm				
			Sg	12	58.04		DEPTH = 10.0km (geophysicist)	TIC	151.13	282	PKP	27	14.12	6.1X
ECH	0.48	228	Pg	12	53.45	0.8	TURKEY (366)	LIC	151.21	281	PKP	27	14.40	6.3X
			Sg	13	01.48		MD 4.1 (HLW).	PPD	151.31	144	(PKP)	27	12.00	3.9X
FEL	0.70	162	ePg	12	55.66	-0.7			S.D. = 0.9	on	31	of	42	obs.
MOF	0.79	209	Pg	12	58.83	1.0	BCK 1.59 327 iPn 55 39.00 11.9X							
KTD	0.82	18	ePg	12	59.27	0.8	LFK 1.73 119 ePn 55 31.70 2.5	? OCT 20, 1991 23h 19m 29.08±1.19s						
BSF	0.93	221	Pg	13	01.41	1.0	KHL 2.78 322 iPn 55 45.50 1.2	40.239 N ±14.4km 17.241 E ±7.5km						
			Sg	13	15.24		YER 2.91 291 iPn 55 47.20 1.0	DEPTH = 10.0km (geophysicist)						
SLE	0.94	145	ePd	12	59.70	-0.8	ALT 3.17 337 ePn 55 56.50 6.7X	SOUTHERN ITALY (390)						
HAU	1.05	240	Pn	13	03.40	1.1	CIN 3.23 298 iPc 55 51.00 0.4							
			Pg	13	04.60		88TK 3.79 13 eP 55 57.00 -1.7	LCI 0.55 80 Pc 19 40.30 0.0						
			Sg	13	19.20		BHL 3.95 123 Pn 56 00.00 -0.9							
BBS	1.08	187	Pn	13	03.30	0.4								
			Pg	13	04.17		IZM 4.19 304 iPn 56 03.00 -1.2	BRT 0.64 357 P 19 41.90 0.0						
ZLA	1.16	156	ePd	13	04.00	-0.2	DST 4.22 326 ePn 56 04.90 0.2							
VITF	1.19	255	Pn	13	05.61	0.9	KOT 6.19 179 ePn 56 31.00 -1.5	MGR 1.30 266 P 19 53.10 0.0						
			Pg	13	07.07			SGO 1.51 283 P 19 56.10 0.0						
			Sg	13	24.37		S.D. = 1.6 on 9 of 11 obs.							
RUP	1.24	340	ePg	13	06.67	1.1		& OCT 20, 1991 23h 29m 26.48s						
TOD	1.29	34	ePg	13	04.56	-1.9	OCT 20, 1991 22h 07m 21.64±0.33s	59.342 N 151.954 W						
LOMF	1.33	207	Pg	13	08.78	1.7	0.856 S ±5.2km 146.611 E ±7.1km	DEPTH = 60.3km						
			Sg	13	27.51		DEPTH = 33.0km (normal)	KENAI PENINSULA, ALASKA (14)						
ABH	1.35	356	ePg	13	08.35	1.1	5.0mb (14 obs.) 4.3msz (2 obs.)	<AEIC>. ML 3.0 (AEIC).						
LLS	1.89	152	ePc	13	15.20	0.0	ADMIRALTY ISLANDS REGION, P.N.G. (199)							
VDL	2.38	149	ePd	13	22.40	0.1								
DIX	2.47	185	ePd	13	23.30	-0.3	MDG 4.44 191 eP 08 29.80 1.3	XLV 0.16 46 iPd 29 34.91 -1.0						
OSS	2.48	137	ePc	13	23.90	0.2	LAT 5.77 176 eP 08 55.00 7.7X							
MMK	2.50	176	ePd	13	23.80	-0.2	RAB 6.47 121 e(P) 08 57.00 -0.1	HOM 0.35 26 ePd 29 36.72 -0.4						
TMA	2.56	161	ePd	13	25.30	0.4	PMG 8.51 176 eP 09 41.00 15.3X							
GRF	2.59	62	e(Pg)	13	31.10	6.1X	GUMO 14.45 353 eP 10 46.00 0.1	CNPM 0.41 63 iPc 29 37.15 -0.6						
			eSg	14	02.30									
LOR	2.88	245	Pn	13	28.60	-0.6	HNR 15.77 123 eP 11 05.00 2.0	BRKL 0.69 52 eP 29 40.68 -0.1						
			Pg	13	38.80		MTN 19.42 232 eP 11 47.50 -0.8							
			Sg	14	16.00		QIS 20.74 199 eP 12 01.80 -0.4	AUE 0.73 272 eP 29 40.61 -0.5						
WTTA	2.94	114	ePn	13	32.00	1.8	WR2 22.44 212 iPd 12 18.80 -0.5	AUP 0.75 272 eP 29 41.12 -0.5						
			e	14	03.00		0.6s 18.20nm 4.7mb							
			i	14	14.60		RMQ 25.57 176 eP 12 49.20 -0.2	AUI 0.76 270 ePc 29 40.91 -0.6						
LBF	2.95	240	Pn	13	30.00	-0.2	1.0s 36.00nm 4.9mb							
			Pg	13	40.00		ASPA 25.81 208 iPc 12 51.80 0.1	AGU 0.76 272 ePc 29 41.19 -0.5						
			Sg	14	18.60		1.6s 47.30nm 4.8mb							
LPL	3.10	193	Pn	13	32.40	0.0	Z 22s 1.40um 4.4msz	AUL 0.76 274 ePc 29 41.12 -0.5						
			Pg	13	43.00			AUH 0.76 272 ePc 29 41.28 -0.4						
SSF	3.19	244	Pn	13	32.10	-1.5	PCI 26.77 270 ePd 13 05.00 4.4X							
			Pg	13	44.00		DZM 28.60 139 iPd 13 21.90 4.7X	SYI 0.77 197 eP 29 41.05 -0.6						
			Sg	14	26.00		SSE 39.91 325 Pc 14 55.00 0.6							
SMF	3.23	235	Pn	13	32.60	-1.5	1.3s 41.00nm 5.0mb	NNL 0.78 25 ePc 29 42.31 0.5						
			Pg	13	44.80		WHN 43.78 318 eP 15 27.50 1.4	INE 0.91 323 ePd 29 42.77 -0.9						
			Sg	14	26.00		TIA 45.96 326 eP 15 43.50 0.1							
AVF	3.42	241	Pn	13	36.00	-0.8	SNY 47.32 337 eP 15 50.00 -4.1X	CDD 0.96 245 iPc 29 43.52 -0.7						
			Pg	13	48.60		XAN 49.55 318 P 16 10.90 -0.7							
			Sg	14	32.40		1.1s 9.10nm 4.7mb	RED 1.16 339 eP 29 46.18 -0.7						
BGF	3.84	241	Pn	13	41.20	-1.6	pP 16 19.00 27kmX							
			Pg	13	56.40		CHG 50.72 295 eP 16 21.00 0.2	RS1 1.19 340 eP 29 45.96 -1.5						
			Sg	14	45.00		CHTO 50.72 295 P 16 20.40 -0.3	RSO 1.19 341 eP 29 46.90 -0.6						
KHC	3.93	79	Pn	13	43.70	-0.4	CD2 51.51 312 eP 16 26.30 -0.3							
			ePg	13	55.00		0.8s 21.00nm 5.2mb	RS2 1.20 341 ePd 29 46.98 -0.5						
			e	14	25.00		HHC 52.31 327 eP 16 33.20 0.6	REF 1.21 342 iPd 29 47.09 -0.6						
			eSg	14	43.50		BTO 53.01 325 eP 16 38.00 0.2	RDW 1.22 340 iPd 29 47.23 -0.6						
MAF	4.19	238	Pn	13	47.20	-0.5	LZH 54.13 317 eP 16 46.50 0.3	PDB 1.22 292 eP 29 47.13 -0.6						
			Pg	14	02.80		1.6s 41.00nm 5.2mb	MCNL 1.23 264 eP 29 47.14 -0.7						
			Sg	14	57.00		Z 22s 0.26um 4.3msz	RDN 1.24 341 iPd 29 47.52 -0.6						
TCF	4.35	241	Pn	13	47.80	-2.3	GTA 58.61 319 P 17 18.20 0.1							
			Pg	14	06.00		1.0s 33.00nm 5.4mb	RDT 1.26 350 iPd 29 47.59 -0.6						
	S.D. = 1.1	on	35	of	36	obs.	LSA 60.93 305 P 17 35.60 1.0							
							1.1s 10.00nm 4.9mb	NCT 1.32 339 ePd 29 48.54 -0.6						
? OCT 20, 1991 21h 35m 29.55±0.89s							64.80 301 P 18 01.00 0.8							
26.170 S ±14.7km 71.120 E ±25.2km							1.1s 66.00nm 5.6mb	SLK 1.45 14 eP 29 51.70 0.9						
DEPTH = 10.0km (geophysicist)							65.12 301 P 18 02.80 0.6	SLKM 1.46 36 ePc 29 50.74 -0.8						
4.6mb (2 obs.)							65.28 301 P 18 03.40 0.2	SEW 1.48 58 eP 29 50.43 -0.8						
MID-INDIAN RIDGE (429)							1.0s 48.00nm 5.5mb	KDC 1.62 190 eP 29 52.29 -0.9						
							68.69 318 P 18 24.00 -0.2	SPU 1.85 358 eP 29 54.63 -1.7						
HYB 43.92 10 eP 43 39.00 0.6							HYB 69.37 289 eP 18 28.30 -0.5	CKL 1.87 354 eP 29 56.92 0.2						
CHG 52.25 34 eP 44 43.90 0.6							PMR 78.78 26 P 19 21.50 -0.9	CRP 1.93 357 ePc 29 58.20 0.5						
NVL 55.53 200 ePc 45 07.00 0.2							1.1s 4.00nm 4.3mb	BGL 1.94 354 eP 29 58.08 0.4						
QUE 56.18 356 eP 45 11.50 -0.6							FBA 80.63 23 P 19 31.60 -0.7	CGLM 1.97 359 ePc 29 58.48 0.3						
WRA 58.02 98 P 45 25.00 -0.2							1.0s 2.20nm 4.1mb	NGC 2.07 357 eP 30 00.00 0.4						
0.7s 1.40nm 4.1mb							INK 87.04 21 eP 20 05.00 0.2	PMS 2.25 31 ePc 30 02.03 0.0						
LZH 69.20 28 eP 46 38.00 -0.6							SPA 89.15 180 iPc 20 19.80 4.7X	SVW 2.55 316 eP 30 04.85 -1.3						
2.0s 25.00nm 5.0mb							1.0s 10.00nm 5.1mb	PLRM 2.66 31 ePc 30 06.91 -0.7						
Z 25s 0.27um 4.4mszx							117.44 327 ePKPd 26 04.30 -1.6	KNK 2.71 38 ePc 30 07.47 -1.0						
							0.9s 1.07nm	GLI 2.88 56 ePc 30 08.71 -2.2						
OBN 86.18 341 ePKP 48 30.00 18.1X							ZDBO 141.73 118 PKP 26 50.70 -2.6	SML 3.05 34 eP 30 12.45 -0.9						
							Z 24s 0.10um 4.5mszx	FID 3.09 60 eP 30 11.33 -2.5						
							LR 33 34.00							
S.D. = 0.7 on 6 of 7 obs.							SIV 147.95 123 PKP 27 05.40 2.3X	42 obs. associated						

21d 00h

& OCT 21, 1991 00h 51m 01.12s
45.631 N 122.887 W
DEPTH = 20.4km
WASHINGTON-OREGON BORDER REGION (28)
<SEA>. MD 3.0 (SEA). Felt (III)
at Hillsboro, North Plains and
Portland, Oregon. Also felt at
Beaverton and Tigard, Oregon.

PGO	0.35	118	Pd	51	08.30	-0.3
KMOR	0.42	271	Pc	51	09.56	-0.4
RVW	0.53	11	Pd	51	10.89	-0.7
			S	51	18.39	
LVP	0.55	37	Pd	51	11.27	-0.8
NLO	0.60	320	Pc	51	13.00	0.1
VLM	0.60	99	iPd	51	12.23	-0.7
			iS	51	20.66	
MTMW	0.62	50	Pd	51	12.16	-1.0
GT2	0.64	137	Pd	51	12.87	-0.8
FL2	0.68	33	Pd	51	13.45	-0.8
SHW	0.72	39	Pd	51	14.18	-0.8
JLK	0.73	45	Pd	51	14.02	-1.0
HSR	0.73	42	Pd	51	14.45	-0.7
			S	51	25.36	
CDFW	0.76	50	Pd	51	14.53	-1.1
STD	0.76	37	Pd	51	14.64	-1.1
ESD	0.77	42	Pd	51	14.99	-0.8
ERK	0.77	29	Pd	51	14.78	-1.1
SOSW	0.80	41	Pd	51	15.56	-0.8
TDH	0.84	113	Pc	51	16.13	-1.0
CZM	0.85	18	Pd	51	16.06	-1.0
APM	0.85	82	P	51	16.38	-0.8
TDL	0.86	33	Pd	51	16.21	-1.1
VLL	0.87	101	Pc	51	16.70	-0.7
BMW	0.88	344	Pd	51	16.39	-1.2
			S	51	28.52	
GULW	0.95	72	P	51	17.74	-1.1
KOSW	0.96	30	Pd	51	17.97	-1.0
ASR	1.04	60	Pd	51	19.20	-1.2
VFP	1.05	107	Pc	51	19.70	-0.9
VBEM	1.08	121	Pc	51	20.23	-0.9
LMW	1.12	22	Pd	51	20.84	-0.8
MPOR	1.22	203	Pd	51	22.45	-0.7
GLK	1.29	43	Pd	51	23.37	-0.8
LON	1.35	33	Pd	51	24.35	-0.5
CPW	1.35	353	Pd	51	24.22	-0.7
ONR	1.39	334	P	51	25.07	-0.3
REMR	1.39	31	Pc	51	25.36	-0.3
WPW	1.42	41	Pd	51	25.59	-0.3
RVC	1.46	25	Pd	51	26.24	-0.2
GHW	1.47	17	Pd	51	26.02	-0.6
GL2	1.48	76	P	51	26.89	0.1
VGB	1.49	94	P	51	26.81	0.0
CROR	1.49	115	Pc	51	26.86	-0.1
FMW	1.55	32	Pd	51	27.91	0.0
MEW	1.58	6	P	51	28.39	0.2
VTHM	1.70	105	P	51	29.49	-0.5
SMW	1.72	350	P	51	30.43	0.2
GSM	1.74	25	Pd	51	31.00	0.3
TCO	1.78	149	P	51	31.47	0.2
NAC	1.81	52	P	51	32.08	0.6
GMO	1.82	130	P	51	31.46	-0.3
OBH	1.83	339	P	51	32.00	0.3
HBO	1.83	167	P	51	32.23	0.2
GMW	1.92	2	P	51	32.97	-0.1
VIPM	1.96	124	Pc	51	33.71	-0.2
SPW	1.97	13	P	51	34.72	0.9
RMW	1.98	22	P	51	34.49	0.5
HDW	2.02	357	P	51	34.76	0.1
MXC	2.04	61	Pd	51	35.10	0.3
EBG	2.05	51	P	51	35.23	0.1
H50	2.11	184	P	51	36.63	0.7
JBO	2.15	93	P	51	35.99	-0.5
BRVW	2.19	66	P	51	37.13	0.0
BLH	2.28	15	P	51	39.24	0.9
HTW	2.31	19	P	51	39.62	0.9
PRW	2.31	74	P	51	41.27	2.6
JCW	2.65	14	P	51	44.83	1.3
RC1	2.73	60	P	51	44.84	0.1
CMW	2.84	10	P	51	47.79	1.4
RPW	2.97	18	P	51	49.57	1.5
MCW	3.05	1	P	51	49.90	0.7
MBW	3.23	12	P	51	53.15	1.3

70 obs. associated

% OCT 21, 1991 01h 23m 21.78±0.73s
44.345 N ± 6.3km 7.287 E ± 7.9km

DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.1 (GEN).

STV	0.10	165	P	23	24.82	0.2
			S	23	26.56	
ENR	0.15	141	P	23	25.54	0.1
PZZ	0.21	320	P	23	26.46	0.1
			S	23	29.43	
ROB	0.42	97	P	23	30.76	0.3
			S	23	36.71	
BHB	0.50	358	P	23	31.79	-0.1
			S	23	37.43	
IMI	0.61	135	P	23	33.74	-0.5
			S	23	42.35	
FIN	0.68	101	P	23	35.07	-0.2
			S	23	44.40	

S.D. = 0.3 on 7 of 7 obs.

* OCT 21, 1991 02h 09m 46.17±0.94s
48.363 N ± 11.7km 17.537 E ± 7.3km
DEPTH = 10.0km (geophysicist)
CZECHOSLOVAKIA (547)
ML 2.6 (VIE).

ZST	0.33	240	iPd	09	52.70	-0.4
			iSg	09	59.00	
SRO	0.76	136	ePg	10	01.80	0.8
			i	10	06.20	
			i(Sg)	10	15.00	
			i	10	16.50	
VKA	0.82	264	iPgc	10	01.40	-0.6
			iSg	10	15.80	
SPC	1.97	64	e(Pn)	10	19.10	-1.1
			e	10	25.90	
			e	10	40.60	
			e(Sn)	10	43.20	
PRU	2.55	311	Pg	10	36.80	8.6X
			eSg	10	59.80	
PRU	2.55	311	eP	10	29.50	1.3
			e	10	32.40	
KHC	2.73	288	ePn	10	33.60	2.7X
			Pg	10	46.50	
			Sg	11	10.00	

S.D. = 1.4 on 5 of 7 obs.

% OCT 21, 1991 03h 31m 43.48±0.82s
44.747 N ± 8.4km 7.688 E ± 6.2km
DEPTH = 33.0km (normal)
NORTHERN ITALY (545)
ML 2.4 (GEN).

BHB	0.32	288	P	31	51.78	0.3
			S	31	57.94	
ROB	0.47	164	P	31	54.35	0.6
			S	32	02.45	
PZZ	0.48	240	P	31	55.63	-0.4
			S	32	01.53	
ENR	0.55	200	P	31	55.07	0.1
			S	32	03.78	
STV	0.57	207	P	31	54.86	-0.3
			S	32	03.17	
PCP	0.65	108	P	31	55.89	-0.3
			S	32	05.22	
FIN	0.65	145	P	31	56.30	0.0
			S	32	05.93	
RRL	0.67	285	P	31	56.71	0.0
			S	32	06.34	
IMI	0.85	170	P	31	58.96	-0.1

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

* OCT 21, 1991 03h 50m 12.70±1.28s
26.508 S ± 8.7km 71.250 W ± 35.7km
DEPTH = 76.6 ± 32.2 km
OFF COAST OF NORTHERN CHILE (121)

ANT	2.89	15	iPd	50	58.00	0.6
			iS	51	29.00	
ZON	5.50	156	eP	51	38.00	4.1X
CFA	5.72	153	eP	51	37.70	0.7
JACH	6.18	175	eP	51	55.00	11.6X
PEL	6.63	176	eP	51	51.00	1.4
LCCH	6.95	182	eP	51	54.00	0.1
TACH	7.13	178	eP	51	56.00	-0.4
LNV	7.42	181	eP	51	58.50	-1.9
ZOBO	10.59	17	iPc	52	45.00	0.6
SIV	14.12	44	P	53	28.00	-2.4

VAO	22.32	86	eP	55	05.30	0.2
			i	55	05.60	
			i	55	06.90	
			e	55	16.20	
BAO	24.21	68	ePd	55	24.50	1.0

S.D. = 1.5 on 10 of 12 obs.

% OCT 21, 1991 05h 48m 25.75±0.62s
40.451 N ± 5.3km 23.102 E ± 5.7km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 1.7 (THE).

THE	0.21	330	ePg	48	29.90	-0.4
			eSg	48	32.94	
SOH	0.42	27	ePg	48	34.36	0.1
LIT	0.58	233	ePg	48	37.62	0.0
OUR	0.68	100	ePg	48	39.50	0.3
			eSg	48	50.06	
PAIG	0.69	140	ePg	48	39.06	-0.3
			eSg	48	49.70	
KNT	0.73	348	ePg	48	39.82	-0.2
			eSg	48	50.86	
GRG	0.73	314	ePg	48	40.70	0.5
			eSg	48	51.82	

S.D. = 0.4 on 7 of 7 obs.

? OCT 21, 1991 05h 50m 28.02±3.73s
3.792 N ± 41.6km 76.001 W ± 59.4km
DEPTH = 100.0km (geophysicist)
COLOMBIA (103)
MD 3.0 (UVC).

BUGC	0.27	291	ePc	50	43.77	-0.4
			eS	50	54.50	
CLMC	0.57	279	iPc	50	44.76	0.0
			eS	50	56.30	
HOBC	0.58	346	eP	50	44.56	-0.2
HOOC	0.71	243	iPc	50	46.10	0.0
ANCC	0.91	252	iPc	50	47.36	-0.4

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

& OCT 21, 1991 06h 06m 14.46s
61.553 N 150.033 W
DEPTH = 38.8km
SOUTHERN ALASKA (2)
<AEIC>. ML 3.1 (AEIC), 3.1 (PMR).

PWA	0.12	37	iPd	06	21.15	0.1
			iS	06	27.32	
SUA	0.35	256	iPd	06	23.18	-0.2
			iS	06	30.56	
PMS	0.38	143	iPd	06	23.45	-0.2
PLRM	0.43	84	iPc	06	23.56	-0.7
			eS	06	31.49	
PMR	0.43	84	iPc	06	23.47	-0.8
GHO	0.57	67	iPc	06	25.50	-0.8
			eS	06	35.02	
KNK	0.77	100	iPc	06	28.33	-0.6
			eS	06	39.71	
SKT	0.83	302	iPc	06	28.67	-1.1
			eS	06	40.64	
SML	0.85	72	iPc	06	29.01	-1.1
			eS	06	41.19	
CUT	0.86	353	ePc	06	29.26	-0.9
CGLM	0.98	256	iPc	06	31.18	-0.8
			eS	06	44.42	
NKA	1.00	216	ePc	06	33.41	1.2
NCG	1.03	263	iPc	06	31.93	-0.8
			eS	06	46.33	
SPU	1.04	250	iPc	06	32.07	-0.8
			eS	06	46.12	
SLKM	1.05	185	ePc	06	31.83	-1.1
CRP	1.06	255	ePc	06	32.46	-0.7
			eS	06	47.47	
CKL	1.17	253	iPc	06	33.77	-0.9
BGL	1.17	257	iPc	06	33.84	-0.9
SCM	1.32	77	ePc	06	36.07	-0.7
			eS	06	53.39	
HUR	1.44	7	eP	06	38.24	-0.2
			eS	06	56.51	
SEW	1.48	169	eP	06	38.05	-0.9
RDT	1.52	231	ePc	06	38.45	-1.1
			eS	06	57.97	
GLI	1.57	114	iPc	06		

DFR	1.61	234	eP	06	40.05	-0.9
NNL	1.64	203	ePc	06	41.20	-0.1
KNIM	1.65	136	ePc	06	38.79	-2.6
REF	1.68	232	iPc	06	41.11	-0.9
			eS	07	02.24	
RDN	1.69	233	iPc	06	41.00	-1.1
			iS	07	02.76	
RSO	1.72	232	ePc	06	41.71	-0.9
			eS	07	03.44	
RS2	1.72	232	iPc	06	41.81	-0.8
RS1	1.72	232	iPc	06	41.85	-0.8
			eS	07	03.29	
NCT	1.72	236	ePc	06	41.77	-0.8
			eS	07	02.27	
RDW	1.73	233	iPc	06	41.88	-0.8
VZW	1.75	105	eP	06	42.00	-0.9
			S	07	04.95	
RED	1.75	231	iPc	06	42.10	-0.9
			eS	07	03.58	
BRK	1.84	194	eP	06	43.76	-0.5
LTI	1.86	144	eP	06	42.11	-2.3
FID	1.90	113	eP	06	42.85	-2.3
TOA	1.91	71	ePc	06	44.94	-0.4
			eS	07	07.10	
KLU	1.97	90	eP	06	44.50	-1.7
INE	2.11	226	ePc	06	47.14	-1.0
			S	07	11.99	
CNPM	2.12	197	ePc	06	47.72	-0.5
			eS	07	11.69	
INW	2.13	227	eP	06	47.45	-1.0
			eS	07	12.72	
TZL	2.24	75	eP	06	49.19	-0.7
CVA	2.32	114	eP	06	50.30	-0.6
SDG	2.33	63	eP	06	50.48	-0.7
PAX	2.57	54	eP	06	52.79	-1.9
PDB	2.71	231	eP	06	55.16	-1.4
SVW	2.73	263	eP	06	54.93	-2.0
RAGM	2.86	112	eP	06	57.34	-1.4
GLB	2.99	89	eP	07	00.27	-0.3
HMT	3.07	111	eP	07	01.43	-0.2
TTA	3.12	299	eP	07	00.25	-2.2
HDA	3.19	25	eP	07	02.56	-0.8
CCB	3.27	17	eP	07	02.68	-1.8
CROM	3.44	100	eP	07	04.69	-2.4
DOT	3.47	50	eP	07	06.61	-0.8
FBA	3.51	16	eP	07	06.42	-1.5
MDM	3.52	13	eP	07	06.93	-1.1
TGL	3.58	100	eP	07	06.78	-2.3
GLM	3.65	18	eP	07	08.53	-1.4
BALM	3.75	95	eP	07	08.32	-3.1
IMA	4.81	342	eP	07	24.00	-2.5

63 obs. associated

* OCT 21, 1991 06h 19m 37.76±1.38s
 1.965 N ±12.9km 122.494 E ±23.5km
 DEPTH = 461.7 ± 14.3 km
 4.5mb (3 obs.)
 MINAHASSA PENINSULA, SULAWESI (265)

KKM	7.46	303	iPc	21	28.90	0.0
	0.9s	125.20nm			5.1mb	
MTN	17.03	150	eP	23	10.20	0.0
MBL	23.13	186	iPc	24	08.40	0.2
	0.4s	4.00nm			4.3mb	
WARB	28.27	172	eP	24	54.00	0.0
CHG	28.51	308	eP	24	56.30	0.1
MRWA	31.62	191	eP	25	23.10	0.2
	0.6s	9.00nm			4.4mb	
BAL	32.86	189	eP	25	33.00	-0.3
KLB	33.67	187	eP	25	40.00	-0.2
GUN	43.47	310	P	27	00.20	-0.5
PKI	43.66	309	P	27	02.20	0.0
KKN	43.87	309	P	27	03.20	-0.5
DMN	43.91	309	P	27	04.50	0.4
GKN	44.47	309	P	27	08.80	0.4

S.D. = 0.3 on 13 of 13 obs.

OCT 21, 1991 06h 20m 10.08±0.71s
 40.695 N ± 6.4km 21.392 E ± 6.1km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 MD 2.5 (THE).

OHR	0.61	313	iPg	20	21.00	-1.5
			iSg	20	31.10	
			Lg	20	32.50	
GRG	0.81	71	ePg	20	25.85	0.1

LIT	1.03	125	ePg	20	29.58	0.1
			eSg	20	45.04	
VAY	1.09	55	ePn	20	30.70	0.2
THE	1.20	92	ePb	20	32.40	0.0
			eSb	20	49.08	
KNT	1.23	67	ePb	20	33.20	0.2
			eSb	20	50.68	
SKO	1.28	2	ePn	20	34.80	1.0
			eSn	20	52.00	
			iSg	20	53.00	
			Lg	20	54.60	
IGT	1.42	215	ePb	20	37.48	1.6
			eSb	20	57.00	
SOH	1.50	85	ePb	20	36.60	-0.4
			eSb	20	59.56	
AGG	1.82	156	ePb	20	40.48	-1.2

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

? OCT 21, 1991 06h 22m 18.08±7.25s
 31.608 S ±34.4km 68.234 W ±39.4km
 DEPTH = 10.0km (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA (137)

CFA	0.00	286	iPc	22	18.70	-1.3
RTLL	0.34	324	ePd	22	24.20	-1.0
ZON	0.38	279	eP	22	25.00	-1.0
			eS	22	37.00	
RTCB	0.50	284	iPc	22	28.50	0.3
RTRS	1.78	323	iPd	22	50.20	1.2
			S	23	17.40	

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

? OCT 21, 1991 06h 25m 58.46±3.41s
 41.406 N ±37.2km 25.520 E ±17.5km
 DEPTH = 10.0km (geophysicist)
 GREECE-BULGARIA BORDER REGION (363)
 MD 2.6 (THE).

ALN	0.64	142	ePg	26	11.34	0.0
			eSg	26	20.58	
SRS	1.48	259	ePb	26	24.94	-0.2
			eSb	26	42.94	
OUR	1.58	228	ePb	26	26.85	0.3
			eSb	26	44.66	
SOH	1.74	251	ePb	26	28.38	-0.5
			eSb	26	50.98	
KNT	1.99	264	ePb	26	33.06	0.5
			eSb	26	55.74	

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

OCT 21, 1991 07h 21m 18.35±0.68s
 43.228 N ±10.6km 17.196 E ± 7.3km
 DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)
 ML 2.5 (TTG).

HVAR	0.55	265	iPg	21	29.10	-0.4
			iSg	21	41.90	
BRY	1.04	108	ePg	21	35.00	-3.1X
			eSg	21	52.00	
HCV	1.24	129	ePg	21	42.00	0.7
			eSg	22	02.00	
NKY	1.39	107	ePg	21	42.00	-1.8
			eSg	22	02.00	
BDV	1.53	128	ePn	21	46.50	0.8
			eSn	22	11.00	
PLE	1.61	86	ePg	21	43.00	-4.0X
			eSg	22	04.20	
TTG	1.72	117	ePn	21	49.00	0.6
			eSn	22	15.00	
IVA	2.01	99	ePn	21	52.00	-0.8
			eSn	22	20.00	
PVY	2.14	106	ePn	21	55.00	0.4
			eSn	22	24.00	
VBY	2.67	329	ePn	22	01.50	-0.6
			eSn	22	31.50	
			iSg	22	39.40	
PTJ	2.81	342	eP	22	05.50	1.2
BEO	2.84	55	e(P)	22	34.50	30.0X

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

? OCT 21, 1991 07h 24m 34.04±9.56s
 3.049 N ±99.3km 76.285 W ±85.4km
 DEPTH = 110.0km (geophysicist)
 COLOMBIA (103)
 MD 3.0 (UVC).

HOOC	0.54	320	iPd	24	51.77	0.0
ANCC	0.74	309	iPd	24	52.99	-0.1
			eS	25	07.80	
CLMC	0.87	341	ePd	24	54.49	0.1
			eS	25	10.50	
HOBC	1.31	7	eP	24	59.00	0.0
			eS	25	18.30	

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

? OCT 21, 1991 07h 38m 50.85±3.99s
 41.899 N ±16.5km 140.074 E ±44.7km
 DEPTH = 110.0km (geophysicist)
 HOKKAIDO, JAPAN REGION (224)

HOOJ	2.44	77	eP	39	31.10	1.1
			eS	40	03.00	
ASAJ	2.91	39	eP	39	36.50	0.2
OFUJ	3.07	156	P	39	38.40	-0.1
			S	40	16.20	
KUSJ	3.63	69	eP	39	44.90	-1.2
			eS	40	25.80	

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

? OCT 21, 1991 07h 51m 32.83±4.05s
 31.788 S ±23.0km 71.901 W ±28.8km
 DEPTH = 10.0km (geophysicist)
 NEAR COAST OF CENTRAL CHILE (135)

ROCH	1.40	148	iPd	51	58.30	-0.3
			iS	52	17.40	
JACH	1.42	129	iPc	51	58.50	-0.3
			iS	52	17.00	
PEL	1.70	143	iP	52	02.50	-0.2
			iS	52	24.50	
LCCH	1.71	171	iPd	52	03.00	0.3
			iS	52	24.50	
SAN	1.96	148	eP	52	07.00	0.5
			iS	52	33.20	
TACH	2.03	157	(P)	52	07.00	-0.5
			iS	52	34.50	
PCH	2.17	148	eP	52	10.00	0.4
			iS	52	38.00	
LNW	2.20	169	eP	52	09.50	-0.4
			iS	52	38.50	
CHCH	2.38	154	eP	52	13.00	0.4
			iS	52	42.20	
ZON	2.76	86	eP	52	18.00	0.0

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

? OCT 21, 1991 08h 32m 20.30±4.36s
 3.802 N ±16.1km 77.000 W ±41.0km
 DEPTH = 33.0km (normal)
 NEAR WEST COAST OF COLOMBIA (102)
 MD 2.5 (UVC).

ANCC	0.31	155	iPd	32	28.31	0.0
			eS	32	34.30	
CLMC	0.44	80	iPd	32	30.27	0.0
			eS	32	37.70	
HOOC	0.49	132	iPd	32	31.02	0.0
			eS	32	39.00	
HOBC	1.02	57	eP	32	38.43	0.0
			eS	32	52.00	

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

* OCT 21, 1991 09h 27m 28.55±3.31s
 45.337 N ±13.3km 6.605 E ±22.2km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)

BNI	0.29	170	P	27	34.40	-0.3
			eSg	27	38.90	
LSD	0.41	73	P	27	36.46	-0.5
			S	27	42.20	
RRL	0.44	163	P	27	37.58	0.1
			S	27	44.15	
RSP	0.50	112	P	27	38.71	0.0
			S	27	45.89	
BHB	0.68	136	P	27	42.10	0.0
			S	27	51.02	
PZZ	0.90	157	P	27	46.10	0.1
			S	27	57.68	
ORX	1.01	73	P	27	48.25	0.4
			S	28	00.86	

S.D. = 0.4 on 7 of 7 obs.

* OCT 21, 1991 09h 49m 12.08±1.49s

? OCT 21, 1991 12h 26m 28.06±5.45s
44.386 N ±10.8km 6.887 E ±39.3km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.3 (GEN).

P2Z	0.19	52	P	26	32.78	0.3
			S	26	35.45	
STV	0.34	114	P	26	35.35	0.1
			S	26	40.06	
ENR	0.41	112	P	26	36.58	0.0
			S	26	42.12	
BHB	0.53	30	P	26	38.63	-0.1
ROB	0.71	97	P	26	42.01	-0.1
			S	26	50.93	
IMI	0.86	123	P	26	44.88	0.1
			S	26	56.27	
FIN	0.97	100	P	26	46.11	-0.3
			S	26	58.21	

S.D. = 0.3 on 7 of 7 obs.

? OCT 21, 1991 13h 26m 02.91±5.80s
2.588 S ±69.6km 125.837 E ±23.4km
DEPTH = 33.0km (normal)
4.9mb (1 obs.)
CERAM SEA (270)

KUPT	7.83	196	eP	28	23.00	25.5X
			eS	29	10.00	
MTN	11.46	153	eP	28	48.00	0.6
			e	29	01.00	
			eS	30	12.00	
WR2	19.16	155	iPc	30	19.90	-6.6X
	0.4s	24.40nm				4.8mb X
			eS	32	29.90	
MBL	19.36	197	iPc	30	28.20	-0.7
	0.3s	15.00nm				4.7mb X
QIS	22.34	144	iPd	30	59.20	-0.4
	0.5s	18.00nm				4.8mb X
			i	31	20.50	
			iS	34	07.70	
ASPA	22.36	160	iPc	30	54.20	-5.6X
	0.3s	119.40nm				5.8mb X
			i	30	58.10	
			iS	33	58.70	
WARB	23.47	178	eP	31	06.00	-4.6X
	0.4s	17.00nm				4.9mb X
MRWA	28.09	199	eP	31	55.20	1.5
COOL	28.49	188	eP	31	55.00	-2.4
BAL	29.18	196	eP	32	04.00	0.5
KLB	29.84	194	eP	32	09.00	-0.4
	0.3s	6.00nm				4.9mb
NWAO	31.24	194	eP	32	22.00	0.2
RKG	32.86	193	eP	32	37.00	1.0

S.D. = 1.3 on 9 of 13 obs.

OCT 21, 1991 13h 44m 56.24±0.42s
41.863 N ±6.0km 20.112 E ±4.2km
DEPTH = 15.5 ± 6.1 km
ALBANIA (391)
ML 3.0 (TTG).

ULC	0.65	279	iPgc	45	12.58	3.8X
			iSg	45	23.48	
PVY	0.74	352	iPgd	45	11.80	1.4
			iSg	45	22.24	
TTG	0.85	312	iPgc	45	13.88	1.7
			iSg	45	25.68	
SKO	1.00	83	iPgd	45	15.20	0.5
			iSg	45	27.90	
			Lg	45	29.00	
IVA	1.02	351	iPgd	45	15.18	0.1
			iSg	45	28.32	
BDV	1.04	294	iPgd	45	16.82	1.3
			iSg	45	30.68	
NKY	1.26	319	iPgc	45	19.08	-0.1
			iSg	45	34.60	
HCY	1.33	296	iPgc	45	20.34	0.1
			iSg	45	37.32	
BRY	1.56	312	iPgd	45	23.24	-0.2
			iSg	45	41.42	
PLE	1.56	340	iPgd	45	22.88	-0.6
			iSg	45	40.90	
VAY	1.92	106	ePn	45	28.70	0.1
KKB	2.22	89	iPc	45	33.00	0.0
			Sg	45	58.00	
BRT	2.40	247	P	45	36.00	0.5

VTS	2.41	71	iPd	45	34.00	-1.8
			Sg	46	00.00	
LIT	2.52	134	eP	45	38.50	1.3
SRS	2.72	105	ePc	45	39.50	-0.6
MMB	2.72	95	iPd	45	40.00	-0.1
			Sg	46	05.00	
PGB	3.09	76	iPd	45	34.00	-11.3X
			Sg	46	18.00	
SSR	3.23	21	ePd	46	12.00	24.7X
AGG	3.30	148	eP	45	49.90	1.5
RZN	3.45	91	eP	45	48.00	-2.6X
CSI	3.57	236	P	46	31.10	38.9X
MMN	3.69	239	P	46	32.40	38.5X
SGO	3.85	252	P	45	55.60	-0.5
			eSn	46	33.80	
MGR	3.86	245	P	45	56.20	0.0
			eSn	46	34.50	
CZI	4.02	230	P	46	35.30	36.8X
DUI	4.23	269	P	46	00.00	-1.7
SDI	4.71	270	P	46	06.90	-1.5

S.D. = 1.1 on 21 of 28 obs.

% OCT 21, 1991 13h 46m 42.54±3.45s
39.738 N ±23.8km 29.389 E ±22.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

DST	0.60	258	iPg	46	54.70	0.0
			eSg	47	04.00	
IZI	0.60	6	iPg	46	54.50	-0.3
			eSg	47	03.50	
YLV	0.83	359	ePg	46	58.50	-0.1
			eSg	47	11.00	
HRT	1.10	11	iPn	47	03.60	0.3
EDC	1.32	298	ePn	47	07.00	0.1

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

* OCT 21, 1991 14h 02m 47.38±1.17s
30.777 N ±20.0km 78.800 E ±6.2km
DEPTH = 33.0km (normal)
4.0mb (1 obs.)
NORTHERN INDIA (308)
ML 4.0 (NDI).

NDI	2.50	214	ePn	03	26.50	-0.1
			iSn	03	58.00	
GKN	5.79	117	P	04	14.20	0.7
DMN	6.35	118	P	04	22.20	0.8
KKN	6.39	116	P	04	21.40	-0.6
PKI	6.60	117	P	04	24.70	-0.3
GUN	6.81	113	P	04	27.40	-0.5
QUE	10.24	270	eP	05	15.50	0.2
HYB	13.30	181	eP	06	05.40	8.9X
WRA	73.41	126	P	14	18.00	-0.3

0.5s 0.90nm 4.0mb

S.D. = 0.6 on 8 of 9 obs.

% OCT 21, 1991 14h 29m 43.16±0.84s
40.166 N ±6.7km 29.442 E ±6.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZI	0.17	8	iPg	29	47.50	0.4
			eSg	29	50.50	
YLV	0.40	352	iPg	29	51.30	-0.1
			eSg	29	58.00	
GBZT	0.62	0	ePg	29	55.00	-0.7
GPA	0.67	79	iPg	29	56.80	0.2
HRT	0.68	15	iPg	29	56.60	0.0
DST	0.84	228	iPn	29	59.00	-0.4
EDC	1.22	279	ePn	30	06.50	0.6

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

? OCT 21, 1991 15h 02m 14.94±10.31s
4.831 N ±96.7km 76.412 W ±45.3km
DEPTH = 70.0km (geophysicist)
COLOMBIA (103)
MD 3.4 (UVC).

HOBC	0.55	150	iPd	02	28.47	-0.1
BUGC	0.94	171	ePd	02	32.90	-0.2
CLMC	0.95	189	eP	02	34.32	1.0
HOOC	1.37	189	eP	02	38.67	-0.2
			eS	02	57.40	
ANCC	1.38	199	eP	02	38.23	-0.5
			eS	02	56.70	

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

% OCT 21, 1991 15h 34m 53.28±1.40s
39.289 N ±11.7km 23.166 E ±10.0km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
MD 2.2 (THE).

AGG	0.70	248	ePg	35	07.18	0.0
			eSg	35	16.50	
PAIG	0.75	32	ePgc	35	08.33	0.4
			eSg	35	18.74	
LIT	0.96	327	ePg	35	11.78	0.2
			eSg	35	25.06	
OUR	1.22	31	ePb	35	15.62	-0.3
			eSb	35	31.14	
SOH	1.54	5	ePb	35	20.46	-0.3
			eSb	35	39.90	
GRG	1.77	341	ePb	35	23.78	-0.3
			eSb	35	45.42	
SRS	1.85	10	ePb	35	25.48	0.1
			eSb	35	46.78	
KNT	1.88	354	ePb	35	26.05	0.3
			eSb	35	49.06	

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

? OCT 21, 1991 15h 36m 39.94±22.32s
45.270 N ±63.1km 2.137 E ±142.0km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.2 (LDG).

PYM	0.78	52	Pg	36	54.83	-0.3
LBL	0.78	92	Pg	36	55.16	-0.1
AGO	1.05	41	Pg	36	59.91	0.2
			Sg	37	14.06	
COLF	1.13	77	Pg	37	01.31	0.2

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

* OCT 21, 1991 15h 38m 05.62±3.68s
32.314 S ±16.0km 72.110 W ±29.9km
DEPTH = 33.0km (normal)
OFF COAST OF CENTRAL CHILE (134)

IHA	0.81	151	iPc	38	20.70	0.1
			eS	38	37.50	
ROCH	1.14	126	iPc	38	24.90	-0.6
			iS	38	42.60	
LCCH	1.24	159	eP	38	26.00	-0.8
			iS	38	47.00	
JACH	1.33	106	iP	38	28.00	-0.2
			iS	38	47.00	
PEL	1.46	125	iPc	38	29.50	-0.4
			iS	38	52.50	
TACH	1.66	144	eP	38	33.00	0.2
LNW	1.74	160	iP	38	34.00	0.1
PCH	1.87	135	iPd	38	36.50	0.5
CHCH	2.03	143	iP	38	39.00	0.8
			iS	39	08.00	
RTCB	2.93	75	iPd	38	50.50	-0.6
ZON	3.02	76	eP	38	53.00	0.8

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

OCT 21, 1991 16h 03m 26.35±0.66s
23.292 N ±9.0km 125.626 E ±7.2km
DEPTH = 45.3km (2 depth phases)
4.4mb (14 obs.) 3.8M

21d 16h

BJI	E 13s	0.32um			
	18.51	337 eP	07 38.00	-3.1X	
	Z 18s	0.30um			
	N 12s	0.25um			
SNY	18.56	355 eP	07 41.00	-0.7	
	1.2s	12.00nm		4.0mb	
	Z 19s	0.72um		5.2msz	
YAMJ	19.29	36 eP	07 46.90	-3.4X	
CN2	20.46	360 eP	07 59.40	-3.2X	
	0.8s	5.90nm		4.0mb	
	Z 17s	0.70um		4.1mszX	
		eP	08 10.50	46km	
OFUJ	20.83	37 eP	08 01.30	-5.2X	
CD2	20.87	296 P	08 11.40	4.4X	
	0.8s	16.00nm		4.4mb	
KMI	20.95	280 eP	08 15.50	7.4X	
	1.0s	30.00nm		4.6mb	
		sP	08 24.00		
HHC	21.13	329 eP	08 12.00	2.4	
	N 14s	0.27um			
	E 14s	0.37um			
		eS	11 54.00		
MDJ	21.52	8 eP	08 14.00	0.6	
BTO	21.69	326 eP	08 17.00	1.7	
	N 15s	0.36um			
	E 15s	0.32um			
		eS	08 24.50		
LZH	22.76	309 eP	08 27.50	1.6	
	1.5s	30.00nm		4.5mb	
	Z 18s	0.34um		3.8msz	
	E 10s	0.20um			
		sP	08 40.00		
MRRJ	23.01	30 eP	08 26.90	-1.1	
HOJ	24.05	33 eP	08 37.70	-0.5	
ASAJ	25.04	30 eP	08 46.70	-1.0	
CHG	25.28	265 eP	08 53.50	3.3X	
CHTO	25.28	265 eP	08 53.00	2.8	
	0.8s	3.84nm		4.0mb	
KUSJ	25.29	34 eP	08 49.80	-0.3	
GTA	27.14	312 eP	09 05.20	-2.2X	
	1.0s	9.00nm		4.4mb	
	Z 14s	0.29um		4.0mszX	
	N 12s	0.31um			
		sP	09 18.60		
WMO	37.23	313 eP	10 35.00	-0.3	
		sP	10 45.20		
WR2	43.81	168 iPd	11 29.30	-0.4	
	0.5s	16.50nm		5.0mb	
ASPA	47.36	170 iPc	11 57.80	-0.2	
	0.5s	14.40nm		5.2mb	
INK	72.51	23 eP	14 49.00	-0.9	
MBC	73.22	13 eP	14 53.50	-0.5	
	1.0s	6.00nm		4.5mb	
HFS	80.30	332 eP	15 33.00	-0.8	
	0.7s	1.60nm		4.1mb	
NB2	80.88	333 P	15 36.20	-0.7	
	0.9s	3.50nm		4.3mb	
GEC2	86.08	322 ePc	16 03.30	-0.4	
	0.8s	3.34nm		4.6mb	
		iPc	16 16.50	44km	
S.D. = 1.2 on 26 of 36 obs.					
* OCT 21, 1991 16h 17m 46.08±0.84s					
15.900 N ± 9.6km 97.943 W ± 11.1km					
DEPTH = 33.0km (normal)					
NEAR COAST OF OAXACA, MEXICO (66)					
OXX	1.66	45 iP	18 14.46	1.0	
		iS	18 33.91		
ACX	2.08	298 iP	18 19.09	-0.2	
		(S)	18 41.80		
III	2.86	330 iP	18 32.19	1.6	
		(S)	19 04.50		
IISM	3.12	10 (P)	18 33.32	-0.7	
		(S)	19 13.00		
IIT	3.12	354 iP	18 34.14	-0.3	
PPM	3.22	348 iP	18 35.74	-0.2	
		iS	19 16.68		
IIA	3.30	348 iP	18 35.83	-0.8	
		(S)	19 13.33		
MRX	4.89	321 iP	19 03.82	4.6X	
		(S)	20 05.17		
ANCC	24.11	119 iPd	23 01.55	1.5	
CLMC	24.18	117 eP	23 01.64	0.8	
HOBC	24.31	116 eP	23 00.18	-1.9	
HOOC	24.33	118 ePd	23 02.81	0.3	
BUGC	24.43	117 eP	23 02.25	-1.0	

S.D. = 1.2 on 12 of 13 obs.					
* OCT 21, 1991 16h 34m 49.33±2.56s					
31.596 S ± 7.6km 68.196 W ± 22.5km					
DEPTH = 10.0km (geophysicist)					
SAN JUAN PROVINCE, ARGENTINA (137)					
MD 4.0 (SAN).					
CFA	0.04	253 iPc	34 50.00	-1.4	
RTLL	0.35	319 iPc	34 55.50	-1.1	
ZON	0.41	277 eP	34 58.00	0.2	
		eS	35 09.00		
RTRS	1.79	322 iPd	35 21.80	1.4	
JACH	2.30	241 iP	35 30.50	2.5X	
PEL	2.61	233 iPc	35 32.60	0.3	
		iS	36 09.00		
ROCH	2.75	239 eP	35 35.50	1.0	
PCH	2.81	223 iPc	35 35.50	0.3	
TACH	3.09	228 iP	35 38.50	-0.6	
		iS	36 19.00		
CHCH	3.12	221 eP	35 40.00	0.5	
LNV	3.59	228 eP	35 42.50	-3.6X	
S.D. = 1.1 on 9 of 11 obs.					
? OCT 21, 1991 16h 48m 22.91±6.62s					
2.494 N ± 28.6km 75.425 W ± 52.1km					
DEPTH = 33.0km (normal)					
COLOMBIA (103)					
MD 3.8 (UVC).					
PURC	0.95	260 eP	48 40.39	0.0	
		eS	48 53.20		
HOQC	1.55	309 ePd	48 48.48	-0.3	
ANCC	1.76	305 eP	48 52.02	0.4	
CLMC	1.79	321 eP	48 51.91	-0.2	
		eS	49 13.50		
HOBC	1.98	339 eP	48 54.98	0.1	
S.D. = 0.4 on 5 of 5 obs.					
? OCT 21, 1991 17h 10m 05.23±13.14s					
39.270 N ± 43.3km 20.210 E ± 101.1km					
DEPTH = 10.0km (geophysicist)					
GREECE-ALBANIA BORDER REGION (392)					
MD 2.6 (THE).					
IGT	0.28	20 ePg	10 10.40	-0.7	
		eSg	10 15.16		
AGG	1.67	98 ePb	10 33.96	-0.7	
		eSb	10 55.60		
LIT	1.95	64 ePb	10 38.64	0.0	
		eSb	11 02.96		
GRG	2.38	44 ePn	10 43.52	-1.4	
KNT	2.79	47 ePn	10 50.14	-0.7	
OUR	3.09	69 ePn	10 53.32	-1.6	
S.D. = 0.8 on 6 of 6 obs.					
? OCT 21, 1991 17h 28m 28.72±1.16s					
19.169 N ± 15.6km 121.214 E ± 19.0km					
DEPTH = 33.0km (normal)					
4.0mb (2 obs.)					
PHILIPPINE ISLANDS REGION (248)					
CHG	21.06	273 eP	33 14.60	2.1	
BJI	21.25	349 eP	33 15.00	0.8	
	Z 16s	0.29um		3.8mszX	
LZH	22.76	321 eP	33 29.50	0.0	
	1.4s	22.00nm		4.4mb	
		sP	33 43.60		
		iS	33 51.50		
GUN	33.45	292 P	35 07.20	-0.1	
PKI	33.82	291 P	35 10.00	-0.6	
KKN	33.96	291 P	35 10.80	-0.8	
DMN	34.09	291 P	35 12.40	-0.4	
GKN	34.55	292 P	35 15.80	-0.8	
WRA	40.95	161 P	36 10.00	0.0	
	0.7s	0.90nm		3.6mb	
S.D. = 1.1 on 9 of 9 obs.					
% OCT 21, 1991 18h 10m 44.93±1.42s					
38.090 N ± 8.2km 27.172 E ± 13.5km					
DEPTH = 10.0km (geophysicist)					
TURKEY (366)					
Izm	0.32	13 iPg	10 51.00	-0.5	
		eSg	10 56.00		
YER	1.30	137 ePn	11 09.00	0.0	
EZN	1.85	339 ePn	11 17.00	0.0	

KHL	1.87	82	ePn	11	17.00	-0.3
DST	1.89	36	ePn	11	18.00	0.4
IZI	2.87	38	ePn	11	31.50	-0.1
YLV	3.00	34	ePn	11	34.00	0.5
S.D. = 0.4 on 7 of 7 obs.						

OCT 21, 1991 18h 27m 10.68± 0.62s						
37.146 N ± 6.2km 21.017 E ± 3.0km						
DEPTH = 57.6 ± 6.9 km						
3.9mb (11 obs.)						
SOUTHERN GREECE						(368)
MD 4.3 (THE), 4.1 (ATH).						

VLS	1.08	342	ePg	27	28.50	-1.4
VLI	1.60	105	ePb	27	38.00	1.0
AGG	2.14	29	ePn	27	46.85	2.2
			eSn	28	13.44	
ATH	2.30	68	ePn	27	46.50	-0.3
IGT	2.44	347	ePn	27	50.20	1.3
			eSn	28	22.24	
KEK	2.74	340	ePb	27	55.00	2.0
LIT	3.17	21	ePn	28	00.42	1.2
PAIG	3.47	36	ePn	28	03.20	-0.3
			eSn	28	42.64	
THE	3.80	23	ePn	28	07.36	-0.6
			eSn	28	51.40	
OUR	3.94	35	ePn	28	09.92	0.0
			eSn	28	55.78	
GRG	3.95	15	ePn	28	10.52	0.3
OHR	3.96	358	iPn	28	10.20	-0.2
			Lg	28	43.50	
LCI	3.98	324	P	28	09.90	-0.7
			eSn	28	53.00	
GRI	4.00	296	P	28	11.65	0.8
SOH	4.10	26	ePn	28	13.42	1.2
NPS	4.16	115	ePn	28	17.50	4.3X
GMB	4.21	286	P	28	14.73	0.7
ROI	4.25	306	P	28	16.10	1.6
			eSn	29	03.80	
KNT	4.27	19	ePn	28	14.20	-0.4
			eSn	29	01.96	
VAY	4.34	16	iPn	28	15.00	-0.6
CZI	4.37	300	P	28	18.30	2.3
			eSn	29	07.00	
SRS	4.44	26	ePn	28	16.76	-0.3
ATN	4.52	285	P	28	18.80	0.6
			eSn	29	06.00	
CSI	4.55	307	P	28	21.20	2.7X
			eSn	29	15.50	
PRK	4.64	62	ePn	28	22.00	2.2
BRT	4.76	323	P	28	21.10	-0.5
MMN	4.80	306	P	28	27.80	5.7X
SKO	4.83	4	iPn	28	21.30	-1.3
	1.1s	175.00nm				
Z	12s	2.41um				
N	11s	3.08um				
		iPg	28	40.00		
		i	28	46.50		
		i	29	11.50		
		iSn	29	19.00		
		iSb	29	33.00		
		iSg	29	40.00		
		i	29	50.50		
		Lg	30	06.00		
		LR	30	25.00		
MEU	4.86	271	P	28	22.60	-0.6
PZI	4.88	270	P	28	21.71	-1.6
MMB	4.91	24	iP	28	23.00	-0.7
EZN	4.95	56	eP	28	23.00	-1.2
MNO	5.09	281	P	28	25.50	-0.9
IZM	5.10	74	eP	28	26.00	-0.5
8A1	5.11	322	P	28	25.00	-1.5
MGR	5.22	307	P	28	28.60	0.6
RZN	5.36	31	iPc	28	30.00	-0.2
ALN	5.42	45	ePn	28	29.12	-1.7
SGO	5.61	309	P	28	34.30	0.9
KDZ	5.64	36	iPc	28	33.00	-0.9
VTS	5.69	17	iPc	28	35.00	0.2
YER	5.80	88	eP	28	36.00	-0.3
DST	6.46	65	eP	28	45.40	-0.1
DUI	6.79	314	P	28	50.00	-0.1
KHL	6.84	78	eP	28	54.00	3.2X
PVL	6.90	27	eP	28	50.00	-1.5
HVAR	6.97	331	i (Pn)	29	00.90	8.5X
SDI	7.20	311	P	28	55.00	-0.7
IZI	7.34	62	eP	28	58.00	0.3
YLV	7.36	60	eP	28	58.00	0.0

HRT	7.67	59	eP	28 58.00	-4.3X	DBO	1.94	62	Pc	37 29.32	-0.3	GWJ	8.07	272	eP	48 27.90	-1.1
BEO	7.68	357	eP	28 50.00	-12.3X	HSO	2.24	54	Pc	37 33.56	-0.4				S	49 53.59	
BUC	8.22	26	eP	30 00.00	50.3X	HBO	2.88	55	P	37 43.45	0.3	OLLA	8.07	170	iP	48 30.00	0.9
CMP	8.66	19	ePd	29 18.00	2.1				S	38 20.00					iS	49 51.80	
ASS	8.71	315	P	29 17.50	0.8	LBFM	2.91	107	eP	37 43.70	0.2	HOJ	8.08	271	eP	48 28.45	-0.6
MLR	9.12	22	eP	29 22.50	0.2	KMOR	3.72	23	P	37 54.96	0.1				S	49 53.80	
PTJ	9.53	338	eP	29 23.40	-4.5X	GT2	3.78	38	P	37 56.33	0.6	PLAV	8.12	175	iP	48 31.00	1.1
BBTK	9.59	70	eP	30 02.00	33.2X	PGO	3.94	34	P	37 58.50	0.6	STH	8.14	272	eP	48 29.01	-0.9
UZD	9.61	350	e(P)	29 40.00	11.1X				S	38 42.97					S	49 52.93	
VRI	9.71	24	ePd	29 31.50	1.3	NLO	4.14	21	P	38 01.24	0.4	SVB	8.23	124	eP	48 30.90	-0.3
LJU	10.12	333	eP	29 34.00	-1.9	VLMW	4.18	37	P	38 02.10	0.7				eS	49 57.08	
			e(S)	31 29.00		VIPM	4.28	56	P	38 02.38	-0.5	FCV	8.30	125	eP	48 32.08	-0.1
VOY	10.35	331	eP	29 36.10	-3.0X	RVW	4.41	27	P	38 05.18	0.6	TOV	8.31	191	ePn	48 32.50	0.2
			e(S)	31 23.40		LVP	4.46	30	P	38 05.17	-0.2				eSn	49 58.30	
PSZ	10.80	356	ePn	29 45.60	0.5	MTMW	4.50	32	Pd	38 05.44	-0.5	GUAN	8.40	162	iP	48 35.20	1.6
SRO	10.84	350	eP	30 06.50	20.9X	BMW	4.56	21	P	38 06.33	-0.4				eS	49 57.10	
FVI	11.25	330	P	29 50.00	-1.1	FL2	4.59	29	P	38 07.11	-0.1	CUM	8.48	152	iP	48 36.00	1.3
CTI	11.32	325	P	29 50.50	-1.7	SHW	4.63	30	P	38 08.21	0.4				iS	50 01.00	
ZST	11.41	347	e(P)	30 05.90	12.6X	HSR	4.63	31	P	38 07.88	0.0	PCJ	8.49	270	eP	48 32.98	-1.8
BHG	12.15	333	eP	30 07.50	4.3X	CDFW	4.64	32	P	38 07.45	-0.4	BBJ	8.57	274	eP	48 34.91	-1.0
WTTA	12.26	328	iPc	30 03.10	-1.7				S	38 59.37					S	50 06.60	
	1.1s	15.30nm			4.9mb X	CZM	4.74	27	P	38 09.52	0.2	GRW	8.63	131	eP	48 36.51	-0.2
		i		30 22.20					S	39 02.24					eS	50 07.29	
		iS		32 21.40		TDL	4.77	29	P	38 09.94	0.1	SPJ	8.85	271	eP	48 39.47	-0.3
		i		32 33.40					S	39 02.58		CEOS	8.93	180	iP	48 41.40	0.5
KHC	13.14	338	eP	30 14.50	-1.8	ASR	4.85	35	P	38 10.58	-0.4				eS	50 05.40	
		e		30 27.50		LMW	5.02	27	P	38 13.85	0.6	SDV	9.36	195	eP	48 46.40	-0.5
		e		30 48.00		GLK	5.18	32	P	38 15.36	-0.2				iS	50 25.20	
PRU	13.66	342	eP	30 25.50	2.5X	LON	5.26	30	P	38 16.26	-0.4	TCE	9.62	138	eP	48 51.14	0.8
Z	10s	0.50um				REMR	5.30	29	P	38 17.15	-0.3				eS	50 31.50	
N	11s	0.50um							S	39 16.77		TRN	9.88	137	eP	48 54.49	0.5
E	10s	0.30um				WPW	5.31	32	P	38 17.06	-0.4				eS	50 36.00	
		e		30 31.50					S	39 17.00		PIG	9.89	132	eP	48 54.58	0.5
		e		30 52.50		GHW	5.35	25	P	38 18.38	0.5	TPR	9.92	132	eP	48 55.26	0.8
KSP	14.10	348	eP	30 36.50	7.7X	RVC	5.36	28	P	38 18.63	0.4	TPP	10.10	138	eP	48 59.07	2.1
GRF	14.40	334	iPnc	30 40.90	8.2X	FMW	5.46	30	P	38 19.64	0.0	TBH	10.22	136	eP	49 00.44	1.8
	1.2s	19.00nm			4.4mb X	GSM	5.65	27	P	38 22.41	0.2				eS	50 47.00	
	16s	0.30um			5.2msz	HDW	5.70	18	P	38 22.39	-0.5	UPA	14.16	232	iPd	50 00.50	9.2X
BRG	14.63	342	eP	30 42.50	6.9X	RMW	5.87	26	P	38 25.76	0.5		1.0s	60.00nm			5.2mb
		i		30 48.60		JCW	6.49	22	P	38 33.80	-0.2	CLMC	16.23	211	eP	50 16.21	-2.0
BSF	14.95	320	eP	30 46.50	6.6X				S	39 44.44		HOOC	16.62	211	eP	50 20.97	-2.3
	0.8s	5.35nm			3.8mb	CMW	6.65	20	P	38 36.05	-0.3	ANCC	16.69	211	eP	50 21.71	-2.2
MOX	15.08	336	ePc	30 48.10	6.5X				S	39 51.88		PURC	17.50	208	ePc	50 34.16	-0.4
	1.4s	16.00nm			4.0mb	MCW	6.72	16	P	38 36.71	-0.6	SGS	18.70	326	P	50 52.40	3.8X
CDF	15.09	323	eP	30 50.10	8.3X	RPW	6.84	23	P	38 38.32	-0.6	CUMC	19.40	210	eP	50 59.91	2.4
	0.8s	5.35nm			3.8mb				S	39 52.63		LHS	19.86	328	P	51 01.50	-0.2
CLL	15.27	341	iP	30 49.80	5.9X	MBW	7.04	20	P	38 42.45	0.6	JSC	19.93	327	P	51 02.30	-0.2
	1.5s	27.00nm			4.2mb							PRM	20.38	324	P	51 06.90	-0.2
HAU	15.29	320	eP	30 50.60	6.4X							CBN	21.64	340	eP	51 22.00	2.1
	0.8s	8.05nm			4.0mb							CVL	21.81	338	P	51 22.30	0.7
LBF	15.99	313	eP	31 00.80	7.5X							BLA	21.91	333	P	51 24.50	1.8
	0.8s	2.70nm			3.4mb							NAV	22.16	333	P	51 26.60	1.4
WLF	16.49	324	P	31 06.00	6.6X							GBTN	22.57	324	P	51 31.60	2.4
DOU	17.52	323	P	31 16.90	4.6X							LVNJ	23.40	347	P	51 49.50	12.3X
	0.6s	5.40nm			3.9mb							PWLA	24.41	318	P	51 48.40	1.3
OBN	20.87	26	eP	31 49.00	-0.8							OLY	26.97	315	P	52 14.90	4.0X
Z	14s	0.60um			4.1msz X							NNA	30.99	196	eP	52 51.50	4.4X
		e		32 06.00									0.7s	8.90nm			4.6mb
HFS	23.48	351	eP	32 15.70	0.1							MEO	31.72	308	iPd	52 53.10	-0.4
	0.7s	1.30nm			3.5mb							ZOBO	34.06	180	P	53 15.80	1.2
Z	16s	0.32um			3.9msz X												3.7msz
		LR		41 45.00		MGP	1.11	90	eP	46 51.50	0.7				S	59 12.00	
NUR	23.50	5	eP	32 17.00	1.3	APR	1.52	73	P	46 58.50	2.0				LR	07 26.00	
		i		32 32.80		PORP	1.54	88	eP	46 58.00	1.1	SIV	34.52	168	P	53 19.20	1.3
EKA	24.50	326	P	32 28.00	2.5	CLLP	1.60	87	P	46 59.00	1.3	ALO	37.85	304	eP	53 46.00	-0.1
	0.9s	9.10nm			4.3mb	SJG	2.01	87	eP	47 04.00	0.5		1.0s	9.50nm			4.7mb
NB2	24.71	349	P	32 28.40	0.9	CPD	2.23	89	eP	47 07.00	0.3	SOB1	38.23	133	eP	53 49.90	0.6
	0.8s	3.20nm			3.9mb	LPR	2.29	82	eP	47 08.70	1.1				e	54 06.10	
KAF	25.21	6	iP	32 33.10	0.9	MGH	5.91	102	eP	47 59.50	0.7	GOL	38.65	312	P	53 53.00	0.2
	0.7s	8.40nm			4.4mb	CPB	6.14	92	eP	48 02.00	0.0		1.0s	12.50nm			4.7mb
QUE	38.56	87	eP	34 36.00	6.3X	BPA	6.18	98	eP	48 00.63	-2.0	BAO	38.94	148	ePc	53 56.30	1.0
GKN	53.50	80	P	36 27.60	-0.1	PAG	6.60	106	eP	48 07.20	-1.2	RSSD	39.71	319	P	54 01.00	-0.6
	0.4s	16.00nm			5.4mb X				S	49 14.00			0.9s	6.97nm			4.5mb
HYB	53.96	95	eP	36 34.00	3.0X	SEG	6.65	103	eP	48 07.61	-1.5	PDCR	41.81	135	eP	54 18.20	-0.6
DMN	54.05	80	P	36 31.80	-0.1	DOG	6.95	110	eP	48 07.90	-1.3	BW06	42.75	314	iP	54 26.00	-0.5
	0.4s	15.00nm			5.4mb X	MGG	6.96	106	eP	48 12.52	-1.0		1.1s	9.23nm			4.4mb
KKN	54.11	80	P	36 31.80	-0.4	DEG	7.09	103	eP	48 13.80	-1.5	PPD	43.11	157	eP	54 29.70	0.3
	0.6s	14.00nm			5.2mb X	MORO	7.10	180	iP	48 15.90	0.4				e	54 40.70	
PKI	54.31	80	P	36 33.40	-0.4				iS	49 19.60					e	54 45.10	
GUN	54.52	80	P	36 34.60	-0.8	FDF	7.56	114	eP	48 19.68	-2.3				e	54 50.70	
	0.4s	15.00nm			5.4mb X	LLAV	7.62	169	iP	48 22.90	0.0	DAU	43.12	310	P	54 30.20	0.5
									iS	49 39.20		MSU	43.25	307	P	54 31.20	0.5
						BIM	7.73	116	eP	48 20.88	-3.4X	IMW	44.10	315	P	54 32.50	-5.1X
						CRM	7.76	114	eP	48 23.26	-1.4	DUG	44.19	310	P	54 38.50	0.3
						YHJ	7.84	270	iP	48 25.72	0.0	PTI	44.71	313	P	54 32.50	-9.9X
									S	49 48.18		FFC	44.81	333	eP	54 42.00	-0.7
						MVM	7.86	115	eP	48 24.90	-1.2		0.9s	12.00nm			4.7mb

S.D. = 1.2 on 66 of 95 obs.

* OCT 21, 1991 18h 36m 56.13±2.02s
 42.243 N ±10.9km 125.594 W ±14.6km
 DEPTH = 10.0km (geophysist)
 OFF COAST OF OREGON (30)

21d 19h

HPI	45.50	314	P	54	49.30	0.6	0.3s	0.60nm	4.1mb	XLV	0.53	174	ePc	18	13.05	-1.1				
LRM	45.83	317	eP	54	51.70	0.4	CLL	70.73	41 eP	57	55.00	10.0X	eS	18	22.31					
PEC	46.30	300	P	54	55.70	0.8	KHC	71.31	43 P	57	48.50	-0.1	CNPM	0.55	147	iPc	18	13.70	-0.6	
CLC	46.92	302	eP	55	01.00	1.2		1.0s	3.50nm	4.3mb	eS	18	23.01							
SBB	46.94	301	eP	55	01.00	1.0		e	58	01.50		INE	0.63	278	iPd	18	14.51	-1.0		
TNP	47.01	306	P	55	01.50	0.8		e	58	21.50			eS	18	24.51					
	1.0s	30.00nm				5.2mb	BRG	71.37	41 eP	57	49.60	0.8	IVS	0.63	273	eP	18	14.28	-1.4	
BONR	47.83	305	P	55	08.10	0.9		e	58	03.20		RED	0.64	313	iPd	18	15.03	-0.6		
KVN	47.88	307	P	55	08.30	0.8	GEC2	71.42	44 ePc	57	47.90	-1.4		eS	18	24.83				
BCH	48.85	301	P	55	15.40	0.5		1.1s	3.28nm	4.2mb		RDT	0.66	334	iPd	18	15.25	-0.6		
CMB	49.47	305	P	55	20.10	0.6		e	58	06.20			eS	18	25.90					
	0.8s	6.67nm				4.7mb	PRU	71.84	42 eP	57	52.30	0.6	INW	0.66	278	iPd	18	14.99	-0.9	
NEW	49.69	319	P	55	20.70	-0.4		e	58	09.30			eS	18	25.12					
	1.0s	37.50nm				5.4mb	ZST	73.75	44 eP	58	03.10	0.2	RS1	0.67	316	iPd	18	15.57	-0.5	
ORV	50.56	307	P	55	27.90	0.1	KRA	75.27	42 eP	58	29.40	17.8X	RSO	0.67	316	iPd	18	15.52	-0.5	
YKA	54.75	336	eP	55	57.10	-1.6	SOD	75.40	23 iP	58	11.00	-1.1		eS	18	26.51				
	0.9s	6.40nm				4.7mb		i	58	30.00		RS2	0.67	316	iPd	18	15.60	-0.5		
AVE	56.21	62	eP	56	10.50	0.8	MLR	80.25	45 eP	58	40.00	0.6	REF	0.67	320	iPd	18	15.52	-0.6	
	i			56	26.00		OBN	83.61	34 eP	59	14.00	17.6X	RDW	0.70	316	iPd	18	15.87	-0.6	
TOL	59.01	54	iPc	56	29.50	0.1	RMO	144.82	249 iPKPd	06	04.40	-1.5	RDN	0.71	319	iPd	18	15.84	-0.7	
	1.2s	31.25nm				5.3mb		0.7s	18.00nm				S	18	26.04					
LPF	61.63	45	eP	56	47.60	0.5	CMS	146.41	240 ePKP	06	09.10	0.7	NCT	0.80	317	ePd	18	17.07	-0.7	
	0.8s	8.05nm				4.9mb	WR2	158.52	261 ePKP	06	36.70	10.7X		eS	18	28.31				
GRR	61.78	44	eP	56	48.00	-0.1		0.9s	1.40nm				NKA	0.82	21	iPd	18	19.14	1.3	
	0.8s	8.05nm				4.9mb		S.D. = 1.0 on 128 of 143 obs.				SLKM	0.96	56	iPc	18	18.90	-1.0		
FLN	62.06	44	eP	56	49.90	0.0							eS	18	32.90					
	1.0s	12.00nm				5.0mb							AUE	1.01	232	ePc	18	19.40	-1.1	
Z	20s	0.08um				3.9Msz							eS	18	33.18					
MFF	62.15	46	eP	56	50.60	0.0							AUL	1.02	234	eP	18	19.82	-0.8	
	0.8s	8.05nm				4.9mb							eS	18	33.73					
LDF	62.28	44	eP	56	51.30	-0.1							AUP	1.02	233	ePc	18	19.80	-1.0	
	0.8s	5.35nm				4.7mb							eS	18	34.49					
EPF	62.38	50	eP	56	52.60	0.3	ALN	0.62	135 ePgc	48	04.25	0.8	AGU	1.03	233	eP	18	20.11	-0.8	
	1.0s	16.00nm				5.1mb							eS	18	33.77					
LFF	62.71	48	eP	56	54.30	0.0	SRS	1.43	262 ePb	48	16.74	-0.3	AUH	1.03	234	eP	18	20.61	-0.3	
	1.2s	17.85nm				5.1mb							eS	18	34.44					
KIC	62.90	92	P	56	54.80	-1.2	OUR	1.51	229 ePb	48	17.30	-0.7	AUI	1.04	232	eP	18	20.10	-0.9	
LPO	63.02	49	eP	56	56.40	0.0							eS	18	33.53					
	0.8s	8.05nm				4.9mb	SOH	1.68	253 ePb	48	21.00	0.4	SEW	1.20	83	eP	18	22.71	-0.5	
RJF	63.26	48	eP	56	57.60	-0.4							eS	18	39.07					
	1.2s	23.80nm				5.2mb	DMK	1.79	73 ePn	48	21.50	-0.6	SPU	1.21	355	iPd	18	22.73	-0.7	
Z	20s	0.05um				3.7Msz	KNT	1.94	266 ePb	48	24.06	-0.4		eS	18	39.02				
LSF	63.29	47	eP	56	57.90	-0.3							PDB	1.21	262	iPc	18	21.78	-1.6	
	1.0s	11.00nm				4.9mb	PAIG	1.96	225 ePb	48	23.94	-0.6		eS	18	37.30				
CAF	63.65	48	eP	57	00.50	0.0	VAY	2.18	271 ePn	48	29.20	1.4	CKL	1.24	348	iPd	18	23.26	-0.7	
	1.2s	20.85nm				5.1mb							CRP	1.30	353	iPd	18	24.43	-0.4	
TCF	63.77	47	eP	57	01.00	-0.3							eS	18	41.71					
	0.8s	9.40nm				4.9mb							BGL	1.31	348	iPd	18	24.51	-0.4	
DAG	63.80	11	eP	57	00.50	-0.5							CGLM	1.33	356	iPd	18	24.73	-0.5	
MBC	63.81	348	eP	57	01.00	0.0							eS	18	42.37					
	0.9s	13.00nm				5.0mb							CDD	1.41	222	ePd	18	25.03	-1.2	
	pP			57	14.50	48kmX							eS	18	43.35					
BGF	64.21	46	eP	57	03.60	-0.6	KHL	1.35	344 iPn	58	20.00	0.1	SYI	1.41	192	ePd	18	25.08	-1.1	
	1.0s	10.00nm				4.8mb	YER	1.37	275 iPn	58	20.20	0.1		eS	18	43.95				
INK	64.32	338	ePd	57	02.50	-2.0	IZM	2.56	303 iPn	58	37.00	-0.2	NCG	1.43	354	iPd	18	26.30	-0.4	
	pP			57	17.00	52kmX	DST	2.80	338 ePn	58	40.80	0.3	MCNL	1.51	239	ePc	18	25.66	-2.0	
AVF	64.56	46	eP	57	05.80	-0.6	IZI	3.34	353 ePn	58	48.00	-0.2		eS	18	43.68				
	1.1s	9.75nm				4.8mb							SUA	1.58	19	ePd	18	28.07	-0.6	
SSF	64.67	46	eP	57	06.60	-0.5							eS	18	49.62					
	0.9s	3.30nm				4.4mb							PMS	1.69	40	ePd	18	29.96	-0.2	
SMF	64.90	46	eP	57	07.90	-0.7								S	18	51.00				
	1.0s	9.00nm				4.8mb							PWA	1.93	29	e(P)	18	33.80	0.3	
LOR	64.91	46	eP	57	08.00	-0.7							LTi	1.99	87	eP	18	32.56	-1.9	
	0.9s	13.10nm				5.0mb							SKT	2.01	4	ePd	18	34.27	-0.4	
	20s	0.10um				4.0Msz							eS	18	57.87					
LBF	64.99	46	eP	57	08.40	-0.9							KNIM	2.08	78	ePc	18	33.23	-2.4	
	0.8s	4.05nm				4.5mb							eS	18	57.44					
DOU	65.43	43	P	57	11.00	-0.9	LPR	1.23	216 P	16	23.00	-0.1								
	e			57	28.00		CPD	1.48	212 P	16	26.80	0.0								
MEM	66.34	42	Pc	57	17.70	0.0	SJG	1.55	220 P	16	27.70	-0.2	PLRM	2.09	38	eP	18	35.10	-0.6	
BSF	66.89	45	eP	57	20.30	-1.2	APR	1.76	241 P	16	31.20	0.3	PMR	2.09	38	eP	18	37.10	1.4	
LPL	66.93	48	eP	57	21.30	-0.7	CLLP	1.86	229 P	16	32.60	0.4	MTU	2.10	88	eP	18	35.07	-0.9	
	1.0s	8.00nm				4.7mb	PORP	1.92	230 P	16	33.20	0.1	SVW	2.19	303	eP	18	35.20	-2.1	
LPG	66.95	48	eP	57	16.00	-6.1X	MCP	2.10	245 P	16	35.30	-0.5	KNK	2.19	48	eP	18	36.27	-1.0	
	1.0s	8.00nm				4.7mb	MCP	2.29	236 P	16	38.50	0.0		S	19	02.30				
CDF	67.20	44	eP	57	22.60	-0.8							KDC	2.27	189	eP	18	36.10	-2.2	
	1.0s	10.00nm				4.8mb							GHO	2.29	37	eP	18	38.23	-0.5	
KLU	68.46	330	P	57	31.60	0.6							SML	2.50	41	eP	18	40.90	-0.9	
NB2	69.32	31	P	57	36.10	-0.2							GLI	2.51	67	eP	18	39.16	-2.7	
	0.9s	3.10nm				4.3mb							CUT	2.54	17	eP	18	42.57	0.3	
FBA	69.41	333	P	57	35.50	-1.2							FID	2.76	72	eP	18	41.94	-3.6	
	0.8s	10.34nm				4.9mb							VZW	2.82	65	eP	18	45.05	-1.3	
GRF	69.73	43	eP	57	39.40	0.5							SCM	2.88	48	eP	18	46.57	-0.6	
	1.0s	7.00nm				4.6mb	NNL	0.27	77 iPc	18	12.39	1.2	VLZ	2.95	65	eP	18	45.87	-2.2	
	22s	0.10um				4.0Msz							CVA	3.08	77	eP	18	48.76	-1.2	
WTTA	70.20	45	i(P)	57	29.60	-12.5X	HOM	0.34	164 iPc	18	11.98	0.2	HUR	3.18	18	eP	18	50.46	-1.0	
													KLU	3.27	60	ePc	18	50.40	-2.3	
APO	70.67	31	eP																	

RND 3.71 21 eP 18 58.94 0.0
SDG 3.96 47 eP 19 00.78 -1.7
GLB 4.20 66 eP 19 04.70 -1.1
PAX 4.27 43 eP 19 05.24 -1.7
FBA 5.28 19 eP 19 20.00 -0.9

66 obs. associated

? OCT 21, 1991 21h 28m 23.95±15.11s
60.513 N ±31.9km 1.948 E ±121.km
DEPTH = 10.0km (geophysicist)

NORTH SEA (534)

MD 2.1 (BER).

SUE 1.48 67 iP 28 50.36 -0.3
ASK 1.61 90 eP 28 52.68 0.3
EGD 1.65 97 eP 28 52.43 -0.5
HYA 2.18 71 eP 29 00.98 0.3
ODD1 2.41 102 eP 29 04.36 0.2
MOL 3.38 50 eP 29 17.78 0.0

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

OCT 21, 1991 22h 44m 48.41±0.65s
17.037 N ±4.4km 145.698 E ±4.0km
DEPTH = 181.7 ± 6.5 km

5.0mb (34 obs.)

MARIANA ISLANDS (216)

SAPN 1.82 178 P 45 25.00 1.0
GUMO 3.52 193 iP 45 43.60 -0.5
PJC 3.52 193 eP 45 44.00 -0.1
GUA 3.56 192 eP 45 44.30 -0.3
PMG 26.32 177 eP 50 09.00 -0.2
SSE 26.32 307 Pd 50 07.50 -1.6
QZH 26.47 292 Pc 50 10.00 -0.5
NJ2 28.52 307 Pc 50 28.00 -1.0
WHN 31.56 301 Pc 50 56.00 0.3
QIZ 34.12 279 P 51 18.20 0.3
BJI 34.34 318 eP 51 20.00 0.4
XAN 37.01 304 iPd 51 41.70 -0.5
GYA 37.33 291 iPc 51 46.80 1.8
HHC 37.77 316 eP 51 48.00 -0.6
QIS 37.84 189 iPd 51 48.60 -0.5
WR2 38.40 197 iPc 51 53.30 -0.6
BTO 38.70 315 eP 51 56.40 0.1
CD2 40.50 298 iPd 52 11.40 0.3
KMI 40.75 289 eP 52 15.00 1.6
LZH 41.59 305 Pd 52 20.50 0.4
ASPA 42.06 196 iPd 52 23.80 -0.1
RMO 43.37 176 iPd 52 34.30 -0.1
NST 43.67 275 eP 52 41.50 4.5X
DZM 43.86 152 iPd 52 49.00 10.5X
CHG 44.42 280 ePd 52 43.60 0.5
BDT 44.53 277 ePd 52 45.00 1.1
NNT 44.58 271 iPd 52 46.20 1.9
BRS 44.69 171 iPc 52 46.00 1.0
SNG 45.06 263 eP 52 50.20 2.1
KHT 45.27 274 eP 52 50.80 1.0

IPM 45.47 259 ePc 52 53.10 1.7
GTA 45.57 309 iPc 52 52.30 0.3
MBL 45.65 215 iPc 52 52.50 -0.1
ADK 45.72 32 P 52 53.00 0.2
YAK 46.32 350 iPc 52 53.70 -3.8X
WARB 46.79 204 eP 53 01.50 -0.1
CMS 48.24 180 eP 53 11.60 -1.1
LSA 51.22 295 Pc 53 37.30 1.2
BWA 51.24 177 eP 53 35.60 0.1
CAN 52.16 177 eP 53 42.50 0.1
CNB 52.18 176 eP 53 42.80 0.3
MRWA 54.20 212 eP 53 56.00 -1.4
BAL 54.97 211 eP 54 01.00 -2.0
WMQ 55.40 312 P 54 05.00 -1.1
SDN 55.82 34 eP 54 08.30 -0.5
MUN 56.34 210 eP 54 11.00 -1.7
KKK 56.40 292 P 54 13.00 -0.6
NWAQ 56.65 209 eP 54 13.50 -1.4
SVW 60.26 29 eP 54 39.60 0.0
PDB 60.51 30 P 54 37.20 -4.0X
SLKM 60.62 30 P 54 53.50 -1.8
IMA 62.79 24 eP 54 56.10 -0.4
PWA 63.06 29 eP 54 56.70 -1.4
PMR 63.39 29 eP 54 59.00 -1.3
NDI 63.43 294 eP 55 00.50 -0.6
HYB 63.81 281 iPd 55 02.50 -1.3
FBA 64.78 26 eP 55 07.10 -2.2
KLU 64.88 30 P 55 09.20 -0.8
BALM 66.51 30 P 55 19.50 -1.0
POO 67.99 283 iPd 55 27.70 -2.6X
INK 70.90 23 eP 55 45.00 -2.1
QUE 72.10 297 eP 55 55.50 0.2
MBC 74.75 14 ePd 56 07.50 -2.0
MAIO 77.13 304 eP 56 23.00 -0.6
PGC 77.96 43 eP 56 29.00 1.2
GMW 78.64 44 P 56 32.30 0.7
RMW 79.30 44 P 56 35.50 0.2
FHC 79.31 51 eP 56 37.09 1.7
SHW 79.31 45 P 56 36.40 1.0
FOX 79.37 51 iPc 56 37.52 1.9
YKA 79.45 28 eP 56 34.00 -1.6
LON 79.47 44 P 56 36.40 0.3
WDC 80.43 51 iPd 56 42.09 0.8
LBFM 80.72 50 P 56 43.70 0.7
LTCM 80.83 51 P 56 43.70 0.4
PCC 81.31 54 iPd 56 46.22 0.3
ORV 81.46 51 iPd 56 47.19 0.5
GCC 81.73 54 iPd 56 48.76 0.7
ARN 82.01 53 P 56 50.20 0.6
NEW 82.14 42 P 56 49.60 -0.5
LLA 82.66 54 iPc 56 54.11 1.2
CMB 82.70 53 iPd 56 53.95 0.8
PRI 83.00 54 iPd 56 56.15 1.3
FRI 83.51 53 iPd 56 57.91 0.7
KEY 83.51 342 eP 56 51.00 -5.6X
SYP 83.99 56 eP 57 01.00 1.1
KVN 84.13 51 P 57 00.10 -0.5
BONR 84.30 52 P 57 02.10 0.5
ABL 84.49 55 P 57 02.30 -0.2
TNP 85.08 52 P 57 05.80 0.4
CLC 85.48 54 eP 57 07.00 -0.2

PAS 85.53 56 eP 57 06.00 -1.4
MWC 85.60 56 eP 57 09.00 1.0
SBB 85.64 55 eP 57 08.00 0.0
DAG 85.93 356 eP 57 06.00 -2.5
LRM 85.94 43 ePd 57 09.50 0.0
RVR 86.20 56 eP 57 10.00 -0.7
HPI 86.23 45 P 57 11.50 0.5
GSC 86.25 54 eP 57 12.00 1.0
PEC 86.41 56 P 57 11.50 -0.2
PLM 86.81 56 P 57 13.30 -0.6
PTI 87.02 46 P 57 15.60 0.9
HVV 87.12 47 P 57 15.50 0.3
BAR 87.17 57 eP 57 15.00 -0.4
DUG 87.64 49 P 57 17.90 0.2
GLA 88.52 56 eP 57 22.00 0.1
DAU 88.67 48 P 57 23.00 0.1
MSU 88.69 50 P 57 23.30 0.5
BW06 88.98 45 P 57 23.10 -1.1
GOL 93.11 47 P 57 43.70 0.4
ANMO 94.29 52 P 57 48.70 0.0
ALQ 94.29 52 eP 57 48.70 0.0
FVI 103.79 329 Pd iff 58 43.00 12.2X
TRI 103.90 328 iPd iff 58 26.40 -4.9X
CTI 104.73 329 Pd iff 58 51.00 15.8X
ASS 106.28 326 Pd iff 58 52.00 9.9X
ARE 144.42 95 ePKP 04 06.00 0.3
ZOB0 147.61 94 PKPc 04 11.20 -0.1
Z 24s 50.50nm 5.3mszx
LR 14 44.00

SIV 154.32 92 PKP 04 21.00 0.5
PPD 163.22 110 (PKP) 04 31.00 0.5
S.D. = 1.0 on 110 of 120 obs.

? OCT 21, 1991 22h 45m 39.75±14.80s
18.928 N ±80.5km 65.493 W ±90.1km
DEPTH = 33.0km (normol)

PUERTO RICO REGION (90)

LPR 0.71 210 P 45 53.10 -0.3
CPD 0.97 204 P 45 57.20 0.1
SJC 1.02 218 P 45 58.00 0.2
APR 1.26 248 P 46 01.00 -0.2
CLLP 1.33 231 P 46 02.40 0.3
PORP 1.39 231 P 46 03.00 -0.1
MCP 1.62 252 P 46 06.50 0.2
MGP 1.77 239 P 46 08.30 -0.2
S.D. = 0.3 on 8 of 8 obs.

OCT 21, 1991 22h 58m 06.59±0.97s
45.110 N ±8.2km 14.954 E ±6.5km
DEPTH = 10.0km (geophysicist)

NORTHWESTERN BALKAN REGION (383)
ML 2.8 (VIE), 2.4 (ZAG). Felt at Senj.

VBY 0.45 28 ePg 58 15.00 -0.7
RIY 0.46 300 iPg 58 14.20 -1.8
CEY 0.73 330 ePg 58 20.00 -1.0
LJU 0.98 343 ePg 58 26.30 1.1
ZAG 1.01 45 ePg 58 25.50 -0.2
PTJ 1.06 41 ePg 58 26.60 0.0
PTJ 1.06 41 iPn 58 28.80 2.2X
VOY 1.19 321 ePg 58 29.60 0.8
HVAR 2.21 150 i(Pn) 58 43.90 0.1
KBA 2.26 331 iPd 58 45.30 0.5
ISg 59 26.10

21d 22h

WTTA 3.15 314 iPnd 58 58.60 1.2
 i 59 38.30
 iSn 59 41.20
 S.D. = 1.1 on 10 of 11 obs.

? OCT 21, 1991 22h 59m 23.19±0.67s
 41.275 S ±15.9km 90.192 W ±20.2km
 DEPTH = 10.0km (geophysicist)
 4.8mb (3 obs.)

SOUTHERN PACIFIC OCEAN (692)

PDCR 52.83 72 eP 08 41.40 0.3
 SOB1 53.86 68 eP 08 49.10 0.4
 NVL 55.39 157 ePd 08 59.50 0.2
 e 19 12.00

JSC 75.63 8 (P) 11 08.00 -1.8
 MEO 76.08 353 iPd 11 13.20 0.8
 ALO 77.30 346 eP 11 19.00 -0.5
 1.0s 5.75nm 4.6mb

ANMO 77.31 346 P 11 20.30 0.8
 0.8s 6.16nm 4.7mb

BW06 85.48 346 eP 12 02.50 0.2
 1.2s 10.27nm 4.9mb

RSSD 85.92 350 eP 12 05.20 0.8
 GEC2 127.80 54 ePKPd 18 28.90 -1.2
 0.8s 1.08nm

e 18 30.00
 ed 18 31.90
 e 18 38.10
 e 18 42.80

TAB 146.63 81 ePKP 19 05.00 0.1
 YAK 148.45 325 iPKPc 19 09.30 2.5X
 MAIO 155.92 92 iPKPc 19 19.00 0.4

QUE 158.46 114 ePKP 19 21.50 -0.5
 S.D. = 0.9 on 13 of 14 obs.

* OCT 21, 1991 23h 25m 53.96±2.87s
 39.049 N ±22.4km 20.693 E ±13.6km
 DEPTH = 10.0km (geophysicist)
 GREECE-ALBANIA BORDER REGION (392)
 MD 2.8 (THE).

IGT 0.56 330 ePgc 26 05.60 0.3
 eSg 26 13.68

AGG 1.28 91 ePb 26 17.40 -0.3
 eSb 26 34.72

LIT 1.74 52 ePb 26 24.38 -0.1
 eSb 26 45.60

THE 2.36 47 ePn 26 34.16 0.9
 VAY 2.69 32 ePn 26 38.00 0.0

KNT 2.70 38 ePn 26 38.36 0.1
 SOH 2.71 48 ePn 26 38.40 0.1
 eSn 27 09.88

SKO 2.97 11 ePn 26 41.00 -1.0
 SRS 3.04 46 ePn 26 42.92 0.0
 eSn 27 17.36

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

OCT 21, 1991 23h 45m 28.76±0.96s
 35.032 N ±4.9km 22.576 E ±3.4km
 DEPTH = 10.1 ± 5.5 km
 4.4mb (36 obs.)

CENTRAL MEDITERRANEAN SEA (400)
 MD 4.7 (ATH), 4.4 (THE).

VLI 1.71 10 ePn 46 01.00 2.3
 NPS 2.50 84 iPnc 46 05.10 -5.0X

ATH 3.07 17 ePb 46 30.70 12.5X
 VLS 3.52 334 iPnc 46 26.00 1.4

AGG 3.99 357 ePnc 46 34.02 2.8X
 eSn 47 19.36

IGT 4.84 339 ePn 46 43.36 0.1
 eSn 47 36.08

PAIG 4.96 10 ePnc 46 46.29 1.2
 eSn 47 41.96

IZM 5.04 47 eP 46 49.00 2.7X
 LIT 5.06 359 ePn 46 48.00 1.6
 eSn 47 42.16

YER 5.08 64 iP 46 49.70 3.0X
 PRK 5.14 34 ePn 46 49.00 1.5

OUR 5.41 11 ePnc 46 52.50 1.1
 THE 5.60 3 ePnc 46 54.29 0.3
 eSn 47 57.40

EZN 5.64 31 eP 46 55.00 0.4
 SOH 5.81 6 ePnc 46 57.97 0.9

KNT 6.12 2 ePnc 47 01.82 0.4
 eSn 48 08.76

SRS 6.13 7 ePnc 47 01.65 0.2
 OHR 6.23 348 iPn 47 02.20 -0.8
 1.1s 478.00nm 6.2mb X

VAY 6.28 360 iPn 47 03.30 -0.3
 LCI 6.44 327 P 47 04.30 -1.5

ALN 6.46 24 ePn 47 07.00 0.8
 KHL 6.48 58 iP 47 08.10 1.6

ATN 6.52 301 P 47 08.00 0.9
 MEU 6.53 291 P 47 08.20 0.9

ROI 6.59 315 P 47 07.70 -0.4
 eSn 48 21.60

MMB 6.61 8 iPd 47 08.00 -0.3
 CZI 6.63 311 P 47 08.50 -0.1
 eSn 48 22.40

DST 6.64 45 eP 47 11.00 2.2
 EDC 6.76 37 eP 47 10.00 -0.4

KKB 6.84 3 iP 47 12.00 0.5
 RZN 6.85 14 iPc 47 12.00 0.1

CSI 6.89 315 P 47 13.60 1.4
 eSn 48 33.50

BCK 6.91 67 iP 47 13.50 0.8
 KDZ 6.97 18 iP 47 14.00 0.6

SKO 6.99 353 iPc 47 12.90 -0.7
 1.1s 223.00nm 6.2mb X

E 10s 2.49um
 i 49 03.00
 i 49 28.00

LR 50 30.00
 7.14 315 P 47 15.80 0.1
 eSn 48 36.40

BRT 7.21 326 P 47 15.40 -1.4
 PLD 7.26 13 iP 47 18.00 0.7

ULC 7.39 340 iPd 47 17.00 -2.3
 MGR 7.55 315 P 47 20.80 -0.7

BAI 7.56 325 P 47 21.00 -0.6
 VTS 7.56 4 eP 47 21.00 -0.8

IZI 7.61 44 eP 47 24.00 1.6
 BDV 7.81 339 iPd 47 22.10 -3.0X

PVY 7.82 346 iPd 47 24.26 -1.1
 TTG 7.83 342 iPd 47 23.14 -2.2

DMK 7.90 29 eP 47 26.50 0.1
 SGO 7.97 316 P 47 26.90 -0.4

HCY 8.06 338 iPd 47 24.82 -3.8
 IVA 8.10 346 iPd 47 27.88 -1.4

NKY 8.25 341 iPd 47 28.82 -2.6
 PVL 8.45 14 eP 47 32.00 -2.0

BRY 8.46 339 iPd 47 30.36 -4.0
 PLE 8.65 344 iPd 47 35.08 -1.8

HLW 9.02 122 ePn 47 22.50 -19.5X
 ePb 47 31.40
 ePg 47 41.50
 eSn 48 14.00
 eSb 48 27.00

DUI 9.19 318 P 47 44.70 0.4
 KOT 9.32 120 ePn 47 44.50 -1.6
 eSn 49 26.50

BBTK 9.41 56 iPc 47 49.00 1.5
 HVAR 9.42 332 iPn 48 44.60 57.1X

SDI 9.57 317 P 47 48.50 -1.1
 BUC1 9.67 15 eP 48 15.00 24.1X

BUC 9.75 15 eP 48 18.00 26.0X
 BEO 9.91 351 eP 47 50.40 -3.8X

CMP 10.40 10 ePc 48 02.00 1.1
 ZNT 10.75 102 eP 48 03.40 -2.4
 eS 49 55.10

MLR 10.76 13 ePd 48 06.50 0.5
 HRI 11.05 95 eP 48 10.00 0.1

ASS 11.12 319 P 48 10.50 -0.4
 SHMJ 11.20 98 Pd 48 08.48 -3.4X

DSI 11.26 104 eP 48 10.90 -1.7
 ARV 11.27 321 P 48 11.00 -1.9

VRI 11.28 15 ePc 48 11.50 -1.4
 SALJ 11.35 102 Pd 48 10.76 -3.2X

BURJ 11.37 100 Pd 48 12.39 -2.0
 KFNJ 11.39 102 Pc 48 12.10 -2.4

LISJ 11.46 106 Pc 48 13.40 -1.9
 MASJ 11.47 103 Pc 48 07.80 -7.8X

DHLJ 11.56 108 Pd 48 13.29 -3.5X
 MBH 11.64 113 eP 48 16.50 -1.5

VBY 11.85 334 ePn 48 19.70 -1.0
 eSn 50 29.70

UZD 11.94 347 e(P) 48 18.00 -3.8X
 PTJ 11.96 337 eP 48 17.90 -4.4X

RIY 12.05 331 e(Pn) 48 21.40 -1.9
 CEY 12.36 332 eP 48 25.50 -2.1
 eS 50 37.50

LJU 12.58 333 e(P) 48 28.00 -2.4
 eS 50 47.00
 BMR 12.65 3 ePd 48 33.00 1.6

VOY 12.81 332 eP 48 31.60 -2.0
 eS 50 51.80

PSZ 13.03 352 ePn 48 35.00 -1.6
 SRO 13.16 347 eP 48 35.40 -2.8X

FVI 13.71 330 P 48 46.50 1.1
 ZST 13.77 344 eP 48 42.30 -3.9X

CTI 13.77 326 P 48 45.00 -1.4
 KBA 13.89 333 iPc 48 47.90 -0.1
 1.3s 16.80nm 4.7mb

i 48 56.10
 iS 51 18.20
 BHG 14.60 333 eP 48 57.10 -0.1

WTTA 14.72 329 iPc 49 00.40 1.5
 1.3s 47.10nm 4.9mb

i 49 07.40
 iS 51 36.80
 i 51 42.10

KRA 15.14 353 eP 49 03.60 -0.5
 e 49 09.90

KHC 15.57 338 P 49 09.80 -0.1
 1.0s 21.40nm 4.4mb

i 49 15.50
 e 49 24.00

PRU 16.06 341 eP 49 14.50 -1.6
 1.0s 13.80nm 4.0mb

Z 15s 0.80um 5.2msz
 N 12s 0.70um

E 13s 0.50um
 e 49 29.30
 e 50 02.50

KSP 16.45 346 ePc 49 24.60 3.6X
 GRF 16.85 334 ePn 49 29.20 3.1X

1.3s 80.00nm 4.7mb
 Z 21s 0.40um 6.6mszX

BRG 17.03 341 iP 49 31.20 2.9X
 1.2s 30.00nm 4.3mb

i 49 42.30
 BSF 17.38 322 eP 49 32.60 -0.3

1.2s 41.65nm 4.4mb
 MOX 17.52 336 ePd 49 37.20 2.7X

2.0s 54.00nm 4.3mb
 Z 19s 0.70um

N 18s 0.70um
 E 19s 0.40um

PDF 17.54 324 eP 49 34.70 -0.1
 1.2s 29.75nm 4.3mb

CLL 17.68 340 iP 49 38.70 2.3
 1.5s 47.00nm 4.4mb

HAU 17.72 322 eP 49 36.70 -0.3
 1.0s 20.00nm 4.2mb

Z 20s 0.13um 3.7msz
 LBF 18.37 316 eP 49 46.10 0.9

0.8s 6.05nm 3.8mb
 LOR 18.60 317 eP 49 48.50 0.6

1.0s 7.00nm 3.8mb
 Z 20s 0.13um 5.4msz

SSF 18.69 316 eP 49 48.50 -0.4
 1.0s 6.00nm 3.7mb

WLF 18.94 326 iPc 49 53.25 1.3
 LPO 18.99 307 eP 49 54.10 1.4

1.2s 23.80nm 4.3mb
 TCF 19.05 312 eP 49 53.10 -0.3

0.8s 4.05nm 3.7mb
 TAB 19.31 74 eP 49 57.00 0.1

LFF 19.39 307 eP 49 57.90 0.4
 1.0s 14.00nm 4.2mb

BNS 19.44 330 iPc 50 03.20 5.1X
 MEM 19.68 327 iPc 50 02.20 1.5

ENN 19.83 328 eP 50 07.00 4.7X
 1.1s 27.00nm 4.5mb

DOU 19.97 324 Pc 50 03.70 -0.1
 1.0s 52.70nm 4.8mb

WTS 20.38 331 eP 50 08.50 0.5
 1.0s 13.00nm 4.2mb

SNF 20.40 325 iPc 50 08.92 0.6
 UCC 20.56 326 P 50 11.00 1.1

MFF 20.64 311 eP 50 10.80 -0.1
 1.0s 28.00nm 4.6mb

LDF 21.57 316 eP 50 20.20 -0.1
 1.2s 23.80nm 4.5mb

TOL 21.65 291 eP 50 26.00 4.8X
 COP 21.80 344 eP 50 22.00 -0.5

1.3s 53.85nm 4.8mb
 LPF 21.83 314 eP 50 22.60 -0.3

FLN	0.8s	10.75nm	4.3mb	SUE	0.34	73	iPd	23	59.66	0.5	NAV	24.31	29	P	59	19.50	13.7X			
	21.86	316 eP	50	23.30	0.1	ASK	0.72	131	eP	24	05.49	-0.9	BLA	24.40	30	P	59	07.60	1.0	
	1.2s	35.70nm	4.7mb						eS	24	16.35			0.8s	16.78nm	4.6mb				
Z	20s	0.13um	3.3MsZ	FOO	0.79	35	eP	24	07.34	-0.2			pP			59	17.90	38km		
GRR	21.89	315 eP	50	23.40	-0.2				eS	24	17.25		GLD	24.60	342	P	59	09.50	0.8	
	1.2s	26.80nm	4.5mb	EGD	0.89	141	eP	24	09.35	0.1			1.0s	36.00nm	4.9mb					
OBN	22.30	22 eP	50	25.00	-2.5				iS	24	20.89		GOL	24.60	341	P	59	08.70	-0.1	
	1.3s	*****nm	8.0mb	X		HYA	1.04	78	iP	24	11.37	-0.4		0.8s	14.88nm	4.6mb				
Z	10s	0.70um	4.4MsZ	X					eS	24	25.71				pP		59	20.00	44km	
		i	50	29.00		ODD1	1.64	129	eP	24	22.01	0.8	PV09	24.92	334	P	59	13.00	1.1	
MUD	23.30	341 eP	50	39.00	1.7				Lg	24	43.90				pP		59	23.70	41km	
	1.4s	14.00nm	4.3mb										PLM	25.55	315	P	59	17.80	0.0	
AVE	24.83	275 iP	50	56.20	3.7X								MSU	26.33	329	P	59	25.80	0.8	
		i	51	10.00									GSC	26.69	318	eP	59	15.00	-13.1X	
UPP	25.05	354 iP	50	52.60	-1.6								SBB	26.98	316	eP	59	48.00	17.2X	
NUR	25.53	2 eP	50	59.20	0.5								DAU	27.43	333	P	59	35.00	-0.1	
	0.8s	9.20nm	4.5mb										CWC	28.20	319	eP	59	52.00	10.0X	
HFS	25.77	350 eP	50	59.90	-1.1								RSSD	28.38	347	P	59	44.80	1.2	
	0.6s	12.20nm	4.8mb											0.8s	8.01nm	4.4mb				
Z	15s	0.23um	3.8MsZ	X									TNP	28.74	322	P	59	46.90	0.1	
		LR	01	07.00		SMF	0.55	273	Pg	44	12.00	0.1			28.76	338	P	59	52.60	5.6X
SHI	25.81	94 eP	51	04.00	2.1								BW06	0.8s	3.57nm	4.1mb				
EKA	26.95	327 Pd	51	12.30	0.3	LBF	0.58	309	Pg	44	12.50	-0.1								
	1.3s	21.20nm	4.7mb										HVU	29.20	333	P	59	45.70	-5.2X	
NB2	27.03	348 P	51	11.50	-1.2	LOR	0.84	321	Pg	44	17.00	0.0	PTI	29.92	334	P	00	08.00	10.6X	
	0.5s	2.70nm	4.2mb												pP		00	12.50	16kmX	
KAF	27.20	4 eP	51	13.10	-1.1	SSF	0.89	300	Pg	44	17.80	-0.1	HPI	30.92	335	P	00	06.60	0.4	
	0.6s	4.10nm	4.3mb												pP		00	16.90	37km	
DCN	27.86	320 eP	51	20.00	-0.2	AVF	0.90	281	Pg	44	17.80	-0.2	ORV	32.25	320	P	00	17.70	0.1	
DMU	27.95	322 eP	51	20.00	-1.0								LRM	32.43	337	eP	00	19.20	-0.3	
MAIO	29.91	77 eP	51	39.00	0.0								LBFM	33.60	323	P	00	28.90	-0.7	
SOD	32.47	3 iP	52	01.00	0.0								SES	35.99	343	eP	00	48.00	-1.7	
QUE	37.46	85 eP	52	47.00	2.7X								DPW	36.38	334	P	01	03.60	10.5X	
KIC	38.04	228 P	52	51.46	2.4										pP		01	08.50	17kmX	
NDI	46.36	82 eP	53	58.50	1.6								LON	37.19	330	P	00	59.60	-0.3	
POO	48.11	96 eP	54	11.00	0.1								PNT	38.10	334	eP	01	18.00	10.6X	
WMQ	49.89	59 P	54	24.50	0.1									0.8s	11.00nm					
	1.0s	8.40nm	4.7mb			OXX	1.38	290	iP	54	12.38	-1.4	FFC	38.38	354	eP	01	20.00	10.3X	
		sP	54	44.50										0.5s	10.00nm					
HYB	52.53	94 eP	54	45.00	0.4	SCX	2.63	87	iP	54	28.50		MCW	39.05	331	P	01	18.90	3.5X	
KKN	53.24	79 P	54	50.40	0.4								SIV	46.84	132	P	02	16.60	-2.4X	
IRK	58.44	46 eP	55	25.60	-1.2								YKA	47.78	348	eP	02	35.60	9.9X	
LZH	64.15	63 eP	56	05.50	-0.3									1.0s	7.90nm	4.7mb				
	1.3s	19.00nm	5.1mb										BAO	56.67	122	e(P)	03	31.00	-2.0X	
		sP	56	19.50									INK	57.04	344	eP	03	33.00	-1.7	
CD2	66.41	68 P	56	20.60	0.3										pP		03	44.00	37km	
HHC	67.46	55 P	56	27.60	0.7								PPD	57.77	130	(P)	03	33.00	-7.5X	
CHG	68.51	82 eP	56	34.00	0.4								PMR	58.63	333	P	03	51.00	5.1X	
CHTO	68.51	82 eP	56	34.00	0.4									0.7s	8.72nm	5.0mb				
	1.1s	3.83nm	4.5mb										SLKM	58.66	332	P	04	01.00	14.7X	
GYA	70.79	71 P	56	48.00	0.3								RND	59.30	335	P	03	50.10	-0.6X	
INK	75.43	351 eP	57	13.00	-1.0								FBA	59.58	337	P	03	50.80	-1.7	
		pP	57	43.00	118kmX									0.7s	5.81nm	4.8mb				
FFC	78.73	331 eP	57	20.00	-12.6X	ACX	4.31	274	iP	54	56.04	0.7	RSO	59.81	331	P	04	04.70	10.3X	
	0.6s	10.00nm											MBC	60.95	354	eP	04	00.50	-1.2	
IMA	79.18	358 eP	57	37.40	2.4X									1.0s	9.00nm	4.9mb				
	1.1s	12.30nm	4.8mb												pP		04	17.00	62kmX	
FBA	80.11	356 eP	57	41.80	2.0								DAG	70.87	14	eP	05	04.10	-1.0	
PWA	83.46	356 eP	57	59.70	2.3X								LPF	80.68	43	eP	06	12.10	11.0X	
	1.0s	74.40nm	5.8mb	X										0.6s	5.40nm					
DZM	145.92	77 iPKPc	05	12.60	2.7X								GRR	80.71	42	eP	06	11.60	10.4X	
														0.8s	5.35nm					
													FLN	80.85	42	eP	06	11.20	9.2X	
														0.8s	8.05nm	4.8mb				
													Z	20s	0.13um	4.3MsZ				
													LFF	82.67	45	eP	06	23.40	11.8X	
														0.8s	8.05nm					
													LPO	83.05	46	eP	06	24.80	11.3X	
														1.0s	10.00nm					
													RJF	83.10	45	eP	06	25.00	11.2X	
														0.8s	8.05nm					
													Z	20s	0.10um	4.2MsZ				
													NB2	83.40	28	P	06	15.60	0.6	
														1.2s	11.40nm	4.8mb				
													BGF	83.62	43	eP	06	24.40	8.0X	
														0.8s	9.40nm	4.9mb				
													SSF	83.90	43	eP	06	22.70	4.9X	
														0.8s	4.05nm	4.6mb				
													LOR	84.07	43	eP	06	21.80	3.1X	
														1.0s	6.00nm	4.7mb				
													Z	20s	0.13um	4.3MsZ				
													LBF	84.23	43	eP	06	22.60	3.0X	
														1.0s						

22d 03h

HYB 145.66 10 ePKP 13 25.50 -1.9
S.D. = 1.1 on 51 of 88 obs.

% OCT 22, 1991 03h 12m 42.15 ± 1.76s
11.334 N ± 7.4km 62.027 W ± 19.3km
DEPTH = 33.0km (normal)

WINDWARD ISLANDS (95)
MD 3.6 (TRN).

TCE 0.69 157 eP 12 56.19 0.8
eS 13 10.11

GRW 0.90 24 eP 13 00.06 1.6
TRN 0.92 138 eP 12 58.94 0.3
eS 13 14.27

TPP 1.16 151 eP 13 01.40 -0.7
eS 13 19.15

PIG 1.18 98 eP 13 02.94 0.6
TPR 1.23 97 eP 13 03.25 0.1
eS 13 20.62

TBH 1.27 132 eP 13 02.93 -0.7
eS 13 20.38

BOT 1.29 97 eP 13 03.72 -0.3
eS 13 21.22

FCV 1.97 23 eP 13 12.11 -1.7
eS 13 38.36

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

? OCT 22, 1991 03h 15m 40.82 ± 6.24s
34.233 S ± 33.2km 70.341 W ± 28.9km
DEPTH = 10.0km (geophysicist)

CHILE-ARGENTINA BORDER REGION (127)

CHCH 0.40 319 iPc 15 49.00 0.1
iS 15 55.50

PCH 0.63 347 iPc 15 53.30 -0.2
iS 16 03.00

TACH 0.76 319 iP 15 55.50 -0.2
SAN 0.82 341 eP 15 57.00 0.2
iS 16 08.70

LNV 0.93 287 iPc 15 58.60 0.1
iS 16 12.00

PEL 1.12 345 iP 16 02.00 0.1
iS 16 18.00

S.D. = 0.2 on 6 of 6 obs.

? OCT 22, 1991 03h 20m 05.34 ± 4.71s
33.133 S ± 11.0km 72.352 W ± 34.7km
DEPTH = 10.0km (geophysicist)

OFF COAST OF CENTRAL CHILE (134)

IHA 0.61 80 iPc 20 17.80 0.2
iS 20 26.00

LCCH 0.74 118 iP 20 20.00 0.2
iS 20 28.50

LNV 1.14 136 iPc 20 26.40 -0.2
iS 20 40.50

ROCH 1.14 82 iP 20 26.50 -0.3
iS 20 41.50

TACH 1.29 114 iP 20 29.00 -0.3
iS 20 45.00

PEL 1.40 91 iPd 20 31.00 0.1
iS 20 48.50

SAN 1.45 103 ePc 20 31.50 -0.1
iS 20 49.80

JACH 1.55 74 iPc 20 33.00 -0.1
iS 20 52.00

PCH 1.61 108 iP 20 34.20 0.2
iS 20 54.50

CHCH 1.63 120 iP 20 34.50 0.3
iS 20 54.50

RTLL 3.75 62 ePc 21 10.80 6.3X
CFA 3.80 67 e(P) 21 10.80 4.8X

RTRS 3.85 41 e(P) 21 13.20 7.4X
S.D. = 0.3 on 10 of 13 obs.

OCT 22, 1991 03h 21m 48.82 ± 0.82s
44.772 N ± 5.6km 7.691 E ± 8.4km
DEPTH = 26.8 ± 8.4 km

NORTHERN ITALY (545)
ML 2.3 (GEN), 2.0 (LDG).

BHB 0.31 283 P 21 56.96 0.7
S 22 02.60

RSP 0.49 321 P 21 58.19 -0.8
S 22 06.60

ROB 0.49 165 P 21 59.43 0.4
S 22 07.63

PZZ 0.50 238 P 21 58.91 -0.3
S 22 06.71

ENR 0.58 200 P 22 00.14 -0.3
S 22 08.96

STV 0.59 207 P 21 59.94 -0.7
S 22 08.45

FIN 0.67 146 P 22 01.58 -0.4
S 22 11.63

IMI 0.87 171 P 22 05.37 0.1
S 22 16.75

SBF 0.93 192 Pg 22 05.40 -0.7
Sg 22 17.90

LPL 1.01 318 Pg 22 07.50 0.1
Sg 22 20.00

FRF 1.43 212 Pg 22 12.60 -0.5
Sg 22 31.00

LRG 1.63 217 Pg 22 16.40 0.4
S.D. = 0.6 on 12 of 12 obs.

? OCT 22, 1991 03h 55m 58.96 ± 15.04s
34.331 S ± 75.7km 70.191 W ± 71.9km
DEPTH = 10.0km (geophysicist)

CHILE-ARGENTINA BORDER REGION (127)

CHCH 0.55 316 iPc 56 10.30 0.1
iS 56 16.50

PCH 0.76 339 iPc 56 14.10 0.3
iS 56 23.30

TACH 0.92 317 iP 56 16.50 0.0
iS 56 28.00

SAN 0.96 336 eP 56 16.50 -0.7
iS 56 29.50

LNV 1.08 290 iPc 56 19.20 0.0
iS 56 32.70

PEL 1.25 341 iPc 56 22.60 0.3
iS 56 38.00

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

& OCT 22, 1991 04h 00m 42.30s
38.785 N 122.775 W

DEPTH = 3.0km
NORTHERN CALIFORNIA (36)

<BRK>. ML 3.4 (BRK).
Mo=2.1*10**14 Nm (BRK). Felt

(IV) at Cobb.

NWRM 0.34 195 eP 00 48.82 -0.3
ZSP 0.93 154 iPc 01 00.56 -0.2
iS 01 15.88

BKS 1.00 155 iP 01 02.50 0.6
iS 01 14.50

ORV 1.25 52 eP 01 06.07 -0.2
PCC 1.32 166 iPc 01 05.89 -1.4
eS 01 26.30

GCC 1.86 160 iPd 01 13.23 -2.0
CMB 2.02 111 iPc 01 16.60 -1.1
iS 01 43.72

FHC 2.22 336 iPc 01 32.01 11.4
SAO 2.28 152 eP 01 19.41 -2.0

LBFM 2.65 15 Pn 01 28.38 1.5
Pg 01 32.95

FRI 3.02 125 iPc 01 32.51 0.7
BONR 3.61 102 eP 01 40.61 0.0

TNP 4.42 97 eP 01 51.27 -0.8
13 obs. associated

& OCT 22, 1991 04h 03m 03.50s
38.778 N 122.760 W

DEPTH = 2.0km
NORTHERN CALIFORNIA (36)

<BRK>. ML 3.7 (BRK).
Mo=6.6*10**14 Nm (BRK). Felt

(IV) at Cobb.

NWRM 0.34 197 eP 03 10.25 0.0
ZSP 0.92 154 iPc 03 21.13 -0.7
iS 03 36.75

BKS 0.99 155 eP 03 22.90 -0.1
iS 03 36.80

ORV 1.25 51 iPd 03 25.99 -1.5
PCC 1.31 167 ePc 03 26.91 -1.6

MHC 1.68 148 eP 03 33.75 -0.5
WDC 1.81 5 iPc 03 40.34 4.5

GCC 1.85 161 iPc 03 34.12 -2.3
CMB 2.01 111 iPc 03 37.73 -1.1
iS 04 03.64

SAO 2.26 152 eP 03 40.10 -2.4

LBFM 2.65 14 eP 03 49.09 0.9
FRI 3.00 126 iPc 03 52.22 -0.8

BONR 3.60 102 e(P) 04 01.42 -0.3
KVN 3.65 84 eP 04 01.34 -1.0

TNP 4.41 97 e(P) 04 12.91 -0.3
15 obs. associated

& OCT 22, 1991 04h 06m 38.83s
38.827 N 122.820 W

DEPTH = 0.1km
NORTHERN CALIFORNIA (36)

<GM-P>. MD 3.0 (GM).

NWRM 0.37 188 eP 06 46.62 0.3
ORV 1.26 54 eP 07 00.83 -2.3

CMB 2.07 112 eP 07 13.93 -1.4
LBFM 2.62 16 e(P) 07 22.00 -1.3

BONR 3.66 102 eP 07 36.00 -2.1
KVN 3.69 85 eP 07 36.83 -1.7

TNP 4.46 98 e(P) 07 50.63 1.1
7 obs. associated

& OCT 22, 1991 04h 07m 35.65s
38.831 N 122.825 W

DEPTH = 0.1km
NORTHERN CALIFORNIA (36)

<GM-P>. MD 3.0 (GM).

NWRM 0.38 188 eP 07 43.30 0.1
CMB 2.07 112 e(P) 08 09.00 -3.2

2 obs. associated

& OCT 22, 1991 04h 16m 15.96s
63.197 N 149.528 W

DEPTH = 92.5km
CENTRAL ALASKA (1)

<AEIC>.

HUR 0.23 193 iP 16 29.30 1.5
eS 16 39.54

RND 0.37 55 iP 16 30.27 -0.1
eS 16 41.26

TRF 0.43 307 eP 16 30.91 0.0
S 16 42.46

MCK 0.60 26 eP 16 31.97 -0.1
S 16 43.84

CUT 0.87 204 iP 16 34.21 -0.4
BWN 0.98 2 eP 16 35.38 -0.5

NEA 1.40 8 eP 16 40.06 -0.9
WRH 1.43 26 iP 16 40.57 -0.7
S 16 58.75

GHO 1.46 169 eP 16 41.72 -0.1
eS 17 01.59

SML 1.50 158 iP 16 41.90 -0.4
eS 17 02.40

SKT 1.53 218 iP 16 41.73 -0.9
eS 17 01.89

PWA 1.56 186 eP 16 43.14 0.2
PLRM 1.62 173 iP 16 43.20 -0.6
S 17 04.72

CCB 1.64 27 eP 16 43.12 -0.9
eS 17 03.29

HDA 1.67 42 eP 16 43.55 -0.8
S 17 05.94

SCM 1.71 142 eP 16 45.07 0.1
S 17 07.37

THY 1.72 81 eP 16 46.35 1.2
DDM 1.75 69 eP 16 45.71 0.2

SUA 1.83 199 eP 16 46.43 -0.2
S 17 11.23

MDM 1.86 17 iP 16 46.12 -0.8
KNK 1.86 164 eP 16 46.50 -0.4
S 17 10.35

PAX 1.86 95 eP 16 47.15 0.1
S 17 11.01

TOA 1.90 124 eP 16 47.43 -0.1
eS 17 12.38

DJE 1.91 62 eP 16 47.07 -0.5
S 17 12.22

SDG 1.95 108 eP 16 47.84 -0.3
S 17 13.18

PMS 1.96 180 eP 16 48.37 0.1
eS 17 11.53

GLM 2.03 27 iP 16 48.32 -0.9
NCG 2.18 215 eP 16 50.52 -0.8
eS 17 17.47

TZL 2.22 120 eP 16 51.44 -0.3

CGLM	2.22	213	eP	16	51.08	-0.8
SPU	2.34	211	eP	16	52.79	-0.7
BGL	2.36	216	eP	16	53.32	-0.4
KLU	2.40	134	eP	16	52.80	-1.4
CKL	2.40	215	eP	16	54.21	-0.1
DOT	2.50	77	eP	16	55.44	-0.1
VLZ	2.56	143	eP	16	54.28	-2.0
VZW	2.56	146	eP	16	54.94	-1.5
GLI	2.59	153	eP	16	55.09	-1.7
SLKM	2.72	187	eP	16	58.11	-0.4
FID	2.85	148	eP	16	58.89	-1.4
RDT	2.96	209	eP	17	01.84	-0.1
KNIM	2.98	163	eP	17	00.35	-1.8
RDN	3.10	211	eP	17	03.39	-0.4
SEW	3.10	179	eP	17	02.88	-0.9
REF	3.11	210	eP	17	02.91	-1.1
RDW	3.14	211	eP	17	03.31	-1.1
RS2	3.14	211	eP	17	03.97	-0.5
GLB	3.20	121	eP	17	04.08	-1.0
CVA	3.21	144	eP	17	04.36	-0.8
LTJ	3.27	165	eP	17	04.00	-2.0
NNL	3.28	196	eP	17	06.34	0.2
MTU	3.34	164	eP	17	06.72	-0.3
INE	3.57	210	eP	17	07.42	-2.9
CNPM	3.77	193	eP	17	11.61	-1.4
HMT	3.81	137	eP	17	11.45	-2.0
CRQM	3.88	126	eP	17	13.69	-1.0
BALM	4.01	120	eP	17	14.60	-1.8
PDB	4.09	215	eP	17	16.32	-1.0

58 obs. associated

& OCT 22, 1991 04h 29m 30.50s
36.655 N 121.318 W
DEPTH = 1.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.6 (BRK).

SAO	0.15	317	iPc	29	33.43	-0.1
LLA	0.30	97	iPc	29	36.66	0.1
PRS	0.33	187	iPd	29	37.02	0.0
GCC	0.66	305	iPd	29	42.84	-0.8
ARN	0.71	346	iPc	29	44.70	-0.1
MHC	0.73	339	eP	29	45.50	0.4
			eS	29	56.95	
			e	29	57.20	
PRI	0.73	134	eP	29	44.72	-0.5
PHAM	1.10	137	eP	29	50.80	-1.3
PCC	1.20	315	iPc	29	52.10	-1.5
FRI	1.33	75	iPc	29	53.94	-2.0
			iS	30	12.22	
CMB	1.57	28	iPc	29	58.88	-0.7
			eS	30	16.78	
BCH	1.78	145	eP	30	00.60	-2.1

12 obs. associated

% OCT 22, 1991 04h 36m 53.38±0.73s
12.533 N ± 4.8km 60.872 W ± 17.0km
DEPTH = 33.0km (normal)
WINDWARD ISLANDS (95)
MD 3.3 (TRN).

GRW	0.86	244	eP	37	09.33	0.2
			eS	37	21.60	
TRN	1.94	196	eP	37	24.61	-0.1
			eS	37	47.04	
BIM	1.98	354	iPc	37	25.34	0.1
MVM	2.01	359	iPc	37	25.98	0.3
			S	37	50.30	
TCE	2.02	205	eP	37	25.86	0.1
			eS	37	48.65	
TBH	2.04	185	eP	37	27.12	1.0
			eS	37	52.43	
FDF	2.20	353	eP	37	28.09	-0.3
			S	37	54.40	
CRM	2.21	359	iPd	37	28.37	-0.1
TPP	2.27	195	eP	37	28.23	-1.1
			eS	37	55.51	

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

% OCT 22, 1991 05h 08m 53.15±0.57s
42.293 N ± 4.8km 19.063 E ± 4.1km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 2.0 (TTG).

BDV	0.17	267	iPgd	08	57.40	0.3
			iSg	09	00.64	

TTG	0.20	47	iPgd	08	58.00	0.5
			iSg	09	01.08	
ULC	0.36	157	iPgd	09	00.48	0.0
			iSg	09	05.86	
HCY	0.45	290	iPgc	09	02.04	-0.2
			iSg	09	08.88	
NKY	0.52	355	iPgc	09	03.56	-0.2
			iSg	09	11.32	
BRY	0.72	328	iPgc	09	07.26	-0.1
			iSg	09	17.82	
PVY	0.74	66	iPgc	09	07.36	-0.4
			iSg	09	18.36	
IYA	0.85	47	iPgc	09	09.44	-0.1
			iSg	09	21.84	
PLE	1.06	13	iPgd	09	13.54	0.3
			iSg	09	29.16	

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

? OCT 22, 1991 05h 21m 55.76±11.63s
44.914 N ± 74.4km 3.119 E ± 25.8km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.3 (STR).

LBL	0.33	16	Pg	22	02.41	-0.2
			Sg	22	05.26	
COLF	0.73	34	Pg	22	09.79	-0.3
			Sg	22	18.39	
PYM	0.84	355	Pg	22	11.73	-0.3
			Sg	22	21.49	
PLDF	1.11	18	Pg	22	17.39	0.7
			Sg	22	29.92	
AGO	1.14	0	Pg	22	17.25	0.2
			Sg	22	30.64	

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

? OCT 22, 1991 05h 30m 12.72±5.67s
32.931 S ± 20.7km 72.039 W ± 36.9km
DEPTH = 10.0km (geophysicist)
OFF COAST OF CENTRAL CHILE (134)

LCCH	0.67	144	iP	30	26.00	0.0
			iS	30	37.00	
ROCH	0.87	93	iP	30	29.50	0.0
			iS	30	42.00	
LNW	1.15	153	iP	30	33.50	-0.7
			iS	30	50.20	
PEL	1.16	101	iPd	30	34.40	0.0
			iS	30	51.50	
TACH	1.17	128	iP	30	34.50	-0.1
			iS	30	51.50	
JACH	1.24	79	eP	30	35.50	-0.4
			iS	30	54.10	
SAN	1.27	115	iP	30	36.50	0.2
			iS	30	54.00	
PCH	1.45	119	iPc	30	39.40	0.3
CHCH	1.53	131	iP	30	41.00	0.8
			iS	31	02.00	

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

? OCT 22, 1991 08h 25m 48.07±0.96s
39.129 N ± 7.8km 27.573 E ± 9.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZM	0.77	198	ePg	26	03.20	0.1
			eSg	26	15.00	
DST	0.95	59	iPn	26	06.00	-0.1
EZN	1.19	306	ePn	26	10.00	-0.2
KGT	1.34	351	iPn	26	13.00	0.3

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

* OCT 22, 1991 09h 02m 13.57±1.30s
44.552 N ± 7.5km 115.760 W ± 11.8km
DEPTH = 5.0km (geophysicist)
WESTERN IDAHO (33)
ML 3.2 (BUT).

HPI	2.09	113	ePn	02	48.74	-1.3
			ePg	02	51.20	
			eS	03	22.05	
MCMT	2.09	81	ePn	02	50.90	0.9
HBMT	2.55	60	ePn	02	56.50	-0.1
LRM	2.66	60	ePn	02	58.00	-0.1
BUT	2.69	56	ePg	03	08.60	10.2X
			eSn	03	35.70	
			eSg	03	45.10	

BGMT	2.73	74	ePn	02	59.40	0.3
PTI	2.98	123	eP	03	02.53	0.0
			eS	03	44.77	
HRY	3.50	51	ePn	03	09.40	-0.5
HVU	3.53	141	eP	03	10.84	0.5
			eS	04	00.52	
SXM	3.58	62	ePn	03	11.40	0.2
NEW	3.83	346	eP	03	14.50	0.0

S.D. = 0.7 on 10 of 11 obs.

* OCT 22, 1991 12h 11m 08.92±0.85s
29.593 N ± 17.1km 51.515 E ± 9.4km
DEPTH = 33.0km (normal)
4.3mb (3 obs.)
SOUTHERN IRAN (353)

SHI	0.88	86	iPc	11	25.00	-0.1
DHR	3.50	201	eP	12	30.00	27.7X
			eS	13	32.00	
RYD	6.53	223	eP	12	52.00	6.8X
			eS	14	05.00	
MJMA	6.66	237	eP	12	48.00	1.0
			eS	14	01.00	
QASM	7.88	246	eP	13	03.00	-1.1
			eS	14	29.00	
UQSK	8.95	247	eP	13	19.00	-0.1
			eS	14	58.00	
AFIF	9.23	236	eP	13	27.00	4.1X
			eS	15	10.00	
LPG	38.35	307	eP	18	29.10	0.3
	0.8s		4.05nm		4.3mb	
LPL	38.37	307	eP	18	28.80	-0.1
	0.8s		4.05nm		4.3mb	
SMF	40.52	308	eP	18	43.90	-2.5X
	0.8s		6.70nm		4.4mb	

S.D. = 0.9 on 6 of 10 obs.

& OCT 22, 1991 12h 43m 43.40s
37.598 N 121.822 W
DEPTH = 6.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.9 (BRK).

MHC	0.29	151	iPc	43	49.35	0.0
			iS	43	54.20	
ARN	0.34	137	iPd	43	49.95	-0.3
			eS	43	55.33	
BKS	0.43	310	iPc	43	52.40	0.4
			iS	43	58.70	
PCC	0.46	258	iPd	43	52.22	-0.3
			iS	43	59.34	
ZSP	0.49	315	iPc	43	53.16	0.0
GCC	0.58	194	iPd	43	54.54	-0.6
SAO	0.88	160	iPc	43	59.89	-0.9
LLA	1.21	144	iPc	44	04.57	-1.7
CMB	1.22	69	iPd	44	04.89	-1.6
			iS	44	21.92	
PRS	1.31	164	iPc	44	06.46	-1.6
			iS	44	22.88	
FRI	1.79	109	iPc	44	13.89	-1.2
ORV	1.97	7	eP	44	15.46	-2.2
PHAM	2.10	147	e(P)	44	22.93	3.4
BONR	2.81	82	eP	44	29.10	-0.9
TNP	3.68	81	e(P)	44	46.05	3.8

15 obs. associated

% OCT 22, 1991 13h 08m 04.91±0.81s
39.148 N ± 6.3km 27.608 E ± 8.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZM	0.80	200	ePg	08	20.30	-0.1
			eSg	08	32.30	
DST	0.91	60	ePn	08	22.70	0.3
EZN	1.20	305	ePn	08	27.50	0.2
EDC	1.21	9	ePn	08	27.20	-0.3
BNT	1.23	11	ePn	08	27.60	-0.2
KGT	1.32	350	ePn	08	29.40	0.1

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

? OCT 22, 1991 15h 05m 01.37±2.12s
9.632 N ± 14.5km 125.273 E ± 21.2km
DEPTH = 113.9 ± 19.6 km
4.9mb (3 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

DAV	2.55	173	ePc	05	42.00	-0.1
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22d 15h

IPM 24.57 260 eS 06 17.20
 WR2 30.73 163 iPc 11 07.70 -0.2
 0.5s 4.40nm 4.4mb
 QIS 33.15 155 iPc 11 27.80 -1.2
 ASPA 34.15 166 iPd 11 38.20 0.6
 0.4s 12.40nm 5.1mb
 WARB 35.62 178 eP 11 53.50 3.4X
 0.5s 10.00nm 4.9mb
 NWA0 43.01 190 eP 12 55.00 3.9X
 ADE 46.14 165 eP 13 17.00 0.8
 YAK 52.39 3 eP 14 04.20 0.5
 INK 85.24 21 eP 17 27.00 1.0
 KAF 85.73 332 eP 17 31.90 3.3X
 NUR 86.88 331 eP 17 32.10 -2.0
 S.D. = 1.3 on 9 of 12 obs.

? OCT 22, 1991 15h 06m 21.87±5.26s
 33.274 S ±11.1km 72.360 W ±39.7km
 DEPTH = 10.0km (geophysicist)
 OFF COAST OF CENTRAL CHILE (134)

LCCH 0.69 107 iPd 06 35.60 0.1
 LNV 1.04 131 iPd 06 41.70 0.2
 ROCH 1.17 75 iPd 06 43.50 -0.4
 TACH 1.25 108 iP 06 45.00 -0.1
 PEL 1.41 85 iPd 06 48.20 0.6
 SAN 1.43 98 iP 06 48.30 0.4
 CHCH 1.57 115 iPc 06 49.00 -0.9
 PCH 1.58 103 iPd 06 50.40 0.3
 JACH 1.60 69 iP 06 50.20 -0.1
 0.7s 11.00nm 4.4mb
 S.D. = 0.5 on 9 of 9 obs.

OCT 22, 1991 15h 44m 23.14±0.63s
 46.662 N ±6.4km 0.047 W ±6.2km
 DEPTH = 7.9 ± 4.8 km

FRANCE (538)
 ML 2.7 (LDG).

MFF 0.09 229 Pg 44 25.50 0.0
 LSF 1.16 110 Pg 44 27.60 -1.1
 LPF 1.53 334 Pg 44 44.00 -0.7
 TCF 1.60 103 Pg 44 50.00 -0.3
 RJF 1.74 141 Pg 44 50.60 0.5
 GRR 1.81 343 Pg 44 51.60 -0.4
 MAF 1.86 103 Pg 44 54.50 0.4
 LDF 1.93 359 Pg 44 55.00 0.4
 BGF 2.00 92 Pg 44 57.00 0.4
 FLN 2.12 352 Pg 44 58.00 0.6
 45 23.00
 45 27.20
 S.D. = 0.7 on 10 of 10 obs.

* OCT 22, 1991 15h 48m 11.34±2.48s
 0.876 N ±10.2km 79.611 W ±28.5km
 DEPTH = 33.0km (normal)
 NEAR COAST OF ECUADOR (105)
 Felt at Esmeraldas.

CUMC 1.74 87 ePd 48 39.20 -1.0
 PURC 3.55 66 eP 49 07.05 1.1
 SALC 3.58 54 eP 49 05.94 -0.2
 ANCC 3.79 46 ePd 49 08.66 -0.3
 HOQC 3.93 49 iPd 49 10.80 -0.4
 DIAC 4.17 55 ePd 49 15.85 1.4
 CLMC 4.26 46 eP 49 15.69 -0.1
 BUGC 4.50 48 ePd 49 19.53 0.4

HOBC 4.90 45 eP 49 23.71 -1.0
 ZOBO 20.47 147 P 52 50.00 0.3
 SIV 24.82 133 P 53 32.00 -0.2
 S.D. = 0.8 on 11 of 11 obs.

? OCT 22, 1991 16h 00m 56.16±5.11s
 50.796 N ±49.7km 19.457 E ±32.8km
 DEPTH = 10.0km (geophysicist)

POLAND (548)
 ML 3.0 (WAR).

KRA 0.80 157 ePg 01 11.20 -0.5
 SPC 1.69 162 iPn 01 20.90 0.6
 KSP 2.01 273 iPg 01 26.60 0.6
 ZST 3.02 211 i(Sg) 01 46.30 -0.1
 PRU 3.25 257 iS 01 54.30 -0.1
 KHC 4.14 249 eP 02 04.10 19.2X
 Sg 02 20.80
 Sg 01 48.00 -0.1
 Sg 02 17.70
 Sg 02 27.50
 Sg 02 01.00 0.1
 Sg 02 05.60
 Sg 02 40.80
 Sg 02 53.50
 S.D. = 0.6 on 5 of 6 obs.

% OCT 22, 1991 16h 08m 16.32±2.28s
 37.676 N ±14.1km 27.051 E ±17.9km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

IZM 0.74 13 iPg 08 29.90 -1.0
 CIN 0.83 95 eSg 08 42.30 0.7
 YER 1.12 118 ePg 08 33.00 0.7
 KHL 2.06 71 iSg 08 45.00 -0.5
 EZN 2.22 345 ePn 08 36.80 -0.3
 DST 2.29 32 ePn 08 51.10 -0.4
 IZI 3.26 35 ePn 08 54.10 0.3
 S.D. = 0.8 on 7 of 7 obs.

% OCT 22, 1991 16h 09m 50.92±2.49s
 37.682 N ±15.5km 26.921 E ±20.1km
 DEPTH = 10.0km (geophysicist)

DODECANESE ISLANDS (369)

IZM 0.76 21 iPg 10 05.70 -0.2
 CIN 0.93 95 eSg 10 18.80 0.4
 YER 1.21 116 eP 10 09.00 -0.3
 EZN 2.19 348 ePn 10 13.30 -0.1
 DST 2.34 34 ePn 10 28.00 -0.1
 S.D. = 0.4 on 5 of 5 obs.

? OCT 22, 1991 16h 33m 27.58±1.62s
 7.065 N ±29.8km 73.161 W ±27.4km
 DEPTH = 160.0km (geophysicist)

NORTHERN COLOMBIA (99)

BMG 0.08 86 iPc 33 50.50 0.0
 BOG 2.59 200 eP 34 11.00 -0.1
 HOBC 4.00 228 eS 34 43.00 -0.8
 BUGC 4.41 225 eP 34 28.15 -0.8
 CLMC 4.63 227 eP 35 04.30 1.0
 HOQC 4.97 224 eP 34 35.28 0.7
 ANCC 5.10 226 eP 34 37.96 -0.5
 S.D. = 0.8 on 7 of 7 obs.

OCT 22, 1991 16h 39m 52.87±0.35s
 6.755 N ±5.4km 72.980 W ±5.7km
 DEPTH = 157.2 ± 5.9 km
 4.4mb (1 obs.)

NORTHERN COLOMBIA (99)

BMG 0.33 343 iPc 40 15.00 -0.9
 BOG 2.38 207 eP 40 35.00 1.3
 SDV 3.14 48 iS 41 06.00 1.4
 HOBC 3.94 233 iPnc 40 44.50 1.4
 iSn 41 22.00
 iPd 40 52.88 -0.5
 eS 41 29.00

BUGC 4.33 229 ePd 40 58.23 -0.2
 TOV 4.36 46 ePn 40 59.80 1.0
 CLMC 4.57 232 eS 41 48.10
 DIAC 4.70 223 eP 41 01.15 -0.5
 HOQC 4.89 228 ePd 41 03.40 -0.1
 ANCC 5.03 230 ePd 41 04.84 -1.2
 CEOS 5.13 64 iP 41 07.07 -0.7
 SALC 5.27 225 ePd 41 08.80 -0.2
 PURC 5.55 218 eP 42 06.50
 MORO 6.16 48 iS 42 29.10

UPA 6.86 289 (P) 41 10.54 -0.5
 OLLA 6.92 62 iP 41 16.37 1.4
 CUMC 7.55 220 eP 41 22.40 -0.4
 GUAN 7.92 66 iP 41 37.00 4.9X
 YHJ 11.59 343 eP 41 32.00 -1.0
 STH 11.86 342 eP 41 42.07 0.2
 BBJ 12.29 341 eP 41 45.40 -1.1
 ZOBO 23.38 168 P 42 35.01 0.4
 SIV 25.49 153 P 42 39.89 1.7
 i 42 44.09 0.3
 i 45 00.00 0.9
 i 45 09.40 1.0
 i 45 43.20

SOB1 35.69 116 (P) 46 39.00 0.9
 YKA 63.37 340 eP 50 05.80 -1.5
 0.6s 3.40nm 4.4mb
 LIC 67.47 86 P 50 33.00 -1.3
 KIC 67.74 86 P 50 35.00 -1.0
 ASPA 149.19 234 iPKPc 59 24.10 3.6X
 0.7s 10.00nm
 WRA 150.43 241 PKP 59 23.00 0.6
 0.4s 5.00nm
 S.D. = 1.0 on 27 of 29 obs.

OCT 22, 1991 16h 39m 56.52±0.46s
 38.726 N ±4.9km 20.524 E ±3.2km
 DEPTH = 10.0km (geophysicist)
 4.0mb (4 obs.)

GREECE (364)
 ML 4.2 (ATH).

VLS 0.55 175 ePg 40 06.20 -1.5
 KEK 1.14 330 ePb 40 19.00 1.2
 AGG 1.44 78 ePb 40 22.26 -0.4
 eSb 40 43.62
 LIT 2.05 47 ePn 40 32.68 1.2
 eSn 41 02.26
 OHR 2.39 5 iPn 40 37.80 1.4
 iSn 41 08.90
 Lg 41 24.90
 LCI 2.56 310 P 40 38.20 -0.4
 ATH 2.62 106 ePn 40 38.50 -1.1
 GRG 2.66 32 ePn 40 41.58 1.4
 eSn 41 15.22
 THE 2.68 44 ePn 40 41.46 1.0
 eSn 41 15.98
 PAIG 2.73 63 ePn 40 41.14 0.0
 eSn 41 16.10

VLI 2.77 136 ePb 40 46.30 4.5X
 SOH 3.02 45 ePn 40 45.62 0.3
 VAY 3.03 31 iPn 40 45.20 -0.2
 iSn 41 21.40
 iSg 41 34.00
 Lg 41 43.30

KNT 3.04 36 ePn 40 45.70 0.2
 eSn 41 24.98
 OUR 3.12 58 ePn 40 46.42 -0.2
 ROI 3.19 287 P 40 48.60 0.9
 GRI 3.21 273 P 40 52.11 4.1X
 SKO 3.32 12 ePn 40 49.90 0.4
 iPg 40 58.10
 iSn 41 28.20
 iSg 41 43.20
 Lg 41 54.20

BRT 3.34 311 P 40 50.30 0.5
 SRS 3.36 44 ePn 40 49.50 -0.6
 eSn 41 31.06
 ULC 3.38 344 iPnc 40 49.58 -0.8
 iSg 41 28.46

CS1 3.45 289 P 40 53.60 2.2
 CZ1 3.46 280 P 40 53.00 1.6
 SO1 3.57 261 P 40 54.50 1.4
 eSn 41 34.00
 BAI 3.69 312 P 41 00.00 5.2X
 MMN 3.70 290 P 40 58.40 3.4X
 MMB 3.77 40 iPc 40 56.00 0.0
 BDV 3.78 341 iPnc 40 54.36 -1.7

TTG	3.82	346	iSn	41	37.18		LIJA	5.87	84	eP	55	03.50	0.0	THY	1.66	74	eP	39	25.93	0.4
			iPnd	40	55.40	-1.2	EPRU	6.02	83	iPnc	55	06.29	0.8	SUA	1.68	204	ePc	39	26.02	0.2
			iSn	41	39.90					iSn	56	10.50					eS	39	47.80	
PVY	3.89	354	iPnc	40	57.72	0.0	EHOR	6.09	75	iPnc	55	06.41	-0.1	TOA	1.70	120	iPc	39	26.90	0.9
			iSn	41	44.20					iSn	56	10.30		DDM	1.74	61	eP	39	26.98	0.4
ATN	4.01	263	P	40	59.00	-0.4	EPLA	6.30	54	iPnc	55	08.92	-0.6	PAX	1.75	89	ePd	39	26.44	-0.3
HCY	4.03	338	iPnc	40	56.80	-2.7				iSn	56	12.30					eS	39	48.84	
			iSn	41	41.92		IFR	6.89	113	iPn	55	17.50	-0.5	PMS	1.76	184	ePc	39	27.00	0.2
MGR	4.10	292	P	41	01.70	1.2				i	55	21.00		HDA	1.76	35	iPd	39	26.08	-0.7
			eSn	41	47.20					i	55	24.00		CC8	1.79	21	iPd	39	26.23	-0.9
IVA	4.17	354	iPnc	41	01.74	0.1				eSn	56	26.00		SDG	1.79	103	ePd	39	26.79	-0.4
			iSn	41	50.32		STS	7.12	25	iPnc	55	20.64	-0.4				eS	39	50.32	
NKY	4.24	345	iPnd	41	01.34	-1.4				iSn	56	29.30		DJE	1.93	56	eP	39	28.38	-0.6
			iSn	41	49.28		TIO	7.18	139	iPn	55	21.50	-0.5	FBA	2.03	18	iP	39	29.90	-0.5
RZN	4.36	46	iPd	41	07.00	2.5				i	55	34.00			0.5s	92.98nm				
SGO	4.42	296	P	41	06.50	1.3				iSn	56	30.00		MDM	2.03	13	iPc	39	29.82	-0.6
BRY	4.43	341	iPnd	41	03.24	-2.2	ERUA	7.28	35	iPnc	55	23.83	0.7	TZL	2.03	116	ePc	39	30.51	0.1
			iSn	41	52.44					iSn	56	35.40		NCG	2.08	221	eP	39	30.70	-0.6
PRK	4.51	82	ePb	41	11.20	4.8X	EBAN	7.29	74	iPnc	55	22.34	-1.1				eS	39	57.23	
RDO	4.55	56	ePn	41	06.20	-0.7				iSn	56	39.10		CGLM	2.12	218	eP	39	31.48	-0.2
PLD	4.64	42	eP	41	12.00	3.7X	AFC	7.37	82	iPnd	55	24.58	-0.2	GLM	2.17	22	iPd	39	31.54	-0.9
PLE	4.68	350	iPnd	41	08.08	-0.9				iSn	56	42.70					eS	39	57.03	
			iSn	42	01.20		TOL	7.60	61	ePn	55	27.00	-0.7	KLU	2.18	132	iPc	39	31.26	-1.3
MEU	4.71	252	P	41	08.00	-1.4				ePb	55	38.00		CRP	2.19	219	eP	39	32.68	-0.1
PGB	4.72	35	eP	41	09.00	-0.5				eSn	56	46.00					eS	40	01.62	
PZI	4.75	251	P	41	06.38	-3.5X				eSg	57	27.00		SPU	2.23	217	eP	39	32.74	-0.5
KDZ	4.75	51	eP	41	13.00	3.1X	GUD	7.86	56	iPnd	55	30.00	-1.5	BGL	2.26	221	ePd	39	33.57	-0.1
ALN	4.77	61	ePn	41	09.34	-0.8				iSn	56	50.30		CKL	2.30	220	eP	39	34.21	0.0
NPS	5.34	129	ePn	41	18.20	0.0	EMON	8.05	29	iPnd	55	32.90	-1.1	VLZ	2.33	142	ePc	39	32.66	-1.8
HVAR	5.41	327	ePn	41	18.50	-0.7				iSn	56	53.40		VZW	2.33	145	ePc	39	32.84	-1.7
DUI	5.49	304	P	41	21.50	1.1	EVIA	8.37	72	iPnc	55	37.01	-1.6	GLI	2.36	153	iPc	39	33.25	-1.7
SDI	5.93	302	P	41	28.00	1.4				iSn	57	02.90		NKA	2.44	203	eP	39	38.85	2.9
BEO	6.09	360	eP	41	25.20	-3.5X	GEC2	22.86	49	ePd	58	39.70	0.9	DOT	2.45	72	eP	39	35.10	-1.1
ASS	7.37	309	P	41	46.50	-0.3		0.7s	1.12nm			3.5mb		SLKM	2.53	190	eP	39	37.24	-0.1
ARV	7.45	312	P	41	46.50	-1.4		S.D. = 1.1	on 23 of 27 obs.					FID	2.62	148	ePc	39	36.71	-1.7
VBY	7.82	332	ePn	41	51.50	-1.5								KNIM	2.76	164	eP	39	38.45	-1.9
			e(Sn)	43	19.70		%	OCT 22, 1991	18h	16m	42.86 ± 2.11s			RDT	2.84	213	eP	39	41.81	0.2
MLR	7.87	29	ePd	41	56.00	2.2		11.152 N ± 6.8km		62.020 W ± 18.4km			TMW	2.88	81	eP	39	40.78	-1.2	
PTJ	7.93	336	eP	41	50.50	-4.1X		DEPTH = 10.0km	(geophysicist)				DFR	2.90	215	eP	39	43.34	1.0	
CRE	8.11	310	P	41	57.00	-0.2		WINDWARD ISLANDS	(95)				SEW	2.90	182	eP	39	42.04	-0.2	
SFI	8.34	311	P	42	01.50	1.3		MD 3.1 (TRN).					CVA	2.98	144	eP	39	41.59	-1.8	
VRI	8.49	31	eP	42	03.00	0.7							RDN	2.98	215	eP	39	43.20	-0.4	
LJU	8.55	331	e(P)	41	58.00	-5.2X	TCE	0.52	150	eP	16	52.92	-0.5	NCT	2.99	217	eP	39	43.14	-0.5
			eS	43	36.00					eS	17	01.73		REF	2.99	214	eP	39	43.96	0.2
VOY	8.79	328	ePn	42	05.10	-1.5	TRN	0.79	130	eP	16	57.19	-0.9	GLB	3.00	119	ePc	39	42.74	-1.1
			e(Sn)	43	39.60					eS	17	10.44					eS	40	17.80	
WTTA	10.73	326	e(P)	42	31.00	-2.3	TPP	1.00	146	eP	17	02.54	0.7	RDW	3.02	215	eP	39	44.64	0.4
			e(S)	44	28.00					eS	17	17.20		RSO	3.03	214	eP	39	45.05	0.8
HFS	21.86	351	eP	44	50.70	-0.2	GRW	1.06	19	eP	17	02.87	0.0	RS2	3.03	215	eP	39	45.11	0.8
	0.4s	1.10nm							eS	17	19.07		RS1	3.03	215	eP	39	45.73	1.4	
NAO	22.94	348	P	45	02.20	0.6	TBH	1.15	125	eP	17	05.15	0.8	LTI	3.04	166	eP	39	42.26	-2.0
	0.8s	2.80nm							eS	17	19.81		TTA	3.07	272	iPn	39	43.72	-1.0	
EKA	22.99	324	Pc	45	01.90	-0.2	TPR	1.22	88	eP	17	05.98	0.4				eS	40	20.32	
	0.9s	5.30nm							eS	17	23.57		NNL	3.11	199	eP	39	45.92	0.7	
KAF	23.68	7	eP	45	10.30	1.5	BOT	1.28	89	eP	17	06.10	-0.5	MTU	3.12	165	eP	39	44.02	-1.3
	0.8s	9.60nm						S.D. = 0.8	on 7 of 7 obs.				RAGM	3.42	138	eP	39	47.61	-1.9	
	S.D. = 1.2	on 56 of 67 obs.											INE	3.45	213	eP	39	50.63	0.5	
* OCT 22, 1991	17h	53m	34.27 ± 2.08s				&	OCT 22, 1991	18h	38m	57.43s			INW	3.46	214	eP	39	50.59	0.4
	36.512 N ± 7.7km		12.700 W ± 18.3km					62.993 N		149.295 W			SVW	3.53	240	eP	39	50.30	-0.8	
	DEPTH = 10.0km	(geophysicist)						DEPTH = 85.0km					HMT	3.59	136	ePc	39	49.81	-2.0	
	3.5mb (1 obs.)							CENTRAL ALASKA					CNPM	3.60	196	eP	39	51.03	-1.0	
	NORTH ATLANTIC OCEAN	(402)						<AEIC>.					IMA	3.62	330	ePn	39	51.32	-1.1	
	mbLg 3.6 (MDD).												CROM	3.68	125	ePc	39	51.67	-1.6	
LIS	3.58	51	eP	54	34.00	3.1X	HUR	0.16	265	iPc	39	09.54	1.4	XLV	3.74	199	eP	39	54.21	0.3
			iS	55	08.20					eS	39	18.91		TGL	3.80	123	ePc	39	52.99	-1.8
MTH	3.66	48	iPc	54	33.30	1.1	RND	0.46	26	iPd	39	11.36	-0.3	BALM	3.82	118	ePc	39	53.29	-1.9
			iS	55	10.50		TRF	0.64	316	ePc	39	13.36	0.0	KAIM	3.87	141	eP	39	53.17	-2.5
FIG	3.95	80	iPc	54	38.50	2.2	CUT	0.74	218	iPc	39	13.87	-0.2	SNH	4.18	130	eP	39	58.26	-1.9
			iS	55	21.00		MCK	0.76	12	iPd	39	14.33	0.0	CTGM	4.27	115	eP	40	00.45	-1.1
EVAL	4.88	76	iP	54	50.30	0.8				eS	39	26.96		YAH	4.46	123	ePc	40	02.04	-2.2
			iS	55	40.70		BWN	1.19	356	iPc	39	19.04	-0.3	MCNL	4.54	215	eP	40	04.78	-0.3
COI	4.99	41	ePn	54	52.70	1.7				eS	39	34.89		WRG	4.57	127	eP	40	03.83	-1.7
			iSn	55	41.60		GHO	1.24	172	iPc	39	19.85	-0.2	CDD	4.59	209	eP	40	04.55	-1.3
CNIL	5.36	90	eP	55	03.00	6.8X	SML	1.27	159	iPc	39	20.06	-0.4	SYI	4.65	200	eP	40	05.58	-1.1
AVE	5.40	125	iPnc	54	57.50	0.7				eS	39	37.96		KDC	5.50	198	e(Pn)	40	19.69	1.3
			iSn	55	50.50		PWA	1.37	192	iPc	39	21.80	0.1	INK	8.40	44	P	40	57.00	-1.3
			i	55	52.50		PLRM	1.41	177	ePc	39	21.54	-0.6		0.3s	0.70nm				3.9mb
			i	55	54.00		PMR	1.41	177	iP	39	22.00	-0.1		83 obs. associated					
			i	55	50.50			0.5s	413.22nm					%	OCT 22, 1991	18h	53m	44.54 ± 1.16s		
GIBL	5.43	85	eP	55	02.50	5.2X	SKT	1.45	227	iPd	39	22.38	-0.4		39.984 N ± 9.7km		23.310 E ± 6.5km			
MTE	5.61	45	iPd	54	59.50	-0.4				iS	39	4								

22d 18h

OUR 0.62 56 ePg 53 56.46 -0.6
 LIT 0.64 281 ePg 53 57.28 -0.1
 THE 0.70 338 ePg 53 57.92 -0.4
 eSg 54 06.08
 SOH 0.84 2 ePg 54 00.00 -0.7
 eSg 54 11.72
 SRS 1.15 11 ePg 54 06.88 0.8
 eSg 54 22.36
 KNT 1.22 345 ePb 54 08.00 0.8
 eSb 54 24.92
 S.D. = 0.8 an 7 of 7 obs.

* OCT 22, 1991 19h 18m 46.86±1.11s
 45.788 N ±11.4km 26.750 E ±10.6km
 DEPTH = 93.8 ± 13.4 km
 ROMANIA (358)

VR1 0.08 348 ePc 19 00.00 0.5
 BRD 0.34 142 iPd 19 01.50 0.3
 MLR 0.64 243 iPd 19 03.00 -0.5
 PPE 0.74 54 eP 19 20.00 15.7X
 CLI 0.85 26 iPc 19 05.00 -0.5
 CFR 1.16 121 iPd 19 09.00 0.1
 TLB 1.50 142 iPd 19 13.00 -0.2
 HOF 10.93 300 ePn 21 22.10 0.3
 S.D. = 0.6 an 7 of 8 obs.

& OCT 22, 1991 19h 39m 19.86s
 59.671 N 153.121 W
 DEPTH = 106.2km
 SOUTHERN ALASKA (2)
 <AEIC>.

AUL 0.33 209 eP 39 34.73 -0.8
 AUE 0.34 202 eP 39 34.61 -0.9
 AUP 0.35 206 eP 39 35.14 -0.6
 AUI 0.37 205 eP 39 34.66 -1.1
 eS 39 46.36
 INE 0.39 4 ePd 39 35.33 -0.7
 eS 39 47.41
 INW 0.40 359 iPd 39 35.12 -0.9
 eS 39 46.77
 PDB 0.56 283 iPd 39 36.13 -0.8
 eS 39 48.69
 XLV 0.74 106 ePc 39 37.56 -0.9
 eS 39 51.31
 HOM 0.75 90 eP 39 38.53 0.0
 eS 39 51.87
 RED 0.77 13 iPd 39 37.98 -0.9
 eS 39 51.80
 CDD 0.79 200 iPc 39 38.12 -0.8
 eS 39 51.67
 MCNL 0.79 232 eP 39 38.20 -0.7
 RS1 0.81 13 iPd 39 38.63 -0.7
 eS 39 53.22
 RS2 0.82 13 iPd 39 38.68 -0.7
 eS 39 52.71
 RSO 0.81 13 iPd 39 38.63 -0.8
 eS 39 52.66
 RDW 0.83 11 iPd 39 38.78 -0.7
 eS 39 53.73
 REF 0.85 14 iPd 39 38.91 -0.8
 eS 39 53.50
 RDN 0.86 12 ePd 39 39.12 -0.7
 eS 39 53.65
 NCT 0.90 6 iPd 39 39.42 -0.7
 DFR 0.95 13 eP 39 39.92 -0.7
 CNPM 0.97 98 iPc 39 39.65 -1.1
 eS 39 54.60
 RDT 0.97 21 iPd 39 39.90 -0.9
 eS 39 55.14
 >NNL 0.99 67 eP 39 40.95 0.0
 SYI 1.13 160 ePc 39 41.56 -0.9
 eS 39 58.15
 NKA 1.43 40 eP 39 46.96 1.0
 CKL 1.58 14 iPd 39 47.29 -0.6
 SPU 1.61 19 iPd 39 47.37 -0.8
 eS 40 08.76
 BGL 1.64 12 ePd 39 48.19 -0.5
 CRP 1.67 16 eP 39 48.55 -0.6
 SLKM 1.68 59 eP 39 48.25 -0.8
 CGLM 1.73 18 iPd 39 49.15 -0.7
 NCG 1.80 15 ePd 39 50.17 -0.6
 SEW 1.90 75 eP 39 50.62 -1.2
 SVW 1.90 320 eP 39 51.33 -0.6
 SUA 2.15 32 ePd 39 54.72 -0.5
 PMS 2.37 47 ePd 39 57.01 -1.0

SKT 2.44 18 eP 39 57.08 -2.0
 LTI 2.68 80 eP 40 00.31 -1.9
 KNIM 2.79 74 iPc 40 01.29 -2.4
 KNK 2.89 51 eP 40 03.15 -1.9
 SML 3.18 46 ePc 40 06.90 -2.1
 GLI 3.24 65 eP 40 06.61 -3.1
 42 obs. associated

? OCT 22, 1991 19h 46m 44.40±5.01s
 18.140 N ±15.9km 67.357 W ±41.9km
 DEPTH = 33.0km (normal)

MONA PASSAGE (89)

MGP 0.29 117 P 46 52.00 0.0
 MCP 0.36 40 P 46 53.00 0.0
 PORP 0.69 97 P 46 58.00 0.3
 CLLP 0.74 94 P 46 58.70 0.3
 SJG 1.15 91 P 47 04.00 -0.2
 CPD 1.38 94 P 47 06.90 -0.6
 LPR 1.42 83 P 47 08.50 0.3
 S.D. = 0.4 on 7 of 7 obs.

% OCT 22, 1991 20h 08m 05.93±0.56s
 38.049 N ± 6.4km 14.741 E ± 4.7km
 DEPTH = 5.0km (geophysicist)

SICILY (398)

MNO 0.12 197 Pd 08 08.70 0.1
 eSg 08 10.40
 GIB 0.57 264 P 08 17.10 -0.2
 eSg 08 27.10
 ATN 0.58 79 P 08 18.40 0.9
 eSg 08 26.80
 MEU 0.96 171 P 08 24.00 -0.7
 eSg 08 38.80
 MCT 0.97 245 P 08 26.20 1.2
 SOI 1.04 88 P 08 25.50 -0.4
 eSg 08 42.50
 USI 1.39 299 P 08 31.30 -0.7
 CZI 1.60 43 P 08 34.20 -0.7
 ROI 2.09 43 P 08 42.60 0.6
 S.D. = 0.8 an 9 of 9 obs.

& OCT 22, 1991 20h 38m 58.20s
 64.630 N 138.306 W
 DEPTH = 26.7km
 4.8mb (18 obs.) 3.5msz (2 obs.)
 SOUTHERN YUKON TERRITORY, CANADA (18)
 <AEIC>. ML 4.7 (AEIC). Felt
 (III) at Mile 42 Dempster
 Highway.

DWY 0.76 221 Pd 39 10.40 -2.3
 TMW 2.45 240 eP 39 37.38 0.1
 DOT 2.71 251 eP 39 40.43 -0.5
 eS 40 13.51
 DJE 3.27 263 eP 39 49.68 0.9
 FYU 3.47 307 eP 39 52.51 0.8
 eS 40 32.18
 THY 3.50 253 eP 39 51.36 -0.8
 PAX 3.59 246 eP 39 53.51 0.0
 eS 40 37.82
 HDA 3.74 270 eP 39 55.64 0.1
 HYT 3.84 174 P 39 56.00 -1.0
 SDG 3.86 240 eP 39 57.00 -0.2
 GLM 3.90 279 eP 39 56.72 -1.1
 eS 40 44.30
 CTGM 3.93 202 eP 39 58.58 0.2
 BALM 4.05 209 eP 39 58.81 -1.3
 GLB 4.06 221 eP 39 59.73 -0.5
 eS 40 48.05
 FBA 4.07 278 iP 39 59.40 -0.8
 CCB 4.09 275 eP 39 59.09 -1.4
 eS 40 46.99
 TZL 4.13 234 eP 40 00.41 -0.6
 INK 4.16 25 P 40 00.00 -1.5
 0.5s 236.00nm
 WHC 4.18 158 P 40 01.00 -0.8
 WRH 4.23 272 eP 40 02.19 -0.2
 MDM 4.26 279 eP 40 01.48 -1.4
 TOA 4.35 238 eP 40 04.20 -0.1
 TGL 4.41 210 eP 40 05.36 0.2
 CROM 4.48 212 eP 40 06.67 0.4
 YAH 4.57 202 eP 40 08.25 0.7
 NEA 4.64 274 eP 40 07.84 -0.5
 eS 41 00.84
 KLU 4.68 231 eP 40 08.63 -0.3

MCK 4.74 264 eP 40 09.58 -0.1
 RND 4.80 260 eP 40 10.44 -0.2
 eS 41 07.96
 BWN 4.86 270 eP 40 09.59 -1.8
 WRG 4.92 202 eP 40 12.32 0.0
 SNH 4.94 207 eP 40 13.31 0.8
 SCM 4.95 240 eP 40 14.18 1.4
 eS 41 11.93
 CYK 4.96 205 eP 40 14.35 1.6
 VLZ 5.08 230 eP 40 14.03 -0.4
 HMT 5.12 215 eP 40 15.23 0.2
 YKU 5.14 188 eP 40 19.40 4.1
 RAGM 5.18 218 eP 40 16.47 0.5
 VZW 5.21 230 eP 40 13.84 -2.5
 PLBC 5.27 169 P 40 17.00 -0.2
 SML 5.34 243 eP 40 18.04 -0.3
 CVA 5.35 223 eP 40 18.51 0.3
 TRF 5.40 263 eP 40 18.65 -0.5
 FID 5.41 228 eP 40 20.32 1.1
 KAIM 5.51 214 eP 40 20.59 0.0
 GLI 5.52 231 eP 40 20.58 -0.1
 GHO 5.59 244 eP 40 22.21 0.4
 KNK 5.63 240 eP 40 22.84 0.5
 HIN 5.69 226 eP 40 23.20 0.0
 PMR 5.78 243 eP 40 25.20 0.9
 CUT 5.80 253 eP 40 23.22 -1.4
 PWA 6.04 246 eP 40 28.40 0.5
 KNIM 6.12 230 eP 40 28.30 -0.9
 PMS 6.16 242 eP 40 29.97 0.3
 LTI 6.40 228 eP 40 32.51 -0.6
 SUA 6.48 246 eP 40 35.28 0.9
 SKT 6.52 252 eP 40 34.33 -0.5
 IMA 6.59 290 eP 40 35.40 -0.5
 SLKM 6.88 239 eP 40 40.98 1.1
 CGLM 7.07 248 eP 40 42.81 0.2
 NCG 7.08 249 eP 40 43.98 1.2
 SPU 7.16 247 eP 40 44.29 0.4
 SIT 7.74 168 eP 40 49.72 -2.1
 SIT 7.74 168 eP 40 53.20 1.4
 RSO 7.87 245 P 40 53.60 -0.3
 RDW 7.88 245 eP 40 53.93 -0.1
 CNPM 7.93 236 eP 40 53.48 -1.1
 TTA 8.02 266 e(P) 40 56.20 0.3
 INE 8.24 243 eP 40 58.38 -0.7
 SVW 8.65 254 eP 41 03.10 -1.5
 BRW 9.59 322 eP 41 16.20 -1.2
 YKA 10.76 91 eP 41 29.60 -3.8
 0.5s 12.50nm 5.4mb
 BDBC 11.57 130 P 41 46.00 1.5
 MBC 13.16 20 eP 42 01.00 -4.6
 0.6s 30.00nm 5.5mb
 PNT 18.30 138 P 43 17.00 5.5
 RMW 19.41 145 eP 43 26.35 1.4
 NEW 19.98 135 eP 43 32.30 1.3
 1.0s 30.00nm 4.6mb
 DPW 20.01 137 eP 43 31.94 0.6
 LON 20.07 145 eP 43 34.58 2.6
 SHW 20.49 147 eP 43 36.74 0.3
 LRM 23.62 130 eP 44 09.70 1.9
 HPI 25.30 134 eP 44 25.51 1.5
 HVU 27.16 135 eP 44 41.86 0.9
 BW06 27.28 129 eP 44 43.00 0.8
 1.0s 8.33nm 4.3mb
 DUG 28.60 136 eP 44 55.40 1.4
 BONR 29.22 146 e(P) 45 00.39 0.5
 TNP 29.37 145 eP 45 02.00 0.9
 GOL 31.45 126 eP 45 20.50 1.0
 DAG 33.98 21 iPd 45 40.50 -0.3
 0.5s 11.27nm 5.1mb
 ALO 35.39 132 ePc 45 55.10 1.5
 1.0s 11.75nm 4.8mb
 KEV 45.50 7 eP 47 16.00 -0.2
 SOD 47.85 8 iP 47 34.50 -0.3
 i 47 39.50
 NAO 52.74 18 P 48 09.60 -2.6
 1.3s 11.00nm 4.6mb
 HFS 53.78 17 eP 48 18.50 -1.3
 0.5s 4.20nm 4.7mb
 Z 18s 0.03um 3.4msz
 LR 00 24.00
 NUR 54.52 10 iP 48 24.40 -0.9
 0.6s 13.00nm 5.1mb
 EKA 55.52 29 P 48 35.90 3.3
 0.7s 6.40nm 4.8mb
 MOX 62.71 21 eP 49 22.70 0.2
 KHC 64.48 20 eP 49 34.50 0.4
 LOR 64.59 28 eP 49 34.70 -0.2

0.8s 6.05nm 4.8mb
 Z 20s 0.05um 3.7msz
 SSF 64.72 28 eP 49 35.70 0.0
 0.8s 9.40nm 5.0mb
 GEC2 64.78 20 ePd 49 35.40 -0.7
 0.8s 1.00nm 4.0mb
 LBF 64.89 28 eP 49 35.60 -1.2
 0.8s 3.35nm 4.5mb
 AVF 64.95 28 eP 49 37.10 0.0
 1.0s 6.00nm 4.7mb
 BGF 65.06 29 eP 49 37.50 -0.4
 0.8s 7.40nm 4.9mb
 TCF 65.19 29 eP 49 38.30 -0.5
 0.8s 5.35nm 4.7mb
 LZH 65.52 310 P 50 00.00 -0.1
 2.0s 42.00nm 5.2mb
 KKN 81.83 322 P 51 17.00 0.8
 107 obs. associated

% OCT 22, 1991 20h 41m 12.98±0.52s
 38.081 N ± 5.7km 14.706 E ± 4.6km
 DEPTH = 5.0km (geophysicist)
 SICILY (398)

MNO 0.15 183 Pd 41 16.20 0.0
 eSg 41 18.20
 GIB 0.54 261 P 41 24.60 0.7
 eSg 41 32.70
 ATN 0.60 82 P 41 25.80 0.8
 eSg 41 34.80
 MCT 0.96 242 P 41 32.30 0.5
 eSn 41 44.80
 MEU 0.99 170 P 41 31.40 -1.0
 eSg 41 46.00
 SOI 1.06 90 P 41 33.50 0.0
 eSg 41 48.00
 USI 1.35 298 P 41 37.70 -0.7
 CZI 1.59 44 P 41 41.80 -0.1
 ROI 2.08 44 P 41 49.80 0.8
 CSI 2.10 36 P 41 48.10 -1.1
 S.D. = 0.8 on 10 of 10 obs.

% OCT 22, 1991 20h 56m 47.25±0.49s
 38.029 N ± 8.0km 14.714 E ± 5.0km
 DEPTH = 9.6 ± 6.5 km
 SICILY (398)

MNO 0.10 189 P 56 49.90 -0.2
 eSg 56 51.80
 GIB 0.54 266 P 56 58.50 0.2
 eSg 57 07.20
 ATN 0.61 77 P 56 59.60 0.1
 eSg 57 08.90
 MEU 0.94 169 P 57 05.10 -0.2
 eSg 57 18.30
 MCT 0.94 245 P 57 06.30 0.9
 SOI 1.06 87 P 57 07.00 -0.2
 USI 1.38 300 P 57 11.30 -1.3
 CZI 1.63 43 P 57 15.50 -0.5
 MMN 2.11 28 P 57 24.00 1.0
 ROI 2.12 43 P 57 22.40 -0.8
 CSI 2.13 35 P 57 25.10 1.6
 MGR 2.20 17 P 57 24.00 -0.5
 SGO 2.57 10 P 57 29.40 -0.2
 S.D. = 0.9 on 13 of 13 obs.

% OCT 22, 1991 20h 59m 13.55±0.97s
 37.963 N ± 10.1km 14.685 E ± 6.9km
 DEPTH = 10.0km (geophysicist)
 SICILY (398)

MNO 0.03 166 Pd 59 15.40 -0.4
 eSg 59 16.90
 GIB 0.52 273 P 59 24.20 0.1
 eSg 59 33.40
 ATN 0.64 72 P 59 25.50 -1.0
 eSg 59 34.50
 MEU 0.88 167 P 59 30.50 -0.1
 eSg 59 45.00
 SOI 1.09 84 P 59 35.00 1.0
 S.D. = 1.0 on 5 of 5 obs.

? OCT 22, 1991 21h 06m 47.37±1.04s
 18.393 N ± 9.4km 67.030 W ± 7.4km
 DEPTH = 10.0km (geophysicist)
 MONA PASSAGE (89)

MCP 0.08 289 P 06 50.00 0.1
 APR 0.29 78 P 06 53.20 -0.3
 MGP 0.39 188 P 06 55.00 -0.3
 PORP 0.50 132 P 06 58.00 0.4
 LPR 1.11 94 P 07 02.50 -5.7X
 S.D. = 0.6 on 4 of 5 obs.

% OCT 22, 1991 21h 53m 43.36±0.80s
 38.028 N ± 8.3km 14.693 E ± 6.5km
 DEPTH = 10.0km (geophysicist)
 SICILY (398)

MNO 0.10 179 Pd 53 45.70 -0.5
 eSg 53 46.90
 GIB 0.53 266 P 53 54.30 0.2
 eSg 54 02.50
 ATN 0.62 77 P 53 55.50 -0.4
 eSg 54 03.80
 MEU 0.94 168 P 54 01.10 -0.3
 eSg 54 14.50
 SOI 1.08 87 P 54 04.50 0.9
 eSn 54 18.50
 CZI 1.64 43 P 54 11.50 -0.8
 S.D. = 0.8 on 6 of 6 obs.

? OCT 22, 1991 22h 07m 04.05±8.49s
 4.982 N ± 78.1km 76.490 W ± 44.3km
 DEPTH = 90.0km (geophysicist)
 COLOMBIA (103)
 MD 3.0 (UVC).

HOBC 0.72 150 eP 07 21.10 0.0
 eS 07 33.60
 ANCC 1.50 194 eP 07 30.38 0.1
 eS 07 49.90
 HOOC 1.51 185 eP 07 30.52 -0.1
 eS 07 50.10
 DIAC 1.70 170 eP 07 33.10 0.0
 S.D. = 0.1 on 4 of 4 obs.

% OCT 22, 1991 22h 07m 25.99±0.73s
 37.099 N ± 6.8km 3.729 W ± 6.3km
 DEPTH = 10.0km (geophysicist)
 SPAIN (377)
 mbLg 2.9 (MDD).

AFC 0.21 43 iP 07 29.50 -1.2
 iS 07 33.30
 EGUA 0.30 154 iPg 07 31.90 -0.3
 iSg 07 37.00
 EBAN 1.06 358 iPg 07 45.80 -0.3
 iSg 08 01.60
 EHUE 1.15 51 iPg 07 48.90 1.3
 iSg 08 05.10
 ENIJ 1.22 95 ePn 07 49.00 0.2
 LIJA 1.36 262 eP 07 51.00 -0.1
 EHOR 1.41 301 ePn 07 52.00 0.3
 eSn 08 09.30
 S.D. = 0.9 on 7 of 7 obs.

& OCT 22, 1991 23h 21m 46.10s
 37.272 N 121.673 W
 DEPTH = 6.0km
 CENTRAL CALIFORNIA (39)
 <BRK>. ML 3.6 (BRK).
 Mo=3.1±10±14 Nm (BRK). Felt in
 the San Jose oreo.

MHC 0.07 20 iPd 21 47.95 -0.2
 iS 21 49.70
 ARN 0.14 55 iPc 21 48.37 -0.6
 GCC 0.35 227 iPd 21 53.48 0.2
 eS 21 57.05
 SAO 0.54 160 iPd 21 56.86 0.0
 eS 22 04.70
 PCC 0.61 292 iPc 21 57.62 -0.7
 BKS 0.75 324 eP 22 00.50 -0.6
 iS 22 12.10
 ZSP 0.82 326 iPd 22 01.82 -0.5
 eS 22 14.80
 LLA 0.88 138 iPc 22 02.15 -1.2
 iS 22 15.23
 PRS 0.97 165 iPd 22 03.86 -1.0
 eS 22 14.91
 CMB 1.27 53 iPc 22 08.96 -1.2
 iS 22 25.80
 FRI 1.59 100 iP 22 12.63 -2.3

eS 22 33.68
 PKEM 1.74 133 eP 22 16.60 -0.5
 PHAM 1.76 144 eP 22 14.92 -2.5
 ORV 2.28 3 eP 22 22.80 -2.1
 BCH 2.45 148 ePn 22 23.89 -3.4
 BONR 2.76 75 ePn 22 30.47 -1.6
 eS 23 10.20
 MIN 3.07 1 eP 22 35.74 -0.4
 ABL 3.13 140 ePn 22 33.56 -3.5
 KVN 3.33 57 ePn 22 38.02 -1.9
 ePg 22 46.35
 eS 23 28.97
 TNP 3.63 76 e(Pn) 22 45.83 1.7
 SSK 4.45 132 eP 22 53.63 -2.2
 eS 23 44.39
 GLA 7.01 125 e(P) 23 49.00 17.1
 22 obs. associated

% OCT 23, 1991 00h 13m 28.92±0.83s
 37.983 N ± 9.5km 14.736 E ± 7.4km
 DEPTH = 10.0km (geophysicist)
 SICILY (398)

MNO 0.06 212 Pd 13 30.80 -0.6
 eSg 13 32.60
 GIB 0.56 271 P 13 41.00 0.6
 eSg 13 49.20
 ATN 0.60 73 P 13 40.70 -0.4
 eSg 13 50.30
 MEU 0.89 170 P 13 46.00 -0.1
 eSg 14 00.00
 SOI 1.05 85 P 13 50.00 1.4
 eSn 14 03.50
 CZI 1.65 41 P 13 57.00 -1.0
 S.D. = 1.1 on 6 of 6 obs.

% OCT 23, 1991 01h 13m 08.02±1.57s
 3.996 N ± 14.9km 76.735 W ± 20.5km
 DEPTH = 70.0km (geophysicist)
 COLOMBIA (103)
 MD 2.6 (UVC).

CLMC 0.21 124 eP 13 19.22 0.2
 BUGC 0.49 102 eP 13 21.15 0.1
 eS 13 30.60
 ANCC 0.50 195 ePd 13 20.82 -0.2
 HOOC 0.53 169 eP 13 21.22 -0.4
 HOBC 0.70 59 eP 13 23.16 -0.1
 DIAC 0.88 143 ePd 13 25.29 -0.2
 eS 13 37.90
 SALC 1.02 178 eP 13 27.66 0.5
 eS 13 41.90
 S.D. = 0.4 on 7 of 7 obs.

% OCT 23, 1991 02h 09m 08.46±0.89s
 37.871 N ± 8.1km 22.210 E ± 8.3km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN GREECE (368)
 ML 3.2 (ATH).

AGG 1.15 5 eP 09 29.10 -0.9
 ATH 1.20 85 eP 09 31.10 0.4
 eS 09 48.40
 VLI 1.29 153 eP 09 32.00 -0.3
 VLS 1.32 284 eP 09 33.00 0.2
 LIT 2.24 6 eP 09 46.80 0.7
 S.D. = 0.9 on 5 of 5 obs.

? OCT 23, 1991 02h 31m 12.58±19.61s
 18.486 N ± 95.6km 65.660 W ± 129.6km
 DEPTH = 33.0km (normal)
 PUERTO RICO REGION (90)

LPR 0.27 228 P 31 20.00 0.0
 CPD 0.51 209 P 31 23.30 0.0
 SJG 0.60 231 P 31 24.60 0.0
 PORP 1.02 245 P 31 30.70 0.1
 MGP 1.44 251 P 31 36.50 -0.1
 S.D. = 0.1 on 5 of 5 obs.

% OCT 23, 1991 02h 38m 08.16±0.79s
 16.612 N ± 9.2km 61.770 W ± 10.4km
 DEPTH = 33.0km (normal)
 LEEWARD ISLANDS (92)
 ML 2.6 (FDF).

SEG 0.33 129 eP 38 18.33 2.1

23d 02h

BPA	0.44	349	eP	38 29.70	-0.3
			S	38 17.62	
			S	38 28.12	
MGH	0.44	284	eP	38 18.13	0.2
			S	38 29.30	
PAG	0.59	171	eP	38 20.60	0.5
			S	38 34.50	
DOG	0.60	166	eP	38 20.54	0.4
SFG	0.66	123	eP	38 20.94	0.0
DEG	0.74	113	eP	38 21.37	-0.9
MGG	0.82	148	eP	38 22.86	-0.3
BBL	1.12	165	eP	38 25.90	-1.7

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

? OCT 23, 1991 02h 46m 52.84±3.49s
 4.269 N ±29.0km 76.786 W ±35.7km
 DEPTH = 75.0km (geophysicist)

COLOMBIA (103)
 MD 2.6 (UVC).

HOBC	0.65	83	eP	47 07.95	0.0
			eS	47 19.70	
ANCC	0.75	186	iPc	47 09.12	0.2
			eS	47 21.70	
HOQC	0.81	169	eP	47 09.55	-0.3
DIAC	1.14	149	eP	47 13.89	0.1

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

& OCT 23, 1991 04h 02m 42.31s
 59.687 N 152.292 W
 DEPTH = 71.9km
 SOUTHERN ALASKA (2)
 <AEIC>.

HOM	0.33	95	iPc	02 53.71	-0.3
			eS	03 02.73	
XLV	0.37	129	iPc	02 53.49	-0.9
			eS	03 02.50	
INE	0.54	314	iPd	02 55.10	-1.0
			iS	03 05.32	
CNPM	0.56	106	iPc	02 55.59	-0.5
			iS	03 05.94	
INW	0.57	312	ePd	02 55.65	-0.7
			eS	03 06.09	
NNL	0.62	54	ePc	02 56.94	0.3
AUE	0.64	240	iPd	02 56.20	-0.7
AUL	0.66	243	iPd	02 56.54	-0.6
AUP	0.66	241	iPd	02 56.65	-0.6
AGU	0.67	241	ePd	02 56.65	-0.7
AUH	0.67	242	ePd	02 56.69	-0.6
AUI	0.68	239	iPd	02 56.52	-0.8
			eS	03 07.39	
BRLK	0.72	83	eP	02 57.36	-0.4
			eS	03 08.69	
RED	0.77	342	eP	02 57.81	-0.7
			iS	03 10.04	
RS1	0.81	343	iPd	02 58.47	-0.6
RSO	0.81	344	iPd	02 58.46	-0.6
RS2	0.81	344	ePd	02 58.47	-0.6
REF	0.83	346	iPd	02 58.69	-0.6
			eS	03 11.51	
RDW	0.84	342	iPd	02 58.70	-0.7
RDN	0.86	344	ePd	02 58.99	-0.6
RDT	0.89	356	ePd	02 59.06	-0.8
			iS	03 12.39	
DFR	0.93	348	eP	02 59.76	-0.6
NCT	0.93	340	eP	02 59.98	-0.5
			eS	03 13.56	
CDD	1.03	223	iPd	03 00.61	-0.9
			eS	03 15.18	
SYI	1.08	183	ePd	03 01.39	-0.8
MCNL	1.16	245	iPd	03 01.81	-1.4
			eS	03 16.49	
NKA	1.18	26	ePd	03 04.67	1.2
SLKM	1.32	51	eP	03 04.75	-0.7
SEW	1.49	73	eP	03 07.96	0.4
SPU	1.50	4	ePd	03 07.51	-0.3
			eS	03 26.45	
CKL	1.51	359	ePd	03 07.76	-0.3
			eS	03 27.25	
BGL	1.58	358	eP	03 08.76	-0.2
			eS	03 26.61	
CRP	1.59	2	eP	03 09.08	0.0
CGLM	1.63	5	ePd	03 09.49	-0.1
NGC	1.72	2	ePd	03 10.66	-0.2
SUA	1.94	23	ePd	03 13.54	-0.3
PMS	2.07	40	iPd	03 15.21	-0.3

PWA	2.30	30	ePd	03 18.34	-0.4
SKT	2.33	9	ePd	03 18.58	-0.6
KNIM	2.38	72	eP	03 17.92	-1.9
PLRM	2.47	38	ePd	03 19.63	-1.4
KNK	2.57	46	ePd	03 20.99	-1.5
GHO	2.67	37	eP	03 22.66	-1.2
SML	2.88	41	ePc	03 25.53	-1.3
CUT	2.90	19	eP	03 26.17	-0.9
FID	3.09	67	eP	03 26.60	-3.1
KLU	3.63	57	ePd	03 35.24	-2.1

47 obs. associated

? OCT 23, 1991 04h 11m 12.95±1.74s
 3.677 N ±22.1km 124.164 E ±42.2km
 DEPTH = 33.0km (normal)
 5.0mb (4 obs.)
 CELEBES SEA (262)

WR2	25.53	157	iPd	16 40.90	0.5
			0.3s	4.10nm	4.5mb
CHG	28.88	303	eP	17 13.30	2.2
MRWA	33.63	193	eP	17 53.00	0.3
BAL	34.83	191	eP	18 02.80	-0.2
KLB	35.60	189	eP	18 09.00	-0.6
			0.4s	13.00nm	5.2mb
GUN	43.70	307	P	19 17.00	-0.3
			0.5s	23.00nm	5.2mb
PKI	43.93	307	P	19 18.60	-0.5
KKN	44.13	307	P	19 20.00	-0.6
			0.4s	6.00nm	4.8mb
DMN	44.19	307	P	19 21.00	-0.1
GKN	44.73	307	P	19 24.60	-0.8

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

OCT 23, 1991 04h 15m 58.62±1.48s
 2.218 N ±5.4km 127.165 E ±9.6km
 DEPTH = 104.6 ±14.1 km
 5.0mb (19 obs.)
 NORTHERN MOLUCCA SEA (266)

AAI	5.95	170	eP	17 27.00	1.2
			eS	18 53.30	
TSM	9.50	283	ePd	18 13.00	-1.2
KKM	11.56	290	ePd	18 43.90	2.1X
WR2	23.13	163	iPd	20 55.80	-0.7
			0.5s	32.50nm	4.9mb
MBL	24.32	197	eP	21 08.70	0.8
			0.3s	7.00nm	4.6mb
ASPA	26.55	166	iPc	21 27.20	-1.4
			0.5s	19.30nm	4.9mb
Z	18s		0.10um		3.4Msz
			iPcP	24 50.80	
			eS	25 55.70	
WARB	28.24	181	eP	21 42.00	-1.8
WHN	30.68	338	eP	22 05.00	-0.4
GYA	31.12	323	P	22 10.00	0.4
BDT	31.44	300	eP	22 12.10	-0.2
CHG	32.18	303	ePd	22 19.00	0.2
			0.9s	14.71nm	4.7mb
MRWA	33.04	198	iPd	22 26.40	0.3
			0.5s	15.00nm	5.1mb
COOL	33.41	189	eP	22 28.50	-0.8
BAL	34.13	196	eP	22 35.40	-0.1
			0.4s	14.00nm	5.1mb
KLB	34.79	194	eP	22 41.30	0.2
			0.3s	15.00nm	5.4mb
MUN	35.56	196	iPd	22 48.10	0.4
			0.6s	28.00nm	5.4mb
XAN	35.95	334	P	22 50.00	-1.0
NWAO	36.19	194	eP	22 53.60	0.6
			0.4s	13.00nm	5.2mb
RKG	37.82	194	eP	23 08.00	1.4
TIY	37.83	341	eP	23 07.40	0.7
BJJ	38.95	347	eP	23 16.50	0.6
			0.8s	9.00nm	4.6mb
SNY	39.56	356	iPc	23 25.90	4.9X
			0.8s	36.00nm	5.2mb
			sP	23 42.80	
LZH	40.02	330	eP	23 26.00	1.0
			1.0s	26.00nm	5.0mb
			pP	23 33.00	24kmX
			sP	23 38.50	
COO	40.24	146	eP	23 25.00	-1.8
			0.6s	16.00nm	5.0mb
			i	23 47.00	
SHL	41.13	308	iP	23 34.20	-0.1
BWA	41.56	153	eP	23 38.90	1.3

CAN	42.57	153	e(P)	23 46.40	0.6
LSA	43.76	312	P	23 57.20	1.1
GTA	44.61	330	eP	24 02.00	-0.4
			0.8s	9.00nm	4.6mb
GUN	46.97	307	P	24 21.60	0.1
PKI	47.20	306	P	24 22.60	-0.7
KKN	47.40	307	P	24 24.40	-0.3
			0.4s	11.00nm	5.0mb
DMN	47.46	306	P	24 25.60	0.4
			0.8s	30.00nm	5.2mb
GKN	48.00	306	P	24 29.00	-0.3
			0.8s	26.00nm	5.1mb
WMO	54.21	325	P	25 16.20	0.5
			1.0s	8.40nm	4.7mb
SLKM	84.44	30	iP	28 20.70	0.2
PMR	85.06	28	iP	28 23.00	-0.5
			1.1s	18.75nm	4.9mb

S.D. = 0.9 on 35 of 37 obs.

? OCT 23, 1991 04h 21m 32.38±10.90s
 4.873 N ±97.4km 76.693 W ±62.5km
 DEPTH = 90.0km (geophysicist)
 COLOMBIA (103)
 MD 2.9 (UVC).

HOBC	0.76	133	ePc	21 49.74	-0.1
CLMC	0.99	172	ePd	21 52.95	0.5
			eS	22 07.90	
BUGC	1.07	156	eP	21 53.31	0.0
ANCC	1.36	187	eP	21 56.70	-0.1
			eS	22 14.50	
HOQC	1.40	178	eP	21 57.20	-0.3

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

% OCT 23, 1991 05h 16m 38.80±1.96s
 40.540 N ±14.7km 27.250 E ±18.5km
 DEPTH = 33.0km (normal)
 TURKEY (366)

MFT	0.25	5	iPg	16 46.00	0.0
			iSg	16 51.00	
BNT	0.54	110	iPg	16 49.90	-0.2
DST	1.41	131	ePn	17 02.50	0.1
YLV	1.62	88	ePn	17 05.50	0.0
IZI	1.71	96	ePn	17 06.80	0.0
HRT	1.86	81	ePn	17 09.00	0.0

S.D. = 0.1 on 6 of 6 obs.

OCT 23, 1991 05h 27m 17.64±1.71s
 6.986 S ±8.9km 105.401 E ±10.2km
 DEPTH = 61.1 ±15.1 km
 5.4mb (15 obs.) 5.2Msz (10 obs.)
 SUNDA STRAIT (276)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 21S, 38C
 Centroid Location:
 Origin Time 05:27:14.4 1.0
 Lat 7.53S 0.08 Lon 105.89E 0.10
 Dep 31.2 6.2 Half-duration 2.2
 Moment Tensor: Scale 10**17 Nm
 Mrr=0.33 0.08 Mtt=-1.37 0.07
 Mff=1.04 0.12 Mrt=-0.52 0.23
 Mrf=-0.20 0.16 Mtf=-0.32 0.08
 Principal Axes:
 T Val= 1.11 Plg=12 Azm= 85
 N 0.46 70 210
 P -1.57 16 352
 Best Double Couple: Ma=1.3*10**17
 NP1:Strike=129 Dip=70 Slip=-177
 NP2: 38 87 -20

KSI	4.35	320	ePd	28 24.50	1.8
			e	34 00.00	
KGM	9.18	347	eP	29 31.00	1.1
MKS	14.10	84	iPc	30 37.00	1.2
SNG	14.86	341	eP	30 18.50	-27.2X
			eS	33 12.00	
TSM	16.75	48	eP	31 16.00	6.3X
KKM	16.85	40	ePd	31 14.20	3.1X
MBL	19.84	137	eP	31 44.00	-2.3
			eS	35 08.00	
MRWA	24.27	157	eP	32 30.00	-0.3
KNA	24.48	113	eP	32 31.00	-1.5
			0.6s	76.00nm	5.4mb
DAV	24.50	56	ePc	32 35.00	2.3
			1.4s	409.30nm	5.7mb

MTN	25.99	165	eP	32	45.00	-1.7	BRS	49.23	120	iPd	36	03.00	0.8	AUE	0.67	244	iPc	27	39.41	-0.7
OIZ	26.22	10	eP	32	55.00	6.3X		0.8s	30.00nm			5.4mb		AUL	0.69	247	ePc	27	39.77	-0.5
	N 19s	9.64um							e(S)		42	15.00					eS	27	52.51	
	E 16s	4.53um					COO	49.42	125	eP	36	03.00	-0.6	AUP	0.69	245	ePd	27	39.92	-0.5
CHG	26.41	346	eP	32	49.00	-1.5	QUE	52.22	317	eP	36	24.50	-0.5	AUI	0.70	243	eP	27	39.89	-0.6
CHTO	26.41	346	eP	32	48.00	-2.5	WMO	53.05	344	P	36	29.50	-1.3				iS	27	51.59	
	1.0s	5.50nm			4.1mb	X	Z 18s		1.65um			5.1msz		RED	0.82	340	iPc	27	41.05	-0.7
WARB	27.82	136	iPd	33	01.30	-2.0		N 16s	1.19um								iS	27	54.07	
WR2	30.90	118	iPc	33	28.70	-2.2			PcP	37	32.00			RS1	0.85	341	iPc	27	41.75	-0.6
	0.9s	44.70nm			5.2mb		KSH	53.63	332	eP	36	32.00	-3.2X				eS	27	54.98	
ASPA	31.99	124	iPc	33	39.00	-1.5	CN2	53.71	18	P	36	33.40	-2.1	RSO	0.85	341	iPc	27	41.70	-0.6
	1.2s	76.00nm			5.4mb			0.8s	29.00nm			5.4mb					eS	27	55.00	
Z 23s		5.30um			5.2msz	X	Z 19s		3.82um			5.5msz		RS2	0.86	341	iPc	27	41.73	-0.6
		iS		38	45.70		N 14s		1.08um								eS	27	55.21	
GYA	33.27	2	P	33	53.00	1.5	E 14s		0.77um					REF	0.87	344	iPc	27	41.91	-0.6
	Z 20s	4.38um			5.2msz				PcP	37	40.00						eS	27	55.30	
N 15s		2.64um							eScS	46	19.00			RDW	0.88	340	ePc	27	41.95	-0.7
E 15s		5.19um					DZM	60.60	111	iPd	37	24.70	-0.1	RDN	0.90	342	iPc	27	42.20	-0.6
		pP		34	07.00	55kmX	MAIO	60.87	318	eP	37	24.00	-2.4				eS	27	55.82	
		S		39	10.00		EWZ	67.48	134	eP	38	09.90	0.6	RDT	0.93	354	iPc	27	42.19	-0.8
SHL	34.92	338	eP	34	05.20	-0.7	THZ	68.63	132	eP	38	17.10	0.5				iS	27	56.27	
OIS	35.76	116	iPc	34	11.70	-1.1	BHD	70.31	309	eP	38	27.00	0.1	DFR	0.97	346	eP	27	43.30	-0.3
	1.2s	176.00nm			5.9mb		YAK	71.33	12	eP	38	28.00	-4.5X	NCT	0.98	338	eP	27	43.02	-0.7
		eS		39	50.60		SLR	75.42	245	iPc	39	00.50	3.2X	PDB	1.02	278	iPd	27	42.71	-1.3
HYB	35.94	313	eP	34	14.40	0.0		0.9s	8.40nm			4.7mb					eS	27	57.32	
CD2	37.71	358	eP	34	33.00	3.9X	OBN	83.83	327	eP	39	42.00	0.4	CDD	1.04	226	eP	27	43.24	-1.1
	Z 20s	4.73um			5.3msz			1.5s	63.00nm			5.4mb		SYI	1.05	185	ePd	27	43.39	-1.1
N 17s		4.97um					Z 22s		1.10um			5.2msz		MCNL	1.19	247	eP	27	44.15	-2.0
		S		40	16.00		N 24s		1.10um					NKA	1.19	23	ePc	27	47.04	0.9
PKI	39.42	331	P	34	42.00	-1.9	E 26s		0.80um					SLKM	1.31	48	eP	27	46.69	-1.0
GUN	39.49	332	P	34	44.20	-0.2			e	39	46.00						iS	28	03.85	
DMN	39.60	331	P	34	44.40	-0.8			i	39	55.00		SEW	1.46	71	eP	27	48.37	-1.2	
KKN	39.67	331	P	34	43.80	-1.9			e	40	47.00		SPU	1.53	3	iPd	27	50.08	-0.6	
POO	40.14	310	eP	34	52.00	2.4			eS	50	06.00					eS	28	10.23		
GKN	40.15	331	P	34	48.00	-1.7	NVL	84.63	199	ePc	39	48.00	2.6	CKL	1.55	358	iPd	27	50.31	-0.6
SSE	40.77	21	eP	35	05.50	11.1X			e	50	15.00		BGL	1.61	357	eP	27	51.10	-0.7	
	Z 22s	2.20um			5.0msz				e	53	27.00		CRP	1.62	1	eP	27	51.59	-0.3	
	N 17s	1.20um					VRI	87.15	317	iPc	40	01.50	3.2X	CGLM	1.66	3	eP	27	51.93	-0.4
E 17s		2.40um					ADK	88.05	37	P	40	01.70	-0.7				S	28	13.14	
		eS		41	03.00			0.7s	27.91nm			5.6mb		NCG	1.75	1	iPd	27	53.11	-0.5
XAN	40.94	4	eP	34	55.40	-0.4	PNT	123.41	34	ePKP	46	11.00	1.5				S	28	15.15	
	N 16s	3.96um						0.7s	5.00nm					SUA	1.95	21	eP	27	55.79	-0.5
E 14s		1.71um					BGMT	129.97	34	ePKP	46	24.50	2.0	PMS	2.06	38	eP	27	57.00	-0.7
PMG	41.38	96	eP	34	59.00	-0.7	8W06	132.90	35	PKP	46	29.90	1.7	LTI	2.23	78	eP	27	58.56	-1.4
ADE	41.39	137	eP	34	59.80	0.2	MSU	133.80	42	PKP	46	33.00	3.0X	SVW	2.24	312	iPd	27	58.41	-1.7
	1.2s	234.38nm			5.8mb		RSSD	134.95	30	PKP	46	31.80	-0.2	MTU	2.32	80	eP	27	59.81	-1.4
CTAO	41.67	112	iPc	35	01.70	-0.4	ALO	139.60	42	ePKP	46	38.00	-2.9X	KNIM	2.35	71	eP	27	57.88	-3.7
		ipP		35	11.50	33kmX	Z 20s		0.35um			5.1msz		SKT	2.35	8	eP	28	00.72	-1.0
		i		35	19.00				e	46	43.00		KNK	2.56	45	eP	28	02.99	-1.5	
		eS		40	27.00				e	50	16.70		FID	3.06	67	eP	28	08.39	-3.0	
QLP	41.74	122	iPc	35	03.20	0.7	S081	142.76	245	ePKP	46	46.30	-0.6							
	0.9s	139.00nm			5.7mb		PPD	143.22	218	(PKP)	46	31.00	-16.4X							
LZH	42.87	358	eP	35	13.50	1.7	MEO	144.60	35	iPKPd	46	48.50	-0.9	% OCT 23, 1991 06h 29m 41.80± 0.93s						
	2.0s	35.00nm			4.8mb		FVM	145.97	23	PKP	46	52.20	0.6	60.564 N ± 5.5km 5.090 E ±12.5km						
Z 20s		4.54um			5.4msz		LVNJ	146.32	0	PKP	46	53.20	1.1	DEPTH = 10.0km (geophysicist)						
E 15s		3.13um					ELC	147.03	22	PKP	46	54.90	1.6	SOUTHERN NORWAY (535)						
		pP		35	24.00	36kmX	OLY	147.67	26	PKP	46	56.20	1.8	MD 1.2 (BER).						
TIA	44.36	14	eP	35	25.50	1.8	CVL	148.95	6	PKP	47	01.40	5.0X							
	Z 14s	1.50um			5.1msz	X	NAV	149.29	10	PKP	47	02.20	5.2X	ASK	0.10	148	eP	29	44.41	0.0
NDI	44.68	324	iPc	35	25.00	-1.3	PWLA	149.51	22	PKP	47	02.10	4.8X							
		eS		42	02.00		GBTN	150.12	16	PKP	47	04.70	6.5X	BER	0.22	146	eP	29	46.41	-0.1
CMS	44.90	128	iPd	35	29.00	0.9	TKL	150.25	15	PKP	47	05.00	6.6X							
TIY	44.95	8	eP	35	31.00	2.5	LHS	152.05	11	PKP	47	09.10	8.0X	EGD	0.30	167	eP	29	48.13	0.1
	Z 21s	3.83um			5.3msz		PRM	152.10	14	PKP	47	04.00	2.8X	SUE	0.52	342	iP	29	52.33	0.0
	N 20s	3.41um					JSC	152.15	12	PKP	47	09.30	8.0X							
E 17s		3.65um					SIV	153.53	210	ePKP	47	15.00	11.3X	HYA	0.81	41	iP	29	57.43	0.0
		S		42	03.00		Z080	156.02	195	ePKP	47	08.00	0.2	ODD1	1.01	130	eP	30	01.01	0.1
BFD	45.19	137	iPd	35	28.40	-2.0		S.D. = 1.5 on 66 of 88 obs.												
RMO	45.53	120	iPc	35	34.30	1.0														
	0.8s	64.00nm			5.6mb		& OCT 23, 1991 05h 27m 24.33s							% OCT 23, 1991 06h 38m 13.97± 0.69s						
GTA	46.45	354	eP	35	39.00	-1.4	59.657 N 152.202 W							40.824 N ± 6.1km 28.117 E ± 6.1km						
	0.8s	6.00nm			4.6mb		DEPTH = 82.9km							DEPTH = 10.0km (geophysicist)						
N 15s		2.30um					SOUTHERN ALASKA (2)							TURKEY (366)						
E 20s		5.60um					<AEIC>.													
		pP		35	56.80	71kmX								BNT	0.49	198	iPg	38	23.90	0.0
TOO	47.41	136	eP	35	50.00	2.1	HOM	0.28	89	ePc	27	36.81	-0.2							
BJI	47.84	11	eP	35	50.00	-1.1			eS	27	46.77			EDC	0.51	202	iPg	38	24.00	-0.4
	Z 18s	1.77um			5.1msz		XLV	0.32	129	iPc	27	36.50	-0.7							
E 18s		3.27um							eS	27	46.13		YLV	0.99	105	ePg	38	33.00	0.2	
HHC	47.93	6	eP	35	53.00	1.0	CNPM	0.51	105	ePc	27	38.06	-0.6							
	Z 24s	3.50um			5.3msz	X			iS	27	48.63		DMK	1.03	345	iPg	38	33.00	-0.5	
	N 13s	1.90um					INE	0.59	313	ePc	27	38.70	-0.9							
E 13s		1.00um							S	27	49.95		HRT	1.18	90	iPg	38	36.00	0.0	
BWA	48.09	131	eP	35	55.00	1.7	NNL	0.60	49	iPc	27	39.71	0.3							
CAN	48.90	132	eP	35	59.90	0.4	INW	0.62	312	ePc										

23d 06h

S.D. = 0.5 on 6 of 6 obs.
 ? OCT 23, 1991 06h 45m 09.47±3.61s
 34.579 S ±34.6km 70.641 W ±20.5km
 DEPTH = 100.0km (geophysicist)
 CHILE-ARGENTINA BORDER REGION (127)

CHCH	0.64	359	iPc	45	26.50	-0.2
			iS	45	41.00	
LNv	0.89	314	iPc	45	29.10	0.2
			iS	45	44.50	
TACH	0.96	345	iPc	45	29.60	-0.1
			iS	45	46.00	
PCH	0.96	6	iPc	45	30.10	0.2
			iS	45	46.80	
SAN	1.12	359	iPc	45	31.50	-0.1
			iS	45	49.40	
LCCH	1.34	325	iPc	45	34.00	-0.2
			iS	45	53.50	
PEL	1.43	359	iPc	45	35.50	0.2
			iS	45	56.00	
ROCH	1.63	349	iP	45	38.20	0.2
JACH	1.89	1	ePc	45	41.00	-0.2
			iS	46	06.80	

S.D. = 0.2 on 9 of 9 obs.
 ? OCT 23, 1991 07h 14m 50.53±3.09s
 50.942 N ±39.5km 166.328 W ±15.7km
 DEPTH = 33.0km (normal)
 SOUTH OF ALEUTIAN ISLANDS (16)

SDN	5.63	36	iPc	16	13.86	-0.2
ADK	6.55	282	eP	16	26.93	0.0
			e(S)	17	32.52	
KDC	10.56	44	eP	17	22.00	-0.4
TTA	13.25	21	eP	17	58.90	0.2
PMR	14.27	35	eP	18	08.00	-3.9X
KLU	15.43	39	eP	18	25.23	-2.0X
IMA	16.49	18	eP	18	40.60	-0.1
BALM	16.69	44	eP	18	43.83	0.5
MBC	31.21	20	ePd	21	13.60	5.2X
					7.00nm	4.7mb

S.D. = 0.4 on 6 of 9 obs.
 ? OCT 23, 1991 07h 20m 31.12±1.05s
 17.715 S ±18.8km 178.787 W ±16.6km
 DEPTH = 557.3 ± 7.3 km
 5.0mb (13 obs.)
 FIJI ISLANDS REGION (181)

VUN	2.63	263	iPc	21	45.60	0.4
SVA	2.65	261	eP	21	43.40	-1.8
SGE	3.14	272	iP	21	49.10	0.8
DZM	14.55	250	iPc	23	36.50	0.8
COO	29.56	239	iPc	25	56.00	3.0X
					37.00nm	5.1mb
RMQ	31.24	248	iPd	26	08.20	0.9
					51.00nm	5.3mb
CTAO	33.12	260	iPd	26	23.00	-0.1
					18.81nm	4.8mb
CNB	33.26	232	iPc	26	26.10	1.9
					32.00nm	5.2mb
CAN	33.54	232	eP	26	27.70	1.2
BWA	33.64	234	eP	26	26.60	-0.8
PMG	34.08	279	eP	26	31.00	-0.1
					50.42nm	5.1mb
CMS	34.81	240	iPd	26	38.20	1.1
					23.00nm	4.9mb
LAT	35.13	284	eP	26	41.10	1.2
QLP	35.27	249	iPd	26	41.40	0.5
					58.00nm	5.5mb
MDG	36.78	285	eP	26	54.90	1.5
TOO	37.01	230	eP	26	58.30	3.1X
					22.00nm	4.8mb
QIS	39.34	259	eP	27	13.30	-1.0
					3.00nm	4.2mb
WR2	44.29	259	iPc	27	52.50	-1.0
					17.50nm	5.2mb
ASPA	44.50	254	eP	27	54.80	-0.3
					150.00nm	5.9mb
MTN	48.45	268	eP	28	24.00	-1.3
KNA	50.13	264	eP	28	36.70	-1.0
WARB	51.01	250	iPd	28	43.70	-0.4
					11.00nm	4.8mb
MBL	57.68	256	iPd	29	30.10	-0.9
					8.00nm	4.5mb

KLB	58.59	243	eP	29	36.00	-1.1
NWAO	58.98	242	eP	29	39.00	-0.7
BAL	59.54	245	eP	29	42.50	-0.9
MUN	59.89	243	eP	29	46.00	0.3
MRWA	60.26	246	eP	29	47.50	-0.6
ALO	86.26	52	eP	32	15.00	-0.4
					1.0s	2.75nm
						3.9mb X

GEC2 147.33 345 ePKPd 39 11.90 1.6
 0.7s 0.76nm
 S.D. = 1.1 on 28 of 30 obs.

? OCT 23, 1991 07h 41m 13.26±4.19s
 18.262 S ±32.1km 179.369 W ±29.1km
 DEPTH = 623.0 ± 43.1 km
 4.9mb (5 obs.)

FIJI ISLANDS REGION (181)

DZM	13.85	252	iPc	44	09.90	0.0
KUZ	18.92	192	eP	44	58.40	0.8
URZ	20.16	188	eP	45	07.30	-1.7
NOZ	20.41	186	eP	45	12.40	1.2
KHZ	24.82	193	eP	45	49.80	-0.8
COO	28.81	239	iPc	46	29.80	4.4X
					0.6s	19.00nm
						4.9mb

RMQ	30.53	249	iPd	46	41.80	1.8
					0.7s	45.00nm
CTAO	32.49	261	iP	46	56.00	-0.5
					0.8s	11.29nm
MDG	36.40	286	eP	47	29.10	0.3
WR2	43.65	260	iPc	48	26.40	-0.3
					0.4s	8.50nm
ASPA	43.82	255	iPc	48	28.60	0.6
					0.7s	74.00nm
						5.3mb

MTN	47.88	269	eP	48	58.00	-1.0
KNA	49.53	265	eP	49	09.70	-1.4
WARB	50.30	251	eP	49	17.00	0.3
MBL	57.01	256	eP	50	04.00	0.1
GEC2	147.71	344	ePKPc	59	47.10	0.5
					0.5s	1.04nm

S.D. = 1.1 on 15 of 16 obs.
 * OCT 23, 1991 08h 20m 09.85±0.86s
 22.106 S ±13.5km 65.958 W ±14.2km
 DEPTH = 300.1 ± 33.2 km
 JUJUY PROVINCE, ARGENTINA (128)

ANT	4.41	248	iPc	21	21.00	-0.1
			iS	22	13.50	
ZOBO	6.16	340	P	21	43.00	0.8
SIV	7.64	38	P	21	59.20	-0.5
ARE	7.67	316	eP	22	00.00	-0.4
			eS	23	25.00	
PPD	13.58	92	(P)	23	13.00	0.3
VAO	17.57	97	(P)	23	57.00	0.0

S.D. = 0.7 on 6 of 6 obs.
 & OCT 23, 1991 09h 00m 09.70s
 49.510 N 117.610 W
 DEPTH = 7.0km (geophysicist)
 BRITISH COLUMBIA, CANADA (23)
 <PGC>. ML 2.5 (PGC). MD 3.0
 (SEA). Felt (IV) in the Nelson-Castlegar area. Felt most strongly in the Slokan Valley.

NEW	1.29	165	eP	00	33.00	-0.9
PNT	1.32	262	P	00	34.00	-0.5
DPW	1.69	194	P	00	41.03	1.2
			S	01	03.86	
SLEB	1.69	349	P	00	40.00	0.0
DHW2	2.09	224	P	00	44.91	-0.7
SAW	2.17	214	P	00	48.15	1.4
NLW	2.30	233	P	00	48.30	-0.5
CBSW	2.35	224	P	00	48.22	-1.2
WTV	2.39	222	P	00	49.33	-0.6
EPH	2.53	212	P	00	51.99	0.1
ETW	2.63	224	P	00	52.35	-1.0
WRD	2.74	203	P	00	54.64	-0.3
RPW	2.78	249	P	00	54.86	-0.7
MBW	2.91	257	P	00	57.35	-0.1
CRF	2.94	205	P	00	57.42	-0.2
VTG	3.01	213	P	00	58.16	-0.4
WAH2	3.05	206	P	00	58.70	-0.5
ET3	3.07	197	P	00	58.88	-0.6
TBM	3.08	222	P	00	59.34	-0.3
BVW	3.10	210	P	00	59.86	-0.1

JCW	3.14	247	P	01	00.28	-0.3
GBL	3.17	204	P	01	00.10	-0.8
EBG	3.27	218	P	01	02.01	-0.4
MXC	3.44	213	P	01	04.98	0.1
LNOR	3.67	187	P	01	08.28	0.1

25 obs. associated
 & OCT 23, 1991 09h 06m 37.40s
 49.510 N 117.610 W
 DEPTH = 7.0km (geophysicist)
 BRITISH COLUMBIA, CANADA (23)
 <PGC>. ML 2.2 (PGC). MD 3.0
 (SEA). Felt in the Nelson-Castlegar area. Felt most strongly in the Slokan Valley.

NEW	1.29	165	P	07	01.00	-0.6
PNT	1.32	262	P	07	02.20	0.0
DPW	1.69	194	P	07	08.10	0.6
SLEB	1.69	349	P	07	08.70	1.0
MNB	2.74	350	P	07	28.00	5.2

5 obs. associated
 & OCT 23, 1991 10h 06m 15.60s
 40.483 N 123.427 W
 DEPTH = 25.0km (geophysicist)
 NORTHERN CALIFORNIA (36)
 <BRK>. ML 3.2 (BRK).

FOX	0.43	275	iPc	06	24.57	-0.1
			iS	06	32.24	
FHC	0.53	307	iPc	06	25.75	-0.6
			iS	06	34.76	
WDC	0.68	82	iPc	06	27.70	-1.1
			iS	06	38.09	
LTCM	1.03	105	iPc	06	32.86	-1.6
MIN	1.40	95	iPc	06	37.72	-2.1
LBFM	1.45	53	iPc	06	39.70	-0.9
ORV	1.75	121	iPc	06	41.97	-2.7
			iS	07	04.03	
SAO	4.02	157	eP	07	14.39	-2.7

8 obs. associated
 * OCT 23, 1991 10h 32m 11.99±1.43s
 6.870 N ± 8.8km 123.878 E ± 8.7km
 DEPTH = 53.1 ± 14.7 km
 4.8mb (6 obs.)
 MINDANAO, PHILIPPINE ISLANDS (259)

DAV	1.70	83	iPd+	32	40.20	0.5
			eS	33	04.20	
TSM	6.50	247	iPd	33	45.50	-1.9
KKM	7.66	264	ePc	34	04.80	1.1
MTN	20.87	160	eP	36	52.00	0.0
GUMO	21.70	70	eP	36	35.00	-25.4X
IPM	22.85	266	ePd	37	13.70	1.9
WHN	25.19	340	eP	37	40.00	5.8X
GYA	25.46	322	P	37	48.20	11.3X
BDT	26.39	295</				

INK 88.29 21 eP 44 59.00 0.3
 MBC 89 52 12 eP 45 04.00 -0.4
 1.0s 7.00nm 4.9mb
 ZOBO 164.99 130 PKP 52 11.00 -1.7X
 S.D. = 1.4 on 19 of 30 obs.

? OCT 23, 1991 10h 51m 53.19±1.73s
 3.964 N ±21.2km 76.660 W ±25.3km
 DEPTH = 60.0km (geophysicist)

COLOMBIA (103)

CLMC 0.13 130 ePd 52 03.01 -0.9
 eS 52 09.60
 BUGC 0.41 100 eP 52 04.61 0.1
 ANCC 0.49 205 eP 52 05.62 0.4
 HOOC 0.49 177 eP 52 05.49 0.0
 eS 52 14.00
 HOBC 0.65 53 ePd 52 07.44 0.4
 eS 52 17.40
 S.D. = 0.7 on 5 of 5 obs.

* OCT 23, 1991 11h 35m 38.65±0.97s
 40.633 N ±10.6km 14.953 E ±12.8km
 DEPTH = 10.0km (geophysicist)

SOUTHERN ITALY (390)

SGO 0.28 105 P 35 45.40 0.9
 eSg 35 50.00
 MGR 0.68 137 P 35 50.50 -1.6
 eSg 36 02.30
 MMN 1.09 133 P 36 00.40 1.4
 DUI 1.09 340 P 35 59.80 0.6
 eSn 36 16.00
 CSI 1.33 129 P 36 04.10 0.8
 SDI 1.37 322 P 36 03.80 -0.1
 eSn 36 21.50
 ROI 1.63 130 P 36 09.10 1.6
 CZI 1.68 147 P 36 06.30 -1.9
 BRT 1.73 81 P 36 07.00 -1.9
 eSn 36 29.00
 SOI 2.70 161 P 36 23.00 0.2
 HVAR 2.78 23 e(Pn) 36 38.20 14.2X
 S.D. = 1.5 on 10 of 11 obs.

% OCT 23, 1991 11h 46m 29.25±1.20s
 40.463 N ±10.6km 14.655 E ±11.9km
 DEPTH = 10.0km (geophysicist)

SOUTHERN ITALY (390)

SGO 0.51 79 P 46 39.50 0.0
 eSg 46 47.50
 MGR 0.76 115 P 46 43.50 -0.6
 eSg 46 54.50
 MMN 1.17 119 P 46 53.80 2.7X
 DUI 1.21 353 P 46 52.50 0.7
 SDI 1.39 333 P 46 54.00 -0.8
 CSI 1.43 118 P 46 55.30 0.1
 CZI 1.69 137 P 46 59.50 0.6
 S.D. = 0.8 on 6 of 7 obs.

* OCT 23, 1991 12h 10m 08.29±2.55s
 47.770 N ±18.9km 8.166 E ±12.7km
 DEPTH = 10.0km (geophysicist)

SWITZERLAND (544)

SLE 0.22 91 ePc 10 12.70 -0.4
 ZLA 0.33 152 ePc 10 14.60 -0.5
 LLS 1 06 148 ePc 10 29.30 0.8
 MMK 1.72 185 ePd 10 37.50 -1.2
 OSS 1.73 128 ePd 10 39.30 0.6
 EMS 1.90 207 ePc 10 41.90 0.7
 KHC 3.85 67 Pg 12 04.20 55.3X
 eSg 12 22.50
 PRU 4.76 60 Pg 12 03.30 41.6X
 Sg 12 20.20
 S.D. = 1.1 on 6 of 8 obs.

OCT 23, 1991 12h 24m 56.35±0.11s
 11.343 S ±2.6km 166.403 E ±2.9km
 DEPTH = 135.6km (45 depth phases)
 5.3mb (64 obs.)

SANTA CRUZ ISLANDS (184)

mb 5.8 (BRK). Mo=1.6*10**17 Nm

(PPT).

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 23S, 52C

Centroid Location:

Origin Time 12:24:58.6 0.4

Lat 11.56S 0.04 Lon 166.62E 0.03

Dep 142.5 1.0 Half-duration 2.4

Moment Tensor; Scale 10**17 Nm

Mrr=2.30 0.06 Mtt=-0.71 0.08

Mff=-1.59 0.09 Mrt=-0.57 0.06

Mrf=-0.94 0.06 Mtf=0.31 0.09

Principal Axes:

T Val=2.63 Plg=73 Azm=129

N -0.80 12 353

P -1.83 11 260

Best Double Couple: Mo=2.2*10**17

NP1: Strike=335 Dip=35 Slip= 68

NP2: 181 58 105

HNR 6.63 286 eP 26 34.00 1.4
 DZM 10.67 180 iPc 27 27.90 1.2
 iS 29 24.00
 SVA 13.46 121 iPd 28 11.10 8.0X
 RAB 15.78 296 e(P) 28 32.00 -0.5
 PMG 19.03 274 eP 29 11.00 0.5
 1.1s 354.43nm 5.6mb
 LAT 19.72 282 eP 29 18.80 1.2
 BRS 20.47 217 iPc 29 27.10 1.9
 1.0s 32.80nm 4.7mb

CTAO 21.24 243 iPd 29 34.50 1.5
 1.8s 538.72nm 5.6mb
 iPP 29 47.00
 iS 33 09.00
 iPP 29 49.00 64kmX
 i(sP) 29 54.50
 i 30 04.00
 iS 33 21.00

MDG 21.28 285 eP 29 34.40 1.1
 RMO 22.44 225 iPc 29 47.20 2.5
 1.0s 230.00nm 5.5mb
 i 30 10.00 109kmX
 MNDI 23.06 281 eP 29 54.00 3.0X
 COO 23.40 213 iPd 29 56.80 2.8X
 0.5s 24.00nm 4.9mb
 i 30 30.00 169kmX
 i 33 39.00

OLP 25.81 231 iPc 30 18.00 1.4
 0.8s 136.00nm 5.6mb
 OIS 27.31 247 iPd 30 30.30 -0.1
 1.1s 25.00nm 4.8mb
 ePP 30 55.50
 CMS 27.63 220 iPd 30 34.10 1.0
 0.6s 20.00nm 5.0mb
 i 31 08.40 166kmX

MOZ 28.07 166 P 30 37.80 0.8
 e 30 44.90 25kmX
 BWA 28.23 213 eP 30 37.50 -1.1
 e 31 10.40 158kmX
 HBZ 28.24 160 eP 30 38.90 0.4
 CNB 28.44 210 eP 30 41.30 0.8
 1.1s 65.00nm 5.2mb
 e 31 08.00 124kmX
 i 33 50.00

URZ 28.46 162 P 30 39.00 -0.6
 CAN 28.63 211 eP 30 42.20 0.1
 e 31 10.00 130km
 RUZ 28.79 165 P 30 44.40 0.9
 WHH 28.87 164 eP 30 45.10 0.8
 NGZ 28.90 165 P 30 45.90 1.2
 CNZ 28.91 165 P 30 45.90 1.2
 PAHZ 29.00 163 P 30 45.20 -0.2
 NOZ 29.08 161 eP 30 44.10 -2.0
 MOH 29.28 163 eP 30 47.70 -0.2
 WAMZ 29.59 164 P 30 49.30 -1.3
 DIW 30.08 169 eP 30 55.20 0.3
 MNG 30.24 166 P 30 54.90 -1.4
 0.5s 65.00nm 5.6mb

PGZ 30.43 165 P 30 56.00 -2.0
 0.5s 158.00nm 6.0mb
 CAW 30.61 167 P 30 58.30 -1.3
 MRW 30.66 168 P 30 59.00 -0.9
 WEL 30.72 168 P 31 00.80 0.3
 MTW 30.76 166 P 30 59.40 -1.5
 THZ 30.84 170 eP 31 01.30 -0.3
 e 31 11.50 37kmX

KHZ 31.58 170 eP 31 07.00 -1.0
 WR2 31.97 250 iPc 31 11.10 -0.6
 0.9s 29.00nm 5.1mb
 i 31 37.00 117kmX
 i 33 58.70

TOO 32.16 212 eP 31 14.00 0.8
 0.9s 37.00nm 5.2mb
 EWZ 32.28 174 P 31 14.40 0.4
 MQZ 32.70 172 eP 31 16.60 -1.1
 GUMO 32.71 319 eP 31 16.40 -1.7
 PJG 32.71 319 eP 31 16.00 -2.1
 BWJ 33.21 175 P 31 21.10 -1.0
 ASPA 33.24 244 iPc 31 22.10 -0.6
 1.0s 79.20nm 5.4mb

ePP 31 52.50
 iPcP 34 34.50
 eS 36 26.00
 BFD 33.49 216 eP 31 23.00 -1.7
 MHZ 33.69 176 P 31 26.00 -0.4
 SBCZ 33.72 176 P 31 26.00 -0.6
 MSCZ 33.73 176 P 31 26.20 -0.5
 ODZ 33.78 175 P 31 25.60 -1.4
 ADE 34.45 222 eP 31 33.70 0.8
 1.0s 192.00nm 5.8mb

MTN 34.51 264 eP 31 34.10 0.5
 TUZ 34.60 176 P 31 34.40 0.4
 e 32 18.90 215kmX
 KNA 36.82 259 eP 31 52.50 -0.5
 WARB 40.25 243 iPc 32 22.70 1.1
 0.4s 13.00nm 5.0mb

AFR 42.81 104 iP 32 42.80 0.3
 0.8s 35.00nm 5.1mb
 PAE 43.00 104 iP 32 44.30 0.3
 0.8s 40.00nm 5.2mb
 PPT 43.00 104 iP 32 44.30 0.2
 0.8s 45.00nm 5.2mb
 PPN 43.14 104 iP 32 44.50 -0.7
 0.8s 15.00nm 4.7mb

TVO 43.32 104 iP 32 46.00 -0.7
 0.8s 50.00nm 5.3mb
 TBI 43.62 112 iP 32 50.40 1.4
 0.8s 65.00nm 5.4mb
 PMO 44.59 100 iP 32 57.60 0.7
 0.8s 30.00nm 5.0mb
 VAH 44.84 100 iP 32 59.40 0.5
 0.8s 20.00nm 4.9mb

TPT 44.86 100 iP 32 59.90 0.9
 0.8s 30.00nm 5.0mb
 iPP 33 33.40 149kmX
 RUV 45.08 100 iP 33 01.30 0.5
 0.8s 35.00nm 5.1mb
 iPP 33 35.20 151kmX

MBL 45.62 252 eP 33 06.00 1.0
 e 33 40.00 151kmX
 COOL 46.11 238 eP 33 08.80 0.0
 0.3s 15.00nm 5.2mb
 DHH 47.82 47 P 33 23.90 1.7
 pP 33 56.10 141km
 OPA 47.93 47 P 33 24.00 0.9
 pP 33 56.20 141km

KLB 49.09 238 eP 33 31.00 -1.0
 0.4s 23.00nm 5.3mb
 BAL 49.76 239 eP 33 37.00 -0.1
 NWA0 49.83 236 eP 33 37.50 -0.1
 MRWA 50.11 241 eP 33 40.00 0.2
 0.4s 13.00nm 5.1mb
 MUN 50.46 238 eP 33 42.50 0.1
 1.0s 120.00nm 5.7mb

KKM 52.84 287 ePc 34 00.50 0.0
 1.1s 116.90nm 5.7mb
 BAG 53.05 301 eP 34 01.00 -1.1
 e 34 32.80 136km
 MAT 54.53 332 eP 34 10.00 -2.5
 1.2s 26.56nm 5.0mb
 SSE 60.51 316 Pc 34 54.00 -0.4
 0.9s 33.00nm 5.3mb

eS 42 54.00
 NJ2 62.68 315 Pc 35 08.60 -0.3
 1.0s 99.00nm 5.7mb
 QIZ 63.39 298 Pd 35 14.80 1.0
 ADK 64.64 12 P 35 20.80 -0.6
 0.8s 41.38nm 5.4mb
 WHN 65.07 311 Pc 35 23.50 -1.0
 S 43 56.00
 SNY 65.94 326 Pc 35 28.00 -1.8
 pP 36 00.00 131km
 S 44 06.00
 TIA 66.27 318 Pc 35 31.00 -1.1

23d 12h

CN2	66.33	329	iPc	35	31.60	-0.7	0.8s	290.00nm	6.2mb	LSA	83.06	302	pP	37	43.80	140km	0.7s	2.67nm	4.8mb	NVL	96.27	188	ePc	38	09.00	-1.1	41	56.00
			epP	35	59.00	110kmX				LLA	83.15	51	ePc	37	09.52	0.9				MBC	97.24	13	eP	38	14.00	-0.2	38	14.00
CSY	66.35	201	eP	35	31.30	-0.8	0.5s	42.70nm	5.6mb	PR1	83.21	51	iPc	37	10.31	1.3												
IPM	66.93	280	ePc	35	36.90	0.2	1.1s	82.70nm	5.5mb	SYF	83.22	53	eP	37	10.00	0.9				RSSD	97.48	47	P	38	16.20	0.0	38	16.20
			e	36	08.80	130km				WDC	83.35	46	iPc	37	10.21	0.7												
BJ1	69.12	321	Pc	35	49.50	-0.2	1.5s	70.00nm	5.3mb	FBA	83.40	18	P	37	08.10	-1.2				KEV	116.26	345	ePKP	43	23.00	-1.6	43	23.00
			epP	36	22.00	132km				LTCM	83.51	47	P	37	10.90	0.6				SOD	118.03	344	ePKP	43	27.00	-1.0	43	27.00
			eS	44	44.00					ORV	83.73	48	iPc	37	12.02	0.6				ZOBO	119.49	116	PKP	43	32.00	-1.0	43	32.00
			esS	45	36.00								iPc	37	46.33	135km				OBN	121.38	329	ePKP	43	34.00	-0.7	43	34.00
GYA	69.12	304	iPc	35	50.00	-0.2	1.0s	46.00nm	5.3mb	MIN	83.93	47	iPc	37	12.87	0.2												
TIY	70.22	317	Pc	35	57.00	0.4	1.3s	97.00nm	5.5mb	CMB	84.04	49	iPc	37	13.55	0.4				KAF	121.75	339	iPKP	43	34.20	-1.0	43	34.20
			pP	36	29.00	129km				LBFM	84.08	46	P	37	14.00	0.6				NUR	123.43	338	iPKP	43	38.10	-0.4	43	38.10
			S	44	56.00					FRI	84.21	51	iPc	37	14.58	0.7												
XAN	70.80	312	iPc	36	00.20	0.0	0.7s	60.00nm	5.5mb	PAS	84.52	54	eP	37	14.00	-1.5				BFT	123.79	229	ePKP	43	42.30	1.7	43	42.30
NST	70.87	291	eP	36	04.80	4.0X				MWC	84.63	54	eP	37	16.00	-0.3				SEK	123.93	224	iPKPd	43	40.70	-0.1	43	40.70
KMI	71.83	301	Pc	36	08.00	1.3	1.5s	330.00nm	5.9mb	MAW	84.69	202	iPd	37	16.60	0.9												
			pP	36	39.50	126km				ISA	84.74	52	eP	37	27.00	10.3X				FRS	124.55	222	iPKPd	43	46.00	4.4X	43	46.00
SDN	72.00	19	P	36	05.00	-1.8				SSK	84.92	54	P	37	18.10	0.4				SLR	125.05	227	iPKPc	43	42.20	-0.7	43	42.20
			pP	36	40.50	145km				SBB	84.96	53	eP	37	18.00	0.2												
BDT	72.39	292	eP	36	09.00	-0.8				RVR	85.11	54	eP	37	18.00	-0.4				SIV	125.74	119	PKP	43	45.00	0.6	43	45.00
HMC	72.47	319	Pc	36	10.00	-0.1	0.9s	33.00nm	5.1mb	PEC	85.25	54	P	37	19.60	0.4				KSR	125.96	226	ePKP	43	44.00	-0.8	43	44.00
			pP	36	35.00	97kmX							pP	37	54.50	137km				NB2	127.15	345	PKP	43	44.90	-0.9	43	44.90
			eS	45	18.00					CWC	85.28	52	iP+	37	20.00	0.5				HFS	127.26	343	ePKP	43	44.60	-1.4	43	44.60
			eS	45	25.00					CLC	85.47	52	eP	37	21.00	0.7												
CHG	72.93	294	iPc	36	14.00	1.0	1.5s	144.44nm	5.5mb	SHW	85.57	41	P	37	21.50	0.8				BUL	128.00	233	iPKPd	43	48.50	-0.3	43	48.50
			e	36	45.00	124kmX				GMW	85.72	40	P	37	21.90	0.7												
CD2	73.29	307	iPc	36	15.20	0.2	1.2s	130.00nm	5.6mb	PGC	85.72	39	eP	37	22.00	0.9				KSP	133.64	334	ePKP	43	58.40	0.0	43	58.40
			S	45	31.00					GSC	85.94	53	eP	37	33.00	10.4X				BRG	134.60	336	ePKP	44	00.80	0.6	44	00.80
BTO	73.34	319	P	36	15.00	-0.1	1.0s	25.00nm	4.9mb	KVN	86.06	49	P	37	24.00	0.7												
LZH	75.43	312	iPc	36	29.00	1.6	1.5s	230.00nm	5.7mb	BRW	86.09	11	P	37	20.00	-2.5X				CLL	134.63	337	iPKPc	44	01.10	0.9	44	01.10
			pP	36	57.00	109kmX				RMW	86.31	40	P	37	24.30	0.1												
			PP	39	23.00					TNP	86.43	50	P	37	25.50	0.3				PRU	135.03	334	ePKP	44	02.30	1.2	44	02.30
PDB	77.60	19	P	36	37.50	-1.2				GLA	86.89	56	eP	37	28.00	0.7				ZST	135.19	331	ePKP	44	00.80	-0.6	44	00.80
SVW	78.19	18	P	36	42.00	0.0	1.0s	30.00nm	5.0mb	GUN	87.02	299	Pc	37	29.20	0.8												
			pP	37	12.90	142km				PKI	87.35	299	Pc	37	30.20	0.3				MOX	135.69	337	ePKP	44	02.00	-0.3	44	02.00
YAK	78.54	343	iPc+	36	43.00	-0.8				KKN	87.51	299	Pc	37	31.00	0.4				KHC	136.09	334	ePKP	44	03.00	-0.2	44	03.00
			i	37	16.00	131km				DMN	87.62	299	Pc	37	31.60	0.5				GEC2	136.25	334	iPKPc	44	02.80	-0.8	44	02.80
			e	39	27.00					GKN	88.11	299	Pc	37	33.60	0.2												
RSO	78.59	19	P	36	43.00	-1.4				PNT	88.32	39	eP	37	35.00	1.3				GRF	136.61	337	ePKP	44	03.50	-0.6	44	03.50
SPA	78.73	180	iPc	36	44.80	-0.2	0.9s	52.27nm	5.3mb	DPW	88.74	41	P	37	35.80	0.0				SKO	136.80	321	ePKP	44	03.70	-1.0	44	03.70
			pP	38	09.50	131km							pP	38	09.50	131km												
SLKM	79.46	20	P	36	48.30	-0.6				NEW	89.55	41	P	37	39.10	-0.5				MEM	137.67	341	PKP	44	08.00	2.0	44	08.00
			pP	37	23.60	141km							pP	38	04.20	93kmX				WTTA	138.36	334	ePKP	44	04.00	-3.7X	44	04.00
TTA	79.52	16	P	36	49.20	0.0	1.5s	50.00nm	5.4mb	WMO	89.76	315	iPc	37	41.00	0.3												
			pP	37	23.10	135km							pP	38	07.50	99kmX												
GTA	79.73	314	iPc	36	51.90	1.0							SKS	47	58.00					DOU	138.55	342	PKP	44	08.00	0.3	44	08.00
			PcP	36	59.40					INK	89.97	19	eP	37	39.00	-2.0												
			pP	37	24.80	130km							S	48	15.50					GRR	141.56	346	ePKP	44	09.40	-3.7X	44	09.40
PMR	80.61	20	P	36	54.20	-0.6	1.0s	65.00nm	5.3mb	DUG	90.30	49	P	37	43.90	0.5				LPG	141.78	337	ePKP	44	07.80	-6.2X	44	07.80
			pP	37	28.10	134km							pP	38	18.70	135km				LPF	141.94	346	iPKPc	44	09.70	-4.1X	44	09.70
SHL	81.22	298	iP	36	59.40	0.3				HPI	90.98	46	P	37	47.40	0.8				SBF	142.85	335	iPKPc	44	11.50	-4.1X	44	11.50
			eS	46	58.00					PTI	91.29	47	P	37	48.90	1.0												
KLU	81.64	21	P	37	00.30	-0.1				HYB	91.32	287	iPc	37	48.30	0.0				MFF	143.05	345	ePKP	44	12.50	-3.3X	44	12.50
			pP	37	34.90	137km							pP	38	23.30	133km				FRF	143.43	335	iPKPc	44	13.60	-2.9X	44	13.60
RND	82.01	19	P	37	01.70	-0.5							e	38	21.60	128km												
			pP	37	36.70	139km				LRM	91.96	44	ePc	37	51.30	0.3				LRG	143.63	335	ePKP	44	14.50	-2.3	44	14.50
GCC	82.50	50	iPc	37	06.05	0.9							e	38	27.00	139km				LMR	143.67	335	iPKPc	44	14.60	-2.3	44	14.60
			epP	37	41.69	141km				SES	93.95	40	eP	38	00.00	0.2				RJF	143.77	342	iPKPc	44	14.90	-2.1	44	14.90
BALM	82.64	23	P	37	05.00	-0.6				ALO	94.08	55	eP	38	00.80	-0.2				CAF	143.94	341	iPKPc	44	15.80	-1.6	44	15.80
			pP	37	40.80	142km							epP	38	35.00	132km				LFF	144.33	342	iPKPc	44	17.00	-1.0	44	17.00
IRK	82.65	327	ePc	37	05.60	-0.1				ANMO	94.08	55	iP	38	02.30	1.3												
PRS	82.73	51	iPc	37	07.64	1.2							e	38	34.00	121kmX				LPO	144.43							

LESF 145.88 340 PKP 44 21.56 0.8	CN2 33.75 359 iPd 56 15.30 -0.1	0.4s 19.49nm 5.8mb
GRBF 145.97 340 PKP 44 21.44 0.5	0.6s 30.00nm 5.4mb	HFS 92.23 332 eP 02 40.70 -0.8
SOB1 146.03 126 ePKP 44 21.30 -0.5	ASPA 34.27 167 iPc 56 18.10 -2.1	0.7s 17.70nm 5.6mb
	0.6s 19.20nm 5.2mb	Z 19s 0.12um 4.4Msz
TRGS 146.12 339 PKP 44 22.40 1.0		LR 36 54.00
EPF 146.18 341 iPKPc 44 22.40 1.1	MDJ 34.70 5 eP 56 23.60 0.0	KRA 92.57 322 eP 02 43.00 -0.2
0.7s 6.60nm	SHL 35.09 300 iP 56 32.50 -1.6	NB2 92.95 334 P 02 43.10 -1.8
ENSF 146.39 341 PKP 44 24.21 2.5	WARB 35.90 179 eP 56 34.20 0.3	0.7s 9.30nm 5.3mb
EGRA 147.15 342 iPKPd 44 25.85 3.2X	0.4s 20.00nm 5.4mb	YKA 94.18 24 eP 02 51.00 0.6
ECRI 147.39 345 iPKPd 44 26.95 3.7X	GTA 37.51 326 iPc 56 47.10 -0.4	0.9s 9.00nm 5.2mb
STS 148.27 353 iPKPd 44 28.60 4.1X	0.9s 34.00nm 5.3mb	KSP 94.49 323 iPd 02 52.80 0.7
ETOR 148.93 343 iPKPc 44 30.71 4.9X	Z 27s 0.66um 4.3MszX	PRU 95.85 323 eP 02 52.00 -6.3X
GUD 149.65 346 iPKPc 44 32.53 5.6X	pP 56 53.00 20kmX	BRG 95.85 324 iP 02 58.80 0.5
TOL 150.34 345 iPKPc 44 33.20 5.4X	LSA 38.01 306 P 56 52.40 0.1	1.1s 17.00nm 5.5mb
1.7s 269.23nm	MRWA 40.10 194 eP 57 09.00 0.0	CLL 96.22 324 e(P) 03 00.00 0.0
iPKKP 45 10.00	COOL 40.84 186 eP 57 15.00 -0.1	KHC 96.76 322 eP 03 03.00 0.4
EVIA 151.07 342 iPKPc 44 36.11 7.0X	GUN 41.72 301 P 57 22.80 0.0	GEC2 96.80 322 ePd 03 02.30 -0.5
EALH 151.43 340 iPKPc 44 36.30 6.8X	PKI 42.02 300 P 57 24.60 -0.6	0.8s 7.03nm 5.2mb
EHOR 152.59 346 iPKPc 44 38.77 7.6X	0.6s 34.00nm 5.4mb	GRF 97.93 323 eP 03 08.30 0.5
AFC 152.66 342 iPKPd 44 38.53 7.0X	KLB 42.03 191 eP 57 24.00 -0.8	1.1s 13.00nm 5.4mb
EGUA 153.06 342 iPKPc 44 39.17 7.3X	KKN 42.19 301 P 57 25.80 -0.7	Z 21s 0.10um 4.3Msz
EPRU 153.40 345 iPKPd 44 41.19 8.8X	0.6s 23.00nm 5.2mb	WTTA 98.71 321 P 03 11.10 -0.5
KIC 169.95 241 PKP 44 49.14 -0.4	DMN 42.28 300 P 57 26.80 -0.5	0.8s 11.30nm 5.5mb
LIC 170.12 240 PKP 44 49.24 -0.3	0.6s 18.00nm 5.1mb	MEM 100.48 326 Pd iff 03 20.00 0.9
TIC 170.33 242 PKP 44 49.58 -0.1	MUN 42.71 192 eP 57 31.00 0.7	DOU 101.52 326 Pd iff 03 24.40 0.6
S.D. = 1.0 on 211 of 238 obs.	GKN 42.79 301 P 57 30.50 -0.9	LKO 128.09 290 PKP 08 38.74 -0.3
	0.7s 31.00nm 5.2mb	KIC 128.34 286 PKP 08 39.80 0.3
OCT 23, 1991 12h 49m 39.68 ± 1.28s	NWAO 43.43 191 eP 57 26.00 -10.1X	0.9s 16.00nm
9.927 N ± 4.1km 126.004 E ± 6.4km	0.4s 12.00nm	TIC 128.51 287 PKP 08 40.04 0.2
DEPTH = 81.3 ± 11.7 km	RKG 45.07 190 eP 57 50.20 0.9	LIC 128.65 286 PKP 08 40.28 0.2
5.3mb (43 obs.)	0.5s 31.00nm 5.4mb	1.0s 21.50nm
MINDANAO, PHILIPPINE ISLANDS (259)	ADE 46.24 166 iPc 57 59.10 0.5	UPA 148.39 54 ePKPc 09 19.00 3.4X
	1.0s 124.00nm 5.8mb	1.0s 80.00nm
DAV 2.85 189 ePd 50 24.50 0.6	HYB 46.61 285 iPc 58 02.30 0.5	ZOBO 164.87 116 PKP 09 38.00 1.3
KKM 10.43 249 ePc 52 11.50 2.9	1.0s 75.00nm 5.5mb	SIV 170.84 132 PKP 09 42.60 2.5
1.2s 95.10nm 5.6mb X	WMO 47.33 322 P 58 07.00 -0.2	S.D. = 1.1 on 96 of 101 obs.
QIZ 18.06 302 eP 53 47.90 1.0	1.0s 14.00nm 4.8mb	
GUMO 18.82 77 eP 54 00.00 4.2X	pP 58 18.00 38kmX	OCT 23, 1991 12h 50m 26.10 ± 0.90s
SSE 21.53 349 Pc 54 24.50 0.7	BWA 48.97 155 eP 58 20.90 1.0	21.432 N ± 13.2km 157.078 W ± 6.2km
1.4s 160.00nm 5.2mb	e 58 30.80	DEPTH = 29.7 ± 2.1 km
sP 54 37.00	NDI 49.30 299 iPc 58 21.00 -1.6	HAWAII (613)
NJ2 22.99 344 Pd 54 38.00 -0.1	BFD 49.36 163 eP 58 20.00 -2.8	ML 4.1 (HVO). Felt on Lanai and
1.0s 67.00nm 5.0mb	i 58 30.00	Molokai. Also felt in the
MTN 23.19 167 eP 54 40.00 -0.1	CAN 49.98 155 eP 58 27.30 -0.3	eastern part of Oahu.
WHN 23.21 334 Pd 54 40.70 0.5	e 58 38.20	
1.2s 89.00nm 5.1mb	CNB 50.12 155 iPc 58 29.20 0.4	DHH 0.70 257 eP 50 41.48 1.8
pP 54 52.00 44kmX	1.0s 50.00nm 5.5mb	eS 50 50.97
GYA 24.60 314 P 54 54.00 0.1	i 58 39.80	HON 0.87 263 e(P) 50 41.66 -0.6
PcP 58 31.00	50.65 160 eP 58 33.20 0.5	eS 50 48.88
IPM 25.33 260 ePd 55 02.40 1.7	DZM 50.83 129 iPc 58 35.10 0.7	OPA 0.91 287 eP 50 41.68 -1.1
0.8s 61.00nm 5.1mb	POO 51.12 286 iPc 58 36.00 -0.6	eS 50 51.33
KNA 25.66 174 eP 55 02.00 -1.6	0.8s 23.88nm 5.3mb	HKL 1.05 133 e(P) 50 45.67 0.5
NST 25.85 285 eP 55 10.00 4.5X	52.07 2 iPc+ 58 42.60 -0.4	e(S) 51 02.20
NNT 25.90 278 eP 55 08.30 2.4	i 59 06.00	KKU 2.23 133 ePc 51 03.13 1.1
KMI 26.77 307 eP 55 14.00 -0.2	e 00 40.00	KIH 2.27 147 iPc 51 03.08 0.5
BOT 27.21 288 eP 55 17.90 0.0	QUE 58.38 299 eP 59 27.20 -2.2	eS 51 28.50
TIA 27.38 344 Pd 55 19.00 -0.3	MAIO 65.28 305 iPc 00 14.50 -0.9	WOB 2.35 143 ePc 51 03.74 -0.1
CHG 27.63 292 ePc 55 21.60 -0.1	SVW 75.75 29 P 01 20.20 2.1	eS 51 30.23
1.0s 28.00nm 4.8mb	0.9s 25.83nm 5.1mb	HMH 2.35 140 ePc 51 04.09 0.3
XAN 28.66 329 iPc 55 29.30 -1.6	TTA 75.75 27 P 01 19.00 0.9	eS 51 30.83
0.7s 60.00nm 5.3mb	CSY 76.86 186 eP 01 24.50 0.5	MWH 2.38 144 ePc 51 04.07 0.0
pP 55 40.70 43kmX	0.4s 25.70nm 5.5mb	WIH 2.40 144 ePc 51 04.37 -0.4
sP 55 46.10	i 01 37.10	SWH 2.40 145 ePc 51 04.12 -0.6
MAT 28.71 21 eP 55 29.00 -2.3	IMA 77.06 24 P 01 26.50 1.1	PLL 2.42 141 ePc 51 04.93 0.1
0.8s 4.48nm 4.1mb X	RSO 77.11 30 P 01 26.50 0.6	eS 51 31.93
CD2 29.39 318 eP 55 35.30 -2.2	KDC 77.14 33 P 01 26.80 1.0	DAH 2.45 147 ePc 51 04.95 -0.4
0.6s 18.00nm 4.9mb	PMR 78.90 29 P 01 35.60 0.2	TRH 2.47 144 iPc 51 05.16 -0.4
TIY 30.25 338 eP 55 44.00 -1.0	FBA 79.47 26 P 01 38.40 -0.1	MLH 2.49 140 ePc 51 05.79 0.0
0.9s 39.00nm 5.1mb	0.7s 12.50nm 4.9mb	eS 51 33.53
WR2 30.81 165 iPd 55 47.20 -2.8	80.44 29 P 01 44.90 1.1	HIL 2.53 132 ePd 51 06.80 0.8
0.7s 6.00nm 4.4mb	OBN 81.60 324 iPc 01 49.50 -0.3	KFH 2.53 142 iPc 51 06.31 0.0
BJI 31.24 345 eP 55 53.00 -0.6	1.5s *****nm 8.3mb X	MLX 2.55 140 ePc 51 06.65 0.2
1.5s 88.00nm 5.3mb	BALM 82.20 29 P 01 54.30 1.3	AIN 2.55 143 ePc 51 06.25 -0.2
SNY 31.85 357 iPc 55 59.40 0.5	KEV 83.86 340 eP 02 03.00 1.8	KHU 2.57 148 iPc 51 06.29 -0.5
1.0s 140.00nm 5.7mb	SOD 84.50 337 iP 02 04.40 -0.1	CPK 2.61 141 ePc 51 07.20 -0.1
LZH 32.91 326 Pc 56 07.50 -1.0	INK 84.70 22 ePc 02 06.20 0.8	DES 2.62 142 iPc 51 07.10 -0.3
1.5s 60.00nm 5.2mb	pP 02 17.00 34kmX	NPH 2.62 140 ePc 51 07.00 -0.4
Z 22s 0.66um 4.3Msz	KAS 85.19 311 eP 02 09.50 0.9	WOH 2.63 145 ePc 51 07.15 -0.3
pP 56 18.50 40kmX	KAF 85.81 332 iP 02 10.90 -0.2	OUT 2.64 140 ePc 51 07.60 -0.1
sP 56 24.00	0.8s 40.80nm 5.5mb	AHA 2.66 140 ePc 51 07.74 -0.3
QIS 33.12 156 iPc 56 07.70 -2.5	MBC 86.10 13 ePc 02 13.30 1.0	KNH 2.68 141 ePd 51 08.12 -0.1
0.6s 14.00nm 5.0mb	0.9s 63.00nm 5.7mb	PUH 2.69 139 ePc 51 08.10 -0.3
ePP 56 16.70	NUR 86.97 331 iP 02 16.70 -0.1	MVH 2.69 135 ePc 51 08.70 0.3
HHC 33.34 340 Pc 56 12.00 -0.1	0.7s 36.00nm 5.6mb	HLP 2.69 142 ePc 51 08.14 -0.3
1.0s 100.00nm 5.6mb	i 03 08.80	eS 51 38.44
BTO 33.67 338 P 56 14.00 -1.0	MAW 89.29 200 iPd 02 28.60 1.0	PPL 2.72 146 ePc 51 08.34 -0.4
1.0s 35.00nm 5.2mb	DAG 91.07 352 iPd 02 35.70 -0.2	eS 51 38.45

23d 12h

MKA 2.73 138 ePc 51 08.83 -0.1
 PWH 2.76 141 ePc 51 09.12 -0.1
 SPT 2.78 151 ePc 51 08.87 -0.6
 KAE 2.81 139 ePc 51 10.20 0.3
 HUL 2.81 135 ePd 51 10.30 0.3
 WHA 2.83 137 ePc 51 10.08 -0.1
 KPO 2.84 132 ePd 51 10.67 0.2
 POH 2.87 133 ePc 51 11.10 0.4

S.D. = 0.5 on 39 of 39 obs.

& OCT 23, 1991 13h 56m 21.05s
 58.090 N 154.676 W
 DEPTH = 101.9km
 ALASKA PENINSULA (12)
 <AEIC>.

CDD 1.00 32 iP 56 40.89 -1.1
 MCNL 1.11 9 iP 56 42.08 -1.1
 KDC 1.22 105 eP 56 43.00 -1.3
 AGU 1.43 26 eP 56 45.90 -1.1
 AUM 1.43 26 eP 56 45.69 -1.3
 AUP 1.43 27 iP 56 46.33 -0.7
 AUE 1.44 28 eP 56 46.23 -0.8
 PDB 1.72 8 iP 56 49.49 -1.1
 INW 2.14 21 eP 56 55.05 -1.1
 INE 2.15 22 eP 56 55.27 -1.0
 HOM 2.23 44 eP 56 56.85 -0.3
 CNPM 2.30 50 iP 56 57.16 -1.0
 RED 2.53 22 eP 57 00.39 -1.0
 RS1 2.57 22 iP 57 01.37 -0.7
 RS2 2.58 22 iP 57 01.39 -0.7
 RSO 2.58 22 iP 57 01.38 -0.7
 RDW 2.58 21 iP 57 01.28 -0.9
 BRK 2.59 48 eP 57 00.56 -1.5
 REF 2.61 22 iP 57 01.54 -1.0
 RDN 2.62 21 iP 57 01.79 -0.8
 NCT 2.64 19 iP 57 01.88 -0.9
 RDT 2.75 24 eP 57 02.80 -1.5
 SLKM 3.33 41 eP 57 10.36 -1.8
 CKL 3.33 20 eP 57 10.69 -1.6
 SEW 3.37 51 eP 57 10.21 -2.4
 BGL 3.39 19 iP 57 12.05 -0.9
 CGLM 3.50 22 eP 57 12.83 -1.7
 NCG 3.56 20 eP 57 14.42 -0.9
 SUA 3.92 29 iP 57 19.18 -1.2
 LTI 4.03 58 eP 57 19.48 -2.2
 PMS 4.09 37 eP 57 20.50 -2.1
 SKT 4.21 21 eP 57 22.78 -1.4
 KNIM 4.22 55 eP 57 22.19 -2.2
 SDN 4.23 232 eP 57 21.97 -2.4
 VLZ 5.22 51 eP 57 36.00 -2.0
 KLU 5.58 49 eP 57 40.54 -2.6
 HMT 5.80 63 iP 57 43.73 -2.4
 TZL 6.10 46 eP 57 47.02 -3.1
 GLB 6.43 54 eP 57 52.43 -2.4
 CROM 6.47 61 iP 57 53.16 -2.2
 TGL 6.61 61 eP 57 55.02 -2.3
 BALM 6.93 60 eP 57 59.03 -2.6
 YAH 7.02 66 iP 58 00.93 -2.1
 CTGM 7.37 61 iP 58 05.67 -2.1

44 obs. associated

& OCT 23, 1991 14h 03m 12.80s
 49.510 N 117.610 W
 DEPTH = 7.0km (geophysicist)
 BRITISH COLUMBIA, CANADA (23)
 <PGC>. ML 2.2 (PGC). MD 3.0
 (SEA). Felt in the Nelson-
 Castlegar area. Felt most
 strongly in the Slocon Valley.

NEW 1.29 165 P 03 36.30 -0.7
 PNT 1.32 262 P 03 37.60 0.0
 DPW 1.69 194 P 03 43.83 0.9
 SLEB 1.69 349 P 03 42.70 -0.4
 DHW2 2.09 224 P 03 48.69 -0.1
 SAW 2.17 214 P 03 50.84 1.0
 OD2 2.24 199 P 03 53.48 2.5

S 04 23.11
 NLW 2.30 233 P 03 51.49 -0.4
 CBSW 2.35 224 P 03 51.88 -0.6
 WTV 2.39 222 P 03 52.50 -0.5
 MNB 2.74 350 P 04 03.60 5.4
 RPW 2.78 249 P 03 58.22 -0.4
 MBW 2.91 257 P 04 01.26 0.8
 VDB 2.98 262 P 04 07.36 6.0
 TBM 3.08 222 P 04 02.28 -0.5
 HNB 3.25 268 P 04 11.60 6.4

16 obs. associated

OCT 23, 1991 14h 07m 57.78 ± 1.35s
 41.094 N ± 11.3km 29.358 E ± 10.3km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

ISK 0.23 263 ePg 08 02.50 -0.2
 GBZT 0.31 168 ePg 08 04.20 -0.1
 HRT 0.36 139 iPg 08 05.00 -0.2
 YLV 0.53 179 iPg 08 08.80 0.3
 CTT 0.70 275 iPg 08 11.50 -0.2
 DMK 1.41 302 iPn 08 23.70 0.3

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

OCT 23, 1991 14h 38m 43.98 ± 0.39s
 37.317 S ± 5.1km 177.036 E ± 6.3km
 DEPTH = 257.3 ± 3.3 km
 4.9mb (14 obs.)
 OFF E. COAST OF N. ISLAND, N.Z. (160)
 Felt at Nopier.

URZ 0.94 176 Pc 39 18.10 -1.6
 TAZ 1.01 204 P 39 43.20
 HBZ 1.05 106 P 39 19.80 -0.2
 UTU 1.09 218 P 39 20.50 -0.1
 KUZ 1.20 298 Pd 39 17.20 -4.0X
 PATZ 1.23 210 P 39 21.50 0.0
 PUZ 1.23 128 iPc 39 19.30 -2.1
 WLZ 1.26 245 Pc 39 21.20 -0.4
 NOZ 1.52 149 Pc 39 22.80 -0.6
 PAHZ 1.54 179 Pc 39 23.60 0.0
 WHH 1.62 195 P 39 24.20 -0.1
 MOH 1.81 177 Pd 39 26.30 0.6
 TAHZ 1.83 187 eP 39 27.00 0.9
 MAHZ 1.98 161 P 39 27.40 0.2
 MOZ 2.13 235 P 39 29.70 1.2
 NGZ 2.17 211 P 39 29.80 0.7
 CNZ 2.21 211 P 39 30.00 0.5
 TTH 2.23 184 P 39 30.30 0.9
 RUZ 2.25 216 P 39 30.60 0.9
 DRZ 2.27 210 P 39 31.10 0.9
 WAHZ 2.44 192 Pc 39 32.10 0.6
 WCZ 2.56 302 Pc 39 28.70 -4.0X
 TEHZ 2.67 184 Pd 39 34.40 0.5
 BSZ 2.98 213 P 39 37.90 0.9
 NRZ 3.17 229 eP 39 41.00 1.9
 PGZ 3.35 190 Pc 39 41.50 0.4
 MNG 3.51 200 Pc 39 43.30 0.4

KIW 3.91 204 P 39 47.50 0.0
 MTW 4.02 197 P 39 48.50 -0.2
 CAW 4.08 201 Pc 39 49.50 0.0
 AMW 4.11 194 P 39 50.10 0.4
 BLW 4.22 196 P 39 51.00 -0.2
 DIW 4.24 214 P 39 50.70 -0.7
 WDW 4.25 201 P 39 51.10 -0.4
 MRW 4.31 204 P 39 51.90 -0.2
 MOW 4.33 198 P 39 52.00 -0.4
 WEL 4.34 203 P 39 52.60 0.1
 TCW 4.44 208 P 39 53.40 -0.3
 THZ 5.47 214 eP 40 05.50 -0.8
 KHZ 5.76 207 P 40 09.80 0.0
 MQZ 7.20 206 P 40 26.80 -1.0
 WVZ 7.50 218 eP 40 31.10 -0.5
 EWZ 7.78 215 eP 40 34.90 -0.2
 BWZ 9.01 215 eP 40 49.60 -1.2

ODZ 9.10 210 eP 40 52.30 0.4
 MSCZ 9.66 214 eP 40 57.80 -1.3
 LRCZ 9.66 214 eP 40 57.80 -1.5
 LSCZ 9.69 214 eP 40 58.50 -1.0
 SBCZ 9.70 214 eP 40 58.20 -1.4
 TUZ 10.25 210 eP 41 07.40 1.0
 BCZ 11.07 215 eP 41 16.80 0.1
 DZM 17.74 326 iPc 42 31.10 -4.6X
 COO 21.88 280 iPc 43 23.30 6.5X
 CNB 22.36 267 eP 43 25.60 4.1X
 CAN 22.65 267 eP 43 27.60 3.3X
 BRS 22.70 289 iPd 43 26.40 1.6
 BWA 23.33 268 eP 43 31.00 0.2
 TOO 24.99 260 iPd 43 49.20 3.2X
 RMQ 26.23 286 iPd 43 58.60 1.2
 CMS 26.33 273 iPd 44 00.20 2.1
 BFD 27.37 260 eP 44 07.00 -0.5
 QLP 29.68 282 iPc 44 28.80 0.7
 CTAO 31.80 294 iPc 44 46.50 -0.1
 QIS 36.49 287 iPc 45 25.90 -0.5
 PMG 38.73 308 eP 45 43.50 -1.5
 ASPA 39.25 278 iPc 45 49.50 0.2
 WR2 40.87 283 iPd 46 02.20 -0.4
 LAT 40.97 311 eP 46 02.00 -1.4
 MDG 42.81 311 eP 46 18.10 -0.2
 WARB 43.81 270 eP 46 26.00 -0.3
 COOL 46.16 261 eP 46 45.00 0.2
 MTN 47.59 288 eP 46 54.70 -1.3
 KNA 47.64 283 eP 46 55.70 -0.6
 NWAQ 48.41 256 eP 47 02.20 0.1
 KLB 48.53 258 eP 47 03.20 0.2
 MUN 49.58 257 iPd 47 11.70 0.7
 BAL 49.75 259 eP 47 12.00 -0.4
 MRWA 50.91 260 eP 47 21.00 -0.1
 MBL 51.71 271 iPc 47 26.10 -1.1
 SPA 52.87 180 eP 47 40.00 4.6X
 NVL 71.69 185 eP 49 41.00 1.9
 CHTO 92.16 292 eP 51 24.80 -0.7
 INK 111.57 18 ePKP 56 45.00 -3.0X
 MBC 120.08 14 ePKP 57 01.00 -3.1X
 KEV 143.74 343 iPKP 57 43.80 -4.8X
 SOD 145.58 340 iPKP 57 46.80 -5.0X
 OBN 147.91 316 ePKP 57 56.00 0.1
 LIC 148.99 176 PKP 57 58.80 0.0
 KAF 149.29 333 iPKP 57 59.40 1.6
 TIC 149.41 176 PKP 58 00.20 0.7
 NUR 150.94 332 iPKP 58 03.90 3.6X
 LKO 152.25 174 PKP 58 03.90 0.2
 UPP 153.87 336 iPKP 58 22.40 17.9X
 NB2 154.63 344 PKP 58 11.40 5.8X
 HFS 154.81 340 ePKP 58 11.40 5.6X
 S.D. = 0.9 on 78 of 95 obs.

* OCT 23, 1991 15h 37m 36.27 ± 1.35s
 37.029 N ± 13.1km 20.826 E ± 9.6km
 DEPTH = 10.0km (geophysicist)
 IONIAN SEA (399)
 MD 3.2 (ATH).
 VLS 1.16 351 iPg 37 57.00 -1.0
 eSg 38 14.00

VLI 1.72 100 ePb 38 06.00 -0.4
 AGG 2.32 30 eP 38 15.50 0.4
 KEK 2.80 344 ePg 38 31.00 9.1X
 LIT 3.33 23 eP 38 30.20 0.7
 ATN 4.41 286 P 38 45.00 0.3
 eSn 39 35.00
 SKO 4.96 5 ePn 39 15.00 22.5X

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

* OCT 23, 1991 15h 50m 25.42 ± 0.63s
 4.259 S ± 13.2km 128.378 E ± 23.0km
 DEPTH = 33.0km (normal)
 4.3mb (4 obs.)

BANDA SEA (280)

AAI 0.60 342 iPc 50 35.60 -1.8
 iS 50 42.00
 WR2 16.65 160 iPc 54 16.00 -2.0
 0.7s 6.40nm 3.9mb

e 54 31.70
 i 56 13.80
 e 57 15.50

OIS 19.54 147 eP 54 55.50 2.1
 ASPA 20.02 165 eP 54 58.10 -0.4
 0.7s 12.70nm 4.4mb

BWA 35.32 151 eP 57 33.00 13.3X

CAN 36.32 151 eP 57 40.10 12.0X

CHG 36.96 309 eP 57 34.50 0.8

CHTO 36.96 309 eP 57 34.50 0.8

1.0s 3.75nm 4.2mb

KMI 38.38 321 eP 57 47.50 1.7

1.8s 0.05nm 2.0mb X

BJI 45.49 347 eP 58 43.50 0.1

LZH 46.24 332 eP 58 50.00 0.4

1.6s 23.00nm 4.9mb

pP 58 59.00 30kmX

sP 59 04.00

GUN 51.95 311 P 59 34.00 -0.1

PKI 52.13 310 P 59 35.40 -0.1

KKN 52.34 310 P 59 36.20 -0.7

DMN 52.38 310 P 59 36.60 -0.7

GKN 52.94 310 P 59 41.00 -0.3

YAK 66.09 1 eP 01 11.20 0.1

S.D. = 1.2 on 15 of 17 obs.

? OCT 23, 1991 16h 56m 37.98 ± 0.99s

37.735 N ± 8.3km 14.947 E ± 8.8km

DEPTH = 10.0km (geophysicist)

SICILY (398)

MNO 0.28 315 P 56 44.10 0.2

eSg 56 48.10

ATN 0.59 44 P 56 49.20 -0.7

eSg 56 56.50

MEU 0.63 181 P 56 50.60 -0.2

eSg 57 00.50

SOI 0.94 69 P 56 56.50 0.6

eSg 57 08.50

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

* OCT 23, 1991 17h 19m 47.14 ± 0.89s

38.651 N ± 13.0km 73.731 E ± 12.5km

DEPTH = 33.0km (normal)

4.7mb (6 obs.)

TAJIKISTAN-XINJIANG BORDER REG. (719)

QUE 10.13 216 eP 22 12.50 -1.0

eS 23 58.20

NDI 10.36 163 eP 22 19.00 2.5

eS 23 59.00

GKN 13.98 136 P 23 05.00 -0.3

KKN 14.50 135 P 23 11.40 -0.7

0.5s 27.00nm 5.0mb

DMN 14.55 136 P 23 12.40 -0.4

0.5s 30.00nm 5.0mb

PKI 14.74 135 P 23 14.00 -1.4

0.5s 22.00nm 4.8mb

GUN 14.75 133 P 23 15.20 -0.3

0.4s 20.00nm 4.9mb

SHL 20.12 125 eP 24 22.40 1.2

HYB 21.57 167 eP 24 40.00 4.0X

HFS 42.76 320 eP 27 42.50 -0.2

0.5s 1.20nm 3.9mb

NB2 44.01 322 P 27 53.30 0.4

0.8s 2.10nm 4.0mb

S.D. = 1.3 on 10 of 11 obs.

& OCT 23, 1991 17h 47m 03.80s
 49.510 N 117.610 W
 DEPTH = 7.0km (geophysicist)
 BRITISH COLUMBIA, CANADA (23)
 <PGC>. ML 1.8 (PGC). Felt in the
 Slocon Valley.

NEW 1.29 165 P 47 27.00 -1.0

PNT 1.32 262 P 47 28.60 0.0

DPW 1.69 194 P 47 34.60 0.7

SLEB 1.69 349 P 47 35.20 1.1

4 obs. associated

* OCT 23, 1991 18h 11m 30.04 ± 0.92s

27.817 N ± 9.2km 103.395 E ± 14.2km

DEPTH = 33.0km (normal)

4.3mb (2 obs.)

YUNNAN, CHINA (318)

ML 3.7 (BJI).

KMI 2.75 192 ePg 12 13.00 0.1

Sg 12 46.50

CD2 3.10 6 Pn 12 22.70 4.9X

Pg 12 30.60

Sg 13 13.20

GYA 3.21 114 iPnd 12 20.00 0.5

Sn 12 59.00

XAN 7.81 36 Pnd 13 24.50 0.2

Sn 14 54.00

LZH 8.25 3 eP 13 56.50 25.9X

Lg 16 07.00

Lg 16 20.00

CHG 9.85 205 eP 13 53.00 0.5

TIY 12.45 35 Pd 14 27.80 0.0

Z 20s 0.75um

GUN 15.49 274 P 15 00.00 -8.1X

WR2 56.15 144 eP 21 08.10 -0.8

0.7s 1.90nm 4.2mb

ASPA 59.04 147 eP 21 28.80 -0.5

1.2s 3.90nm 4.4mb

S.D. = 0.6 on 7 of 10 obs.

OCT 23, 1991 18h 22m 49.43 ± 0.34s

37.178 N ± 4.9km 142.085 E ± 4.8km

DEPTH = 26.9km (14 depth phases)

4.9mb (26 obs.) 4.3msz (5 obs.)

OFF EAST COAST OF HONSHU, JAPAN (229)

KAKJ 1.82 238 iPd 23 18.40 -1.0

S 23 42.90

YAMJ 1.90 302 P 23 21.90 1.2

OFUJ 1.93 350 iPd 23 21.40 0.4

S 23 46.30

NIJ 2.46 272 P 23 29.50 0.9

CHJJ 2.73 247 iP+ 23 31.70 -0.7

S 24 05.40

MAT 3.17 260 iPd 23 39.70 1.0

eS 24 20.00

MTMJ 3.48 261 P 23 44.80 1.6

AOMJ 3.63 339 P 23 47.10 1.9

IJDJ 3.77 245 P 23 48.50 1.3

TSRJ 5.19 253 iPd 24 09.50 2.2

HOJ 5.28 10 eP 24 07.10 -1.4

S 25 07.30

MRRJ 5.30 352 eP 24 09.90 1.1

eS 25 11.10

WKYJ 6.05 243 P 24 19.60 0.1

KUSJ 6.25 18 iP+ 24 19.80 -2.3

S 25 28.60

ASAJ 6.95 3 iP+ 24 30.80 -1.2

YONJ 7.25 257 P 24 37.40 1.1

TKSJ 7.28 246 P 24 37.20 0.5

KUMJ 10.34 247 eP 25 19.40 0.3

KAGJ 11.03 240 eP 25 29.50 1.0

MDJ 12.01 312 eP 25 46.60 4.8X

CN2 14.27 303 eP 26 17.00 5.3X

SSE 18.32 257 P 27 02.00 -1.2

Z 20s 0.50um

E 13s 0.60um

sP 27 14.80

eS 30 20.00

NJ2 19.77 262 Pd 27 18.00 -2.4

Z 17s 0.53um

TIA 20.03 275 eP 27 20.80 -2.3

BJI 20.43 286 eP 27 24.50 -2.6

TIY 23.51 280 eP 27 56.20 -1.8

WHN 23.91 262 ePd 28 01.00 -0.9

0.7s 28.00nm 4.9mb

sP 28 16.00

BTO 25.12 288 eP 28 15.00 1.4

YAK 26.03 347 iPc 28 20.70 -1.0

iPP 29 10.00

ePPP 29 29.00

ePcP 31 40.00

eS 32 54.00

eSS 33 51.00

XAN 27.07 273 Pc 28 31.00 -0.6

1.2s 17.00nm 4.6mb

pP 28 37.50 23km

sP 28 41.00

GZH 28.42 249 Pd 28 44.50 0.7

LZH 30.57 280 eP 29 02.50 -0.7

1.8s 32.00nm 4.8mb

Z 20s 0.25um 3.9msz

E 15s 0.31um

pP 29 09.00 23km

sP 29 16.50

GYA 31.77 261 P 29 12.60 -1.2

1.0s 32.00nm 5.2mb

CD2 32.21 270 P 29 15.80 -1.7

0.8s 26.00nm 5.2mb

GTA 33.03 287 eP 29 25.00 0.3

0.8s 6.00nm 4.6mb

Z 18s 0.29um 4.0msz

pP 29 31.20 21km

sP 29 34.40

WMO 41.25 297 P 30 36.00 2.2

1.0s 20.00nm 4.8mb

pP 30 43.20 24km

sP 30 48.50

CHG 41.85 256 eP 30 39.20 0.4

CHTO 41.85 256 iP 30 39.20 0.4

0.9s 5.97nm 4.3mb

NNT 45.04 248 eP 31 04.80 0.0

SVW 45.06 37 eP 31 06.30 1.8

GUN 47.67 276 P 31 26.20 0.2

SLKM 47.71 38 eP 31 25.60 0.2

PMR 48.19 37 iP 31 29.70 0.6

1.0s 18.00nm 5.1mb

PKI 48.20 276 P 31 29.40 -0.6

0.8s 26.00nm 5.3mb

KKN 48.20 276 P 31 30.00 0.1

0.8s 36.00nm 5.5mb

DMN 48.42 276 P 31 32.20 0.5

GKN 48.62 277 P 31 33.20 0.1

FBA 48.70 32 eP 31 33.90 1.0

1.0s 12.50nm 4.9mb

BALM 51.50 37 eP 31 55.00 0.4

INK 54.01 27 eP 32 13.00 0.0

MBC 56.24 17 ePc 32 29.50 0.4

1.0s 35.00nm 5.3mb

WR2 57.28 189 iPc 32 35.20 -1.9

0.8s 19.10nm 5.2mb

iP 32 45.10 32km

HYB 58.74 269 eP 32 47.00 -0.6

e 32 55.00 26km

ASPA 61.01 189 eP 33 00.90 -1.9

0.6s 14.60nm 5.3mb

i 33 11.00 33km

DZM 63.25 155 iPc 33 19.80 1.9

KEV 63.50 339 eP 33 18.00 -1.0

RMQ 63.64 173 iPc 33 20.00 -0.3

WARB 64.68 195 iPc 33 27.20 0.1

SOD 65.04 337 iP 33 29.00 0.0

DAG 65.69 355

23d 18h

BRG 81.20 330 eP 35 11.40 7.5X
 CLL 81.24 330 i(P) 35 14.10 10.0X
 1.1s 18.00nm
 PRU 81.64 329 eP 35 14.50 8.3X
 KHC 82.70 329 eP 35 13.20 1.4
 e 35 21.50 26km
 GEC2 82.87 329 ePc 35 13.20 0.4
 0.8s 0.79nm 3.9mb X
 GRF 83.21 330 eP 35 15.50 1.1
 1.0s 4.00nm 4.5mb
 e 35 23.30 25km
 ALO 84.09 50 eP 35 20.00 0.6
 1.0s 6.50nm 4.8mb
 e 35 30.00 32km
 SKO 84.42 320 eP 35 29.00 8.3X
 CDF 85.78 332 eP 35 26.00 -1.5
 0.7s 5.50nm 4.9mb
 HAU 86.46 332 eP 35 29.10 -1.7
 0.6s 3.60nm 4.8mb
 Z 19s 0.15um 4.4MsZ
 LOR 88.00 333 eP 35 37.90 -0.3
 0.7s 6.60nm 5.1mb
 Z 21s 0.15um 4.4MsZ
 SSF 88.30 333 eP 35 39.40 -0.2
 0.7s 3.30nm 4.8mb
 LPL 88.38 330 eP 35 39.50 -0.8
 LPG 88.38 330 eP 35 39.70 -0.8
 AVF 88.59 333 eP 35 40.90 -0.1
 0.7s 3.30nm 4.8mb
 LSF 89.70 334 eP 35 46.20 -0.1
 SIV 150.58 50 PKP 42 42.20 7.1X
 S.D. = 1.1 on 79 of 86 obs.

? OCT 23, 1991 18h 45m 18.61 ± 0.92s
 14.599 N ± 8.1km 60.944 W ± 9.0km
 DEPTH = 10.0km (geophysicist)
 WINDWARD ISLANDS (95)
 MG 1.8 (FDF).

MVM 0.06 133 iPc 45 20.86 -0.1
 S 45 22.60
 BIM 0.15 236 iPc 45 22.13 0.1
 S 45 24.80
 CRM 0.16 10 iPc 45 22.30 0.1
 S 45 25.20
 FDF 0.24 304 iPc 45 23.65 -0.1
 S 45 27.20
 S.D. = 0.2 on 4 of 4 obs.

? OCT 23, 1991 19h 54m 17.58 ± 4.61s
 16.141 N ± 9.5km 60.784 W ± 41.1km
 DEPTH = 33.0km (normal)
 LEEWARD ISLANDS (92)
 ML 2.6 (FDF).

DEG 0.32 303 iPd 54 25.64 0.0
 S 54 29.90
 SFG 0.41 286 iPd 54 26.92 0.1
 S 54 26.96
 MGG 0.56 247 ePd 54 29.16 0.2
 S 54 36.20
 SEG 0.74 291 ePd 54 31.38 -0.2
 S 54 41.00
 PAG 0.87 263 eP 54 33.40 -0.1
 S 54 44.00
 BBL 0.91 227 eP 54 33.90 -0.1
 S 54 45.20
 BPA 1.37 311 eP 54 40.57 0.0
 S 54 56.50
 S.D. = 0.1 on 7 of 7 obs.

* OCT 23, 1991 20h 16m 28.88 ± 0.91s
 20.985 N ± 12.4km 122.682 E ± 24.2km
 DEPTH = 33.0km (normal)
 4.4mb (3 obs.) 3.8MsZ (1 obs.)
 PHILIPPINE ISLANDS REGION (248)

TWG 2.36 321 ePc 17 06.50 0.4
 TWF1 2.68 332 ePd 17 12.20 1.5
 XAN 17.81 320 P 20 37.00 1.1
 N 10s 1.11um
 E 10s 0.82um
 TIY 18.89 334 eP 20 48.00 -1.2
 Z 20s 0.88um
 N 13s 0.44um
 BJI 19.79 345 eP 21 01.00 1.7
 MAT 20.58 38 eP 21 19.00 11.4X
 0.8s 5.22nm

HMC 21.94 337 eP 21 19.20 -2.3
 LZH 22.31 316 eP 21 25.00 -0.2
 2.0s 42.00nm 4.5mb
 Z 20s 0.35um 3.8MsZ
 E 10s 0.20um
 BTO 22.33 334 eP 21 24.00 -1.3
 N 13s 0.30um
 E 13s 0.60um
 CHG 22.42 269 eP 21 26.00 -0.3
 GUN 34.11 289 P 23 00.00 -13.2X
 WR2 42.26 164 eP 24 20.80 -0.1
 0.6s 2.10nm 4.0mb
 ASPA 45.71 166 eP 24 50.10 1.3
 0.7s 3.50nm 4.4mb
 WARB 47.04 175 eP 24 58.60 -0.7
 S.D. = 1.4 on 12 of 14 obs.

OCT 23, 1991 20h 37m 09.11 ± 0.43s
 20.836 N ± 5.1km 122.158 E ± 6.0km
 DEPTH = 29.1km (4 depth phases)
 4.4mb (16 obs.) 4.4MsZ (2 obs.)
 PHILIPPINE ISLANDS REGION (248)

TWG 2.22 333 iPc 37 44.40 -0.2
 TWF1 2.63 342 iPd 37 50.40 -0.1
 eS 38 11.70
 TWK 2.87 328 iPd 37 56.10 2.2
 TWD 3.27 351 ePd 37 59.30 -0.2
 eS 38 28.30
 TWC 3.77 356 ePc 38 06.60 0.0
 QZH 5.25 322 ePn 38 26.00 -1.6
 Z 16s 2.97um
 N 12s 1.55um
 E 12s 1.93um

HKC 7.57 283 ePc 38 58.70 -1.7
 SSE 10.25 355 eP 39 41.00 3.6X
 Z 20s 1.40um
 E 10s 2.10um
 eS 41 28.00

NJ2 11.55 346 Pc 39 57.50 2.4
 Z 13s 1.21um
 N 10s 1.45um
 E 10s 1.65um

QIZ 11.72 263 P 39 56.50 -1.0
 N 13s 1.96um
 E 12s 1.45um

WHN 11.95 326 eP 39 59.20 -1.3
 Z 16s 2.38um
 N 12s 1.81um
 E 12s 2.29um

KKM 15.79 202 ePd 40 53.30 2.0
 XAN 17.61 321 P 41 15.00 0.9
 0.8s 10.00nm 4.0mb
 N 12s 1.11um
 E 12s 0.77um

KMI 18.38 287 Pc 41 25.00 1.2
 1.8s 50.00nm 4.4mb
 Z 12s 1.00um 4.1MsZ
 N 10s 0.50um
 E 10s 0.50um

pP 41 32.50
 eS 44 42.00
 TIY 18.81 335 Pd 41 29.00 0.1
 Z 14s 2.98um
 N 13s 2.13um
 E 12s 1.94um

TSRJ 19.02 37 P 41 33.00 1.7
 CD2 19.33 305 P 41 34.00 -1.2
 0.8s 33.00nm 4.6mb
 Z 16s 1.16um 5.2MsZ
 N 12s 2.14um

BJI 19.81 346 eP 41 39.50 -0.7
 1.0s 7.00nm 3.9mb
 Z 14s 1.18um 3.8MsZ
 N 12s 0.93um
 E 12s 0.79um

IJDJ 20.10 40 P 41 46.60 3.2X
 MTMJ 20.80 38 P 41 48.50 -2.2
 SNY 20.96 3 eP 41 52.50 0.3
 1.0s 12.00nm 4.3mb
 Z 15s 1.29um 4.4MsZ
 N 12s 0.90um
 E 12s 0.70um

MAT 21.00 38 eP 41 52.00 -0.7
 eS 45 58.00
 CHJJ 21.14 41 P 41 55.70 1.7

NST 21.53 260 eP 42 02.50 4.4X
 HMC 21.89 338 P 42 01.70 0.0
 Z 18s 1.21um 4.4MsZ
 N 12s 0.89um
 E 12s 0.68um

CHG 21.93 269 eP 42 02.00 -0.1
 CHTO 21.93 269 iP 42 02.00 -0.1
 1.2s 27.08nm 4.6mb
 LZH 22.08 317 eP 42 04.00 0.3
 1.5s 60.00nm 4.8mb

Z 18s 1.23um 4.4MsZ
 N 10s 0.91um
 pP 42 11.50 27km
 sP 42 14.00
 PP 42 34.50
 eS 46 04.00
 sS 46 17.00

BDT 22.17 265 eP 42 05.00 0.5
 BTO 22.25 335 eP 42 07.00 1.8
 1.0s 18.00nm 4.5mb
 N 13s 2.01um
 E 13s 1.73um

ePP 42 35.50
 eS 46 10.00
 NNT 22.97 253 eP 42 13.80 1.4
 CN2 23.06 6 P 42 16.80 3.7X
 0.8s 11.00nm 4.4mb

Z 14s 3.80um 5.0MsZ
 N 13s 0.99um
 E 13s 0.66um
 epP 42 26.00 33km

MDJ 24.50 13 eP 42 30.40 3.4X
 Z 16s 0.89um 4.4MsZ
 N 13s 0.89um
 E 13s 1.50um

IPM 26.13 235 ePc 42 44.90 2.2
 GTA 26.64 319 eP 42 47.50 0.2
 Z 15s 0.99um 4.5MsZ
 E 11s 0.88um

pP 42 51.60 14kmX
 SHL 28.19 285 eP 43 05.50 3.9X
 GUN 33.70 289 P 43 50.60 0.2
 PKI 34.09 289 P 43 53.40 -0.4
 KKN 34.22 289 P 43 54.20 -0.6
 DMN 34.36 289 P 43 55.80 -0.3
 GKN 34.80 289 P 43 59.20 -0.5
 WMO 36.66 317 P 44 18.50 3.4X
 HYB 41.25 273 eP 44 53.60 0.0
 YAK 41.48 5 eP 44 55.80 1.0
 WR2 42.26 163 eP 44 58.50 -3.2X
 0.9s 6.60nm 4.4mb

QIS 44.54 156 eP 45 21.10 0.9
 0.3s 3.00nm 4.6mb
 ASPA 45.69 165 eP 45 28.30 -1.1
 0.4s 7.30nm 5.0mb

WARB 46.94 174 iPd 45 37.30 -1.9
 TAB 66.56 303 eP 47 48.00 -11.0X
 MSL 69.35 302 eP 48 27.50 11.2X
 e 51 42.00

SOD 73.07 336 eP 48 32.00 -6.1X
 e 48 40.00 26km
 INK 75.98 22 eP 48 54.00 -0.8
 MBC 76.32 13 eP 48 56.00 -0.6
 1.0s 8.00nm 4.7mb

VR1 78.98 315 ePd 49 12.50 0.6
 HFS 80.92 331 eP 49 20.00 -1.9
 0.5s 1.40nm 4.2mb
 NB2 81.60 333 P 49 23.80 -1.7
 1.0s 2.00nm 4.1mb

KRA 81.79 320 eP 49 26.30 -0.3
 PGB 81.83 312 iP 49 27.00 -0.1
 VTS 82.47 313 iP 49 31.00 0.4
 KKB 82.82 312 iP 49 32.00 -0.2
 VAY 83.38 312 eP 49 34.30 -0.8
 KSP 83.61 322 eP 49 34.50 -1.5
 SKO 83.92 313 eP 49 37.50 -0.3
 BRG 84.93 323 e(P) 49 44.70 2.0
 PRU 84.99 322 eP 49 47.00 4.0X
 e 50 04.50 62kmX

KHC 85.94 321 eP 50 04.00 16.2X
 GEC2 86.00 321 iPc 49 47.80 -0.4
 0.6s 0.67nm 4.0mb
 e 49 57.60 31km

EKA 91.08 332 Pd 50 26.10 14.0X
 0.6s 2.30nm
 S.D. = 1.2 on 54 of 68 obs.

OCT 23, 1991 20h 41m 57.19± 0.34s
 33.135 N ± 7.7km 57.245 E ± 3.6km
 DEPTH = 33.0km (normol)
 4.5mb (9 obs.)

NORTHERN IRAN (348)

MAIO	3.66	30	iPd	42	51.30	-1.7
SHI	5.33	230	eP	43	28.00	11.3X
TEH	5.49	300	eP	43	20.00	1.0
IR4	5.66	294	iPd	43	22.00	0.7
IR1	5.89	295	iPd	43	25.30	0.8
IR5	5.90	292	eP	43	24.00	-0.7
IR7	6.05	297	iPc	43	27.10	0.2
KER	8.53	281	e(P)	44	01.00	-0.5
RYD	12.52	231	eP	45	06.00	10.1X
MJMA	12.68	238	eP	44	55.00	-3.1X
QASM	13.83	243	eP	45	13.00	-0.2
UOSK	14.88	244	eP	45	26.00	-1.0
AFIF	15.27	237	eP	45	35.00	2.9X
NDI	17.70	99	eP	46	04.50	1.8
GKN	24.10	95	P	47	10.60	-0.4
	0.7s	15.00nm			4.6mb	
DMN	24.62	96	P	47	16.20	0.0
KKN	24.71	95	P	47	16.80	-0.1
	0.6s	11.00nm			4.6mb	
PKI	24.89	95	P	47	19.00	0.2
	0.8s	16.00nm			4.7mb	
GUN	25.17	94	P	47	21.40	-0.1
	1.0s	54.00nm			5.1mb	
OBN	26.30	333	eP	47	32.00	0.7
		e		48	14.50	
		e		48	35.00	
GEC2	35.88	309	ePc	48	55.40	-0.6
	0.8s	1.23nm			3.9mb	
CLL	36.79	313	iPd	49	04.50	1.0
		e		49	54.00	
CHG	39.84	100	eP	49	29.00	-0.4
SBF	39.89	300	eP	49	29.80	0.2
	0.7s	8.80nm			4.6mb	
LPG	40.35	303	eP	49	33.40	-0.2
	0.7s	3.30nm			4.2mb	
LPL	40.36	303	eP	49	33.40	-0.2
HAU	40.67	307	eP	49	35.40	-0.5
SMF	42.36	305	eP	49	49.80	0.1
	0.7s	4.40nm			4.3mb	
AVF	42.69	305	eP	49	52.40	0.0
	0.9s	4.90nm			4.2mb	

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

OCT 23, 1991 20h 45m 07.75± 0.28s
 33.082 N ± 7.6km 57.320 E ± 3.8km
 DEPTH = 33.0km (normol)
 4.6mb (33 obs.) 4.0msz (1 obs.)

NORTHERN IRAN (348)

MAIO	3.68	29	eP	46	04.00	0.3
TEH	5.57	300	eP	46	31.00	0.3
BHD	10.84	275	eP	47	45.00	1.3
GKN	24.03	95	P	50	21.40	0.5
	0.7s	36.00nm			5.0mb	
DMN	24.55	95	P	50	26.60	0.5
	0.8s	30.00nm			4.9mb	
KKN	24.64	95	P	50	27.00	0.2
	0.7s	32.00nm			5.0mb	
HYB	24.67	124	ePc	50	28.00	1.1
PKI	24.82	95	P	50	28.80	0.1
	0.8s	26.00nm			4.9mb	
GUN	25.10	94	P	50	30.90	-0.5
OBN	26.38	333	eP	50	46.70	4.2X
	1.5s	56.00nm			5.0mb	
	2.20s	0.40um			4.0msz	
		e		50	57.50	
		ePcP		51	25.00	
MLR	27.08	306	ePc	50	51.50	2.2
GEC2	35.97	309	ePd	52	05.60	-1.7
	0.7s	5.04nm			4.6mb	
		e		54	32.40	
KHC	36.09	310	P	52	08.00	-0.3
BHG	36.35	307	iPd	52	10.70	0.3
	0.7s	12.00nm			4.9mb	
SFI	36.77	301	P	52	15.20	1.2
PGD	36.87	301	P	52	16.30	1.3
CLL	36.87	313	iPc	52	15.00	0.3
	1.1s	13.00nm			4.7mb	
WTTA	37.13	306	Pc	52	16.50	-0.7
	0.8s	17.80nm			5.0mb	
BOB	38.51	302	P	52	29.10	0.4

SOD	38.71	342	eP	52	31.00	1.1
HFS	39.24	327	eP	52	33.70	-0.8
	0.5s	2.90nm			4.3mb	
CHG	39.77	100	eP	52	39.60	0.2
CHTO	39.77	100	iP	52	39.50	0.2
	1.0s	8.75nm			4.5mb	
SBF	39.97	301	iPc	52	40.70	-0.1
	0.7s	22.05nm			5.0mb	
CDF	40.15	308	eP	52	41.00	-1.3
LPG	40.43	303	iPc	52	44.40	-0.4
	0.7s	5.50nm			4.4mb	
LPL	40.44	303	eP	52	44.40	-0.5
	0.8s	8.05nm			4.5mb	
BSF	40.44	307	eP	52	43.60	-1.1
NB2	40.72	327	P	52	42.20	-4.5X
	1.3s	3.80nm			4.0mb	
HAU	40.75	307	eP	52	46.50	-0.6
MEM	41.14	311	P	52	56.90	6.7X
DOU	42.01	310	P	52	58.60	1.3
LBF	42.34	305	iPc	52	59.80	-0.4
	0.8s	5.35nm			4.3mb	
LOR	42.42	306	eP	53	00.40	-0.4
	0.9s	5.75nm			4.3mb	
SMF	42.44	305	iPc	53	00.90	-0.1
	0.8s	15.45nm			4.8mb	
SSF	42.66	305	iPc	53	02.60	-0.2
	0.9s	10.65nm			4.6mb	
AVF	42.77	305	iPc	53	03.60	-0.1
	0.8s	9.40nm			4.6mb	
BGF	43.13	305	eP	53	06.30	-0.3
	0.8s	7.40nm			4.5mb	
MAF	43.33	304	iPc	53	08.40	0.1
	0.9s	8.20nm			4.5mb	
TCF	43.58	304	iPc	53	10.40	0.1
	0.9s	7.35nm			4.5mb	
CAF	43.76	302	iPc	53	11.80	0.0
	0.7s	4.40nm			4.3mb	
LSF	44.05	304	eP	53	13.80	-0.3
	0.8s	5.35nm			4.4mb	
RJF	44.12	303	iPc	53	15.00	0.4
	0.7s	7.70nm			4.6mb	
LPO	44.40	302	eP	53	16.90	0.0
LFF	44.70	303	iPc	53	19.40	0.1
	0.7s	7.70nm			4.7mb	
EKA	46.98	317	Pd	53	37.00	-0.2
	0.6s	5.70nm			4.7mb	
LKO	62.19	263	P	55	27.94	-0.7
	0.8s	5.00nm			4.7mb	
KIC	63.21	260	P	55	35.10	-0.2
MBC	70.92	359	ePc	56	22.60	-0.5
	0.5s	7.00nm			5.0mb	
INK	78.60	4	eP	57	07.00	-0.1
FBA	80.38	11	eP	57	16.90	0.0
PMR	83.24	12	eP	57	31.80	0.0
	1.0s	8.00nm			4.8mb	
WR2	90.41	114	eP	58	06.20	-1.2
	0.5s	2.00nm			4.7mb	
ASPA	92.19	117	eP	58	14.50	-1.0
	1.0s	4.10nm			4.8mb	

S.D. = 0.7 on 51 of 54 obs.

OCT 23, 1991 21h 14m 30.22± 1.79s
 0.492 S ± 9.3km 119.990 E ± 13.4km
 DEPTH = 74.8 ± 17.6 km
 4.9mb (12 obs.)

MINAHASSA PENINSULA, SULAWESI (265)

MKS	4.72	186	iPd	15	42.50	1.9
TSM	5.20	336	ePc	15	42.00	-5.3X
	0.3s	142.80nm			5.7mb X	
		e		16	41.90	
KKM	7.51	330	ePc	16	18.40	-0.9
		e		17	42.10	
IPM	19.60	285	ePd	18	52.90	-2.5
	0.9s	54.70nm			4.8mb	
WR2	23.92	145	eP	19	36.80	-1.6
	0.9s	8.40nm			4.2mb	
NNT	23.93	304	iPd	19	28.80	-9.7X
ASPA	26.70	151	iPc	20	02.40	-2.0
	0.7s	6.00nm			4.2mb	
	21s	0.50um			4.0msz	
CHG	28.20	314	eP	20	17.90	-0.2
CHTO	28.20	314	eP	20	17.90	-0.2
	1.0s	5.00nm			4.1mb	
KMI	30.45	328	eP	20	39.00	0.7
	1.5s	0.06nm			2.1mb X	
		pP		20	47.00	28kmX

SSE	31.43	2	P	20	48.50	1.9
	1.0s	12.00nm			4.6mb	
SHL	37.53	316	iP	21	38.50	-0.6
LZH	39.37	339	P	21	55.40	1.0
	1.5s	37.00nm			5.1mb	
		sP		22	15.00	
BJI	40.49	355	eP	22	05.00	1.8
	1.0s	16.00nm			4.9mb	
		e		23	40.00	
MAT	40.55	23	eP	22	02.00	-1.8
	1.3s	13.46nm			4.7mb	
BWA	42.97	145	eP	22	25.30	1.6
GUN	43.22	314	P	22	26.60	0.4
PKI	43.37	313	P	22	27.00	-0.4
	1.1s	42.00nm			5.2mb	
KKN	43.59	313	P	22	29.20	0.1
	1.0s	50.00nm			5.3mb	
DMN	43.61	313	P	22	29.60	0.3
	1.0s	42.00nm			5.2mb	
CAN	43.94	145	eP	22	31.00	-0.6
GKN	44.18	313	P	22	34.00	0.2
	1.1s	63.00nm			5.4mb	
HYB	44.51	296	eP	22	35.70	-0.7
QUE	58.91	306	eP	24	23.20	-1.2
YAK	62.78	5	P	24	48.80	-0.9
		eS		32	34.00	
MAIO	66.87	310	iPd	25	16.50	-0.3
MAW	77.53	199	eP	26	19.00	-0.1
AKSR	87.42	294	iPd	27	13.00	2.0
AKUR	87.65	294	iPd	27	14.00	1.9

S.D. = 1.4 on 27 of 29 obs.

OCT 23, 1991 21h 36m 01.27± 0.51s
 37.682 N ± 5.3km 15.211 E ± 5.2km
 DEPTH = 43.5 ± 9.8 km
 3.6mb (1 obs.)

SICILY (398)

	MD 3.7 (ROM).					
GIO	0.14	215	P	36	08.02	-0.4
MNO	0.48	302	Pc	36	08.10	-4.0X
		eSg		36	13.40	
ATN	0.52	23	Pd	36	11.70	-0.7
		eSg		36	21.00	
MEU	0.62	201	P	36	14.10	0.2
		eSg		36	23.50	
PZI	0.69	200	P	36	15.06	0.3
GMB	0.71	47	P	36	15.85	0.7
SOI	0.77	59	Pc	36	18.00	2.2
		eSg		36	31.50	
MCT	1.25	268	P	36	22.70	-0.1
CZI	1.70	25	P	36	29.10	0.2
ACI	1.84	25	P	36	33.60	2.7X
ROI	2.17	29	P	36	36.80	1.2
CSI	2.26	22	P	36	37.80	0.9
MMN	2.29	15	P	36	37.40	0.1
MGR	2.47	6	P	36	39.50	-0.4
		eSn		37	07.90	
SGO	2.87					

23d 21h

? OCT 23, 1991 21h 38m 04.03±0.92s
37.819 N ± 8.8km 15.058 E ± 7.6km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO 0.31 291 P 38 10.40 -0.1
eSg 38 14.90
ATN 0.47 43 P 38 14.00 0.5
eSg 38 21.00
MEU 0.72 188 P 38 18.50 0.2
eSg 38 26.50
SOI 0.83 72 P 38 19.50 -0.5
eSg 38 33.50
S.D. = 0.7 on 4 of 4 obs.

% OCT 23, 1991 21h 41m 04.84±0.93s
37.746 N ± 8.7km 14.921 E ± 11.2km
DEPTH = 33.0km (normal)
SICILY (398)

MNO 0.26 316 P 41 12.00 -0.3
eSg 41 16.50
ATN 0.60 46 P 41 15.60 -1.2
eSg 41 23.00
MEU 0.64 179 P 41 17.70 0.1
eSg 41 28.00
SOI 0.95 70 P 41 22.00 0.1
eSg 41 35.50
CZI 1.75 33 P 41 33.00 -0.3
ROI 2.23 35 P 41 40.40 0.1
CSI 2.29 27 P 41 42.60 1.5
S.D. = 1.0 on 7 of 7 obs.

% OCT 23, 1991 21h 44m 10.11±0.75s
37.771 N ± 6.4km 15.008 E ± 7.5km
DEPTH = 19.1 ± 7.8 km
SICILY (398)

MNO 0.30 303 P 44 17.00 0.1
eSg 44 22.50
ATN 0.53 43 Pd 44 21.00 0.4
eSg 44 30.00
MEU 0.67 185 P 44 23.00 -0.1
iSg 44 33.00
SOI 0.88 70 Pc 44 27.00 0.5
eSg 44 39.00
CZI 1.69 31 P 44 38.20 -0.7
eSg 45 03.20
ROI 2.17 34 P 44 45.90 0.0
eSg 45 14.40
CSI 2.24 26 P 44 46.80 0.0
eSg 45 15.50
MMN 2.25 20 P 44 47.80 0.9
eSg 45 15.60
MGR 2.40 10 P 44 48.30 -0.8
eSn 45 16.60
SGO 2.79 5 P 44 55.50 0.9
BRT 3.54 28 P 45 04.10 -1.2
eSn 45 45.00
S.D. = 0.8 on 11 of 11 obs.

? OCT 23, 1991 21h 45m 56.55±4.48s
34.243 S ± 40.8km 71.213 W ± 11.8km
DEPTH = 33.0km (normal)
NEAR COAST OF CENTRAL CHILE (135)

LNV 0.33 330 iPd 46 04.80 0.1
iS 46 15.00
CHCH 0.56 57 iPc 46 08.00 -0.1
iS 46 20.00
TACH 0.63 21 iP 46 09.00 0.0
iS 46 22.00
LCCH 0.82 339 iP 46 11.50 -0.2
iS 46 25.00
PCH 0.85 43 iPd 46 12.20 0.0
iS 46 27.70
PEL 1.18 22 eP 46 17.00 0.1
S.D. = 0.1 on 6 of 6 obs.

% OCT 23, 1991 21h 49m 30.94±0.81s
37.784 N ± 7.3km 15.020 E ± 7.2km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO 0.30 300 P 49 37.50 0.3
eSg 49 42.00
ATN 0.51 43 P 49 41.80 0.5

MEU 0.69 186 P 49 50.50 -0.1
eSg 49 44.50
SOI 0.87 70 P 49 54.00 0.4
eSg 49 48.00
CZI 1.68 31 P 50 02.00 -1.0
eSg 49 59.40
ROI 2.16 34 P 50 22.40 -0.1
eSg 50 07.40
S.D. = 0.7 on 6 of 6 obs.

% OCT 23, 1991 21h 51m 43.24±0.79s
37.767 N ± 7.1km 15.034 E ± 7.3km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO 0.31 301 P 51 50.30 0.4
eSg 51 56.10
ATN 0.52 41 P 51 54.40 0.7
eSg 52 03.00
MEU 0.67 187 P 51 56.50 -0.1
eSg 52 06.50
SOI 0.86 69 P 52 00.50 0.7
eSg 52 13.50
CZI 1.69 30 P 52 11.80 -1.0
ROI 2.17 33 P 52 19.30 -0.6
CSI 2.23 26 P 52 20.80 0.0
eSg 52 50.20
S.D. = 0.8 on 7 of 7 obs.

% OCT 23, 1991 21h 52m 44.46±0.85s
37.737 N ± 7.4km 15.015 E ± 7.7km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO 0.32 307 P 52 51.30 0.1
eSg 52 55.70
ATN 0.55 40 P 52 55.20 -0.5
eSg 53 04.30
MEU 0.64 186 P 52 57.20 -0.1
eSg 53 07.40
SOI 0.89 68 P 53 02.00 0.5
CZI 1.72 30 P 53 14.50 0.0
S.D. = 0.5 on 5 of 5 obs.

% OCT 23, 1991 21h 53m 52.01±0.95s
37.651 N ± 7.9km 15.052 E ± 9.2km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO 0.40 315 P 54 00.50 0.3
eSg 54 05.50
MEU 0.56 190 P 54 03.20 -0.2
eSg 54 15.00
ATN 0.60 32 P 54 03.00 -1.2
eSg 54 12.00
SOI 0.90 62 P 54 10.00 0.8
eSg 54 24.00
CZI 1.78 28 P 54 23.30 0.3
S.D. = 1.1 on 5 of 5 obs.

% OCT 23, 1991 21h 54m 46.18±0.88s
37.780 N ± 7.7km 14.967 E ± 7.6km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO 0.26 305 P 54 52.10 0.3
eSg 54 56.70
ATN 0.55 46 P 54 57.50 0.3
eSg 55 06.00
MEU 0.68 182 P 54 59.60 -0.1
eSg 55 09.70
SOI 0.91 71 P 55 04.00 0.5
eSg 55 17.50
CZI 1.70 32 P 55 15.10 -0.9
S.D. = 0.8 on 5 of 5 obs.

? OCT 23, 1991 22h 01m 05.60±0.91s
37.799 N ± 8.4km 15.020 E ± 7.5km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO 0.29 297 P 01 11.80 0.1
eSg 01 15.20
ATN 0.50 44 P 01 15.50 -0.3
eSg 01 23.50
MEU 0.70 186 P 01 19.40 -0.1
eSg 01 28.70

SOI 0.86 71 P 01 22.50 0.3
eSg 01 36.50
S.D. = 0.5 on 4 of 4 obs.

% OCT 23, 1991 22h 04m 43.86±0.93s
37.777 N ± 9.4km 14.885 E ± 11.6km
DEPTH = 33.0km (normal)
SICILY (398)

MNO 0.22 316 P 04 50.90 0.0
eSg 04 54.80
ATN 0.60 50 P 04 55.20 -0.6
eSg 05 03.70
MEU 0.68 177 P 04 57.00 0.0
eSg 05 06.90
SOI 0.97 72 P 05 01.50 0.4
eSg 05 14.50
CZI 1.74 34 P 05 12.50 0.3
S.D. = 0.6 on 5 of 5 obs.

% OCT 23, 1991 22h 05m 38.83±0.93s
37.796 N ± 9.7km 14.903 E ± 11.5km
DEPTH = 33.0km (normal)
SICILY (398)

MNO 0.21 309 P 05 46.00 0.2
eSg 05 51.40
ATN 0.57 50 P 05 49.80 -0.7
eSg 05 58.00
MEU 0.69 178 P 05 52.10 -0.2
eSg 06 02.00
SOI 0.95 73 P 05 56.50 0.7
eSg 06 10.00
CZI 1.72 34 P 06 06.80 0.0
S.D. = 0.7 on 5 of 5 obs.

? OCT 23, 1991 22h 08m 18.13±0.98s
37.749 N ± 8.0km 15.056 E ± 9.7km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO 0.34 303 Pd 08 25.30 0.1
eSg 08 29.50
ATN 0.52 38 P 08 29.20 0.5
eSg 08 37.00
MEU 0.65 189 P 08 31.30 0.0
eSg 08 41.50
SOI 0.85 68 P 08 37.00 2.4X
eSg 08 50.00
CZI 1.69 30 P 08 47.20 -0.6
eSg 09 10.00
S.D. = 0.8 on 4 of 5 obs.

% OCT 23, 1991 22h 12m 12.69±0.90s
37.724 N ± 9.5km 15.086 E ± 10.4km
DEPTH = 33.0km (normal)
SICILY (398)

MNO 0.37 304 P 12 22.00 0.4
eSg 12 28.00
ATN 0.53 34 P 12 23.00 -0.7
eSg 12 31.50
MEU 0.63 191 P 12 25.00 -0.3
eSg 12 35.00
SOI 0.84 65 P 12 29.00 0.9
eSg 12 42.00
CZI 1.70 29 P 12 40.20 -0.3
S.D. = 0.9 on 5 of 5 obs.

? OCT 23, 1991 22h 15m 10.84±2.42s
26.460 S ± 18.0km 175.270 W ± 32.6km
DEPTH = 33.0km (normal)
5.1mb (2 obs.)
SOUTH OF TONGA ISLANDS (175)

VUN 10.22 324 ePc 17 38.20 -0.1
DZM 17.23 281 iPc 19 11.10 0.3
ASPA 45.89 262 eP 23 32.40 0.2
0.4s 15.40nm 5.3mb
i 24 04.00
WR2 46.51 267 eP 23 35.90 -1.2
0.4s 7.50nm 5.0mb
WARB 51.66 257 eP 24 17.30 0.4
GUN 109.17 292 Pd diff 29 36.00 0.3
PKI 109.45 292 Pd diff 29 32.00 -4.9X
KKN 109.63 292 Pd diff 29 29.80 -7.7X
DMN 109.71 292 Pd diff 29 30.20 -7.7X

HYB 111.73 279 ePdif129 49.40 2.6X	ADK 3.15 76 eP 19 26.00 0.5	GOL 52.41 71 eP 27 48.20 -0.3
NB2 145.15 354 PKP 34 54.40 8.4X	SDN 13.27 64 eP 21 44.00 -1.4	0.9s 14.20nm 4.9mb
0.8s 5.40nm	PDB 17.61 50 eP 22 43.00 1.7	LZH 53.71 284 iPc 27 58.00 0.0
HFS 145.78 352 ePKP 34 55.50 8.5X	TTA 18.03 40 eP 22 48.00 1.6	1.5s 100.00nm 5.6mb
0.4s 15.90nm	KDC 18.03 58 eP 22 43.00 -3.4X	Z 26s 0.43um 4.4MsZ
KSP 154.10 343 iPKP 35 19.00 19.1X	IMA 20.51 33 eP 23 15.00 0.3	E 14s 0.39um
CLL 154.40 348 e(PKP)35 20.00 19.7X	PMR 20.51 47 eP 23 13.00 -1.6	pP 28 09.00 37kmX
i 35 35.80	KLU 21.98 48 eP 23 29.00 -0.6	PP 30 04.00
GEC2 156.59 345 ePKPc 35 28.30 24.8X	FBA 22.15 39 eP 23 30.50 -0.7	GTA 53.96 290 iPc 27 59.50 -0.3
0.7s 0.30nm	BRW 23.06 20 eP 23 40.70 0.7	1.0s 19.00nm 5.1mb
e 35 32.20	INK 28.59 35 ePc 24 31.10 -0.6	Z 16s 0.93um 4.9MsZ
S.D. = 0.8 on 6 of 15 obs.	0.9s 46.00nm 5.2mb	E 16s 0.91um
* OCT 23, 1991 22h 34m 07.76±2.77s	MAT 32.02 258 eP 25 02.00 -0.4	pP 28 10.20 36kmX
23.140 N ±16.4km 121.912 E ±19.5km	1.0s 32.00nm 5.2mb	sP 28 13.70
DEPTH = 10.0km (geophysicist)	eS 30 09.00	ANMO 54.85 76 ePc 28 06.40 -0.1
TAIWAN (244)	MDJ 32.84 278 eP 25 07.60 -1.9	1.0s 52.50nm 5.5mb
TWF1 0.60 291 iPc 34 19.80 -0.2	MBC 34.39 22 ePc 25 22.70 0.1	ALO 54.85 76 ePc 28 06.10 -0.5
TWG 0.84 248 iPd 34 23.80 -0.1	1.0s 59.00nm 5.5mb	1.0s 15.25nm 5.0mb
eS 34 36.40	CN2 35.83 279 Pc 25 33.60 -1.5	Z 20s 0.28um 4.3MsZ
TWD 0.98 343 iPd 34 26.20 -0.1	0.8s 12.00nm 4.9mb	CD2 57.26 280 P 28 22.40 -1.2
TWK 1.32 276 iPd 34 32.40 0.3	Z 20s 1.60um 4.8MsZ	1.0s 56.00nm 5.6mb
eS 34 51.10	epP 25 43.00 32kmX	KEV 57.51 349 eP 28 24.00 -0.9
TWC 1.46 358 iPc 34 34.20 0.0	ePP 26 58.00	WMO 57.91 301 iPc 28 27.60 -0.5
TATO 1.87 348 eP 34 40.10 0.1	eS 31 13.00	0.9s 56.00nm 5.6mb
eS 35 04.00	YKA 36.60 46 eP 25 41.10 -0.4	N 18s 1.05um
S.D. = 0.2 on 6 of 6 obs.	0.5s 8.20nm 4.9mb	pP 28 35.00 24kmX
% OCT 23, 1991 22h 53m 31.30±0.94s	BMW 37.84 74 eP 25 53.60 1.5	GYA 58.57 274 iPc 28 31.60 -1.3
37.745 N ±8.2km 15.022 E ±8.4km	SNY 38.04 278 iPc 25 53.80 0.0	1.2s 46.00nm 5.5mb
DEPTH = 10.0km (geophysicist)	1.4s 77.00nm 5.4mb	MEO 59.71 71 iPd 28 40.90 0.3
SICILY (398)	Z 24s 0.72um 4.4MsZ	SOD 59.81 348 iP 28 38.50 -2.3
MNO 0.32 306 P 53 38.30 0.3	sP 26 07.40	i 28 44.20
eSg 53 42.70	eS 31 50.00	SIO 60.39 69 eP 28 44.10 -1.1
ATN 0.54 40 P 53 43.00 0.7	NEW 40.59 68 ePc 26 15.00 0.1	TUL 60.58 68 eP 28 44.80 -1.7
eSg 53 51.80	0.6s 13.00nm 4.9mb	0.6s 7.00nm 5.0mb
MEU 0.65 187 P 53 44.30 0.0	0.9s 29.61nm 5.0mb	i 28 46.00
eSg 53 54.60	LBFM 41.38 80 eP 26 23.00 1.3	e 28 52.80
SOI 0.88 68 P 53 48.50 0.3	ORV 42.66 82 eP 26 32.70 0.7	VVO 61.01 69 eP 28 48.10 -1.3
eSg 54 03.50	SES 43.00 62 eP 26 33.00 -1.7	i 28 49.00
CZ1 1.71 30 P 53 59.90 -1.4	BJI 43.66 280 eP 26 40.00 0.0	e 28 56.40
S.D. = 1.1 on 5 of 5 obs.	1.0s 13.00nm 4.7mb	KMI 61.98 276 Pc 28 55.00 -1.4
? OCT 23, 1991 22h 58m 20.67±0.93s	Z 20s 0.36um 4.3MsZ	1.5s 60.00nm 5.5mb
37.734 N ±8.1km 15.017 E ±8.2km	ePP 28 23.00	OLY 63.37 66 eP 29 03.10 -2.1
DEPTH = 10.0km (geophysicist)	eS 33 12.00	ELC 63.37 63 eP 29 04.00 -1.2
SICILY (398)	IRK 43.98 302 ePc 26 41.40 -1.1	KAF 64.83 346 eP 29 12.70 -1.6
MNO 0.32 308 P 58 27.50 0.1	e 28 28.50	0.5s 12.20nm 5.3mb
eSg 58 32.20	CMB 44.27 83 eP 26 46.30 1.2	LSA 65.80 288 Pc 29 22.00 0.4
ATN 0.55 39 P 58 31.60 -0.3	1.1s 20.59nm 4.9mb	NUR 66.61 346 eP 29 24.80 -0.9
eSg 58 40.90	LRM 44.58 69 eP 26 46.70 -1.1	0.6s 13.10nm 5.2mb
MEU 0.64 186 P 58 33.40 -0.1	HPI 45.38 71 eP 26 54.60 0.4	BNH 67.18 47 eP 29 27.90 -1.7
eSg 58 43.50	BONR 45.62 81 eP 26 57.40 1.2	NB2 67.59 353 P 29 30.40 -1.6
SOI 0.89 67 P 58 38.00 0.3	FFC 45.65 53 eP 26 54.00 -1.8	0.7s 18.80nm 5.3mb
eSg 58 50.50	0.5s 8.00nm 4.9mb	MIM 67.67 45 eP 29 31.00 -1.7
S.D. = 0.5 on 4 of 4 obs.	46.01 284 Pc 27 00.00 1.0	UPP 68.16 350 iP 29 34.60 -0.9
OCT 23, 1991 23h 18m 37.09±0.19s	1.2s 60.00nm 5.4mb	BLA 68.23 57 eP 29 35.30 -1.1
51.246 N ±4.7km 178.376 E ±2.7km	Z 17s 0.60um 4.6MsZ	1.0s 10.00nm 4.9mb
DEPTH = 33.0km (normal)	pP 27 09.00 30kmX	HFS 68.29 352 eP 29 35.00 -1.3
5.1mb (84 obs.) 4.4MsZ (12 obs.)	SSE 46.21 80 eP 27 01.30 0.5	0.8s 18.10nm 5.2mb
RAT ISLANDS, ALEUTIAN ISLANDS (6)	46.22 267 Pd 27 01.00 0.4	Z 17s 0.22um 4.5MsZ
ML 5.2 (PMR). Felt (IV) on	1.0s 70.00nm 5.6mb	LR 54 06.00
Amchitka.	Z 20s 0.40um 4.4MsZ	SHL 68.37 284 iP 29 36.00 -1.6
CENTROID, MOMENT TENSOR (HRV)	sP 27 12.40	CVL 68.68 56 eP 29 37.80 -1.3
Data Used: GDSN	NJ2 47.04 270 Pc 27 06.50 -0.6	EMM 68.75 44 eP 29 37.60 -1.8
L.P.B.: 16S, 28C	1.2s 74.00nm 5.6mb	CHG 68.99 274 ePc 29 40.10 -1.2
Centroid Location:	BTO 47.10 285 P 27 08.50 0.9	1.0s 25.25nm 5.2mb
Origin Time 23:18:38.0 0.8	1.2s 80.00nm 5.6mb	OBN 69.35 338 iPc+ 29 42.00 -0.9
Lat 51.60N 0.11 Lon 178.28E 0.15	pP 27 19.00 36kmX	1.2s 1320.00nm 6.9mb X
Dep 15.0 FIX Half-duration 1.9	TII 47.39 280 Pc 27 10.70 0.8	ePcP 29 53.00
Moment Tensor; Scale 10**16 Nm	Z 20s 0.75um 4.7MsZ	e 30 15.00
Mrr=3.05 0.36 Mtt=-2.78 0.50	N 19s 0.78um	eS 39 24.00
Mff=-0.27 0.25 Mrt=-9.14 0.96	S 34 07.00	eSS 44 08.00
Mrf=2.09 0.82 Mtf=-0.46 0.47	CLC 47.40 83 eP 27 11.00 1.0	LR 54 30.00
Principal Axes:	SBB 47.99 84 eP 27 15.00 0.4	JSC 69.98 60 eP 29 46.00 -1.0
T Vol= 9.93 Plg=54 Azm=346	BW06 48.03 70 eP 27 14.00 -1.0	GUN 70.25 290 Pc 29 49.60 0.4
N -0.20 1 78	1.0s 27.50nm 5.2mb	KKN 70.69 290 Pc 29 52.00 0.2
P -9.74 36 168	MWC 48.14 85 eP 27 15.00 -1.0	PKI 70.78 290 Pc 29 52.40 -0.1
Best Double Couple:Mo=9.8*10**16	GSC 48.23 83 eP 27 17.00 0.5	DMN 70.93 290 Pc 29 53.40 0.1
NP1:Strike=263 Dip= 9 Slip= 96	MSU 49.05 77 eP 27 23.70 0.7	NNT 73.18 269 eP 30 06.70 0.2
NP2: 77 81 89	PLM 49.46 85 eP 27 26.50 0.3	DZM 73.75 192 iPc 30 11.20 1.6
SMY 3.03 301 eP 19 23.80 0.0	BAR 50.03 86 eP 27 31.00 0.7	EKA 73.78 1 P 30 09.00 -0.3
	WHN 50.89 272 Pc 27 35.70 -1.1	1.9s 54.10nm 5.2mb
	1.0s 47.00nm 5.4mb	NDI 74.66 297 iPc 30 14.00 -0.9
	pP 27 47.00 40kmX	0.8s 29.85nm 5.3mb
	GLA 50.94 84 eP 27 37.40 0.2	DCN 75.68 3 eP 30 19.60 -0.6
	XAN 51.94 279 P 27 43.50 -1.3	CTAO 76.42 211 iPd 30 25.00 0.2
	1.0s 15.00nm 4.9mb	1.0s 20.00nm 5.1mb
	pP 27 48.90 18kmX	i 30 36.50
		WTS 76.89 355 eP 30 28.00 1.0

23d 23h

CLL	1.0s	13.00nm	4.9mb	SMF	82.38	356 eP	30 56.40	-0.3	SDI	86.45	348 P	31 17.30	-0.1	
	77.07	351 iP	30 28.00	-0.1		1.0s	33.00nm	5.3mb	BHD	86.62	323 ePd	31 19.00	0.8	
KSP	1.6s	20.00nm	4.9mb	BEO	82.42	344 iP	30 58.30	1.4	MGR	87.76	347 P	31 23.70	0.0	
BRG	77.16	348 eP	30 27.80	-0.8	BGF	82.50	357 eP	30 57.00	-0.3	CZI	88.58	346 P	31 26.40	-1.2
	77.40	350 eP	30 29.80	-0.1		1.0s	14.00nm	5.0mb	BHL	89.09	330 P	31 29.00	-1.2	
KRA	1.1s	18.00nm	5.0mb	MFF	82.53	359 eP	30 57.30	-0.1	BWA	89.28	204 eP	31 31.90	1.1	
	77.42	346 ePd	30 30.80	0.8		0.9s	18.00nm	5.1mb	HRI	89.65	329 iPc	31 33.20	0.3	
	1.0s	37.00nm	5.4mb	HYB	82.59	288 iPc	30 58.30	0.1	JVI	91.01	329 eP	31 38.90	-0.2	
Z	18s	0.70um	5.0msz		1.0s	75.00nm	5.7mb	RMN	92.57	329 iPc	31 46.20	-0.2		
		e	30 34.40			e	31 09.90		SIV	121.35	76 PKP	37 29.00	0.6	
MAIO	77.69	314 eP	30 32.00	0.1	TMA	82.61	353 ePc	30 58.60	0.5	TIC	122.27	4 PKP	37 29.90	-0.3
MOX	77.86	351 ePc	30 32.70	0.2	MMK	82.73	353 ePc	31 00.40	1.6	KIC	122.56	4 PKP	37 30.30	-0.4
	1.3s	16.00nm	4.9mb	DIX	82.74	354 ePc	31 00.20	1.3	LIC	122.68	4 PKP	37 30.50	-0.5	
ENN		e	30 40.50		EMS	82.78	354 ePc	30 59.90	0.9	SOB1	127.16	52 (PKP)	37 40.00	0.3
	78.16	355 eP	30 29.00	-5.1X	TCF	82.79	357 eP	30 58.60	-0.2	PPD	131.86	72 (PKP)	37 48.00	-0.4
	1.0s	28.00nm	5.2mb			0.7s	4.40nm	4.7mb	BFT	144.88	305 iPKPc	38 13.00	0.6	
UCC	78.21	356 Pd	30 34.80	0.5	RIY	82.80	349 eP	30 59.10	0.3		1.0s	65.00nm		
PRU	78.21	349 eP	30 34.00	-0.4	MAF	82.85	357 eP	30 59.10	0.0	JOZ	145.21	300 iPKPd	38 11.60	-1.0
	1.0s	8.30nm	4.7mb			0.9s	9.85nm	4.9mb			1.0s	20.00nm		
SPC	78.21	346 eP	30 36.10	1.4	LSF	82.85	358 eP	30 58.80	-0.3	MAW	145.30	217 iPKPd	38 11.00	-0.4
MEM	78.32	355 iPd	30 35.44	0.5		0.7s	8.80nm	5.0mb			1.1s	30.00nm		
SNF	78.50	356 iP	30 35.75	-0.2	ORX	83.15	353 P	31 05.11	4.3X	AIA	145.80	138 ePKP	38 14.80	2.4
GRF	78.85	352 iPc	30 38.10	0.2	LPL	83.35	354 eP	31 02.50	0.5	SLR	145.82	307 iPKPc	38 14.50	0.6
	1.2s	22.00nm	5.0mb			0.9s	16.40nm	5.2mb			0.9s	84.03nm		
Z	22s	0.40um	4.7msz	LPG	83.37	354 eP	31 02.70	0.5	KSR	146.62	309 iPKPc	38 15.50	0.3	
DOU	78.90	356 Pd	30 39.00	0.9		1.0s	24.00nm	5.3mb			1.0s	40.00nm		
QUE	79.03	305 iPc	30 40.20	0.7	LSD	83.38	354 P	31 02.86	0.7	SEK	148.27	305 iPKPc	38 21.50	3.7X
	1.0s	87.00nm	5.7mb	RSP	83.68	354 P	31 03.99	0.5		0.7s	71.92nm			
KHC	79.16	350 P	30 39.50	-0.2	RJF	83.79	358 eP	31 03.80	-0.2	FRS	150.60	307 iPKPd	38 24.40	3.4X
	1.3s	18.10nm	4.9mb			1.1s	19.55nm	5.2mb			0.7s	54.79nm		
		e	30 41.00		Z	22s	0.17um	4.4msz	HVD	151.20	305 iPKPd	38 28.20	6.1X	
OIS	79.18	217 eP	30 38.20	-1.8	BNI	83.81	354 P	31 05.30	1.1		0.7s	17.12nm		
	0.7s	4.00nm	4.5mb	BOB	83.89	352 P	31 05.10	0.5	S.D. = 0.9 on 219 of 225 obs.					
GEC2	79.43	350 iPc	30 40.40	-0.8	PGB	83.93	341 iPd	31 06.00	1.2	% OCT 23, 1991 23h 24m 19.86± 1.02s				
	0.9s	4.99nm	4.5mb	RRL	83.94	354 P	31 05.83	0.8	37.7B6 N ± 9.7km 14.834 E ±12.4km					
		e	30 44.00	BHB	83.99	354 P	31 04.70	-0.3	DEPTH = 33.0km (normal)					
		epPd	30 53.80	VTS	84.08	342 iPd	31 07.00	1.4	SICILY (398)					
		e	33 40.30	CAF	84.16	357 eP	31 05.90	0.1	MNO	0.18	323 P	24 26.80	0.3	
ZST	79.64	347 eP	30 42.60	0.4		1.1s	28.10nm	5.3mb			eSg	24 31.10		
PPE	79.70	340 eP	30 43.50	1.0	LFF	84.17	358 eP	31 05.90	0.1	ATN	0.62	53 P	24 31.50	-0.7
SRO	79.85	346 iP	30 43.80	0.5		0.9s	19.65nm	5.3mb			eSg	24 39.60		
BUD	80.06	346 eP	30 46.70	2.2	PCP	84.19	353 P	31 05.93	-0.1	MEU	0.69	174 P	24 33.00	-0.2
VR1	80.22	340 iPd	30 46.00	0.6	ASPA	84.22	220 iPc	31 06.20	0.0			eSg	24 43.20	
FLN	80.37	359 eP	30 45.30	-0.8		0.9s	12.80nm	5.1mb	SOI	1.01	73 P	24 38.50	0.8	
	1.0s	26.00nm	5.2mb				i	31 17.70			eSg	24 52.00		
Z	22s	0.15um	4.3msz	MSL	84.30	325 eP	31 07.50	0.8	CZI	1.76	35 P	24 48.20	-0.2	
CDF	80.43	354 eP	30 45.90	-0.7	PZZ	84.33	354 P	31 06.24	-0.6	S.D. = 0.8 on 5 of 5 obs.				
	0.6s	5.40nm	4.7mb	MME	84.34	351 P	31 08.70	1.6	& OCT 23, 1991 23h 31m 06.05s					
LDF	80.53	359 eP	30 46.20	-0.8	LPO	84.42	358 eP	31 07.10	0.0	60.012 N 152.749 W				
	0.7s	9.90nm	4.9mb			0.8s	22.85nm	5.4mb	DEPTH = 105.7km					
WR2	80.71	221 iPc	30 47.50	-0.7	RSM	84.42	350 P	31 09.00	1.9	SOUTHERN ALASKA (2)				
	0.9s	8.20nm	4.7mb	BBTK	84.44	334 eP	31 09.00	1.6	<AEIC>					
		i	30 59.40	BDI	84.48	351 P	31 08.00	0.5	INE	0.16	287 ePd	31 20.38	0.7	
MLR	80.74	341 ePd	30 49.00	0.7	ROB	84.49	353 P	31 06.86	-0.7		eS	31 32.19		
GRR	80.74	359 eP	30 47.60	-0.5	SFI	84.50	350 P	31 08.70	1.2	INW	0.20	286 ePd	31 20.44	0.7
	0.8s	16.10nm	5.1mb	FIN	84.54	353 P	31 07.17	-0.6	RED	0.41	358 ePc	31 21.47	-0.7	
HAU	80.89	355 eP	30 48.30	-0.6	PGD	84.55	350 P	31 09.20	1.2	RED	0.41	358 eP	31 21.90	-0.3
	0.7s	5.50nm	4.7mb	STV	84.58	354 P	31 06.76	-1.3		eS	31 33.36			
Z	22s	0.15um	4.3msz	ENR	84.59	353 P	31 06.96	-1.1	RS1	0.45	359 ePc	31 21.99	-0.6	
SLE	80.99	353 ePc	30 49.50	0.1	KER	84.61	321 eP	31 07.00	-1.4		eS	31 34.21		
BSF	81.04	354 eP	30 49.00	-0.8	RZN	84.64	341 iPd	31 10.00	1.5	RSO	0.45	360 ePc	31 21.96	-0.6
	0.7s	6.60nm	4.7mb	HVAR	84.65	347 iP	31 07.80	-0.5		eS	31 34.01			
LPF	81.10	360 eP	30 49.70	-0.2	GPA	84.67	336 iP	31 09.30	0.8	RS2	0.45	359 ePc	31 21.98	-0.6
	0.9s	14.75nm	5.0mb	CRE	84.77	350 P	31 09.80	0.8	REF	0.48	3 iPc	31 22.10	-0.7	
WTTA	81.21	351 P	30 50.50	-0.3	ARV	84.79	349 P	31 09.90	0.9		eS	31 34.44		
	1.2s	62.50nm	5.5mb	KKB	84.80	342 iPd	31 11.00	1.9	RDN	0.50	359 iPc	31 22.18	-0.7	
KBA	81.21	350 Pc	30 51.20	0.4	IZI	84.83	337 eP	31 10.80	1.4		eS	31 34.32		
	1.1s	71.20nm	5.6mb	IMI	84.87	353 P	31 09.32	-0.1	RDT	0.59	17 iPc	31 22.56	-0.9	
ZLA	81.28	353 ePc	30 51.60	0.6	MMB	84.94	341 iPd	31 11.00	1.2		eS	31 35.78		
TAB	81.65	324 e(P)	30 54.00	0.8	SBF	84.95	353 eP	31 09.70	-0.2	HOM	0.66	122 eP	31 23.69	-0.2
RMO	81.68	207 iPd	30 54.50	1.4		0.9s	34.40nm	5.5mb			eS	31 37.29		
		i	31 06.00	SKO	85.01	343 eP	31 10.00	-0.1	AUL	0.72	209 eP	31 23.98	-0.4	
LOR	81.75	356 eP	30 53.10	-0.3		1.1s	63.00nm	5.7mb		AUE	0.73	206 eP	31 23.64	-0.8
	0.9s	9.00nm	4.8mb	FRF	85.30	354 eP	31 11.40	-0.1	NNL	0.73	87 ePc	31 24.83	0.3	
Z	22s	0.15um	4.3msz		0.9s	24.55nm	5.4mb		AUP	0.74	208 eP	31 23.92	-0.7	
LLS	81.84	353 ePc	30 54.90	0.8	LRG	85.43	354 eP	31 12.20	0.1		eS	31 37.99		
OSS	81.92	352 ePd	30 55.70	1.2		0.8s	17.45nm	5.3mb		AUI	0.76	207 eP	31 23.87	-0.9
SSF	81.97	356 eP	30 54.40	-0.1		20s	0.15um	4.4msz	PDB	0.76	253 iPd	31 23.97	-0.8	
	0.9s	11.45nm	4.9mb	VAY	85.43	342 eP	31 13.00	0.8		iS	31 37.73			
LBF	82.03	356 eP	30 54.40	-0.5	LMR	85.54	354 eP	31 12.80	0.1	XLV	0.76	137 iPd	31 23.93	-0.9
	0.9s	9.00nm	4.8mb			1.1s	29.30nm	5.4mb						
PTJ	82.05	348 eP	30 55.40	0.3	MNS	85.92	349 P	31 14.20	-0.5					
ZAG	82.13	348 eP	30 56.50	1.2	EPF	86.09	359 eP	31 14.70	-0.8					
VDL	82.18													

CNPM 0 91 122 iPd 31 25.64 -0.6
 eS 31 40.81
 BRK 0.97 104 ePd 31 26.53 -0.4
 eS 31 41.73
 NKA 1.05 45 iPc 31 28.78 1.1
 MCNL 1.16 225 ePd 31 27.82 -1.1
 eS 31 44.31
 CDD 1.18 203 ePc 31 28.12 -1.1
 CKL 1.21 10 iPc 31 28.90 -0.7
 eS 31 47.82
 SPU 1.22 16 iPc 31 28.93 -0.8
 BGL 1.27 8 ePc 31 29.74 -0.6
 CRP 1.29 13 ePc 31 30.05 -0.6
 CGLM 1.35 15 iPc 31 30.63 -0.6
 eS 31 49.42
 SLKM 1.35 67 eP 31 30.00 -1.3
 eS 31 48.49
 SYI 1.42 172 ePd 31 30.93 -1.0
 NCG 1.43 12 eP 31 31.66 -0.6
 SEW 1.66 85 eP 31 33.77 -1.1
 SUA 1.76 33 iPc 31 35.75 -0.6
 eS 31 58.91
 SVW 1.80 309 ePc 31 35.41 -1.3
 PMS 2.00 50 iPc 31 38.33 -1.1
 SKT 2.06 16 ePc 31 38.93 -1.3
 PWA 2.16 39 eP 31 40.68 -0.8
 LTI 2.46 87 eP 31 43.78 -1.6
 KNIM 2.53 80 eP 31 43.46 -2.9
 KNK 2.54 54 ePc 31 44.22 -2.2
 MTU 2.56 88 ePc 31 45.30 -1.5
 GHO 2.57 45 eP 31 44.98 -2.0
 CUT 2.68 25 eP 31 47.11 -1.3
 SML 2.81 48 ePc 31 47.91 -2.3
 GLI 2.93 70 eP 31 49.83 -2.0
 FID 3.20 74 eP 31 51.88 -3.5
 SCM 3.22 53 eP 31 53.69 -2.0
 CVA 3.53 78 eP 31 57.95 -1.8
 KLU 3.67 63 iPc 31 59.06 -2.8

49 obs. associated

OCT 23, 1991 23h 59m 44.20±0.17s
 51.250 N ± 4.1km 178.348 E ± 2.3km
 DEPTH = 33.0km (normal)
 5.4mb (88 obs.) 5.0Msz (21 obs.)

RAT ISLANDS, ALEUTIAN ISLANDS (6)

Felt (IV) on Amchitka.

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 22S, 44C

Centroid Location:

Origin Time 23:59:45.7 0.7

Lot 51.61N 0.10 Lon 178.23E 0.12

Dep 15.0 FIX Half-duration 2.6

Moment Tensor: Scale 10¹⁷ Nm

Mrr= 0.89 0.12 Mtt=-1.01 0.17

Mff= 0.12 0.08 Mrt= 2.63 0.27

Mrf= 1.39 0.19 Mtf=-0.34 0.11

Principal Axes:

T Vol= 3.06 Plg=54 Azm=327

N 0.16 5 63

P -3.22 36 157

Best Double Couple: Mo=3.1*10¹⁷

NP1: Strike=271 Dip=10 Slip= 118

NP2: 62 81 85

SMY 3.01 301 ePc 00 30.67 0.0
 ADK 3.16 76 eP 00 33.88 1.1
 SDN 13.28 64 eP 02 51.42 -1.3
 ANM 15.83 26 e(P) 03 25.46 -0.4
 SVW 17.41 45 eP 03 48.05 2.2
 PDB 17.63 50 eP 03 49.80 1.3
 TTA 18.04 40 eP 03 55.17 1.5
 KDC 18.04 58 eP 03 52.40 -1.2
 RSO 18.51 49 eP 04 00.07 0.4
 SLKM 19.73 50 P 04 12.40 -1.3
 IMA 20.51 33 P 04 22.00 0.1
 PMR 20.52 47 P 04 21.30 -0.5
 1.0s 45.00nm 4.8mb
 RND 21.19 42 P 04 27.20 -1.6
 KLU 21.99 48 P 04 36.70 -0.2
 FBA 22.16 39 P 04 37.30 -1.1
 1.0s 50.00nm 4.9mb
 BRW 23.06 20 P 04 47.50 0.4
 BALM 23.63 50 P 04 53.10 0.2
 INK 28.60 35 ePc 05 37.90 -1.0
 1.1s 61.00nm 5.2mb
 NIIJ 31.07 259 P 06 01.20 0.1

CHJJ 31.84 257 P 06 08.20 0.2
 MAT 32.00 258 eP 06 09.00 -0.4
 eS 11 27.00
 MTMJ 32.22 259 P 06 11.70 0.3
 MDJ 32.82 278 ePc 06 15.00 -1.4
 1.0s 40.00nm 5.3mb
 Z 22s 2.90um 4.9Msz
 N 28s 7.10um
 E 28s 9.70um
 PP 07 29.00
 IIDJ 32.87 257 P 06 17.10 0.1
 MBC 34.40 22 ePc 06 29.50 -0.2
 1.0s 66.00nm 5.5mb
 CN2 35.81 279 P 06 40.80 -1.3
 1.2s 53.00nm 5.3mb
 Z 20s 7.42um 5.4Msz
 N 15s 0.85um
 E 15s 0.91um
 pP 06 52.00 40kmX
 PP 08 06.00
 PcP 09 06.00
 S 12 18.00
 YKA 36.61 46 eP 06 47.90 -0.7
 1.0s 17.50nm 4.9mb
 MHA 37.01 137 P 06 54.90 2.5
 GMW 37.60 72 P 06 57.60 0.4
 SHNJ 37.97 262 eP 06 59.60 -0.8
 SNY 38.03 278 iPc 07 00.00 -0.7
 1.4s 210.00nm 5.8mb
 Z 20s 2.31um 5.0Msz
 N 12s 0.72um
 E 14s 0.63um
 pP 07 10.00 34kmX
 PNT 38.65 68 eP 07 07.00 1.1
 0.6s 15.00nm 5.0mb
 KUMJ 39.21 260 eP 07 11.10 0.3
 NEW 40.60 68 eP 07 20.80 -1.3
 0.7s 26.80nm 5.1mb
 LBFM 41.39 80 P 07 29.50 0.6
 ORV 42.68 82 P 07 39.90 0.7
 SES 43.01 62 eP 07 41.00 -0.9
 BJI 43.64 280 P 07 47.50 0.5
 1.5s 88.00nm 5.3mb
 Z 21s 1.83um 5.0Msz
 E 14s 1.57um
 ePP 09 28.00
 eS 14 14.00
 ARN 44.00 84 P 07 49.80 -0.2
 CMB 44.29 83 P 07 53.80 1.4
 LRM 44.60 69 eP 07 54.40 -0.6
 KVN 45.09 80 eP 07 59.31 0.3
 HPI 45.39 71 eP 08 00.79 -0.7
 TIA 45.40 275 P 08 01.00 -0.2
 1.2s 110.00nm 5.6mb
 N 17s 3.00um
 BONR 45.63 81 eP 08 04.15 0.7
 PHAM 45.65 85 eP 08 03.23 0.0
 FFC 45.66 53 iPd 08 03.80 0.8
 0.6s 8.00nm 4.8mb
 HHC 45.99 284 P 08 06.00 0.0
 1.2s 160.00nm 5.8mb
 Z 18s 1.21um 4.9Msz
 N 17s 1.81um
 E 15s 1.08um
 sP 08 14.50
 PP 09 52.00
 S 14 44.00
 SSE 46.20 267 Pd 08 08.00 0.4
 1.2s 200.00nm 5.9mb
 Z 20s 1.10um 4.8Msz
 N 14s 0.50um
 pP 08 19.00 38kmX
 S 14 52.00
 TNP 46.23 80 eP 08 08.14 0.2
 BCH 46.27 85 eP 08 08.89 0.7
 GUMO 46.27 228 eP 08 12.00 3.8X
 eS 14 59.00
 HVU 46.71 73 eP 08 11.75 0.1
 ABL 47.02 85 eP 08 15.06 0.7
 NJ2 47.02 270 P 08 13.20 -0.8
 1.4s 260.00nm 6.0mb
 Z 16s 0.88um 4.8MszX
 pP 08 24.00 37kmX
 sP 08 29.50
 BTO 47.08 285 iPd 08 15.00 0.4
 1.4s 31.00nm 5.1mb
 Z 18s 1.27um 4.9Msz

E 16s 1.79um
 pP 08 26.00 38kmX
 PP 10 07.50
 S 15 06.50
 TIY 47.37 280 iPc 08 17.40 0.5
 1.1s 70.00nm 5.6mb
 Z 24s 2.50um 5.1MszX
 N 25s 3.60um
 E 25s 1.90um
 PP 10 10.00
 S 15 12.00
 DUG 47.64 75 eP 08 19.26 0.2
 BW06 48.04 70 eP 08 21.00 -1.3
 1.2s 22.83nm 5.1mb
 SSK 48.40 85 eP 08 25.25 0.2
 DAU 48.45 74 eP 08 25.30 -0.2
 PEC 48.94 85 eP 08 29.42 0.4
 MSU 49.07 77 eP 08 30.51 0.3
 PLM 49.48 85 eP 08 33.50 0.1
 RSSD 50.45 66 P 08 41.00 0.3
 1.2s 12.39nm 4.8mb
 WHN 50.87 272 iPc 08 43.00 -0.8
 1.5s 190.00nm 5.8mb
 Z 22s 0.65um 4.6Msz
 E 12s 0.46um
 GLA 50.95 84 eP 08 44.77 0.3
 DAG 51.79 5 eP 08 48.00 -2.1
 XAN 51.92 279 P 08 50.00 -1.8
 1.2s 40.00nm 5.3mb
 N 16s 0.99um
 E 16s 1.44um
 pP 08 59.20 31kmX
 sP 09 04.00
 QZH 52.15 263 P 08 53.50 0.0
 1.2s 170.00nm 5.9mb
 GOL 52.42 71 eP 08 56.00 0.3
 0.8s 10.42nm 4.8mb
 LZH 53.69 284 iPc 09 05.00 0.0
 1.5s 280.00nm 6.1mb
 Z 20s 1.78um 5.1Msz
 N 15s 1.38um
 E 15s 1.30um
 pP 09 16.00 37kmX
 PcP 10 10.00
 PP 11 07.00
 eS 16 36.00
 sS 16 52.00
 ScS 18 50.00
 GTA 53.94 290 iPc 09 06.40 -0.4
 1.0s 140.00nm 5.9mb
 Z 16s 3.54um 5.5MszX
 E 15s 2.85um
 sP 09 15.20
 PP 11 05.80
 ScP 14 07.00
 S 16 40.00
 sS 16 53.00
 ScS 18 52.10
 ANMO 54.87 76 eP 09 13.40 -0.3
 1.7s 183.17nm 5.8mb
 ALO 54.87 76 ePc 09 13.30 -0.5
 1.5s 36.81nm 5.2mb
 Z 20s 1.13um 4.9Msz
 GZH 56.78 266 P 09 27.00 -0.4
 CD2 57.24 280 P 09 29.40 -1.2
 1.2s 150.00nm 5.9mb
 Z 22s 0.58um 4.6Msz
 E 18s 1.08um
 S 17 16.00
 KEV 57.51 349 eP 09 47.00 15.1X
 WMO 57.89 301 iPc 09 34.60 -0.5
 1.3s 110.00nm 5.8mb
 Z 21s 5.72um 5.7Msz
 N 19s 3.09um
 sP 09 46.30
 PcP 10 26.00
 PP 11 42.00
 ScP 14 20.00
 S 17 24.50
 ScS 19 22.00
 GYA 58.55 274 iPc 09 38.60 -1.3
 1.4s 140.00nm 5.9mb
 S 17 40.00
 MEO 59.72 71 iPd 09 47.50 -0.4
 SOD 59.80 348 iP 09 47.20 -0.7
 SIO 60.40 69 eP 09 51.30 -1.2
 TUL 60.59 68 ePd 09 50.90 -2.8

24d 00h

	1.2s	37.10nm	5.4mb	SPC	78.21	346	eP	11	43.40	1.7		1.2s	26.80nm	5.2mb						
		LR	32	22.00	MEM	78.31	355	iPd	11	42.80	0.8	MFF	82.52	359	eP	12	04.40	-0.1		
VVO	61.02	69	eP	09	55.70	-0.9	SNF	78.49	356	Pc	11	44.40	1.4		1.1s	29.30nm	5.3mb			
KMI	61.96	276	Pc	10	02.00	-1.4	GRF	78.84	352	iPc	11	46.10	1.1	VBY	82.52	348	eP	12	04.40	-0.1
	1.5s	150.00nm	5.9mb					e	11	46.50		HYB	82.57	288	iPc	12	05.20	0.0		
Z	20s	1.00um	5.0msz	DOU	78.89	356	Pc	11	45.80	0.6		1.0s	135.00nm	6.0mb						
OLY	63.38	66	eP	10	10.10	-2.3		1.0s	27.70nm	5.2mb			e	12	13.50					
ELC	63.39	63	eP	10	10.70	-1.7			S	21	40.00		TMA	82.60	353	ePd	12	05.10	-0.1	
KAF	64.82	346	iP	10	19.90	-1.5	QUE	79.01	305	iPc	11	47.20	0.7	MMK	82.73	353	ePd	12	06.60	0.7
	0.6s	15.80nm	5.3mb					eS	21	52.90		DIX	82.74	354	ePd	12	06.70	0.7		
PWLA	65.69	64	eP	10	27.00	-0.4	BMR	79.12	343	ePd	11	48.00	1.5	EMS	82.78	354	ePd	12	06.50	0.4
LSA	65.79	288	P	10	28.80	0.2	KHC	79.15	350	eP	11	47.00	0.2	TCF	82.79	357	eP	12	05.80	-0.1
NUR	66.60	346	iP	10	31.60	-1.2		1.4s	36.70nm	5.2mb		1.2s	16.35nm	5.0mb						
	0.8s	24.90nm	5.4mb				Z	22s	0.80um	5.0msz		RIY	82.79	349	eP	12	06.20	0.3		
		i	10	42.00			N	20s	0.40um			MAF	82.84	357	eP	12	06.30	0.1		
BNH	67.19	47	eP	10	34.50	-2.3	E	20s	0.50um			1.2s	25.30nm	5.2mb						
NB2	67.59	353	P	10	37.40	-1.7			e	11	49.00		LSF	82.84	358	eP	12	06.00	-0.2	
	1.2s	81.90nm	5.7mb	OIS	79.17	217	eP	11	45.20	-1.9		1.2s	23.80nm	5.2mb						
TKL	67.59	61	eP	10	38.00	-1.4		1.2s	9.00nm	4.6mb		PLDF	83.06	356	P	12	07.00	-0.4		
UPP	68.15	350	iP	10	41.50	-1.0	WET	79.22	350	iPd	11	48.30	1.2	ORX	83.14	353	P	12	09.00	1.1
HFS	68.28	352	eP	10	41.40	-2.0		1.5s	50.00nm	5.3mb		ORO	83.15	353	P	12	08.70	0.8		
	0.9s	34.40nm	5.4mb	WLF	79.24	355	iPc	11	47.01	-0.1		PYM	83.30	357	P	12	09.50	0.9		
Z	17s	0.90um	5.1msz	GEC2	79.42	350	iPKPc	11	47.40	-0.9		LPL	83.34	354	eP	12	09.70	0.6		
		LR	34	54.00				1.2s	16.11nm	4.9mb			1.0s	21.00nm	5.2mb					
CVL	68.69	56	eP	10	46.00	-0.3	PSZ	79.49	345	iPc	11	50.00	1.3	LPG	83.36	354	eP	12	09.80	0.6
EMM	68.76	44	eP	10	44.70	-1.8	ZST	79.64	347	eP	11	50.00	0.7		1.1s	40.30nm	5.5mb			
CHG	68.97	274	ePc	10	47.10	-1.2	SRO	79.84	346	iP	11	51.40	1.0	LSD	83.37	354	P	12	09.30	0.0
	1.1s	53.80nm	5.5mb					1.2s	0.40nm	3.3mb	X		RSP	83.67	354	P	12	10.94	0.3	
KONO	69.08	354	eP	10	49.00	0.7	BUD	80.05	346	eP	11	51.90	0.4	RJF	83.79	358	eP	12	11.10	0.1
CBN	69.09	55	eP	10	56.00	7.4X	VR1	80.21	340	ePc	11	52.50	0.1		1.3s	43.30nm	5.4mb			
JSC	69.99	60	eP	10	53.00	-1.2	FUR	80.35	351	iPc	11	53.50	0.4	Z	22s	0.65um	5.0msz			
BDT	70.11	273	iPc	10	54.00	-1.1	FLN	80.36	359	eP	11	52.50	-0.6	LBL	83.81	357	P	12	12.40	1.2
	1.0s	34.50nm	5.4mb					1.2s	47.60nm	5.4mb		BOB	83.88	352	P	12	11.80	0.2		
GUN	70.23	290	P	10	56.40	0.2		Z	22s	0.57um	4.9msz	RRL	83.93	354	P	12	11.97	-0.1		
NST	70.58	271	eP	11	05.00	6.9X	CDF	80.42	354	eP	11	53.10	-0.5	BHB	83.98	354	P	12	10.64	-1.4
KKN	70.67	290	P	10	58.80	0.0		1.2s	29.75nm	5.2mb		VTS	84.07	342	iPd	12	13.00	0.3		
PKI	70.76	290	P	10	59.20	-0.3	LDF	80.53	359	eP	11	53.40	-0.6	DIM	84.11	340	iPd	12	14.00	1.3
DMN	70.91	290	P	11	00.30	0.0		1.2s	26.80nm	5.1mb		CAF	84.15	357	eP	12	13.10	0.2		
PMO	72.25	146	iP	11	21.30	13.4X	BHG	80.62	350	eP	11	56.00	1.4		1.3s	61.35nm	5.6mb			
	1.0s	25.00nm					WB2	80.70	221	eP	11	54.60	-0.7	LFF	84.17	358	eP	12	13.00	0.1
TPT	72.33	145	iP	11	21.70	13.3X		0.7s	5.90nm	4.7mb			1.2s	68.45nm	5.7mb					
	1.0s	45.00nm					GRR	80.74	359	eP	11	54.80	-0.3	PCP	84.18	353	P	12	11.76	-1.4
VAH	72.56	146	iP	11	23.00	13.3X		1.1s	31.75nm	5.2mb		ASPA	84.21	220	iPc	12	13.10	-0.2		
	1.0s	30.00nm					HAU	80.89	355	eP	11	55.60	-0.4		1.0s	11.90nm	5.0mb			
RUV	72.60	145	iP	11	23.40	13.4X		1.2s	23.80nm	5.1mb		Z	25s	0.40um	4.7msz					
	1.0s	35.00nm						Z	21s	0.82um	5.1msz			i	12	25.10				
NNT	73.17	269	eP	11	13.00	-0.5	TNR	80.91	342	ePd	11	57.00	0.8	MSL	84.29	325	iPd	12	14.50	0.8
DZM	73.75	191	iPc	11	19.50	2.8	SLE	80.98	353	ePd	11	56.10	-0.4			ePcP	12	24.00		
EKA	73.78	1	Pc	11	15.70	-0.7	UZD	80.99	346	ePc	11	57.70	1.2			eS	22	36.50		
	1.2s	18.20nm	4.9mb				BSF	81.03	354	eP	11	56.40	-0.5	PZZ	84.33	354	P	12	13.30	-0.6
NDI	74.65	297	iPc	11	22.00	0.1		1.4s	34.85nm	5.2mb		MME	84.34	351	P	12	16.00	1.9		
	1.2s	140.63nm	5.8mb	LPF	81.10	360	eP	11	57.00	0.0		LPO	84.42	358	eP	12	14.20	0.0		
DCN	75.67	3	eP	11	27.00	-0.3		1.2s	41.65nm	5.3mb			1.1s	61.05nm	5.7mb					
WIT	76.07	355	eP	11	31.00	1.4	WTTA	81.20	351	Pc	11	57.80	-0.1	BBTK	84.43	334	iPc	12	16.50	2.0
CTAO	76.42	211	iPc	11	22.80	-9.1X		1.4s	89.00nm	5.6mb		ROB	84.48	353	P	12	13.30	-1.3		
	1.1s	17.40nm	5.0mb					pP	12	08.90	36kmX	KDZ	84.52	340	iPd	12	16.00	1.2		
SNG	76.76	265	eP	11	34.00	0.0	KBA	81.21	350	Pc	11	59.30	1.4	FIN	84.54	353	P	12	13.10	-1.8
WTS	76.88	355	eP	11	34.50	0.4		1.3s	125.00nm	5.8mb		STV	84.57	354	P	12	13.61	-1.5		
	1.0s	13.00nm	4.9mb	ZLA	81.27	353	ePd	11	58.10	0.0		ENR	84.58	353	P	12	13.81	-1.3		
CLL	77.06	351	iPd	11	34.60	-0.6	BZS	81.44	344	eP	11	57.00	-1.9	KER	84.60	321	eP	12	15.00	-0.5
	1.9s	58.00nm	5.3mb	TAB	81.63	324	iPd	12	02.00	1.8		RZN	84.63	340	iPd	12	16.00	0.4		
KSP	77.15	348	iPd	11	35.50	-0.2	FVI	81.75	350	P	12	01.30	0.9	YLV	84.63	337	iP	12	15.70	0.2
		e	14	25.00			LOR	81.75	356	eP	12	00.20	-0.3	HVAR	84.65	347	iP	12	15.20	-0.2
BRG	77.39	350	iPd	11	36.70	-0.3		1.4s	41.40nm	5.3mb		GPA	84.66	336	iP	12	15.90	0.4		
	1.2s	32.00nm	5.2mb				Z	20s	0.88um	5.1msz		CRE	84.77	350	P	12	17.00	0.9		
		e	11	49.50			LLS	81.83	353	ePd	12	01.50	0.3	IZI	84.82	337	eP	12	17.40	1.0
KRA	77.41	346	iPd	11	38.00	0.9	OSS	81.92	352	ePd	12	02.00	0.4	IMI	84.86	353	P	12	15.15	-1.4
	1.2s	66.00nm	5.5mb	SSF	81.97	356	eP	12	01.40	-0.2		SBF	84.94	353	eP	12	16.80	-0.1		
Z	18s	1.50um	5.4msz					1.4s	37.05nm	5.2mb			1.2s	101.15nm	5.9mb					
		e	11	40.60			LBF	82.03	356	eP	12	01.40	-0.6	SKO	85.00	343	iP	12	17.80	0.6
MAIO	77.68	314	iPc	11	39.20	0.3		1.0s	13.00nm	4.9mb			1.5s	158.00nm	6.0mb					
		e	14	31.00			PTJ	82.04	348	eP	12	02.00	-0.1	Z	15s	0.82um	5.2msz			
MOX	77.86	351	eP	11	39.60	0.0	LJU	82.09	349	e(P)	12	02.50	0.2	N	17s	0.98um				
	1.4s	32.00nm	5.2mb				ZAG	82.12	348	eP	12	03.50	1.1	E	15s	0.58um				
		e	11	47.00			SSR	82.15	343	ePd	12	03.00	0.4			eSKS	22	40.00		
		e(Sg)	41	55.00			VDL	82.17	352	ePd	12	03.20	0.2			ePS	23	48.00		
BNS	77.89	354	iPd	11	40.70	1.0	VOY	82.17	349	e(P)	12	03.10	0.3			eSS	28	38.00		
ENN	78.16	355	eP	11	41.00	-0.2	AVF	82.25	357	eP	12	02.80	-0.2			eSS	32	21.00		
	1.0s	42.00nm	5.4mb					1.1s	35.40nm	5.3mb				LR	58	36.00				
PRU	78.20	349	Pd	11	42.00	0.5	KVT	82.34	332	eP	12	05.00	1.3	ALN	85.10	339	ePd	12	18.53	0.9
	1.2s	12.60nm	4.8mb	SMF	82.37	356	eP	12	03.60	-0.1		ASS	85.24	350	P	12	19.20	0.8		
Z	21s	1.00um	5.1msz					1.1s	47.60nm	5.5mb		FRF	85.30	354	eP					

Z	21s	0.65um	5.0msz	37.782 N ± 6.5km 15.042 E ± 6.8km				DEPTH = 10.0km (geophysicist)				SPAIN = 10.0km (geophysicist)												
KNT	85.51	342	ePc	12 20.02	0.3	SICILY (398)				mbLg 2.8 (MDD).														
LMR	85.53	354	eP	12 19.80	0.0																			
1.4s 95.85nm 5.8mb																								
DST	85.72	337	iP	12 21.10	0.2	MNO	0.31	298	P	27 45.60	0.8	EMON	0.31	304	iP	43 12.00	-0.1							
AQU	85.86	349	P	12 22.50	1.0																			
ALT	85.87	336	eP	12 15.80	-5.9X	ATN	0.50	41	P	27 49.50	1.0	ERUA	0.88	188	iPgd	43 16.00	-6.5X							
MNS	85.91	349	P	12 21.60	-0.2																			
OHR	85.95	343	eP	12 18.00	-4.0X	MEU	0.69	188	P	27 51.70	-0.2	STS	1.22	252	iPn	43 29.00	0.8							
OUR	86.08	341	eP	12 22.02	-0.6																			
PGF	86.12	352	eP	12 22.50	-0.4	SOI	0.85	70	P	27 55.50	0.9	EZAM	1.69	229	iPn	43 34.00	-1.2							
1.1s 90.35nm 5.9mb																								
AZI	86.22	349	P	12 23.50	0.3	MCT	1.13	263	P	28 01.00	1.5X	MTE	2.89	189	eP	43 53.00	0.5							
DUI	86.41	348	P	12 25.20	0.9	CZI	1.67	31	P	28 06.80	-0.8	S.D. = 1.6 on 4 of 5 obs.												
SHI	86.41	315	eP	12 24.00	-0.6																			
SDI	86.45	348	P	12 24.40	-0.1	ACI	1.81	30	P	28 09.40	-0.3	% OCT 24, 1991 01h 51m 40.84±1.07s												
RMP	86.48	349	P	12 25.20	0.7	ROI	2.15	33	P	28 14.40	-0.3	38.016 N ± 7.3km 14.720 E ± 12.1km												
RDP	86.53	349	P	12 25.20	0.3																			
BHD	86.60	323	iPd	12 26.00	0.8	CSI	2.22	26	P	28 16.20	0.6	DEPTH = 10.0km (geophysicist)												
iPP 15 48.50												SICILY (398)												
iS 22 52.00																								
eScS 23 02.00																								
MGR	87.76	347	P	12 30.30	-0.4	MMN	2.23	19	P	28 16.20	0.4	MNO	0.09	193	P	51 43.40	-0.2							
CSI	88.00	346	P	12 31.60	-0.4	MGR	2.39	9	P	28 16.60	-1.4													
ROI	88.16	346	P	12 32.80	0.0																			
BHL	89.08	330	P	12 37.00	-0.3	SGO	2.78	4	P	28 24.00	0.4	ATN	0.60	76	P	51 53.10	0.1							
BWA	89.28	204	eP	12 39.40	1.6	BRT	3.52	28	P	28 33.00	-1.0	MEU	0.93	170	P	51 58.80	0.2							
e 12 51.00								S.D. = 0.9 on 12 of 13 obs.																
HRI	89.64	329	iPc	12 45.10	5.2X	? OCT 24, 1991 00h 35m 38.43±0.99s																		
CAN	89.98	204	eP	12 42.00	0.9	37.752 N ± 8.5km 15.025 E ± 8.4km																		
e 12 53.70								DEPTH = 10.0km (geophysicist)																
JVI	91.00	329	iPc	12 51.00	4.8X	SICILY (398)																		
PRNI	92.57	329	iPc	12 58.40	5.0X	MNO	0.32	304	P	35 45.30	0.2	% OCT 24, 1991 02h 13m 41.00±0.93s												
SIV	121.36	76	PKP	18 36.40	0.9																			
KIC	122.56	4	PKP	18 38.80	0.9	ATN	0.53	40	P	35 48.50	-0.8	37.750 N ± 8.2km 15.040 E ± 8.3km												
PPD	131.88	72	(PKP)	18 56.00	0.4																			
BFT	144.87	305	iPKPd	19 19.50	0.1	MEU	0.65	187	P	35 51.30	-0.2	DEPTH = 10.0km (geophysicist)												
1.0s 100.00nm												SICILY (398)												
JOZ	145.20	300	iPKPd	19 18.50	-1.2	SOI	0.88	68	P	35 56.00	0.8	MNO	0.33	304	P	13 48.30	0.4							
1.6s 100.00nm								S.D. = 1.1 on 4 of 4 obs.																
MAW	145.29	217	ePKP	19 18.00	-0.5	& OCT 24, 1991 00h 43m 39.70s																		
1.3s 88.00nm								49.510 N 117.610 W																
SLR	145.81	307	iPKPc	19 20.00	-0.9	DEPTH = 7.0km (geophysicist)																		
1.0s 165.00nm								BRITISH COLUMBIA, CANADA (23)																
AIA	145.82	138	e(PKP)	19 34.00	14.5X																			
BLF	149.63	306	iPKPc	19 31.00	4.1X																			
FRS	150.59	307	iPKPc	19 32.80	4.7X																			
1.0s 130.00nm																								
HVD	151.19	305	iPKPd	19 35.70	6.5X																			
0.7s 27.40nm																								
S.D. = 0.9 on 261 of 279 obs.																								
? OCT 24, 1991 00h 03m 17.26±2.24s																								
37.388 N ± 28.8km 74.715 E ± 16.0km																								
DEPTH = 33.0km (normol)																								
5.2mb (1 obs.)																								
TAJIKISTAN-XINJIANG BORDER REG. (719)																								
NDI	8.93	166	ePn	05 27.00	0.0	RTCB	0.58	76	iPd	55 32.00	-0.8	LKO	27.07	76	P	23 45.92	-0.4							
eSn 05 59.50								ZON	0.67	83	iPd	55 34.00	0.7	LIC	27.19	84	P	23 47.60	0.1					
KKN	13 06	134	P	06 22.60	-0.7									Z	22s	0.36um	3.9msz							
DMN	13.10	135	P	06 23.40	-0.5	RTLL	0.90	71	iP	55 34.20	-0.8	KIC	27.49	83	P	23 50.30	0.1							
PKI	13.30	134	P	06 26.40	-0.2	CFA	1.04	89	iPc	55 36.40	0.1	GRF	58.73	31	iPc	28 03.40	1.6							
GUN	13.32	132	P	06 28.20	1.3									1.6s 13.00nm 4.8mb										
HYB	20.18	169	eP	07 52.00	0.1	JACH	1.42	222	iPc	55 40.50	0.3	Z	18s	0.20um	4.3msz									
POF	83.92	226	iPd	15 45.00	-0.1									e 36 28.00										
1.0s 19.00nm 5.2mb								RTRS	1.46	360	iPc	55 41.00	0.6	PTJ	59.31	37	eP	28 06.10	0.1					
S.D. = 0.8 on 7 of 7 obs.								PEL	1.83	214	iP	55 45.00	0.3	MOX	59.50	31	e(P)	28 08.00	0.8					
% OCT 24, 1991 00h 27m 15.75±0.92s																GEC2	59.57	33	ePc	28 05.60	-2.2			
37.780 N ± 9.0km 14.896 E ± 11.7km																1.1s 33.51nm 4.4mb								
DEPTH = 33.0km (normol)																e 28 15.80								
SICILY (398)																KHC				59.66	33	P	28 08.00	-0.3
MNO	0.22	314	P	27 22.80	0.0	SAN	2.08	209	iP	55 48.00	0.3	PRU	60.66	33	eP	28 15.00	0.0							
ATN	0.59	50	P	27 26.80	-0.8	PCH	2.17	204	iPd	55 49.50	0.6	BRG	60.84	32	e(P)	28 16.20	0.0							
																ZST	61.14	35	eP	28 18.40	0.0			
MEU	0.68	178	P	27 28.90	-0.1	TACH	2.37	211	iPd	55 51.50	0.2	SRO	61.66	36	eP	28 21.70	-0.2							
																SPC	63.44	36	eP	28 34.80	0.8			
SOI	0.96	72	P	27 33.50	0.6	CHCH	2.51	203	iPd	55 54.00	1.0	KRA	63.68	35	ePd	28 36.00	0.8							
																e 28 45.60								
CZI	1.73	34	P	27 46.10	2.1X	LCCH	2.56	224	iP	55 53.00	-0.7	NB2	65.89	22	P	28 48.60	-0.9							
MGR	2.41	12	P	27 54.00	0.3	LNV	2.84	215	iPd	55 55.90	-1.3	ALQ	74.99	305	eP	29 46.30	0.8							
S.D. = 0.7 on 5 of 6 obs.								S.D. = 0.8 on 14 of 14 obs.								1.2s 4.69nm 4.4mb								
% OCT 24, 1991 01h 43m 05.55±3.60s								? OCT 24, 1991 01h 43m 05.55±3.60s								SES				80.06	320	eP	30 12.00	-1.0
43.264 N ± 17.6km 6.973 W ± 28.6km								43.264 N ± 17.6km 6.973 W ± 28.6km								S.D. = 0.9 on 17 of 17 obs.				% OCT 24, 1991 02h 30m 37.51±0.95s				
																				16.046 N ± 9.1km 61.228 W ± 11.4km				

24d 02h

DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)
ML 2.5 (FDF).

MGG	0.15	214	ePd	30	44.98	1.3
			S	30	53.00	
SFG	0.21	8	ePd	30	45.00	0.8
			S	30	53.50	
DEG	0.31	31	iPc	30	44.83	-0.6
			S	30	52.60	
DOG	0.38	268	ePc	30	46.51	0.2
PAG	0.44	268	eP	30	47.00	-0.2
			S	30	56.70	
SEG	0.44	323	eP	30	46.88	-0.4
			S	30	55.80	
BBL	0.57	205	ePd	30	48.12	-1.1
			S	30	58.80	

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

% OCT 24, 1991 02h 47m 49.52 ± 0.58s
40.658 N ± 4.6km 22.934 E ± 5.1km
DEPTH = 10.0km (geophysicist)

GREECE (364)
MD 1.8 (THE).

THE	0.03	137	ePgc	47	51.08	-0.5
			eSg	47	51.96	
SOH	0.36	63	ePg	47	56.80	-0.1
GRG	0.50	307	ePg	48	00.04	0.3
			eSg	48	06.52	
KNT	0.50	357	ePgc	47	59.70	0.0
			eSg	48	06.32	
LIT	0.65	212	ePg	48	02.16	-0.4
			eSg	48	11.40	
SRS	0.68	47	ePg	48	02.80	-0.2
			eSg	48	12.20	
OUR	0.86	112	ePg	48	06.24	0.1
			eSg	48	17.94	
PAIG	0.93	142	ePg	48	07.92	0.7
			eSg	48	19.76	

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

? OCT 24, 1991 03h 54m 26.39 ± 4.47s
10.860 N ± 17.2km 62.280 W ± 36.8km
DEPTH = 57.5 ± 39.1 km

NEAR COAST OF VENEZUELA (97)
MD 2.8 (TRN).

TCE	0.54	107	eP	54	38.74	0.0
			eS	54	49.60	
TRN	0.89	104	eP	54	42.80	-0.2
			eS	54	56.22	
TPP	0.98	123	eP	54	44.41	0.2
			eS	54	58.64	
TBH	1.25	107	eP	54	47.62	-0.3
			eS	55	05.61	
GRW	1.43	25	eP	54	50.39	0.0
			eS	55	09.52	
PIG	1.44	78	eP	54	51.14	0.6
			eS	55	11.21	
TPR	1.51	77	eP	54	51.23	-0.3
			eS	55	11.45	

S.D. = 0.4 on 7 of 7 obs.

% OCT 24, 1991 04h 17m 09.57 ± 0.76s
37.754 N ± 6.5km 15.041 E ± 7.1km
DEPTH = 10.0km (geophysicist)

SICILY (398)

MNO	0.33	303	Pc	17	16.60	0.2
			eSg	17	22.20	
ATN	0.53	39	P	17	20.50	0.3
			eSg	17	29.50	
MEU	0.66	188	P	17	22.70	0.0
			eSg	17	32.60	
SOI	0.86	68	P	17	26.50	0.3
			eSg	17	39.50	
CZI	1.70	30	P	17	38.00	-1.3
			eSg	18	02.20	
ACI	1.84	29	P	17	42.80	1.4
ROI	2.17	33	P	17	45.50	-0.8
CSI	2.24	25	P	17	46.80	-0.5
			eSg	18	16.40	
MMN	2.26	19	P	17	48.40	0.9
			eSg	18	16.40	
MGR	2.41	9	P	17	49.00	-0.7
SGO	2.81	4	P	17	55.50	0.2

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

? OCT 24, 1991 04h 59m 06.28 ± 1.01s
37.735 N ± 8.7km 14.986 E ± 8.9km
DEPTH = 10.0km (geophysicist)

SICILY (398)

MNO	0.30	310	P	59	12.90	0.2
			eSg	59	17.70	
ATN	0.57	41	P	59	16.90	-0.9
			eSg	59	26.80	
MEU	0.63	184	P	59	18.90	-0.2
			eSg	59	29.00	
SOI	0.91	68	P	59	24.50	0.8

S.D. = 1.3 on 4 of 4 obs.

? OCT 24, 1991 05h 19m 51.68 ± 5.66s
34.334 S ± 28.9km 70.199 W ± 28.7km
DEPTH = 10.0km (geophysicist)

CHILE-ARGENTINA BORDER REGION (127)

CHCH	0.55	317	iPc	20	02.90	0.1
			iS	20	09.00	
PCH	0.76	340	iPc	20	06.60	0.0
			iS	20	16.50	
TACH	0.92	318	iPc	20	09.00	-0.2
			iS	20	20.50	
SAN	0.96	336	iPc	20	09.50	-0.5
			iS	20	21.50	
LNK	1.07	290	iPc	20	12.00	0.1
			iS	20	25.90	
PEL	1.25	341	iPc	20	15.50	0.5
			iS	20	31.50	
LCCH	1.43	307	iP	20	17.50	-0.1
			iS	20	35.00	
ROCH	1.52	333	iP	20	20.50	1.4X
			iS	20	39.20	

S.D. = 0.4 on 7 of 8 obs.

* OCT 24, 1991 05h 39m 31.21 ± 1.87s
5.653 S ± 16.2km 128.636 E ± 20.7km
DEPTH = 341.9 ± 22.4 km
4.9mb (7 obs.)

BANDA SEA (280)

KUPT	6.69	228	iPc	41	19.00	8.6X
			iS	42	34.00	
MTN	7.56	161	iPd	41	20.30	-0.4
			0.3s	239.00nm	5.8mb X	
KNA	10.03	179	iPd	41	50.90	0.4
			0.5s	76.00nm	5.3mb	
WB2	15.25	159	iPc	42	50.80	-0.8
			0.5s	52.90nm	5.1mb	
MBL	17.62	208	eP	43	16.40	0.2
QIS	18.25	145	eP	43	22.80	0.2
			0.3s	4.00nm	4.2mb	
ASPA	18.61	165	iPd	43	27.10	0.8
			0.3s	28.70nm	5.1mb	
CHG	38.04	310	eP	46	40.10	1.4
GUN	53.05	311	P	48	17.20	0.2
			0.6s	31.00nm	4.8mb	
PKI	53.23	311	P	48	17.80	-0.4
KKN	53.44	311	P	48	19.60	0.0
			0.6s	14.00nm	4.5mb	
DMN	53.47	310	P	48	20.00	0.1
GKN	54.03	311	P	48	24.00	0.2
			0.4s	17.00nm	4.7mb	
HYB	54.51	296	eP	48	25.50	-1.7

S.D. = 0.9 on 13 of 14 obs.

? OCT 24, 1991 06h 29m 56.55 ± 1.82s
8.063 S ± 27.2km 119.618 E ± 14.8km
DEPTH = 159.0 ± 28.7 km
4.5mb (3 obs.)

FLORES REGION, INDONESIA (286)

KHKI	3.98	265	eP	30	57.30	-0.1
			e	33	37.10	
KNA	11.76	131	eP	32	39.60	-0.9
			eS	34	41.00	
MTN	12.28	114	iPd	32	40.10	0.9
			0.4s	67.00nm	5.5mb X	

MBL	13.02	179	eS	34	54.00	
			eP	32	57.50	0.7
WB2	18.52	131	iPc	34	02.30	-1.3
			0.4s	7.80nm	4.4mb	
ASPA	20.69	140	eP	34	25.50	-0.3
			0.4s	12.30nm	4.7mb	
QIS	22.97	125	iPc	34	49.20	1.1
			0.4s	6.00nm	4.4mb	

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

OCT 24, 1991 08h 46m 55.91 ± 1.28s
34.173 N ± 10.3km 139.150 E ± 7.3km
DEPTH = 16.1 ± 5.9 km
4.6mb (7 obs.)

NEAR S. COAST OF HONSHU, JAPAN (230)

IIDJ	1.65	322	iP+	47	24.60	0.2
			S	47	45.50	
CHJJ	1.88	356	iP+	47	27.50	-0.1
KAKJ	2.19	22	iPd	47	31.20	-1.0
MAT	2.49	342	iPc	47	36.50	0.2
			eS	48	12.00	
MTMJ	2.65	336	P	47	39.30	0.6
TSRJ	2.94	298	P	47	42.00	-0.7
			S	48	18.00	
WKYJ	2.95	272	P	47	42.30	-0.7
			S	48	16.10	
NIJ	3.06	358	P	47	45.10	0.6
YAMJ	4.06	10	P	47	58.60	0.0
TKSJ	4.24	269	P	48	01.60	0.3
			S	48	49.70	
SHK	5.37	276	iP	48	16.40	-0.8
			1.0s	200.00nm	5.7mb X	
BJI	19.22	294	P	51	23.00	1.3
WHN	21.25	267	Pd	51	44.50	1.1
			1.0s	34.00nm	4.7mb	
E	10s		0.38um			
			eS	55	40.00	
XAN	24.99	278	P	52	20.10	-0.2
LZH	28.85	284	eP	52	56.50	0.8
			1.5s	20.00nm	4.7mb	
Z	15s		0.48um		4.2mszX	
E	11s		0.31um			
			pP	53	04.00	26kmX
CD2	29.92	274	P	53	05.20	-0.2
			1.0s	19.00nm	4.9mb	
Z	12s		0.46um		4.3mszX	
E	15s		0.53um			
WMO	40.56	299	P	54	36.00	-0.1
			1.5s	16.00nm	4.5mb	
GUN	45.64	277	P	55	18.00	0.1
PKI	46.16	277	P	55	22.00	0.1
KKN	46.18	277	P	55	21.80	-0.2
DMN	46.39	277	P	55	23.40	-0.3
GKN	46.63	278	P	55	25.60	0.1
NB2	76.09	337	P	58	43.00	-1.2
			1.1s	6.50nm	4.6mb	

1.0s 31.00nm 4.7mb
E 11s 0.45um
pP 59 51.00 24kmX
XAN 25.02 278 P 00 20.00 0.1
LZH 28.87 284 eP 00 53.50 -1.9
1.8s 25.00nm 4.7mb
Z 15s 0.53um 4.3mszX
E 11s 0.35um
GYA 29.00 264 P 00 56.60 0.0
1.0s 12.00nm 4.6mb
Z 12s 0.76um 4.5mszX
WMO 40.60 300 P 02 37.40 1.6
1.4s 15.00nm 4.5mb
GUN 45.67 277 P 03 00.00 -17.5X
WB2 53.96 186 eP 04 20.30 -0.2
0.8s 2.30nm 4.3mb
INK 57.80 26 eP 04 48.00 0.4
MBC 59.82 16 eP 05 01.50 -0.1
NB2 76.14 337 P 06 43.00 -0.8
1.0s 5.40nm 4.6mb
LRM 77.51 43 eP 06 52.80 0.9
GEC2 84.19 327 ePKP 07 26.50 -0.5
0.9s 1.57nm 4.2mb
ZOBO 149.71 61 ePKP 14 47.00 4.9X
S.D. = 1.0 on 19 of 21 obs.

? OCT 24, 1991 09h 36m 55.00±11.76s
4.530 N ±75.5km 77.253 W ±91.8km
DEPTH = 90.0km (geophysicist)
NEAR WEST COAST OF COLOMBIA (102)
MD 2.9 (UVC).

CLMC 0.94 133 iPd 37 14.39 -0.1
eS 37 30.20
ANCC 1.08 159 eP 37 16.10 0.1
eS 37 33.10
HOBC 1.13 99 ePd 37 16.59 0.0
eS 37 34.00
BUGC 1.18 122 eP 37 17.42 0.2
eS 37 35.40
HOOC 1.22 150 eP 37 17.77 -0.2
S.D. = 0.2 on 5 of 5 obs.

? OCT 24, 1991 10h 26m 23.61±3.77s
34.670 S ±37.3km 70.966 W ±17.5km
DEPTH = 100.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)

CHCH 0.78 20 iPd 26 42.00 -0.1
iS 26 57.00
LNV 0.80 333 iPd 26 42.20 0.0
iS 26 57.00
TACH 1.01 1 iPd 26 44.50 0.0
iS 27 02.00
PCH 1.11 20 iPd 26 45.50 -0.2
iS 27 04.00
SAN 1.24 12 eP 26 47.50 0.4
iS 27 06.00
LCCH 1.29 337 iPd 26 47.60 -0.1
iS 27 07.80
PEL 1.54 9 iPd 26 51.00 0.2
iS 27 13.00
ROCH 1.69 359 iPd 26 53.00 0.1
iS 27 16.40
JACH 2.01 9 iPd 26 56.50 -0.4
S.D. = 0.3 on 9 of 9 obs.

? OCT 24, 1991 10h 36m 27.35±1.02s
40.188 N ±10.0km 29.209 E ±9.2km
DEPTH = 5.0km (geophysicist)
TURKEY (366)

IZI 0.25 54 iPg 36 32.50 0.0
iSg 36 37.00
YLV 0.40 18 iPg 36 35.30 -0.1
eSg 36 40.30
KCT 0.66 276 ePn 36 40.50 0.0
DST 0.73 218 ePn 36 42.00 0.0
S.D. = 0.1 on 4 of 4 obs.

& OCT 24, 1991 10h 40m 29.41s
63.146 N 150.404 W
DEPTH = 111.8km
CENTRAL ALASKA (1)
<AEIC>.

TRF 0.31 10 iPd 40 45.75 1.6

HUR 0.39 115 iPd 40 45.62 -0.4
eS 40 45.62
eS 40 45.62
CUT 0.75 175 iPd 40 48.32 -0.2
RND 0.75 69 iPd 40 48.30 -0.4
S 41 02.66
MCK 0.88 48 iPd 40 49.62 -0.3
eS 41 04.46
eS 41 04.46
BWN 1.11 22 eP 40 52.50 0.3
SKT 1.28 205 iPd 40 53.49 -0.7
eS 41 11.93
PWA 1.52 171 eP 40 57.05 0.1
GHO 1.54 153 ePd 40 57.19 -0.1
eS 41 18.75
NEA 1.55 22 iPd 40 56.57 -0.8
SML 1.65 143 ePd 40 58.14 -0.5
eS 41 20.91
PLRM 1.67 159 eP 40 58.10 -0.6
PMR 1.67 159 ePn 40 57.94 -0.8
eS 41 19.43
WRH 1.68 37 iPd 40 58.31 -0.6
SUA 1.70 186 ePd 40 59.14 -0.1
S 41 22.14
CCB 1.89 36 ePd 41 00.90 -0.7
NCG 1.93 206 iPd 41 01.53 -0.7
eS 41 26.68
SCM 1.94 131 iPd 41 01.79 -0.5
PMS 1.95 168 eP 41 01.84 -0.5
KNK 1.96 152 ePd 41 01.97 -0.5
eS 41 26.77
HDA 1.99 49 ePd 41 02.11 -0.7
CGLM 1.99 203 ePd 41 02.18 -0.8
MDM 2.06 27 iPd 41 03.01 -0.7
CRP 2.06 204 eP 41 03.29 -0.6
FBA 2.10 32 ePn 41 03.34 -0.9
BGL 2.11 207 eP 41 04.14 -0.3
SPU 2.12 202 ePd 41 03.86 -0.7
DDM 2.14 70 eP 41 05.55 0.7
CKL 2.16 206 eP 41 04.78 -0.3
TOA 2.22 116 eP 41 05.63 -0.2
PAX 2.25 92 ePd 41 06.09 -0.3
GLM 2.27 34 iPd 41 05.92 -0.7
SDG 2.32 103 ePd 41 06.76 -0.3
TZL 2.56 113 eP 41 09.90 -0.3
TTA 2.56 268 eP 41 09.14 -1.3
SLKM 2.65 178 eP 41 10.85 -0.7
KLU 2.67 126 ePd 41 10.41 -1.4
RDT 2.75 201 eP 41 12.93 0.0
GLI 2.76 144 eP 41 11.52 -1.4
VZW 2.77 137 eP 41 11.60 -1.5
VLZ 2.78 135 eP 41 11.30 -1.9
RDN 2.87 204 eP 41 15.01 0.5
REF 2.88 203 eP 41 14.53 -0.2
RS2 2.92 204 eP 41 15.21 0.0
RSO 2.92 204 eP 41 15.07 -0.2
RS1 2.92 204 eP 41 15.42 0.2
RED 2.96 203 eP 41 15.72 0.0
FID 3.04 141 eP 41 14.78 -1.9
KNIM 3.08 154 eP 41 14.96 -2.3
SEW 3.09 171 eP 41 16.01 -1.3
IMA 3.26 336 P 41 14.30 -5.4
IMA 3.26 336 eP 41 17.71 -2.0
BRLK 3.40 184 ePd 41 20.68 -0.9
GLB 3.52 116 ePd 41 22.02 -1.3
CNPM 3.66 187 ePd 41 24.16 -0.9
PDB 3.83 210 eP 41 27.55 0.2
HMT 4.06 131 eP 41 28.07 -2.5
CROM 4.18 122 eP 41 30.79 -1.6
TGL 4.31 120 eP 41 31.88 -2.1
BALM 4.34 116 eP 41 32.49 -2.0
CDD 4.51 202 eP 41 36.13 -0.6
SYI 4.65 193 eP 41 37.24 -1.4
CTGM 4.80 113 eP 41 39.10 -1.6
63 obs. associated

? OCT 24, 1991 10h 42m 26.64±1.01s
44.323 N ±10.4km 7.524 E ±6.3km
DEPTH = 5.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.4 (GEN).

ENR 0.12 218 P 42 29.33 0.1
S 42 31.43
STV 0.16 241 P 42 30.00 -0.1
S 42 32.61
ROB 0.25 96 P 42 31.74 0.0
S 42 35.59

PZZ 0.35 301 P 42 33.79 0.0
S 42 38.87
S.D. = 0.1 on 4 of 4 obs.

& OCT 24, 1991 11h 03m 26.79s
64.741 N 152.727 W
DEPTH = 11.6km
CENTRAL ALASKA (1)
<AEIC>. ML 3.1 (AEIC).

IMA 1.39 344 ePn 03 51.69 -0.4
ePg 03 53.42
eS 04 11.43
BWN 1.53 111 eP 03 53.28 -0.6
S 04 15.03
NEA 1.58 94 eP 03 54.47 -0.2
S 04 14.57
TRF 1.68 139 eP 03 55.30 -1.0
eS 04 19.28
MDM 1.93 81 eP 03 57.89 -2.0
S 04 25.58
MCK 1.94 120 eP 04 00.96 1.0
S 04 24.74
WRH 2.02 96 eP 04 00.14 -0.9
S 04 28.50
FBA 2.12 83 ePn 04 00.22 -2.2
eLg 04 05.78
CCB 2.12 90 eP 04 00.57 -1.9
S 04 31.44
RND 2.17 126 eP 04 02.29 -1.0
S 04 31.82
HUR 2.24 141 eP 04 03.77 -0.5
eS 04 34.89
GLM 2.29 81 eP 04 03.08 -2.0
S 04 31.72
TTA 2.33 220 ePn 04 03.49 -2.1
ePg 04 08.13
eS 04 40.96
HDA 2.51 95 eP 04 06.88 -1.3
CUT 2.59 154 eP 04 08.82 -0.4
S 04 43.03
SKT 2.82 168 eP 04 11.52 -1.1
eS 04 48.56
DJE 3.14 100 eP 04 19.56 2.5
PWA 3.36 156 eP 04 19.49 -0.6
NCG 3.36 175 eP 04 18.90 -1.4
SUA 3.41 164 eP 04 19.80 -1.2
GHO 3.44 148 eP 04 20.13 -1.2
eS 05 03.92
CGLM 3.46 174 iP 04 20.36 -1.3
BGL 3.49 177 eP 04 21.25 -0.9
CRP 3.50 175 eP 04 21.24 -1.0
PLRM 3.56 151 eP 04 21.85 -1.0
PMR 3.56 151 ePn 04 21.36 -1.5
eS 05 11.74
CKL 3.56 177 eP 04 22.00 -1.1
SPU 3.59 175 iP 04 22.46 -1.0
FYU 3.60 56 eP 04 23.32 -0.3
PAX 3.67 116 eP 04 23.32 -1.4
PMS 3.79 156 eP 04 25.64 -0.7
KNK 3.86 148 eP 04 26.48 -0.9
SVW 3.88 201 eP 04 26.57 -1.0
SDG 3.90 121 eP 04 26.88 -0.9
TOA 3.96 129 eP 04 26.84 -1.8
SLKM 4.40 164 eP 04 34.53 -0.5
KLU 4.49 133 eP 04 35.68 -0.6
VLZ 4.65 138 eP 04 37.08 -1.4
GLI 4.66 144 eP 04 38.30 -0.3
PDB 5.02 189 eP 04 41.00 -2.7
RAGM 5.74 136 eP 04 52.58 -1.3
BALM 6.03 123 P 04 57.50 -0.5
INK 8.44 56 P 05 28.00 -3.7
43 obs. associated

? OCT 24, 1991 11h 18m 21.55±1.26s
1.914 N ±17.6km 75.513 W ±25.8km
DEPTH = 33.0km (normal)
COLOMBIA (103)
MD 3.0 (UVC).

PURC 0.94 296 ePd 18 38.74 -0.1
eS 18 50.20
DIAC 1.53 333 eP 18 46.62 -0.4
eS 19 03.90
HOOC 1.91 324 eP 18 53.13 0.5
ZOBO 19.49 158 P 22 49.60 0.0
SIV 22.81 142 P 23 14.70 -8.1X

24d 11h

S.D. = 0.7 on 4 of 5 obs.

? OCT 24, 1991 11h 38m 20.94 ± 1.76s
 50.443 N ± 8.9km 6.154 E ± 15.6km
 DEPTH = 10.0km (geophysicist)

GERMANY (543)
 MD 2.3 (UCC).

MEM	0.19	331	iPc	38	25.24	0.1
WLF	0.78	180	iPd	38	36.04	0.0
			iS	38	46.16	
DOU	1.06	251	iP	38	41.20	0.3
SNF	1.20	274	iP	38	42.90	-0.3
			iS	38	56.23	

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

% OCT 24, 1991 11h 43m 39.55 ± 0.83s
 37.750 N ± 8.0km 15.055 E ± 6.6km
 DEPTH = 10.0km (geophysicist)

SICILY (398)

MNO	0.34	303	P	43	47.00	0.4
			eSg	43	51.60	
ATN	0.52	38	P	43	51.00	0.9
			eSg	44	00.70	
MEU	0.66	189	P	43	52.50	-0.2
			eSg	44	03.00	
GIB	0.85	287	P	43	56.20	0.2
			eSg	44	08.70	
SOI	0.85	68	P	43	57.00	1.0
			eSg	44	11.00	
CZI	1.69	30	P	44	08.30	-1.0
			eSg	44	30.20	
ROI	2.17	33	P	44	14.90	-1.4

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

% OCT 24, 1991 12h 01m 59.27 ± 2.17s
 37.837 N ± 28.4km 14.977 E ± 7.1km
 DEPTH = 10.0km (geophysicist)

SICILY (398)

MNO	0.24	293	P	02	05.50	0.9
			eSg	02	09.90	
ATN	0.50	50	P	02	09.90	0.4
			eSg	02	18.50	
GIB	0.77	282	P	02	13.60	-0.7
			eSg	02	24.40	
SOI	0.88	74	P	02	16.50	0.3
			eSg	02	29.50	
CZI	1.65	33	P	02	27.40	-1.0
			eSg	02	49.40	

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

* OCT 24, 1991 12h 06m 12.96 ± 1.92s
 23.022 N ± 12.4km 121.417 E ± 15.5km
 DEPTH = 10.0km (geophysicist)
 4.2mb (1 obs.)

TAIWAN (244)

TWF1	0.35	341	iPd	06	20.50	0.4
			eS	06	25.30	
TWG	0.38	238	iPc	06	20.90	0.2
			eS	06	27.30	
TWK	0.89	286	iPd	06	29.70	-0.4
			eS	06	42.40	
TWC	1.63	14	eP	06	41.70	0.0
SSE	8.04	359	eP	08	12.40	-0.2
Z	14s		0.40um			
			eS	09	27.50	
LZH	20.04	314	eP	10	54.00	4.8X
	1.5s		20.00nm			4.2mb
Z	14s		0.40um			3.9mszX
E	12s		0.24um			

S.D. = 0.4 on 5 of 6 obs.

& OCT 24, 1991 12h 27m 58.00s
 49.510 N 117.610 W
 DEPTH = 7.0km (geophysicist)
 BRITISH COLUMBIA, CANADA (23)
 <PGC>. ML 1.7 (PGC). Felt in the
 Slocon Valley.

PNT 1.32 262 P 28 22.80 0.0
 1 obs. associated

% OCT 24, 1991 12h 30m 36.99 ± 1.14s
 37.239 N ± 12.2km 29.403 E ± 6.2km

DEPTH = 10.0km (geophysicist)
 TURKEY (366)

YER	0.90	264	iPn	30	54.10	-0.2
			iSg	31	08.60	
BCK	0.97	76	iPn	30	55.50	0.0
KHL	1.09	5	ePn	30	57.20	-0.3
CIN	1.11	289	eP	30	58.00	0.2
ALT	1.90	17	ePn	31	10.00	0.2
Izm	2.05	305	ePn	31	12.00	0.0

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

% OCT 24, 1991 12h 43m 32.32 ± 2.08s
 39.603 N ± 13.3km 23.700 E ± 16.4km
 DEPTH = 10.0km (geophysicist)

AEGEAN SEA (365)

MD 2.2 (THE).

PAIG	0.32	357	ePgc	43	38.98	-0.1
			eSg	43	43.96	
OUR	0.76	16	ePgc	43	47.10	-0.1
			eSg	43	58.80	
LIT	1.06	298	ePg	43	52.52	0.3
			eSg	44	06.24	
AGG	1.21	242	ePb	43	54.72	-0.2
			eSb	44	11.28	
SOH	1.25	348	ePb	43	54.80	-0.7
			eSb	44	13.30	
SRS	1.51	357	ePb	44	08.20	0.7
			eSb	44	19.48	

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

& OCT 24, 1991 12h 55m 13.04s
 43.398 N 128.094 W

DEPTH = 11.3km

OFF COAST OF OREGON (30)

<SEA>.

KMOR	3.98	54	P	56	08.14	-7.2
NLO	4.26	49	P	56	13.13	-6.2
GT2	4.54	65	Pd	56	16.52	-6.7
PGO	4.54	61	P	56	16.71	-6.5
BMW	4.63	47	P	56	17.70	-6.8
RVW	4.70	52	P	56	18.88	-6.6
VLMM	4.83	62	Pd	56	20.54	-7.0
LVP	4.85	55	Pc	56	21.09	-6.7
TDH	4.90	65	P	56	21.68	-6.8
MTMW	4.95	56	Pd	56	22.44	-6.6

FL2	4.95	54	P	56	23.00	-6.2
CZM	5.00	51	P	56	23.10	-6.6
CPW	5.01	43	P	56	23.17	-6.7
ERK	5.02	53	P	56	23.33	-6.7
SHW	5.02	54	P	56	23.88	-6.2
VLL	5.04	64	P	56	23.62	-6.7
HSR	5.04	55	P	56	24.20	-6.3
JLK	5.04	55	P	56	23.97	-6.5
ESD	5.07	54	P	56	24.24	-6.6
CDFW	5.09	56	Pc	56	24.32	-6.7
SOSW	5.10	54	P	56	24.74	-6.5
VFP	5.13	66	P	56	24.88	-6.8
APM	5.14	61	P	56	25.10	-6.7
LMW	5.25	50	P	56	27.06	-6.4
GULW	5.28	59	P	56	27.16	-6.6
ASR	5.38	57	P	56	28.48	-6.8
GHW	5.49	46	P	56	30.48	-6.2
LON	5.57	51	P	56	31.69	-6.2
GLK	5.58	53	P	56	31.70	-6.4
REMR	5.59	50	Pc	56	31.93	-6.4
RVC	5.59	49	P	56	31.91	-6.3
VGB	5.65	65	P	56	31.88	-7.1
WPW	5.69	52	Pc	56	33.11	-6.5

FMW	5.75	50	Pc	56	34.14	-6.4
GL2	5.78	61	Pc	56	33.53	-7.3
GSM	5.85	47	Pc	56	35.58	-6.2
RMW	6.01	45	P	56	37.89	-6.1
JBO	6.26	68	P	56	40.03	-7.6
EBG	6.37	54	P	56	42.97	-6.2
MXC	6.38	57	P	56	42.06	-7.2

			S	57	16.27	
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			S	57	36.68	
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			S	57	38.68	
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			S	57	38.68	
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			S	57	38.68	
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			S	57	38.68	
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			S	57	38.68	
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			S	57	38.68	
--	--	--	---	----	-------	--

			S	57	38.68	
--	--	--	---	----	-------	--

			S	57	38.68	
--	--	--	---	----	-------	--

			S	57	38.68	
--	--	--	---	----	-------	--

			S	57	38.68	
--	--	--	---	----	-------	--

			S	57	38.68	
--	--	--	---	----	-------	--

			S	57	38.68	
--	--	--	---	----	-------	--

			S	57	38.68	
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			S	57	38.68	
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			S	57	38.68	
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			S	57	38.68	
--	--	--	---	----	-------	--

			S	57	38.68	
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TACH	0.29	12	iPd	06	51.40	-0.2
			iS	07	01.00	
CHCH	0.30	89	iPc	06	51.60	-0.1
LNv	0.33	267	iPd	06	52.00	0.2
			iS	07	00.50	
PCH	0.52	53	iPc	06	53.60	-0.2
			iS	07	04.00	
SAN	0.57	31	eP	06	54.50	0.3
			iS	07	05.20	
LCCH	0.66	315	iPc	06	55.00	-0.2
			iS	07	06.50	
PEL	0.84	19	iPd	06	57.80	0.3
			iS	07	11.20	
ROCH	0.96	0	iP	06	59.20	-0.1
			iS	07	14.00	
JACH	1.30	16	iPc	07	03.50	-0.2
			iS	07	21.00	

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

& OCT 24, 1991 13h 38m 57.70s
 49.510 N 117.610 W
 DEPTH = 7.0km (geophysicist)
 BRITISH COLUMBIA, CANADA (23)
 <PGC>. ML 1.5 (PGC). Felt in the
 Slocon Valley.

SLEB 1.69 349 P 39 29.30 1.3
 1 obs. associated

% OCT 24, 1991 14h 35m 03.11 ± 0.88s
 39.143 N ± 7.7km 27.682 E ± 8.9km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

IZM	0.81	204	ePg	35	18.80	-0.1
			eSg	35	30.80	
DST	0.87	58	iPn	35	20.00	0.2
KCT	1.22	25	ePn	35	26.00	0.2
BNT	1.23	9	ePn	35	25.40	-0.5
EZN	1.25	303	ePn	35	26.60	0.2

AUH	1.74	191	ePd	38	55.71	-0.2	MD 4.1 (UVC).				<AEIC>. ML 2.8 (AEIC).									
AGU	1.74	191	eP	38	55.76	-0.2														
AUI	1.76	191	ePd	38	55.52	-0.6	HOBC	0.78	154	iPc	00	22.01	0.0	IMA	1.63	354	eP	46	40.45	0.4
CUT	1.80	40	iPc	38	55.37	-1.0				eS	00	34.20					eS	47	03.17	
PLRM	1.83	72	iPc	38	55.40	-1.3	CLMC	1.17	184	eP	00	26.68	0.3	TRF	1.65	127	eP	46	40.06	-0.2
SEW	1.90	119	iPc	38	57.33	-0.1	BUGC	1.18	169	ePc	00	26.77	0.4				eS	47	02.77	
GHO	1.98	67	iPc	38	57.22	-1.2				eS	00	42.50		BWN	1.67	98	eP	46	41.08	0.7
MCNL	2.04	203	iPd	38	58.31	-0.6	ANCC	1.58	194	ePc	00	30.81	-0.4				eS	47	04.92	
KNK	2.12	79	iPc	38	58.94	-0.8				eS	00	49.60		NEA	1.80	84	eP	46	43.02	0.6
			eS	39	28.92		HOOC	1.59	186	eP	00	31.08	-0.4				eS	47	07.17	
CDD	2.18	192	ePd	38	59.80	-0.7	DIAC	1.78	171	ePd	00	33.07	-0.8	TTA	1.97	220	eP	46	44.63	-0.3
SML	2.26	69	ePc	39	00.34	-1.0	SALC	2.08	186	iPd	00	38.44	0.6				eS	47	12.27	
TTA	2.42	322	iPd	39	01.90	-1.3				eS	01	02.90		MCK	2.02	109	eP	46	44.87	-0.7
HUR	2.42	36	ePc	39	02.41	-0.7	PURC	2.72	178	eP	00	47.09	0.3				eS	47	14.01	
SYI	2.47	175	iPd	39	02.95	-0.7	S.D. = 0.6 on 8 of 8 obs.				HUR				2.18	131	eP	46	48.17	0.2
KNIM	2.58	104	iPc	39	04.00	-0.9					RND				2.20	117	eP	46	48.61	0.3
LTI	2.64	111	eP	39	04.00	-1.6	* OCT 24, 1991 15h 09m 26.83±0.81s				eS						eS	47	17.39	
TRF	2.66	25	ePc	39	05.12	-1.0	4.599 N ±14.4km 129.002 E ±13.7km				MDM				2.21	75	eP	46	45.60	-2.7
SCM	2.73	71	ePc	39	06.28	-0.4	DEPTH = 33.0km (normol)				eS						eS	47	17.02	
MTU	2.75	111	eP	39	05.21	-1.7	4.6mb (7 obs.)				WRH				2.23	87	eP	46	47.77	-0.8
GLI	2.77	91	iPc	39	06.36	-0.8	NORTH OF HALMAHERA, INDONESIA (264)				CCB				2.35	83	eP	46	51.91	1.6
RND	2.98	36	ePc	39	08.89	-0.8	GUMO	18.02	59	eP	13	36.00	-0.5				eS	47	20.81	
FID	3.09	93	ePc	39	10.13	-0.8	WB2	24.95	168	iPc	14	53.00	4.2X	FBA	2.38	77	eP	46	50.85	0.1
VLZ	3.13	86	iPc	39	11.53	0.2		1.2s	20.10nm			4.6mb					eS	47	23.36	
MCK	3.22	32	eP	39	12.00	-0.5	QIS	27.08	158	eP	15	15.90	7.3X	CUT	2.45	146	eP	46	52.93	1.2
TOA	3.32	69	iPc	39	14.93	1.1		0.9s	6.00nm			4.2mb					eS	47	21.91	
KDC	3.33	177	iPd	39	12.17	-1.6	ASPA	28.50	171	eP	15	22.50	1.1	GLM	2.56	75	eP	46	53.84	0.4
KLU	3.33	80	iPc	39	14.12	0.1		0.7s	6.60nm			4.4mb					eS	47	21.82	
BWN	3.47	25	eP	39	15.21	-0.4	Z	21s	0.10um			3.4Msz		SKT	2.60	162	eP	46	51.94	-2.0
CVA	3.48	95	ePc	39	15.60	0.0			eS	20	15.00					eS	47	23.66		
MID	3.60	114	eP	39	17.11	0.0	WARB	30.68	184	eP	15	40.10	-0.8	HDA	2.72	88	eP	46	54.60	-1.0
TZL	3.65	71	iPc	39	19.26	1.5	CHG	32.57	298	eP	15	56.00	-1.5				S	47	31.68	
SDG	3.73	64	ePc	39	20.07	1.2	CHTO	32.57	298	eP	15	56.00	-1.5	NCG	3.10	170	eP	46	58.69	-2.4
NEA	3.91	24	ePd	39	19.50	-1.6		1.1s	3.83nm			4.2mb					eS	47	35.02	
PAX	3.94	58	iPc	39	22.36	0.9	BJI	37.13	344	eP	16	52.00	15.8X	CGLM	3.21	169	eP	46	59.36	-3.2
RAGM	4.03	96	eP	39	22.86	0.2		1.0s	13.00nm					BGL	3.23	173	eP	47	00.67	-2.2
WRH	4.04	30	eP	39	21.71	-1.0	LZH	38.96	327	eP	17	01.20	9.3X	CRP	3.24	171	eP	47	00.89	-2.2
THY	4.04	51	eP	39	23.93	1.1		1.5s	20.00nm			4.7mb		CKL	3.30	172	eP	47	01.50	-2.4
DDM	4.22	47	eP	39	26.27	1.3	SHL	41.23	304	eP	17	11.00	0.3	GHO	3.33	142	eP	47	02.68	-1.6
HMT	4.25	96	ePc	39	25.66	0.3	GUN	47.08	304	P	18	00.10	2.0				eS	47	45.87	
CCB	4.25	30	eP	39	24.37	-1.0		0.7s	20.00nm			5.2mb		SPU	3.33	170	eP	47	02.06	-2.3
KAIM	4.29	102	eP	39	26.77	1.0	PKI	47.35	304	P	18	00.80	0.6	PMS	3.64	151	eP	47	08.08	-0.5
HDA	4.29	36	eP	39	25.22	-0.7	KKN	47.53	304	P	18	02.00	0.5				eS	47	52.12	
GLB	4.34	81	ePc	39	27.57	1.0	DMN	47.61	304	P	18	03.40	1.2	KNK	3.75	142	eP	47	09.28	-1.0
MDM	4.42	26	ePd	39	26.37	-1.2	GKN	48.14	304	P	18	07.00	0.8	TOA	3.97	123	eP	47	15.52	2.2
FBA	4.47	28	eP	39	27.46	-0.7	HYB	50.97	289	eP	18	25.70	-2.1	KLU	4.47	128	eP	47	19.08	-1.4
GLM	4.64	30	ePd	39	29.57	-0.8		1.0s	30.00nm			5.2mb		27 obs. associated						
CROM	4.71	90	ePc	39	32.82	1.4	OBN	87.64	325	eP	22	23.00	9.9X	OCT 24, 1991 16h 38m 42.99±0.66s						
DOT	4.81	54	eP	39	32.53	-0.1		1.0s	*****nm			8.3mb X		45.355 N ± 7.8km 21.256 E ±11.7km						
TGL	4.86	89	ePc	39	34.71	1.4	S.D. = 1.4 on 12 of 17 obs.				DEPTH = 33.0km (normol)									
SNH	4.97	96	ePc	39	35.85	1.2	% OCT 24, 1991 15h 22m 57.66±1.27s				ROMANIA (358)				MG 3.3 (BEO).					
IMA	5.04	356	iPd	39	34.46	-1.2	15.433 N ± 4.3km 60.676 W ±16.1km				BZS				0.36	44	iPc	38	59.00	7.4X
BALM	5.07	86	iPc	39	37.17	1.2	LEEWARD ISLANDS (92)				TIM				0.38	356	iPd	38	51.00	-0.8
TMW	5.11	59	ePc	39	37.16	0.8	ML 2.9 (FDF).				BEO				0.78	227	iPg	38	56.00	-1.5
CYK	5.17	96	eP	39	38.70	1.6	CRM	0.71	199	iPc	23	11.25	-0.2				iSg	39	07.00	
WRG	5.40	96	ePc	39	41.42	1.3				S	23	20.60		TNR	2.14	81	ePc	39	23.00	5.9X
YAH	5.46	93	ePc	39	42.58	1.4	BBL	0.78	277	eP	23	12.63	0.0	UZD	2.24	305	ePn	39	20.00	1.6
CTGM	5.56	86	ePc	39	43.95	1.5				S	23	21.50		CMP	2.67	91	eP	39	44.00	19.4X
PCA	6.24	93	ePc	39	52.37	1.2	MGG	0.78	308	eP	23	12.63	0.0	PSZ	2.73	340	ePnd	39	24.20	-1.3
BCPM	6.58	94	eP	39	56.86	1.3				S	23	21.50		VTS	3.10	152	iPc	39	31.00	0.1
YKU	6.65	97	eP	40	00.80	4.4	FDF	0.83	213	iPd	23	13.62	0.2				iS	40	24.00	
PNL	6.78	96	eP	39	59.84	1.7				S	23	24.50		SRO	3.19	322	iP	39	33.10	1.2
HON	7.10	97	eP	40	03.89	1.6	MVM	0.90	194	iPd	23	14.38	0.1	PGB	3.50	142	iPc	39	37.00	0.5
SIT	9.83	106	eP	40	42.85	4.9				S	23	25.00					eS	40	33.00	
INK	10.94	40	P	40	52.00	-0.2	DEG	0.95	337	eP	23	15.00	-0.1	BUC	3.57	104	eP	39	50.00	12.7X
MBC	19.00	24	eP	42	29.00	0.4				S	23	28.20		PVL	3.63	125	iP	39	50.00	11.9X
	0.6s		8.00nm		4.4mb		SFG	0.96	329	eP	23	15.50	0.4				eS	40	32.00	
	95 obs. associated						BIM	0.99	203	iPc	23	15.66	0.0	KKB	3.73	159	iP	39	40.00	0.3
									S	23	28.30		RZN	4.45	144	iP	39	50.00	0.0	
% OCT 24, 1991 14h 46m 22.57±1.35s													S.D. = 1.2 on 9 of 14 obs.							
41.117 N ±21.5km 28.462 E ±15.8km																				
DEPTH = 10.0km (geophysicist)																				
TURKEY (366)																				
CTT	0.04	321	iPg	46	23.90	-0.8	DOG	1.09	303	eP	23	17.05	0.0	OCT 24, 1991 16h 39m 10.94±0.45s						
ISK	0.45	96	ePg	46	31.40	-0.4	PAG	1.13	302	eP	23	17.60	-0.2	39.159 N ± 3.9km 29.514 E ± 4.5km						
DMK	0.88	323	iPg																	

24d 16h

GPA 1.28 28 iPh 39 35.80 1.0
 KCT 1.41 321 ePh 39 36.30 -0.3
 YLV 1.41 356 iPh 39 36.80 0.1
 HRT 1.67 4 ePh 39 40.40 0.1
 BNT 1.71 315 iPh 39 40.90 -0.1
 EDC 1.74 314 ePh 39 41.40 0.0
 IZM 1.92 247 ePh 39 43.90 -0.1
 CIN 1.92 216 eP 39 45.00 1.1
 CTT 2.15 338 ePh 39 47.40 0.0
 MFT 2.36 314 ePh 39 50.00 -0.5
 EZN 2.56 286 ePh 39 53.10 0.0
 BBTk 2.60 74 eP 40 01.00 7.1X
 eS 40 41.00

S.D. = 0.6 on 15 of 16 obs.

? OCT 24, 1991 17h 13m 54.92 ± 2.26s
 6.792 S ± 36.6km 105.823 E ± 27.3km
 DEPTH = 85.1 ± 18.9 km
 4.6mb (3 obs.)

SUNDA STRAIT (276)

KSI 4.49 314 ePd 15 02.20 0.2
 e 18 00.00
 TRT 6.82 98 ePc 15 34.00 -0.2
 KUPT 17.90 102 e(P) 18 09.30 9.4X
 WB2 30.61 118 iPd 20 03.80 0.5
 0.4s 4.70nm 4.6mb
 ASPA 31.76 125 eP 20 11.90 -1.4
 1.2s 10.60nm 4.5mb
 Z 21s 0.20um 3.8msz
 QIS 35.46 116 iPc 20 46.50 1.2
 0.6s 6.00nm 4.7mb
 GUN 39.52 332 P 21 19.00 -0.5
 KKN 39.70 331 P 21 21.80 0.9
 GKN 40.19 330 P 21 24.00 -0.8
 S.D. = 1.2 on B of 9 obs.

% OCT 24, 1991 17h 24m 28.65 ± 0.87s
 40.815 N ± 5.2km 22.472 E ± 7.2km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 MD 1.7 (THE).

GRG 0.15 339 ePg 24 32.26 0.0
 eSg 24 34.66
 THE 0.42 116 ePg 24 36.78 -0.4
 eSg 24 42.94
 KNT 0.47 43 ePgc 24 38.46 0.2
 eSg 24 45.02
 SOH 0.67 89 ePg 24 41.66 -0.3
 eSg 24 50.66
 LIT 0.71 179 ePg 24 42.38 -0.3
 eSg 24 54.02
 SRS 0.90 70 ePg 24 45.66 -0.3
 eSg 24 57.94
 OUR 1.25 112 ePb 24 52.10 0.3
 PAIG 1.28 133 ePb 24 53.14 0.8
 eSb 25 10.86
 S.D. = 0.5 on 8 of 8 obs.

OCT 24, 1991 17h 58m 18.84 ± 0.61s
 43.859 N ± 7.2km 7.206 E ± 5.7km
 DEPTH = 10.0km (geophysicist)
 NEAR SOUTH COAST OF FRANCE (379)
 ML 2.3 (LDG).

MVIF 0.05 314 Pg 58 19.70 -1.5
 AURF 0.09 72 Pg 58 21.35 -0.2
 Sg 58 24.04
 TOUF 0.16 11 Pg 58 21.59 -1.0
 SBF 0.17 89 Pg 58 23.20 0.5
 Sg 58 26.40
 AUTN 0.21 49 Pg 58 23.30 -0.2
 CALN 0.25 245 Pg 58 24.43 0.2
 Sg 58 28.98
 FRF 0.50 234 Pg 58 28.40 -0.7
 Sg 58 36.40
 LMR 0.73 224 Pg 58 32.60 -0.6
 Sg 58 43.40
 LRG 0.74 237 Pg 58 33.40 0.1
 Sg 58 43.40
 CDR 1.06 260 eP 58 40.20 1.4
 e 58 54.30
 LPG 1.67 349 Pg 58 50.40 1.9
 S.D. = 1.1 on 11 of 11 obs.

& OCT 24, 1991 18h 19m 22.70s

58.782 N 137.517 W
 DEPTH = 10.0km (geophysicist)
 SOUTHEASTERN ALASKA (19)
 <PGC>. ML 3.3 (PGC), 3.2 (AEIC).

PLBC 0.90 41 Pd 19 39.60 -0.3
 HQN 0.97 314 iP 19 39.00 -2.1
 iS 19 52.83
 PNL 1.31 313 eP 19 43.63 -3.4
 eS 20 01.88
 YKU 1.38 305 P 19 46.58 -1.3
 BCPM 1.60 318 eP 19 48.04 -3.0
 S 20 09.13
 PCA 1.92 314 eP 19 52.70 -3.2
 S 20 17.85
 SIT 2.09 145 eP 19 57.05 -1.1
 eS 20 25.43
 WHC 2.31 31 P 20 01.00 -0.5
 WRG 2.63 301 eP 20 04.32 -1.6
 YAH 2.67 308 eP 20 06.09 -0.7
 S 20 38.72
 CTGM 2.92 320 eP 20 07.09 -3.0
 S 20 41.72
 BALM 3.32 315 eP 20 13.27 -2.6
 TGL 3.34 309 eP 20 13.46 -2.6
 CROM 3.46 307 eP 20 15.36 -2.6
 HMT 3.77 297 eP 20 19.21 -2.9
 RAGM 3.98 297 eP 20 22.52 -2.6
 GLB 4.13 313 eP 20 24.93 -2.2
 INK 9.72 9 P 21 57.00 11.5
 18 obs. associated

? OCT 24, 1991 18h 21m 22.36 ± 0.91s
 36.879 N ± 10.9km 22.912 E ± 13.9km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN GREECE (368)
 ML 3.2 (ATH).

VLI 0.16 173 iPg 21 26.00 -0.1
 ATH 1.27 30 ePb 21 52.00 6.2X
 eSb 22 13.00
 NPS 2.72 126 ePn 22 07.00 0.1
 CZI 5.84 296 P 22 51.10 0.1
 HFS 24.01 349 eP 26 37.70 -0.1
 0.4s 1.40nm 3.9mb X
 S.D. = 0.2 on 4 of 5 obs.
 OCT 24, 1991 18h 46m 14.10 ± 0.57s
 38.382 N ± 5.4km 21.968 E ± 4.7km
 DEPTH = 5.0km (geophysicist)
 GREECE (364)
 ML 3.1 (ATH). MD 3.0 (THE).

AGG 0.70 24 ePgc 46 27.00 -1.1
 eSg 46 37.82
 VLS 1.10 260 ePn 46 33.60 -1.7
 eSn 46 50.00
 ATH 1.44 106 ePn 46 40.80 0.0
 eSn 47 02.50
 LIT 1.76 13 ePb 46 45.70 0.2
 eSb 47 08.62
 VLI 1.83 155 ePn 46 47.60 1.1
 KZN 1.93 356 ePn 46 48.60 0.7
 PAIG 2.04 40 ePb 46 48.74 -0.7
 KEK 2.15 309 ePb 46 53.00 1.9
 THE 2.38 19 ePn 46 54.62 0.3
 OUR 2.50 38 ePn 46 55.66 -0.4
 GRG 2.59 7 ePn 46 58.02 0.6
 SOH 2.66 23 ePn 46 57.62 -0.8
 eSn 47 30.62
 KNT 2.87 14 ePn 47 01.22 -0.1
 eSn 47 34.74
 OHR 2.87 342 ePn 47 02.30 0.9
 VAY 2.97 9 ePn 47 03.40 0.6
 SRS 3.01 24 ePn 47 02.62 -0.6
 SKO 3.61 354 ePn 47 12.00 0.2
 eSn 47 52.00
 ROI 4.37 287 P 47 21.70 -1.0
 CSI 4.63 289 P 47 27.10 0.7
 CZI 4.63 282 P 47 25.70 -0.7
 S.D. = 0.9 on 20 of 20 obs.

% OCT 24, 1991 19h 16m 45.14 ± 0.48s
 44.580 N ± 4.1km 7.343 E ± 4.9km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 2.3 (GEN).

PZZ 0.19 247 P 16 49.92 0.5
 S 17 52.69
 BHB 0.27 348 P 16 51.18 0.4
 S 17 54.74
 STV 0.34 182 P 16 51.97 -0.2
 S 16 56.07
 ENR 0.36 171 P 16 52.17 -0.4
 S 17 56.41
 ROB 0.47 127 P 16 54.64 -0.1
 S 17 00.89
 RRL 0.52 311 P 16 55.97 0.2
 RSP 0.57 354 P 16 55.76 -1.1
 FIN 0.72 121 P 16 59.35 0.0
 S 17 08.27
 IMI 0.78 149 P 17 00.20 -0.1
 S 17 09.40
 PCP 0.86 92 P 17 02.66 0.9
 S 17 12.81
 S.D. = 0.6 on 10 of 10 obs.

% OCT 24, 1991 20h 23m 50.80 ± 0.87s
 45.430 N ± 4.1km 6.624 E ± 5.7km
 DEPTH = 10.0km (geophysicist)
 FRANCE (53B)
 ML 2.4 (GEN).

LPL 0.12 41 Pg 23 54.20 0.3
 Sn 23 56.20
 RSL 0.26 0 Pg 23 56.26 -0.1
 Sg 24 00.11
 LSD 0.38 86 P 23 58.24 -0.3
 S 24 03.16
 BNI 0.38 175 P 23 58.30 -0.3
 eSg 24 02.90
 RRL 0.52 167 P 24 01.52 0.1
 S 24 08.59
 RSP 0.53 122 P 24 01.52 0.0
 S 24 08.59
 BHB 0.74 142 P 24 05.72 0.4
 S 24 15.16
 PZZ 0.98 160 P 24 09.62 0.0
 S.D. = 0.3 on 8 of 8 obs.

% OCT 24, 1991 20h 29m 14.56 ± 0.75s
 46.515 N ± 6.8km 9.103 E ± 6.3km
 DEPTH = 10.0km (geophysicist)
 SWITZERLAND (544)

VDL 0.26 96 ePc 29 20.30 0.2
 LLS 0.36 348 ePc 29 22.00 -0.1
 TMA 0.44 201 ePd 29 23.30 -0.3
 OSS 0.74 76 ePd 29 29.00 -0.2
 MMK 0.92 240 ePc 29 32.50 0.3
 S.D. = 0.3 on 5 of 5 obs.

% OCT 24, 1991 20h 36m 57.46 ± 0.82s
 42.597 N ± 6.9km 13.083 E ± 9.0km
 DEPTH = 10.0km (geophysicist)
 CENTRAL ITALY (381)

AQU 0.34 136 P 37 03.70 -0.8
 eSg 37 07.90
 MNS 0.37 235 P 37 04.70 -0.3
 eSg 37 09.80
 ASS 0.57 327 P 37 09.40 0.4
 eSg 37 18.20
 ARV 0.91 353 P 37 14.50 -0.3
 eSg 37 28.50
 SDI 1.04 148 P 37 18.20 1.0
 eSg 37 31.20
 S.D. = 1.0 on 5 of 5 obs.

% OCT 24, 1991 20h 44m 42.50 ± 2.89s
 37.127 N ± 22.5km 28.098 E ± 18.4km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

YER 0.15 87 iPg 44 44.70 -1.3
 eSg 44 47.20
 CIN 0.47 359 ePg 44 52.00 -0.1
 iSg 45 01.00
 IZM 1.43 333 iPh 45 08.50 0.0
 KHL 1.64 43 ePh 45 12.30 0.7
 BCK 2.01 80 iPh 45 17.50 0.5
 S.D. = 1.1 on 5 of 5 obs.

& OCT 24, 1991 21h 20m 32.52s

60.958 N 150.654 W
 DEPTH = 37.1km
 KENAI PENINSULA, ALASKA (14)
 <AEIC>. ML 2.5 (AEIC).

SLKM	0.50	155	iPc	20	42.70	-0.5
			eS	20	50.65	
SUA	0.51	355	iPd	20	42.87	-0.5
			eS	20	51.63	
PMS	0.60	61	iPc	20	44.13	-0.5
			eS	20	53.17	
SPU	0.72	289	iPd	20	45.48	-0.8
			eS	20	56.21	
CGLM	0.74	299	iPd	20	46.10	-0.6
PWA	0.79	28	ePc	20	46.69	-0.5
CRP	0.79	294	iPd	20	46.89	-0.5
			S	20	58.14	
CKL	0.85	287	iPd	20	47.47	-0.8
			eS	20	59.80	
NCG	0.85	302	iPd	20	47.59	-0.7
			eS	20	59.63	
BGL	0.90	291	iPd	20	48.06	-0.8
			eS	21	00.43	
RDT	0.94	247	ePc	20	48.48	-1.0
			eS	21	01.52	
NNL	0.97	199	ePc	20	50.47	0.6
PLRM	0.97	48	ePc	20	48.77	-1.0
PMR	0.97	48	P	20	48.70	-1.1
SEW	1.04	145	iPc	20	49.73	-1.1
			eS	21	04.50	
SKT	1.11	338	ePd	20	50.92	-0.9
			S	21	05.53	
REF	1.11	246	ePc	20	50.99	-1.0
			eS	21	06.51	
RDN	1.13	248	iPc	20	50.96	-1.2
			eS	21	06.25	
RSO	1.15	245	ePc	20	51.45	-1.1
			eS	21	06.99	
RS2	1.15	245	ePc	20	51.52	-1.0
			eS	21	06.97	
RS1	1.15	245	ePc	20	51.60	-0.9
			eS	21	07.26	
KNK	1.16	66	ePc	20	51.78	-0.7
			eS	21	07.13	
GHO	1.17	45	ePc	20	51.76	-0.9
			eS	21	08.05	
RED	1.17	243	ePc	20	51.75	-1.0
			eS	21	07.57	
BRLK	1.20	186	eP	20	52.52	-0.6
			eS	21	08.60	
SML	1.41	52	ePc	20	55.13	-0.9
			eS	21	13.32	
CUT	1.46	7	eP	20	56.56	-0.2
CNPM	1.47	192	ePc	20	56.23	-0.7
INE	1.49	234	ePc	20	56.29	-1.1
			eS	21	15.70	
INW	1.52	235	eP	20	56.90	-0.8
KNIM	1.56	112	iPd	20	55.60	-2.7
			eS	21	15.68	
LTI	1.66	122	eP	20	55.85	-3.9
GLI	1.74	91	eP	20	58.07	-2.8
			S	21	19.70	
FID	2.05	94	ePc	21	02.26	-3.0
VLZ	2.11	83	eP	21	03.89	-2.2
			eS	21	29.13	
PDB	2.11	238	ePc	21	04.94	-1.2
KLU	2.35	75	ePc	21	07.43	-2.2
SVW	2.42	276	ePd	21	08.85	-1.8
TOA	2.44	60	eP	21	10.02	-0.8
CVA	2.44	98	eP	21	08.69	-2.2
CDD	2.53	218	eP	21	11.99	-0.1
RND	2.60	18	P	21	16.40	3.3
RAGM	3.00	98	eP	21	18.20	-0.6
TTA	3.21	310	P	21	18.70	-3.2
GLB	3.35	79	eP	21	20.92	-2.8

45 obs. associated

? OCT 24, 1991 21h 45m 54.21±5.27s
 34.390 S ±48.3km 71.274 W ±15.2km
 DEPTH = 50.0km (geophysicist)
 NEAR COAST OF CENTRAL CHILE (135)

LNV	0.45	345	iPd	46	04.80	-0.1
			iS	46	15.00	
CHCH	0.69	49	iPc	46	08.00	0.0
			iS	46	20.00	
TACH	0.79	21	iP	46	09.00	-0.2

LCCH	0.94	345	iP	46	22.00	
			iS	46	11.50	0.1
PCH	0.99	40	iPd	46	25.00	
			iS	46	12.20	0.1
PEL	1.34	22	eP	46	17.00	0.1
	S.D. = 0.2	on	6 of 6 obs.			

% OCT 24, 1991 22h 54m 27.93±1.72s
 43.208 N ±16.6km 0.917 W ±5.8km
 DEPTH = 10.0km (geophysicist)

PYRENEES (378)
 ML 1.1 (STR).

ELYF	0.07	235	Pg	54	30.15	-0.2
			Sg	54	31.92	
MADF	0.09	131	Pg	54	31.06	0.4
			Sg	54	33.34	
BOH	0.13	213	Pg	54	31.16	0.0
ATE	0.20	127	Pg	54	31.88	-0.5
			Sg	54	35.84	
ISSF	0.20	154	Pg	54	32.49	0.1
			Sg	54	36.12	
ESCF	0.28	117	Pg	54	33.84	0.0
			Sg	54	38.12	
OGE	0.33	97	Pg	54	34.78	0.1
			Sg	54	40.55	
	S.D. = 0.3	on	7 of 7 obs.			

? OCT 24, 1991 22h 58m 23.73±2.14s
 4.341 N ±21.1km 76.430 W ±19.4km
 DEPTH = 50.0km (geophysicist)

COLOMBIA (103)
 MD 2.9 (UVC).

HOBC	0.29	87	iPd	58	33.16	0.1
CLMC	0.48	196	iPc	58	34.64	-0.3
BUGC	0.48	159	iPc	58	34.63	-0.3
			eS	58	41.00	
HOQC	0.89	193	eP	58	39.84	-0.6
			eS	58	50.00	
ANCC	0.93	208	eP	58	40.62	-0.1
			eS	58	51.50	
DIAC	1.07	167	eP	58	42.72	-0.1
SALC	1.38	191	eP	58	48.38	1.2
			eS	59	05.30	
	S.D. = 0.7	on	7 of 7 obs.			

% OCT 24, 1991 23h 01m 12.56±0.73s
 37.241 N ±10.9km 4.066 W ±5.3km
 DEPTH = 10.0km (geophysicist)

SPAIN (377)
 mbLg 2.6 (MDD).

AFC	0.42	88	iP	01	20.00	-1.1
			iS	01	28.00	
EGUA	0.57	135	iP	01	23.30	-0.8
			iS	01	32.00	
EPRU	0.97	254	iP	01	31.50	0.4
			iS	01	45.50	
EHOR	1.10	302	iP	01	32.40	-0.9
			iS	01	48.00	
EHUE	1.30	64	iP	01	37.50	0.8
EJIF	1.37	235	eP	01	38.00	0.3
			iS	01	57.00	
ENIJ	1.51	100	iP	01	41.00	1.3
	S.D. = 1.2	on	7 of 7 obs.			

OCT 24, 1991 23h 12m 20.65±0.31s
 2.695 S ±6.0km 101.106 E ±7.2km
 DEPTH = 51.8km (5 depth phases)
 5.1mb (28 obs.)

SOUTHERN SUMATERA, INDONESIA (274)

KSI	1.75	122	iPd	12	51.50	2.4
			iS	13	09.00	
			e	18	00.00	
KGM	5.18	25	ePc	13	41.20	3.6X
	0.3s	667.30nm				6.4mb X
			e	13	47.90	
KLM	5.78	5	ePd	13	50.50	4.4X
IPM	7.23	359	ePc	14	08.00	1.7
	0.8s	221.40nm				6.0mb
			e	16	04.70	
SNG	9.82	357	eP	14	43.00	1.0
	1.0s	104.00nm				5.9mb
			eS	16	44.50	

NNT	15.25	355	eP	15	26.40	-27.8X
KHT	17.54	352	eP	16	21.50	-1.8
TSM	18.14	68	ePc	16	33.40	2.9X
BDT	19.92	354	eP	16	48.00	-3.0X
	0.8s	31.10nm				4.7mb
CHG	21.48	354	eP	17	04.50	-2.5
CHTO	21.48	354	eP	17	04.50	-2.5
	1.0s	26.25nm				4.6mb
OIZ	23.24	21	P	17	25.80	1.5
MBL	25.87	137	eP	17	49.00	-0.4
GYA	29.48	10	P	18	21.60	-0.6
	1.0s	16.00nm				4.7mb
Z	20s	0.75um				4.3Msz
N	14s	0.59um				
E	14s	0.55um				
SHL	29.48	343	eP	18	20.50	-1.9
		iS	18	36.50		
HYB	29.90	313	eP	18	26.00	-0.1
CD2	33.51	4	P	18	55.60	-1.9
	0.8s	18.00nm				5.0mb
LSA	33.59	344	P	18	59.00	0.3
PKI	33.68	334	P	18	59.20	-0.1
GUN	33.77	335	P	19	01.00	0.8
DMN	33.84	334	P	19	01.00	0.3
KKN	33.92	334	P	19	01.40	0.1
POO	34.13	309	iPd	19	03.20	0.2
GKN	34.39	334	P	19	05.60	0.3
WHN	35.39	20	Pd	19	14.50	1.0
	0.8s	26.00nm				5.2mb
WB2	36.70	120	iPd	19	23.40	-1.4
	0.3s	63.20nm				6.0mb
		eS	25	00.40		
XAN	37.27	11	iPd	19	28.50	-0.9
	0.8s	73.00nm				5.7mb
ASPA	37.95	126	iPc	19	34.30	-1.0
	0.7s	22.10nm				5.2mb
Z	23s	0.20um				3.9MszX
		iP	19	51.70		71kmX
		iS	25	18.20		
		iScS	30	04.70		
LZH	38.66	4	P	19	41.20	0.0
	1.0s	21.00nm				5.0mb
SSE	38.67	28	Pc	19	42.50	1.4
	1.0s	12.00nm				4.7mb
Z	20s	0.50um				4.3Msz
NDI	38.72	325	ePn	19	41.50	-0.1
QIS	41.51	118	iPc	20	03.40	-1.3
	0.3s	15.00nm				5.2mb
TIY	41.55	14	iPd	20	05.50	0.6
Z	22s	0.52um				4.4Msz
N	15s	0.40um				
GTA	41.92	359	Pc	20	07.60	-0.3
	0.8s	9.00nm				4.6mb
Z	20s	0.59um				4.5Msz
N	16s	0.57um				
		pP	20	23.00		60km
		PcP	22	02.80		
		ScP	25	48.80		
BTO	43.85	10	eP	20	24.40	0.8
HHC	44.38	11	P	20	28.50	0.6
	1.0s	23.00nm				4.9mb
BJI	44.72	16	eP	20	31.50	1.0
	1.0s	7.00nm				4.4mb
Z	18s	0.59um				4.6Msz
QUE	46.18	318	eP	20	42.70	0.2
CTAO	47.30	115	iPc	20	50.00	-1.3
	1.0s	27.50nm				5.2mb
WMQ	47.85	347	iPc	20	55.70	0.4
CN2	51.19	23	eP	21	19.50	-1.3
	0.6s	15.00nm				5.2mb
Z	20s	0.89um				4.8Msz
MAIO	54.84	319	eP	21	47.00	-1.2
BRS	55.09	122	iPc	21	49.80	-0.3
	0.8s	3.50nm				4.4mb
		i	22	03.00		47km
ARMA	55.10	126	eP	21	51.80	1.6
	1.0s	11.00nm				4.8mb
TAB	64.78	315	eP	22	56.00	-0.5
KSR	74.62	244	eP	24	03.50	6.6X
OBN	77.94	328	iPc	24	14.70	0.0
	1.0s	*****nm				8.4mb X
VR1	81.11	317	eP	24	33.00	1.0
OHR	84.46	312	eP	24	48.50	-0.9
BZS	84.57	316	eP	24	48.50	-1.2
KAF	85.30	333	iP	24	53.50	0.5
	0.7s	14.10nm				5.2mb
NUR	85.69	331	iP	24	55.20	0.3

24d 23h

0.7s 16.50nm 5.3mb
 SPC 86.05 320 eP 24 58.00 0.7
 KRA 86.38 320 eP 24 58.50 -0.1
 e 25 18.50 73kmX
 SOD 86.54 338 iP 24 59.80 0.7
 KEV 87.05 340 eP 25 02.00 0.5
 SRO 87.14 318 eP 25 03.40 1.1
 ZST 87.99 318 eP 25 07.00 0.6
 PTJ 88.53 316 eP 25 09.40 0.2
 KSP 88.79 321 ePc 25 11.40 1.2
 VBY 88.99 315 e(P) 25 14.40 3.1X
 LJU 89.54 316 e(P) 25 14.50 0.6
 PRU 89.83 320 P 25 16.00 0.9
 VOY 89.98 316 e(P) 25 15.20 -0.8
 BRG 90.27 321 iP 25 17.80 0.7
 1.2s 13.00nm 5.2mb
 e 25 32.50 50km
 GEC2 90.30 319 ePc 25 16.50 -0.9
 0.8s 4.32nm 4.8mb
 e 25 32.80 57km
 KHC 90.40 319 eP 25 05.00 -12.8X
 e 25 18.50 45km
 CLL 90.89 321 e(P) 25 21.00 1.0
 e 26 00.00 153kmX
 HFS 91.02 330 eP 25 20.00 -0.4
 0.5s 2.80nm 4.9mb
 Z 19s 0.05um 4.0msz
 LR 03 34.00
 MOX 91.74 320 eP 25 25.00 1.1
 1.3s 13.00nm 5.2mb
 eSg 28 49.30
 GRF 91.96 319 iPc 25 26.10 1.1
 1.1s 12.00nm 5.2mb
 NB2 92.29 331 P 25 26.10 -0.2
 0.8s 6.00nm 5.1mb
 IMA 98.60 23 ePc 25 55.60 0.5
 ALO 138.95 35 e(PKP) 31 43.00 -1.0
 PPD 143.52 226 (PKP) 31 51.00 -1.2
 ELC 144.29 14 PKP 31 50.30 -2.7X
 BAO 144.42 238 ePKP 32 01.00 7.0X
 OLY 145.34 18 PKP 31 53.50 -1.4
 NAV 145.50 3 PKP 31 53.70 -1.5
 GBTN 146.83 8 PKP 31 58.00 0.7
 TKL 146.89 7 PKP 31 58.00 0.6
 JSC 148.50 4 PKP 32 02.70 2.7X
 PRM 148.61 6 PKP 32 03.20 3.0X
 ZOBO 158.36 209 PKP 32 16.00 1.1
 S.D. = 1.1 on 72 of 84 obs.

? OCT 24, 1991 23h 59m 55.39±1.22s
 43.522 N ±15.8km 11.608 E ± 8.9km
 DEPTH = 10.0km (geophysicist)
 CENTRAL ITALY (381)
 CRE 0.27 67 Pc 00 01.20 0.0
 eSg 00 09.90
 ASS 0.89 120 P 00 12.50 0.0
 eSg 00 26.00
 BDI 0.91 307 P 00 13.10 0.3
 eSg 00 28.60
 MME 0.94 316 P 00 13.20 -0.3
 eSg 00 29.50
 S.D. = 0.4 on 4 of 4 obs.

* OCT 25, 1991 01h 52m 34.07±0.99s
 31.607 N ±11.4km 57.231 E ± 7.3km
 DEPTH = 72.2 ± 9.5 km
 4.2mb (7 obs.)
 NORTHERN IRAN (348)
 SHI 4.50 245 eP 53 43.00 1.5
 MAIO 5.04 21 iPnc 53 51.00 2.0
 0.8s 13.18nm 4.2mb
 eSn 54 58.00
 TEH 6.38 312 eP 54 15.00 7.4X
 IR4 6.41 306 eP 54 07.10 -1.0
 IR5 6.62 305 eP 54 10.00 -1.0
 IR1 6.65 307 eP 54 11.20 -0.2
 IR7 6.87 308 eP 54 13.80 -0.6
 QUE 8.47 97 eP 54 35.20 -1.3
 GEC2 36.85 311 iPc 59 37.30 0.3
 0.6s 2.03nm 4.2mb
 CDF 41 00 309 eP 00 11.30 -0.2
 LPG 41.18 305 eP 00 13.00 -0.3
 0.7s 2.20nm 4.1mb
 LPL 41.20 305 eP 00 13.20 -0.1
 0.6s 2.25nm 4.2mb

LBF 43.15 307 eP 00 29.00 0.0
 LOR 43.23 307 eP 00 29.80 0.1
 0.7s 3.85nm 4.3mb
 SMF 43.23 306 eP 00 29.90 0.2
 0.7s 2.75nm 4.2mb
 SSF 43.47 307 eP 00 31.90 0.3
 0.6s 1.80nm 4.1mb
 TCF 44.36 306 eP 00 39.00 0.2
 S.D. = 0.9 on 16 of 17 obs.

% OCT 25, 1991 03h 25m 19.99±2.89s
 44.070 N ±25.1km 12.129 E ± 6.1km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)

SFI 0.25 233 P 25 25.50 0.2
 eSg 25 30.00
 RSM 0.27 121 P 25 25.80 0.1
 eSg 25 30.00
 PGD 0.35 237 P 25 27.10 -0.2
 eSg 25 34.20
 CRE 0.46 196 P 25 29.40 0.0
 eSg 25 38.40
 ARV 0.82 134 P 25 35.80 -0.1
 eSg 25 49.60
 S.D. = 0.2 on 5 of 5 obs.

* OCT 25, 1991 04h 08m 38.81±1.53s
 36.005 N ±15.5km 69.920 E ± 7.6km
 DEPTH = 104.1 ± 20.4 km
 4.4mb (6 obs.)
 HINDU KUSH REGION, AFGHANISTAN (71B)

QUE 6.31 204 eP 10 11.30 0.2
 eS 11 18.90
 MAIO 8.44 275 ePn 10 40.00 0.0
 eSn 12 10.00
 NDI 9.56 138 iPd 10 55.30 0.2
 0.7s 27.40nm 5.2mb X
 iS 12 34.60
 GKN 14.81 118 P 12 04.00 -0.2
 15.37 119 P 12 11.40 0.0
 0.6s 14.00nm 4.4mb
 KKN 15.39 118 P 12 11.00 -0.6
 0.6s 23.00nm 4.6mb
 PKI 15.61 118 P 12 14.20 -0.3
 0.6s 14.00nm 4.4mb
 GUN 15.75 116 P 12 17.00 0.7
 0.4s 9.00nm 4.4mb
 NB2 44.25 323 P 16 38.40 -0.8
 0.7s 0.80nm 3.6mb
 MBC 67.87 2 eP 19 28.00 0.7
 INK 74.53 9 eP 20 07.50 0.3
 WR2 82.50 121 eP 20 51.00 -0.2
 0.3s 2.60nm 4.6mb
 QIS 86.59 118 eP 21 04.30 -7.4X
 S.D. = 0.5 on 12 of 13 obs.

* OCT 25, 1991 05h 11m 35.23±3.01s
 33.549 S ±20.1km 68.28B W ±23.4km
 DEPTH = 33.0km (normal)
 MENDOZA PROVINCE, ARGENTINA (139)

PCH 1.86 267 iPd 12 04.50 -0.9
 iS 12 29.00
 CFA 1.94 1 eP 12 06.40 -0.1
 S 12 34.00
 SAN 1.99 272 eP 12 06.50 -0.7
 iS 12 31.50
 CHCH 2.01 258 iPc 12 07.50 0.0
 iS 12 33.50
 PEL 2.05 281 iPd 12 07.50 -0.6
 iS 12 34.20
 RTCB 2.10 348 eP 12 08.80 -0.1
 S 12 39.00
 JACH 2.12 293 iPc 12 09.10 0.0
 TACH 2.21 267 iP 12 10.20 -0.2
 iS 12 38.00
 RTLL 2.22 356 iPd 12 10.20 -0.3
 ROCH 2.35 283 eP 12 13.00 0.4
 LNV 2.63 260 iPc 12 17.00 0.7
 iS 12 49.50
 LCCH 2.74 271 eP 12 19.00 1.2
 iS 12 53.50
 RTRS 3.51 343 ePd 12 29.40 0.6
 S 13 20.40
 S.D. = 0.6 on 13 of 13 obs.

? OCT 25, 1991 05h 19m 55.85±11.99s
 34.209 S ±75.7km 70.353 W ±66.9km
 DEPTH = 33.0km (normal)
 CHILE-ARGENTINA BORDER REGION (127)

CHCH 0.37 318 iPc 20 02.90 -1.7
 iS 20 09.00
 PCH 0.60 347 iPc 20 06.60 -1.4
 iS 20 16.50
 TACH 0.74 319 iPc 20 09.00 -0.8
 iS 20 20.50
 SAN 0.80 341 iPc 20 09.50 -1.2
 iS 20 21.50
 LNV 0.91 286 iPc 20 12.00 -0.3
 iS 20 25.90
 PEL 1.10 345 iPc 20 15.50 0.5
 iS 20 31.50
 LCCH 1.25 306 iP 20 17.50 0.4
 iS 20 35.00
 ROCH 1.35 336 iP 20 20.50 1.7
 iS 20 39.20
 S.D. = 1.4 on 8 of 8 obs.

* OCT 25, 1991 05h 22m 06.10±0.48s
 0.757 S ±10.4km 127.421 E ±18.9km
 DEPTH = 33.0km (normal)
 5.1mb (13 obs.)
 HALMAHERA, INDONESIA (267)

MTN 12.56 163 eP 25 03.00 -2.4
 0.5s 83.00nm 6.1mb X
 eS 27 19.00
 WR2 20.25 161 eP 26 39.80 -1.8
 0.3s 29.00nm 5.1mb
 eS 30 19.80
 QIS 23.00 150 iPd 27 09.80 0.6
 0.4s 19.00nm 4.9mb
 eS 31 21.00
 ASPA 23.63 165 iPc 27 15.70 0.4
 0.6s 37.30nm 5.1mb
 ePcP 31 00.10
 eS 31 24.30
 eScP 34 38.70
 WARB 25.29 182 eP 27 33.00 1.7
 WHN 33.52 339 ePd 28 45.00 0.1
 1.1s 37.00nm 5.2mb
 GYA 33.66 325 P 28 46.20 -0.1
 1.0s 10.00nm 4.7mb
 pP 28 57.80 43kmX
 KMI 35.11 319 eP 29 00.00 1.1
 1.5s 50.00nm 5.2mb
 ARMA 37.40 144 iPc 29 20.50 2.4
 1.0s 20.00nm 4.9mb
 CD2 38.70 327 P 29 28.50 -0.4
 XAN 38.73 335 Pd 29 28.10 -1.0
 0.6s 15.00nm 5.0mb
 TIY 40.71 342 Pd 29 45.00 -0.4
 LZH 42.72 331 P 30 02.50 0.4
 1.5s 62.00nm 5.1mb
 pP 30 17.00 56kmX
 sP 30 24.00
 HHC 43.85 343 eP 30 10.60 -0.5
 LSA 45.98 314 P 30 29.50 0.8
 GTA 47.30 331 Pc 30 38.60 0.0
 1.0s 28.00nm 5.2mb
 GUN 48.99 309 P 30 52.60 0.4
 PKI 49.20 308 P 30 53.60 -0.2
 KKN 49.40 308 P 30 55.00 -0.2
 0.8s 34.00nm 5.4mb
 DMN 49.45 308 P 30 55.80 0.1
 GKN 50.00 308 P 30 59.60 -0.2
 0.8s 39.00nm 5.5mb
 HYB 51.39 293 iPd 31 10.20 -0.1
 1.0s 35.00nm 5.3mb
 WMO 56.80 326 P 31 49.50 -0.2
 QUE 65.16 304 eP 32 46.50 -0.2
 MAIO 72.79 308 iPd 33 33.50 -0.2
 S.D. = 1.0 on 25 of 25 obs.

OCT 25, 1991 05h 44m 23.95±0.29s
 41.276 N ± 3.9km 20.914 E ± 2.7km
 DEPTH = 14.4 ± 2.3 km
 ALBANIA (391)
 ML 3.6 (TTG), 3.5 (SKO). Felt
 (IV) in southwestern Macedonia.

OHR	0.19	208	iPgc	44	28.80	0.3	MGP	0.23	210	P	16	50.00	-0.1	23.833 S ± 9.2km 179.978 W ± 5.0km DEPTH = 542.7 ± 19.0 km 4.7mb (15 obs.) SOUTH OF FIJI ISLANDS (171)							
			Sg	44	32.70					S	17	00.00									
SKO	0.80	29	iPg	44	37.40	-1.7	MCP	0.25	326	P	16	50.00	-0.3								
			iSg	44	47.50					S	16	59.00									
KZN	1.17	146	ePn	44	45.80	0.4	APR	0.33	43	P	16	52.40	1.1	DZM	12.63	275	iPd	09	16.30	1.4	
			eSb	45	05.00					S	17	01.40		KUZ	13.39	195	eP	09	24.00	1.6	
GRG	1.17	105	ePb	44	45.26	-0.1	PORP	0.35	117	P	16	52.70	1.1	HBZ	13.80	186	eP	09	26.60	0.1	
			eSb	45	01.50					S	17	02.70		PUZ	14.28	186	eP	09	32.10	0.8	
VAY	1.25	87	iPn	44	46.40	-0.3	CLLP	0.39	109	P	16	53.30	1.1	URZ	14.60	189	P	09	33.40	-1.0	
			iSn	45	01.40					S	17	04.80					S	12	07.70		
			iSg	45	03.40		SJG	0.78	97	P	16	57.30	-0.5								
ULC	1.42	299	iPg	44	48.70	-0.6	CPD	1.01	100	P	16	59.80	-1.3	NOZ	14.84	186	eP	09	36.90	0.1	
			iSg	45	08.30		LPR	1.05	85	P	17	00.70	-0.9	RUZ	15.76	194	eP	09	47.70	1.8	
PVY	1.49	332	iPg	44	49.50	-0.9				S	17	17.00		MNG	17.17	192	eP	09	57.70	-1.9	
			iSg	45	11.44		S.D. = 1.2 on 8 of 8 obs.											eS	12	48.50	
KNT	1.50	94	ePbc	44	51.06	0.7	* OCT 25, 1991 07h 22m 08.08 ± 0.83s								CAW	17.72	192	eP	10	04.40	-0.6
			eSb	45	10.82		41.075 S ± 24.6km 44.177 E ± 10.8km								AMW	17.79	191	eP	10	05.00	-0.6
LIT	1.68	134	ePbc	44	53.82	0.9	DEPTH = 10.0km (geophysicist)											eS	13	05.80	
			eSb	45	18.98		4.8mb (13 obs.) 4.3Msz (1 obs.)								MRW	17.91	193	P	10	07.10	0.3
THE	1.68	112	ePb	44	52.82	-0.1	CROZET ISLANDS REGION (432)								WEL	17.95	193	P	10	07.50	0.3
			eSb	45	15.46												S	13	07.00		
TTG	1.69	314	iPnc	44	53.80	0.7	HVD	18.36	299	eP	26	26.00	1.5	TCW	17.99	194	eP	10	06.70	-0.8	
			iSn	45	17.20		SEK	18.59	308	e(P)	26	27.50	0.1	THZ	18.84	197	eP	10	16.30	0.5	
KKB	1.73	69	iPc	44	54.00	0.3		0.9s	12.60nm			4.1mb		KHZ	19.30	195	eP	10	19.70	-0.3	
IVA	1.77	335	iPnd	44	55.06	0.8	FRS	19.03	300	eP	26	36.50	3.9X	ARMA	26.07	249	eP	11	22.80	1.3	
			iSn	45	19.54			0.4s	12.71nm			4.5mb		RMO	28.39	258	eP	11	43.00	1.3	
KEK	1.78	209	ePn	44	56.30	1.9	KSR	20.87	311	iPc	26	51.00	-1.9	AFR	28.90	83	iP	11	45.70	-0.5	
BDV	1.86	304	iPnc	44	56.70	1.2		1.0s	16.00nm			4.3mb			0.8s	25.00nm			4.9mb		
			iSn	45	21.48		CER	21.21	283	eP	26	49.00	-7.2X	PAE	29.05	84	iP	11	46.90	-0.5	
SOH	1.90	103	ePbc	44	56.58	0.4		0.9s	38.46nm			4.8mb			0.8s	10.00nm			4.5mb		
			eSb	45	23.66		TUH	21.35	283	iPd	26	56.50	-1.0	PPT	29.08	83	iP	11	47.30	-0.4	
SRS	2.03	94	ePn	44	57.58	-0.4		0.4s	16.95nm			4.8mb			0.8s	20.00nm			4.8mb		
			eSb	45	27.22		KIC	65.05	304	P	32	50.00	-0.9	PPN	29.22	83	iP	11	48.40	-0.5	
NKY	2.10	318	iPnc	45	01.04	1.9	LIC	65.13	304	P	32	50.80	-0.6		0.8s	5.00nm			4.2mb		
			iSn	45	27.40		TIC	65.45	304	P	32	53.00	-0.5	TVO	29.31	84	iP	11	49.20	-0.6	
HCY	2.15	304	iPnd	45	01.12	1.3	LKO	68.05	306	P	33	09.74	-0.3		0.8s	35.00nm			5.0mb		
			iSn	45	28.80		ASPA	74.66	108	iPc	33	49.40	-0.2	CMS	31.14	248	iPd	12	06.50	1.3	
VTs	2.16	52	iP	45	01.00	0.9		1.2s	7.70nm			4.6mb		PMO	31.44	80	iP	12	07.70	-0.2	
			eS	45	27.00		WR2	77.31	105	iPc	34	04.70	0.1		0.8s	10.00nm			4.5mb		
PLE	2.34	332	iPnc	45	03.46	0.8		0.7s	2.80nm			4.5mb		CTAO	31.49	270	iPd	12	08.50	0.1	
			iSn	45	33.54		DMN	78.16	36	P	34	09.00	-0.3		0.5s	25.97nm			5.1mb		
BRY	2.40	313	iPnc	45	04.92	1.5		0.8s	28.00nm			5.4mb		VAH	31.60	80	iP	12	08.70	-0.5	
			iSn	45	34.70		PKI	78.26	37	P	34	09.40	-0.6		0.8s	5.00nm			4.2mb		
LCI	2.44	248	P	45	02.80	-1.0		1.0s	26.00nm			5.3mb		TPT	31.70	80	iP	12	10.00	0.0	
AGG	2.50	154	ePn	45	06.22	1.5	CHG	78.27	52	eP	34	10.00	0.2		0.8s	20.00nm			4.8mb		
			eSb	45	36.30		GKN	78.29	36	P	34	09.40	-0.5	RUV	31.84	80	iP	12	11.00	-0.2	
PAIG	2.50	122	ePn	45	04.74	0.0		0.8s	38.00nm			5.5mb			0.8s	15.00nm			4.7mb		
OUR	2.51	111	ePn	45	04.82	-0.1	KKN	78.39	36	P	34	10.20	-0.4	PMG	34.49	289	eP	12	31.50	-2.0	
BRT	2.83	263	P	45	12.00	2.5	GUN	78.77	37	P	34	13.00	0.2		0.8s	37.31nm			5.1mb		
			eSb	45	41.00			0.8s	46.00nm			5.6mb		OIS	37.48	267	eP	12	58.00	-0.1	
RZN	2.89	81	iP	45	11.00	0.6	FRF	90.78	334	eP	35	14.80	2.6		0.4s	4.00nm			4.4mb		
KDZ	3.40	82	eP	45	17.00	-0.6	SMF	94.44	333	eP	35	29.90	0.9	ASPA	42.07	261	iPd	13	34.90	-0.2	
			Sg	46	16.00		AVF	94.73	333	eP	35	31.30	1.0		0.7s	36.50nm			5.0mb		
BEO	3.56	355	ePn	45	25.80	6.0X		0.7s	4.95nm			5.0mb					iScP	18	20.50		
ROI	3.73	244	P	45	22.30	0.0	LOR	94.97	334	eP	35	32.50	1.1				iS	19	13.80		
			eSb	46	06.50			0.7s	3.85nm			4.9mb		WR2	42.41	266	iPc	13	36.80	-1.0	
HVAR	3.82	301	iPn	45	23.50	-0.1		0.7s	0.10um			4.3Msz			0.3s	41.50nm			5.4mb		
CSI	3.83	248	P	45	23.30	-0.4	Z	19s	0.10um								ePP	15	01.30		
			eSb	46	06.00		MBC	144.00	353	ePKP	41	41.50	-2.5				iScP	18	22.00		
ALN	3.90	94	ePn	45	27.18	2.6	VVO	148.19	273	ePKP	41	54.10	1.9				iS	19	16.80		
MMN	4.00	251	P	45	26.20	0.3	TUL	148.45	274	ePKPc	41	55.20	2.6X	WARB	48.15	255	eP	14	20.70	-1.4	
			eSb	46	09.40			0.8s	16.00nm					KNA	48.68	270	eP	14	25.10	-1.0	
CZI	4.20	242	P	45	29.90	1.1	SIO	148.77	273	ePKP	41	56.60	3.5X	MBL	55.31	260	eP	15	13.00	-0.9	
			eSb	46	18.20		MEQ	150.13	270	iPKPd	42	00.50	5.3X	BAL	56.07	248	eP	15	18.00	-1.1	
MGR	4.23	256	P	45	29.60	0.3	INK	152.68	358	ePKPd	42	04.50	6.6X	MUN	56.28	246	eP	15	20.50	0.1	
			eSb	46	12.50		S.D. = 1.2 on 22 of 28 obs.								MAT	71.85	326	eP	16	58.00	-0.7
SOI	4.93	231	P	45	37.00	-2.2	% OCT 25, 1991 07h 33m 58.55 ± 1.43s								CLC	83.63	46	eP	18	03.00	1.2
SDI	5.35	277	P	45	45.80	0.5	3.895 N ± 8.2km 76.078 W ± 16.1km								GSC	83.86	47	eP	18	05.00	2.0
VBY	5.90	318	ePn	45																	

25d 08h

61.515 N 147.860 W
 DEPTH = 28.2km
 SOUTHERN ALASKA (2)
 <AEIC>. ML 2.6 (AEIC).

KNK	0.30	250	iPc	43	49.21	-0.2
			eS	43	55.17	
SML	0.37	323	iPd	43	49.87	-0.6
			iS	43	56.43	
SCM	0.41	38	iPd	43	50.55	-0.5
			eS	43	57.70	
GHO	0.57	297	iPc	43	52.55	-1.0
			iS	44	01.25	
PLRM	0.61	278	iPc	43	53.11	-1.1
			eS	44	02.02	
GLI	0.74	149	iPc	43	54.93	-1.4
			eS	44	05.53	
VZW	0.78	125	iPc	43	55.43	-1.6
VLZ	0.83	117	iPc	43	55.82	-1.9
			S	44	06.80	
PMS	0.86	252	iPc	43	57.21	-1.0
			iS	44	08.48	
KLU	0.93	91	iPc	43	57.57	-1.7
			eS	44	10.87	
PWA	0.98	279	ePc	43	58.55	-1.2
			eS	44	11.29	
TOA	1.00	53	iPd	43	59.46	-0.7
			eS	44	13.78	
FID	1.02	138	ePc	43	58.95	-1.5
			eS	44	13.08	
KNIM	1.17	177	iPd	44	01.46	-1.2
			eS	44	17.11	
TZL	1.27	64	ePc	44	03.71	-0.3
SUA	1.38	269	iPc	44	05.30	-0.4
			eS	44	23.54	
CVA	1.41	132	ePc	44	05.77	-0.3
			eS	44	23.27	
CUT	1.45	309	iPc	44	05.80	-0.7
			eS	44	24.61	
SDG	1.49	46	iPd	44	06.59	-0.6
			eS	44	25.90	
SLKM	1.53	230	ePd	44	07.22	-0.6
MTU	1.54	176	eP	44	07.36	-0.5
SEW	1.62	210	ePd	44	08.62	-0.3
HUR	1.69	331	eP	44	09.34	-0.7
			eS	44	30.07	
SKT	1.81	287	iPc	44	11.27	-0.5
			eS	44	33.67	
PAX	1.84	36	ePd	44	11.75	-0.6
			eS	44	35.54	
RAGM	1.92	125	eP	44	13.63	0.1
GLB	1.94	90	ePc	44	12.84	-1.0
			eS	44	36.73	
RND	1.95	347	eP	44	13.86	-0.1
			eS	44	37.43	
CGLM	2.01	266	ePc	44	14.48	-0.2
			eS	44	38.65	
SPU	2.05	262	eP	44	14.80	-0.5
NCG	2.07	269	ePc	44	15.05	-0.6
			eS	44	41.06	
HMT	2.12	122	eP	44	15.20	-1.1
CKL	2.18	264	eP	44	16.58	-0.7
BGL	2.19	265	eP	44	16.54	-0.9
NNL	2.24	230	eP	44	17.92	-0.1
TRF	2.25	331	ePc	44	17.83	-0.4
RDT	2.40	249	eP	44	19.44	-0.9
CROM	2.41	106	eP	44	19.72	-0.9
TGL	2.56	105	eP	44	21.67	-0.9
REF	2.57	249	eP	44	21.82	-1.1
RDN	2.59	249	eP	44	22.54	-0.5
CNPM	2.60	221	eP	44	22.37	-0.8
BALM	2.71	98	ePc	44	23.42	-1.3
HDA	2.93	8	eP	44	26.95	-0.8
YAH	3.20	108	eP	44	29.80	-2.0
CTGM	3.20	97	eP	44	30.77	-1.0

46 obs. associated

& OCT 25, 1991 09h 03m 42.60s
 35.815 N 121.317 W
 DEPTH = 4.0km
 CENTRAL CALIFORNIA (39)
 <BRK>. ML 2.7 (BRK).

PRS	0.52	355	iPd	03	52.82	-0.1
			iS	03	59.85	
PRI	0.62	58	iPd	03	55.16	0.1
			iS	04	04.68	

PHAM	0.75	88	eP	03	57.50	0.0
LLA	0.86	21	iPc	04	00.05	0.4
SAO	0.95	354	iPd	04	00.48	-0.8
			iS	04	12.17	
GCC	1.33	336	iPc	04	07.33	-0.4
			iS	04	25.76	
ARN	1.54	354	eP	04	09.50	-1.4
FRI	1.75	47	iPd	04	13.13	-0.8
			iS	04	35.56	

8 obs. associated

* OCT 25, 1991 09h 18m 41.40±1.03s
 19.108 N ±11.9km 107.880 W ±12.8km
 DEPTH = 10.0km (geophysicist)
 4.0mb (7 obs.)

OFF COAST OF JALISCO, MEXICO (54)

MZX	4.29	18	iP	19	47.30	-0.9
ALO	15.82	4	eP	22	31.00	4.9X
	1.0s	7.00nm			3.8mb	
ANMO	15.83	4	P	22	32.10	6.0X
	0.8s	6.53nm			3.9mb	
PEC	16.89	333	P	22	40.00	0.5
VVO	19.41	31	eP	23	11.50	0.9
MSU	19.69	350	P	23	14.40	0.3
TUL	19.85	30	eP	23	15.00	-0.4
	1.0s	7.20nm			3.9mb	
TNP	20.58	339	P	23	22.90	-0.5
BONR	20.86	336	P	23	26.30	-0.1
DAU	21.43	353	P	23	32.70	0.5
DUG	21.44	350	P	23	32.90	0.8
BW06	23.64	357	P	23	53.50	-0.3
	1.0s	3.33nm			3.9mb	
FVM	24.19	35	P	24	02.80	3.9X
	0.7s	12.24nm			4.6mb	
HPI	24.92	351	P	24	07.00	0.7
RSSD	25.15	7	P	24	09.00	0.6
	0.8s	4.41nm			4.2mb	
INK	51.76	348	ePd	27	49.30	-1.6
ZOBO	52.58	129	P	27	58.80	0.3
MBC	57.47	357	eP	28	31.50	-1.0
	0.9s	9.00nm			4.8mb	

S.D. = 0.8 on 15 of 18 obs.

% OCT 25, 1991 09h 36m 48.06±0.78s
 40.358 N ±6.3km 23.305 E ±6.6km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)

MD 1.5 (THE).

THE	0.38	317	ePg	36	54.57	-1.2
SOH	0.46	5	ePg	36	58.17	0.7
			eSg	37	04.26	
PAIG	0.52	146	ePg	36	58.66	0.1
			eSg	37	06.30	
OUR	0.52	92	ePg	36	57.89	-0.7
			eSg	37	07.21	
LIT	0.67	248	ePg	37	02.01	0.5
			eSg	37	11.02	
SRS	0.79	16	ePg	37	03.98	0.6
			eSg	37	14.89	

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

% OCT 25, 1991 09h 46m 16.59±0.65s
 44.323 N ±5.9km 7.489 E ±5.9km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)

ML 2.1 (GEN).

ENR	0.11	207	P	46	19.36	-0.1
			S	46	21.51	
STV	0.14	236	P	46	20.18	0.2
			S	46	22.64	
ROB	0.28	96	P	46	22.64	0.2
			S	46	27.25	
PZZ	0.33	303	P	46	23.66	0.1
			S	46	29.20	
IMI	0.50	145	P	46	26.64	-0.2
			S	46	33.61	
BHB	0.54	343	P	46	27.35	-0.2
			S	46	34.94	

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

OCT 25, 1991 10h 08m 50.30±1.09s
 33.229 S ±6.1km 72.123 W ±10.3km
 DEPTH = 42.8 ± 7.9 km
 4.7mb (7 obs.)

OFF COAST OF CENTRAL CHILE (134)
 Felt (III) at Valparaiso and
 Santo Domingo and (II) at
 Santiago.

IHA	0.45	64	iPc	08	59.70	-0.9
			iS	12	07.60	
LCCH	0.52	118	iP	09	00.00	-1.5
LNV	0.94	141	iPd	09	06.50	-0.7
ROCH	0.97	75	iPd	09	08.00	0.2
TACH	1.08	113	iPd	09	09.20	0.0
PEL	1.21	86	iPd	09	12.00	0.9
SAN	1.24	101	iPd	09	12.20	0.7
			iS	09	29.40	
JACH	1.40	67	iPc	09	14.10	0.3
			iS	09	34.50	
PCH	1.40	107	iP	09	14.70	0.9
CHCH	1.41	120	iPc	09	14.00	0.0
CFA	3.66	65	eP	09	47.20	1.2
ANT	9.61	9	eP	11	15.00	6.0X
LPB	17.02	13	P	12	49.00	1.8
ZOBO	17.27	13	iPd	12	50.00	-0.5
	16s	0.85um				
		LR		18	20.00	
PPD	21.51	64	eP	13	35.70	-1.8
			e	13	43.80	
BAO	27.99	57	ePd	14	38.20	-1.1
PDOR	36.49	63	iPd	15	52.40	-1.0
SOB1	37.41	57	eP	15	57.10	-4.1X
SPA	56.95	180	iPc	18	34.10	0.5
	0.8s	16.25nm			5.1mb	
TUL	72.26	340	e(P)	20	12.50	-0.4
	0.6s	3.30nm			4.5mb	
FVM	72.87	345	eP	20	15.20	-1.3
	1.0s	10.00nm			4.7mb	
MAW	73.94	164	eP	20	24.00	1.6
LIC	74.60	72	P	20	27.30	0.3
TIC	74.86	71	P	20	28.90	0.4
KIC	74.91	72	P	20	29.20	0.4
ALO	75.07	331	eP	20	29.00	-0.6
	1.2s	5.47nm			4.4mb	
		e		20	40.00	
LKO	76.15	69	P	20	36.30	0.4
	0.7s	8.00nm			4.8mb	
GOL	78.82	334	eP	20	51.00	0.5
	1.0s	5.00nm			4.4mb	
HVD	79.60	120	eP	20	55.00	0.0
FRS	79.93	119	iPd	20	56.20	-0.3
	0.7s	10.27nm			4.9mb	
MSU	80.50	329	eP	21	00.00	0.6
BLF	80.91	119	eP	21	05.00	3.1X
SEK	82.40	119	eP	21	04.20	-5.5X
KSR	83.21	116	eP	21	12.50	-1.4
SLR	84.32	117	iPc	21	19.50	0.0
BFT	85.66	118	eP	21	29.50	3.2X
INK	110.92	340	ePKP	27	41.00	21.6X
POO	146.24	107	ePKP	28	28.00	0.9
HYB	149.31	114	ePKP	28	37.50	5.5X

S.D. = 0.9 on 32 of 39 obs.

? OCT 25, 1991 10h 26m 28.23±2.77s
 34.396 S ±27.4km 70.985 W ±13.2km
 DEPTH = 75.0km (geophysicist)

CHILE-ARGENTINA BORDER REGION (127)

CHCH	0.54	31	iPd	26	42.00	-0.1
			iS	26	57.00	
LNV	0.56	321	iPd	26	42.20	0.0
			iS	26	57.00	
TACH	0.74	3	iPd	26	44.50	0.3
			iS	27	02.00	
PCH	0.87	27	iPd	26	45.50	-0.2
			iS	27	04.00	
SAN	0.98	16	eP	26	47.50	0.5
			iS	27	06.00</	

5.7mb (119 obs.)
HOKKAIDO, JAPAN REGION (224)
mb 5.4 (BRK). Felt (III) at
Misawa, Honshu.
Depth from broadband
displacement seismograms.
FAULT PLANE SOLUTION: P-Waves
NP1: Strike=142 Dip=80 Slip= 44
NP2: 42 47 166
Principal Axes:
T P1g=37 Azm= 12
P 21 265
Comment: The focal mechanism is
moderately well controlled and
corresponds to strike-slip
faulting with a large reverse
component. The preferred fault
plane is not determined.
RADIATED ENERGY
No. of sta: 11 Focal mech. M
Energy 2.6±0.5*10**12 Nm
MOMENT TENSOR SOLUTION
Dep 91 No. of sta: 13
Moment Tensor; Scale 10**17 Nm
Mrr= 0.49 Mtt= 1.38
Mff=-1.87 Mrt= 1.09
Mrf=-0.59 Mtf= 0.29
Principal axes:
T Vol= 2.11 P1g=34 Azm= 2
N -0.01 51 149
P -2.10 16 260
Best Double Couple: Mo=2.1*10**17
NP1: Strike= 36 Dip=53 Slip= 166
NP2: 134 79 38
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 22S, 47C
Centroid Location:
Origin Time 10:39: 4.2 0.2
Lat 43.22N 0.04 Lon 144.07E 0.03
Dep 103.2 2.2 Half-duration 2.0
Moment Tensor; Scale 10**17 Nm
Mrr= 0.46 0.04 Mtt= 0.78 0.07
Mff=-1.23 0.06 Mrt= 1.08 0.04
Mrf=-0.74 0.04 Mtf= 0.15 0.06
Principal Axes:
T Vol= 1.75 P1g=43 Azm= 10
N -0.11 37 143
P -1.64 26 254
Best Double Couple: Mo=1.7*10**17
NP1: Strike= 33 Dip=39 Slip= 164
NP2: 136 80 53

KUSJ 0.33 127 iPd 39 18.70 2.6
S 39 30.10
HOOJ 1.21 221 iP+ 39 26.90 2.6
ASAJ 1.48 304 iPd 39 32.10 4.4X
eS 39 53.90
SAP 2.22 265 iP 39 40.50 3.2X
iS 40 07.70
MRRJ 2.56 251 iPd 39 44.00 2.1
S 40 14.20
AOMJ 4.04 229 P 40 02.80 0.7
S 40 46.60
OFUJ 4.68 207 iP+ 40 09.80 -1.1
S 40 59.70
YAMJ 6.08 214 iP+ 40 29.90 -0.4
S 41 34.90
NIIJ 7.30 216 iPd 40 46.60 -0.5
S 42 05.20
KAKJ 7.78 206 P 40 50.40 -3.2X
S 42 11.00
MAT 8.23 217 iPd 40 59.00 -0.8
eS 42 27.00
CHJJ 8.34 211 P 40 59.30 -1.9
S 42 27.80
MTMJ 8.38 219 iPd 41 01.60 -0.3
eS 42 33.20
IIDJ 9.26 215 eP 41 12.80 -1.0
eS 42 53.70
TSRJ 10.09 223 P 41 24.70 -0.3
MDJ 10.72 282 ePd 41 34.10 0.7
1.2s 530.00nm 6.3mb
PP 41 45.00
S 43 34.00
SS 43 50.00
ScP 50 50.00

SHK 12.61 230 ePd 41 57.80 -0.5
CN2 13.72 279 Pd 42 11.80 -1.0
0.8s 440.00nm 5.9mb
sP 42 45.00
SNY 15.38 272 iPd 42 33.50 -0.5
1.2s 190.00nm 5.2mb
pP 42 43.00
iS 45 22.00
DL2 17.66 263 iPc 43 01.00 -1.4
1.0s 1200.00nm 6.1mb
BJI 21.26 271 iPd 43 39.89 -1.1
2.0s 1470.00nm 6.0mb
iS 47 32.41
SS 48 09.00
eScP 51 08.50
ScS 54 52.50
SMY 21.88 54 eP 43 48.90 1.8
e 44 09.20
e 44 22.90
SSE 22.03 244 Pc 43 49.00 0.3
1.0s 230.00nm 5.5mb
pP 44 12.00 111kmX
TIA 22.03 260 Pd 43 48.40 -0.4
1.0s 640.00nm 5.9mb
pP 44 16.50 142kmX
S 47 44.00
NJ2 23.00 249 Pd 43 58.00 -0.2
1.0s 530.00nm 5.8mb
HHC 24.38 276 iPd 44 12.00 0.4
0.8s 220.00nm 5.6mb
S 48 20.00
TIY 24.81 268 iPd 44 16.50 0.9
1.0s 340.00nm 5.7mb
BTO 25.57 276 iPc 44 23.00 0.2
1.0s 750.00nm 6.1mb
S 48 37.00
WHN 27.00 252 iPd 44 36.00 0.3
0.8s 640.00nm 6.2mb
pP 44 59.50 107kmX
S 49 02.00
ADK 27.36 58 ePc 44 38.00 -0.8
1.1s 198.80nm 5.6mb
epP 45 01.90 109kmX
QZH 27.93 237 Pd 44 45.00 0.8
1.5s 310.00nm 5.7mb
XAN 28.99 263 iPd 44 53.00 -0.7
0.9s 140.00nm 5.6mb
S 49 40.00
LZH 31.75 271 ePd 45 18.47 0.3
1.5s 460.00nm 6.0mb
PP 45 42.00
sP 45 57.00
PP 46 25.00
S 50 17.00
sS 50 59.00
ScP 51 40.00
PcS 52 15.30
ScS 55 38.00
GZH 32.58 242 iPd 45 26.40 1.2
HKC 32.61 240 ePd 45 27.50 1.9
GTA 33.36 279 Pd 45 32.00 -0.1
1.0s 130.00nm 5.7mb
pP 45 55.80 105kmX
sP 46 06.60
PP 46 47.20
PcP 48 10.80
S 50 42.00
ScP 51 45.90
PcS 51 53.00
ScS 55 46.20
BAG 33.58 224 ePd 45 33.70 -0.5
0.9s 352.94nm 6.2mb
CD2 34.33 263 iPd 45 40.40 0.0
S 50 58.00
OCP 34.84 222 eP 45 43.50 -1.3
GYA 34.84 254 iPd 45 44.40 -0.5
1.0s 130.00nm 5.8mb
pP 46 09.40 111kmX
PP 47 03.60
S 51 04.80
ScP 51 47.00
ScS 55 52.80
ANM 35.13 35 eP 45 47.70 0.9
SDN 36.95 51 eP 46 01.10 -1.0
OIZ 37.76 241 Pc 46 11.30 1.9
KMI 38.43 256 iPd 46 15.79 0.5
2.0s 800.00nm 6.3mb

epPd 46 38.31 96kmX
esPc 46 49.40
iS 52 01.43
iSS 52 41.16
eSS 55 10.15
eScS 56 13.59
TTA 39.06 39 ePc 46 20.70 0.8
1.5s 483.30nm 6.1mb
SVW 39.24 42 ePc 46 23.10 1.7
BRW 39.78 26 ePc 46 24.10 -1.5
PDB 40.01 44 eP 46 27.40 -0.2
IMA 40.19 34 iPc 46 29.20 0.0
e 48 32.50
e 52 11.30
WMO 40.36 291 iPd 46 31.64 0.8
2.2s 410.00nm 5.9mb
pP 46 55.50 102kmX
sP 47 11.00
PP 48 10.00
PcP 48 29.50
ScP 52 10.00
PcS 52 21.50
iS 52 30.61
S 52 32.00
sS 53 14.00
eSS 55 49.25
eScS 56 24.84
ScS 56 26.00
RSO 40.68 43 ePc 46 33.50 0.2
KDC 41.10 47 iPc 46 36.70 0.2
1.3s 826.80nm 6.4mb
epP 47 02.40 111kmX
e 48 35.10
SLKM 41.92 42 iP 46 42.30 -1.0
PWA 41.97 41 ePc 46 43.10 -0.5
RND 42.29 38 iP 46 45.90 -0.5
PMR 42.33 41 ePc 46 46.60 0.0
0.8s 172.60nm 5.9mb
e 48 38.50
e 52 18.50
COL 42.65 36 ePc 46 49.55 0.3
eS 53 04.33
esS 53 46.27
FBA 42.65 36 iPc 46 50.10 0.9
TOA 43.66 40 iPc 46 58.90 1.4
KLU 43.87 40 iP 46 59.40 0.2
LSA 44.16 270 Pd 47 03.20 0.7
KKM 44.62 222 ePd 47 06.70 0.9
CHG 45.21 252 iPd 47 11.00 0.7
0.9s 110.29nm 5.7mb
e 47 35.00
CHTO 45.21 252 ePd 47 10.77 0.5
i 47 17.89
epPd 47 34.44 100kmX
esPd 47 43.21
TSM 45.37 219 ePd 47 12.50 1.0
BALM 45.65 41 iP 47 13.70 0.3
ipP 47 27.80 53kmX
SHL 45.97 265 iP 47 15.50 -1.0
eS 53 49.00
NST 46.57 248 eP 47 25.80 4.8X
INK 47.81 30 ePc 47 29.20 -1.0
0.9s 331.00nm 6.2mb
KHT 48.24 248 ePd 47 34.90 0.8
GUN 49.00 272 Pd 47 40.00 -0.3
NNT 49.05 245 iPd 47 41.70 1.4
KKK 49.51 272 Pd 47 43.20 -0.8
PKI 49.54 272 Pd 47 43.40 -1.0
DMN 49.73 272 Pd 47 45.40 -0.4
GKN 49.85 273 Pd 47 46.00 -0.6
MBC 49.88 18 ePc 47 44.20 -1.8
1.0s 83.00nm 5.7mb
SIT 50.25 44 ePc 47 50.70 1.7
1.4s 388.70nm 6.2mb
PMG 52.52 177 eP 48 05.00 -1.5
SNG 52.54 240 eP 48 07.20 0.5
1.1s 189.87nm 6.0mb
IPM 54.29 237 ePd 48 20.10 0.4
1.0s 73.40nm 5.7mb
NDI 54.86 278 iPd 48 23.00 -0.7
1.0s 295.00nm 6.3mb
KBS 54.89 350 eP 48 22.80 -0.5
KGM 54.95 233 ePc 48 25.40 1.0
MTN 57.17 195 eP 48 39.10 -1.0
0.8s 297.00nm 6.4mb
YKA 57.30 33 eP 48 40.00 -0.6
1.0s 117.50nm 5.9mb

10h																				
TRT	58.36	218	iPd	48	48.50	0.0	DZM	68.15	158	iPc	49	54.20	1.3	BAR	74.27	60	eP	50	29.00	-0.5
	0.9s	122.70nm				6.0mb	MHC	68.16	59	iPc	49	52.90	-0.1	CMS	74.44	179	eP	50	31.00	0.9
KEV	58.41	339	iP	48	49.20	0.9	LRM	68.17	47	iPc	49	53.00	-0.1				e	50	56.50	
	0.8s	249.40nm				6.3mb	ARN	68.22	59	eP	49	53.30	0.0	BHD	74.49	301	eP	50	31.00	0.3
DAG	59.73	356	iPd	48	55.00	-2.3			eP	50	19.00	101kmX					eS	59	54.00	
	0.8s	244.78nm				6.4mb	UPP	68.31	334	iPc	49	52.00	-1.3				ePS	00	30.00	
KSI	59.97	230	ePc	49	01.00	1.4			0.9s	700.00nm		6.6mb	KAS	75.12	313	eP	50	36.00	1.7	
			e	50	20.00		CMB	68.51	58	ePc	49	54.38	-0.7	KRA	75.14	327	ePc	50	34.30	0.2
SOD	60.09	337	iP	48	57.70	-2.2	PRS	68.95	60	iPc	49	57.91	0.1		0.8s	283.00nm				6.2mb
PGC	60.47	50	eP	49	02.00	-0.7				ipPc	50	23.82	102kmX				i	51	02.30	
TRO	60.53	341	eP	49	01.50	-1.4	LLA	69.04	59	iPc	49	58.63	0.3	GLA	75.18	59	iPc	50	35.00	0.3
HYB	60.72	267	iPd	49	03.50	-1.4				ipPc	50	24.95	104kmX	CFR	75.21	319	eP	50	25.00	-9.6X
	1.0s	75.00nm				5.7mb	HPI	69.18	49	iP	49	59.60	0.2	VRI	75.38	320	eP	50	35.50	-0.1
			e	49	19.00				eP	50	26.30	105kmX	SPC	75.69	326	eP	50	38.00	1.3	
MCW	60.79	49	iPc	49	04.80	-0.2	KVN	69.26	56	ePd	49	59.80	-0.1	BRN	75.76	332	ePc	50	38.00	0.4
QUE	61.33	286	eP	49	08.30	-0.8			eP	50	26.00	103kmX	KSP	75.93	329	iPc	50	38.60	0.0	
	0.8s	19.40nm				5.2mb	NB2	69.27	338	P	49	52.20	-7.1X		1.1s	193.00nm				5.9mb
			e	49	47.00		HFS	69.29	336	eP	49	58.20	-1.2	MLR	76.03	320	iPc	50	40.00	0.6
GMW	61.45	50	iPc	49	08.90	-0.6			0.6s	287.80nm		6.3mb				e	00	09.00		
			pP	49	36.10	110kmX	Z	17s	0.18um			4.4MsZx	GOL	76.14	48	iPc	50	40.20	-0.1	
			e	49	47.00				LR	18	05.00		GLD	76.18	48	ePc	50	40.90	0.4	
BMW	61.80	52	ePc	49	12.00	0.1	PR1	69.52	59	iPc	50	01.84	0.5		1.3s	160.92nm				5.7mb
			pP	49	38.20	106kmX	RMQ	69.56	176	eP	50	02.00	0.6	EDR	76.34	342	ePc	50	40.60	-0.2
			e	49	49.20				e	50	20.00			1.0s	239.00nm					6.0mb
RMW	62.05	50	iPc	49	13.40	-0.1	FRI	69.58	58	iPc	50	01.48	-0.1	CMP	76.62	321	ePd	50	44.00	1.4
			pP	49	37.90	98kmX	BONR	69.83	57	iPc	50	03.80	0.3	MRWA	76.72	205	eP	50	43.50	0.4
			e	49	51.30		PKEM	69.9												

GECC2	78.53	329	ePP	53	25.40		RIY	81.15	327	iPc	51	34.00		DUI	84.16	325	Pc	51	22.70	0.0
	0.5s	16.70nm	e(P)	50	52.40	-0.7	OGA	81.17	330	iPc	51	06.50	-0.5	VLI	84.20	316	eP	51	21.50	-1.3
WET	78.59	330	iPc	50	53.90	0.6		1.2s	165.00nm			5.7mb		VLS	84.21	319	eP	51	23.00	0.1
	1.1s	231.00nm			5.9mb		CDF	81.17	333	P	51	07.14	-0.1	BGF	84.24	334	iPc	51	22.90	0.0
GRF	78.73	331	iPc	50	54.80	0.7	NKY	81.26	323	iPc	51	07.50	-0.3		0.7s	33.60nm			5.4mb	
	1.2s	192.00nm			5.8mb		LIBD	81.29	332	P	51	07.82	0.1	CKI	84.26	330	P	51	22.10	-0.9
		epP	51	23.00	110kmX		SLE	81.32	332	ePc	51	07.60	-0.3	BNI	84.29	331	Pc	51	23.20	-0.2
GRFO	78.73	331	ePc	50	53.41	-0.6	PAIG	81.35	318	eP	51	07.02	-1.1	AZI	84.32	326	P	51	23.30	0.0
ANMO	78.90	52	ePc	50	56.26	0.7	ECH	81.38	333	P	51	07.99	-0.2	SDI	84.40	325	Pc	51	23.30	-0.5
		epPd	51	19.93	90kmX		FEL	81.39	332	P	51	08.16	-0.2	VVO	84.50	45	iPd	51	24.20	-0.2
		esPd	51	32.18			VVI	81.39	328	P	51	07.50	-0.8	PLDF	84.52	334	P	51	24.73	0.3
ALO	78.90	52	iPc	50	56.00	0.4	BRY	81.39	323	iPc	51	08.06	-0.5	AGO	84.60	334	P	51	25.26	0.5
	1.0s	49.50nm			5.3mb		TTG	81.45	322	iPc	51	08.76	0.2	ORI	84.61	323	P	51	24.90	0.0
		epP	51	23.00	104kmX		ECB	81.50	343	eP	51	09.30	0.6	CCM	84.62	41	iPc	51	24.94	0.0
BNS	79.00	334	iPc	50	55.50	0.0	ECP	81.59	342	eP	51	09.80	0.7			iSKS	01	36.27		
	1.3s	163.00nm			5.7mb			0.7s	309.00nm			6.3mb				eS	01	42.89		
		ic	51	23.30			ZLA	81.60	332	ePd	51	09.40	0.0	MAF	84.63	334	iPc	51	25.40	0.5
KMR	79.02	329	eP	50	55.00	-0.7	CTI	81.63	329	Pc	51	08.50	-1.2	BST	84.64	339	P	51	25.73	0.9
		iP	50	56.40			OSS	81.65	330	ePc	51	10.30	0.5	TCF	84.68	335	iPc	51	25.40	0.2
		ipP	51	24.60	116kmX		ACO	81.68	47	iPd	51	10.50	0.5		0.7s	29.75nm			5.3mb	
BEO	79.03	323	iP	50	55.60	-0.1	MOF	81.71	332	P	51	09.77	-0.2	RDP	84.81	326	P	51	25.60	-0.3
TNS	79.22	333	iPc	50	56.10	-0.7	BDV	81.76	322	iPc	51	09.96	-0.3	PYM	84.91	334	P	51	26.88	0.5
MUN	79.23	204	eP	50	57.00	0.2	VITF	81.77	333	P	51	10.03	-0.2	CSI	84.92	322	P	51	26.80	0.4
	1.0s	50.00nm			5.3mb		LIT	81.79	319	eP	51	09.38	-1.1	LSF	84.93	335	iPc	51	26.70	0.3
ALN	79.44	317	eP	50	57.82	-0.2	OHR	81.79	320	ePc	51	10.70	0.2	TPT	84.93	116	iP	51	29.40	2.8
RDO	79.50	318	eP	50	59.10	0.7		0.9s	138.00nm			5.8mb			1.2s	25.00nm			5.0mb	
ENN	79.57	335	iPc	50	58.10	-0.4	ULC	81.83	322	iPc	51	10.64	0.0	MGR	84.95	323	P	51	25.60	-0.9
	0.9s	75.00nm			5.5mb		HAU	81.84	333	iPc	51	10.40	-0.2	ROI	84.96	322	P	51	26.80	0.1
		e	51	27.00				0.9s	45.85nm			5.3mb		SBF	85.06	330	iPc	51	26.80	-0.3
KHL	79.58	313	iP	50	59.00	0.0	Z	20s	0.20um			4.5msz		FVM	85.06	40	iPc	51	27.10	0.0
MEM	79.68	335	iPc	50	59.05	-0.1	BSF	81.84	333	iPc	51	10.20	-0.5		0.9s	88.98nm			5.7mb	
HR1	79.75	306	iPc	51	02.90	2.9X		0.9s	27.85nm			5.1mb		MFF	85.11	336	iPc	51	28.00	0.7
BHG	79.77	329	iPc	51	00.70	1.0	LLS	81.91	331	ePc	51	11.50	0.3		1.0s	126.00nm			5.8mb	
	0.7s	117.00nm			5.8mb		BBS	81.91	332	P	51	10.96	-0.1	RUV	85.23	116	iP	51	30.60	2.5X
NWAO	79.82	203	eP	51	00.50	0.5	VDL	82.07	330	ePd	51	12.40	0.4		1.2s	40.00nm			5.3mb	
	0.8s	33.00nm			5.2mb		LOMF	82.25	332	P	51	12.92	0.1	LBL	85.29	334	P	51	29.13	0.8
		e	51	26.20			PRNI	82.28	305	iPc	51	14.10	0.9	CZI	85.44	322	P	51	27.80	-1.2
FUR	79.99	330	iPc	51	01.40	0.5	SAL	82.42	329	P	51	13.30	-0.3	FRF	85.60	331	iPc	51	29.60	-0.1
	1.1s	182.00nm			5.8mb			0.1s	35.20nm			6.2mb			1.2s	104.15nm			5.7mb	
FUR	79.99	330	iPc	51	01.50	0.6	TMA	82.61	331	ePc	51	14.40	-0.4	PGF	85.61	329	iPc	51	29.60	-0.3
	1.2s	164.00nm			5.7mb		VAL	82.62	344	iP	51	14.90	0.4		0.9s	50.80nm			5.5mb	
UCC	80.02	336	P	51	03.50	2.5	AGG	82.71	318	eP	51	13.82	-1.4	GRI	85.64	322	P	51	30.12	0.1
MMB	80.04	319	iPc	51	02.00	0.7	VAI	82.85	330	Pc	51	15.10	-0.7		0.2s	13.60nm			5.6mb	
PTJ	80.07	326	eP	51	01.10	-0.3	MMK	82.98	331	ePc	51	17.10	0.3	RJF	85.78	335	iPc	51	31.20	0.6
DMU	80.09	343	iPc	51	01.60	0.3	RSM	83.10	327	P	51	17.80	0.7		1.1s	95.25nm			5.7mb	
	1.2s	468.00nm			6.2mb		DIX	83.15	331	ePc	51	18.10	0.4	Z	21s	0.22um			4.5msz	
EZN	80.11	316	eP	51	01.40	-0.2	FLN	83.25	337	iPc	51	17.60	-0.3	LRG	85.80	331	iPc	51	30.90	0.2
ZAG	80.12	326	iP	51	01.50	-0.1		0.8s	40.30nm			5.4mb			0.9s	153.55nm			6.0mb	
KBA	80.13	328	iPc	51	02.20	0.3	ARV	83.26	327	P	51	17.90	-0.1	Z	20s	0.13um			4.3msz	
	0.6s	50.80nm			5.5mb		LOR	83.29	334	iPc	51	17.90	-0.2	CDR	85.81	331	iPc	51	31.10	0.3
		id	51	02.70				1.2s	162.70nm			5.8mb				e	51	59.40		
KKB	80.13	320	iPc	51	03.00	1.2	LDF	83.31	337	iPc	51	17.80	-0.3	LMR	85.85	331	iPc	51	31.00	0.1
SNF	80.30	335	iP	51	02.23	-0.2		0.7s	18.75nm			5.1mb		CAF	85.95	334	iPc	51	32.40	0.9
WLF	80.46	334	iPc	51	03.57	0.3	EMS	83.32	332	ePc	51	18.60	0.1	ELC	86.19	40	iPc	51	32.90	0.2
SRS	80.47	319	eP	51	03.10	-0.5	ORO	83.34	331	P	51	17.80	-0.7			ipP	52	00.60	105kmX	
LJU	80.52	327	ePc	51	03.50	-0.2	SFI	83.34	328	P	51	19.00	0.7	LFF	86.35	335	iPc	51	34.40	1.0
DOU	80.57	335	Pc	51	03.60	-0.3	KEK	83.37	320	eP	51	18.70	0.1	LPO	86.44	335	iPc	51	34.80	0.9
	1.0s	52.80nm			5.3mb		MEO	83.42	48	iPc	51	18.90	-0.1		1.3s	213.00nm			6.0mb	
		S	00	59.00			PGD	83.43	328	P	51	20.00	0.9	OLY	86.53	43	iPc	51	34.30	-0.2
GWF	80.57	333	P	51	04.07	0.1	LBF	83.51	334	iPc	51	19.10	-0.1			epP	52	01.90	105kmX	
DLF	80.58	343	eP	51	04.80	0.9		1.0s	79.00nm			5.6mb		LST	86.56	41	iP	51	34.90	0.3
WTTA	80.62	330	iPc	51	04.80	0.4	GRC	83.52	335	P	51	19.56	0.4	BNH	86.90	25	iPc	51	36.60	0.5
	1.0s	107.00nm			5.6mb		BOB	83.54	329	Pc	51	19.40	-0.1	GRT	86.92	41	iP	51	36.80	0.5
		i	51	33.10			CRE	83.55	327	Pc	51	19.70	0.1	MLS	88.03	334	P	51	42.44	0.9
		e	53	45.00			SSF	83.59	334	iPc	51	19.60	0.0	EPF	88.20	334	iPc	51	42.40	0.0
VBY	80.67	326	iPc	51	04.50	0.0		0.9s	57.35nm			5.5mb			1.0s	90.00nm			5.8mb	
PLE	80.68	323	iPc	51	05.58	0.8	BRT	83.62	323	P	51	19.90	0.1	PWLA	88.61	41	iPc	51	44.20	-0.2
DCN	80.69	343	iPc	51	04.80	0.3	GRR	83.70	338	iPc	51	20.20	0.1			epP	52	11.80	104kmX	
	1.1s	174.00nm			5.8mb			0.7s	62.85nm			5.7mb				esP	52	22.00		
FVI	80.75	328	P	51	04.10	-0.7	ASS	83.73	327	P	51	20.50	0.0	HRV	88.69	26	ePc	51	44.93	0.2
KNT	80.77	319	eP	51	05.30	0.2	SMF	83.85	334	iPc	51	21.00	0.1			eSKS	02	03.40		
VAY	80.80	320	iPc	51	05.70	0.4	LPL	83.87	332	iPc	51	21.70	0.4	TBR	89.04	28	iPc	51	46.30	-0.1
	1.0s	134.00nm			5.7mb			0.9s	62.25nm			5.5mb				epP	52	15.20	110kmX	
CEY	80.81	327	ePc	51	05.00	-0.3	AVF	83.88	334	iPc	51	21.20	0.2	LVNJ	89.14	29	iPc	51	46.90	0.0
SOH	80.81	319	eP	51	05.18	-0.2	LPG	83.88	332	iPc	51	21.90	0.4	PNJ	89.27	28	iP	51	47.70	0.3
IVA	80.82	322	iPc	51	05.86	0.4		0.9s	65.50nm			5.6mb								

25d 10h

LHS 92.30 36 P 52 02.30 0.7
 TOL 92.41 336 ePc 52 02.26 0.2
 esPd 52 39.34
 LKO 120.71 325 PKP 57 42.16 -1.4
 TIC 123.06 323 PKP 57 47.00 -1.1
 KIC 123.19 322 PKP 57 47.20 -1.1
 LIC 123.44 323 PKP 57 47.80 -1.0
 ZOBO 141.43 56 PKP 58 15.00 -8.4X
 LR 46 38.00

LPB 141.65 56 PKP 58 17.00 -6.6X
 SOB1 145.73 9 iPKPc 58 30.10 -0.1
 e 58 56.90
 SNA 148.17 201 ePKP 58 33.50 1.1
 1.0s 98.00nm
 PDCR 149.19 7 ePKP 58 35.70 0.1
 i 58 39.40
 i 58 44.30
 e 59 08.00
 e 59 44.30

LCCH 150.38 83 iPKPc 58 42.00 5.1X
 ROCH 150.53 81 ePKP 58 43.00 5.5X
 JACH 150.68 81 ePKP 58 43.00 5.5X
 LNV 150.73 84 iPKPc 58 42.80 5.4X
 PEL 150.85 81 iPKPc 58 43.50 5.8X
 0.6s 86.67nm
 TACH 150.93 83 ePKP 58 43.40 5.6X
 SAN 151.03 82 ePKP 58 43.50 5.6X
 PCH 151.22 82 iPKPc 58 44.50 6.2X
 CHCH 151.27 83 ePKPc 58 44.00 5.7X
 RTCB 151.33 77 iPKPc 58 45.00 6.5X

S.D. = 0.8 on 398 of 420 obs.

& OCT 25, 1991 11h 02m 01.50s
 59.239 N 136.224 W
 DEPTH = 10.0km (geophysicist)
 SOUTHEASTERN ALASKA (19)
 <PGC>. ML 3.6 (PGC), 3.1 (AEIC).
 Felt strongly at Pleasant Camp,
 British Columbia. Also felt at
 the U.S. Customs Post on the
 Haines Highway.

PLBC 0.23 342 Pd 02 05.40 -1.0
 WHC 1.61 20 P 02 30.10 0.1
 PNL 1.68 286 eP 02 29.38 -1.7
 S 02 52.78
 HYT 1.72 339 P 02 31.00 -0.7
 YKU 1.82 281 P 02 33.13 0.1
 BCPM 1.88 294 eP 02 33.03 -0.9
 S 02 58.29
 PCA 2.22 295 eP 02 37.80 -1.2
 S 03 06.73
 SIT 2.24 167 P 02 38.37 -0.8
 YAH 3.01 294 eP 02 49.76 -0.5
 YAH 3.01 294 iP 02 49.79 -0.5
 WRG 3.06 288 eP 02 50.69 0.0
 CTGM 3.09 306 eP 02 49.89 -1.4
 CYK 3.29 288 eP 02 52.80 -1.2
 SNH 3.48 289 eP 02 55.32 -1.5
 BALM 3.55 303 eP 02 56.63 -1.3
 TGL 3.65 297 eP 02 57.94 -1.4
 CROM 3.79 297 eP 02 59.93 -1.5
 HMT 4.21 289 eP 03 05.16 -2.0
 KAIM 4.22 283 eP 03 06.23 -1.1
 GLB 4.37 304 eP 03 10.00 0.5
 RAGM 4.42 289 eP 03 08.21 -1.9
 KLU 5.32 299 eP 03 20.67 -2.2
 FID 5.37 291 eP 03 22.76 -0.8
 VZW 5.47 294 eP 03 23.57 -1.5
 TOA 5.67 305 eP 03 27.87 0.0
 GLI 5.69 291 eP 03 25.90 -2.2
 KNIM 5.92 286 eP 03 28.26 -3.0
 INK 9.18 6 P 04 18.50 1.7
 28 obs. associated

? OCT 25, 1991 11h 18m 19.44±4.62s
 23.665 N ±12.9km 122.726 E ±36.5km
 DEPTH = 5.0km (geophysicist)
 TAIWAN REGION (243)

TWD 1.11 292 ePd 18 41.20 0.4
 TWC 1.24 320 iPd 18 42.10 -0.7
 eS 19 00.80
 TWF1 1.35 257 ePd 18 44.60 -0.2
 TATO 1.73 319 iP 18 50.80 0.5
 eS 19 14.40
 TWG 1.74 241 ePc 18 50.40 -0.1

eS 19 13.50
 S.D. = 0.7 on 5 of 5 obs.
 % OCT 25, 1991 11h 18m 51.29±0.57s
 46.650 N ±4.8km 8.564 E ±5.8km
 DEPTH = 10.0km (geophysicist)
 SWITZERLAND (544)

LLS 0.37 53 iPc 18 58.50 -0.4
 TMA 0.58 158 ePd 19 03.50 0.2
 VDL 0.65 104 eP 19 04.50 0.1
 MMK 0.73 215 ePd 19 05.60 -0.2
 DIX 0.98 235 ePc 19 10.00 -0.1
 SLE 1.12 358 eP 19 12.70 0.4
 FEL 1.28 343 ePn 19 15.09 -0.1
 S.D. = 0.4 on 7 of 7 obs.

% OCT 25, 1991 11h 30m 02.04±1.09s
 43.746 N ±9.0km 7.624 E ±9.1km
 DEPTH = 10.0km (geophysicist)
 NEAR SOUTH COAST OF FRANCE (379)
 ML 2.5 (LDG).

SBF 0.18 311 Pg 30 04.80 -1.3
 FRF 0.73 256 Pg 30 16.20 -0.2
 Sg 30 24.70
 LMR 0.91 243 Pg 30 20.00 0.6
 Sg 30 31.60
 LRG 0.96 253 Pg 30 20.60 0.3
 Sg 30 33.10
 PGF 1.56 139 Pn 30 29.60 -0.4
 Sn 30 48.80
 LPG 1.86 341 Pg 30 35.60 1.1
 S.D. = 1.1 on 6 of 6 obs.

OCT 25, 1991 12h 42m 10.57±0.35s
 28.554 S ±4.1km 71.910 W ±9.4km
 DEPTH = 33.0km (normal)
 4.8mb (5 obs.)
 NEAR COAST OF CENTRAL CHILE (135)

JACH 4.27 165 iPc 43 16.40 1.4
 IHA 4.46 177 eP 43 16.00 -1.7
 e(S) 44 04.00
 ROCH 4.47 170 iPc 43 18.00 0.0
 iS 44 07.00
 PEL 4.69 167 iPc 43 21.40 0.4
 iS 44 12.60
 LCCH 4.91 177 iPc 43 22.30 -1.7
 ANT 5.01 16 eP 43 23.00 -2.5
 TACH 5.15 171 iPc 43 27.20 -0.2
 PCH 5.19 167 iP 43 28.50 0.4
 iS 44 27.50
 LNV 5.40 176 iPc 43 28.90 -2.0
 iS 44 29.00
 CHCH 5.47 169 iPc 43 31.50 -0.4
 CNCB 12.24 18 P 45 05.00 -1.0
 LPB 12.47 17 P 45 08.00 -1.0
 ZOBO 12.72 17 P 45 10.00 -2.4

Z 20s 0.28um
 i 45 15.40
 LR 49 14.00
 PPD 19.71 75 eP 46 41.20 0.9
 e 46 43.60
 e 46 57.50
 VAO 23.11 82 eP 47 16.40 1.7
 BAO 25.56 65 ePd 47 39.50 1.1
 ELC 67.48 345 P 53 04.30 -0.9
 FVM 68.42 344 P 53 10.40 -0.8
 0.8s 37.88nm 5.5mb
 ALQ 71.09 330 eP 53 28.00 0.3
 1.2s 8.59nm 4.7mb
 ANMO 71.09 330 P 53 28.10 0.4
 1.1s 8.54nm 4.7mb

LIC 73.01 73 P 53 40.50 1.2
 KIC 73.33 73 P 53 41.40 0.2
 LKO 74.33 70 P 53 47.00 0.0
 PEC 75.45 322 P 53 53.00 -0.1
 MSU 76.60 329 P 54 00.70 1.0
 DAU 77.74 330 P 54 07.40 1.3
 RSSD 78.07 337 P 54 08.20 0.5
 0.9s 11.15nm 4.9mb
 DUG 78.25 329 P 54 09.60 0.9
 TNP 78.69 325 P 54 12.20 1.0
 BW06 78.98 333 P 54 12.80 0.0
 0.8s 4.76nm 4.5mb
 HPI 81.22 331 P 54 25.80 1.0

ORV 81.99 324 P 54 29.50 1.0
 DPW 86.69 331 P 54 52.20 0.1
 HYB 150.71 106 ePKP 02 02.00 6.2X
 MAT 153.47 295 ePKP 02 07.00 7.8X
 S.D. = 1.2 on 33 of 35 obs.

OCT 25, 1991 13h 25m 02.66±0.48s
 31.479 S ±7.5km 177.773 W ±9.8km
 DEPTH = 33.0km (normal)
 5.1mb (5 obs.) 4.9msz (1 obs.)
 KERMADEC ISLANDS REGION (177)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 20S, 33C
 Centroid Location:
 Origin Time 13:25: 8.8 0.7
 Lat 31.21S 0.08 Lon 177.64W 0.07
 Dep 35.2 5.3 Half-duration 1.9
 Moment Tensor: Scale 10**16 Nm
 Mrr= 8.31 0.49 Mtt=-0.08 0.79
 Mff=-8.23 0.72 Mrt= 3.54 1.32
 Mrf= 8.63 1.76 Mtf=-3.43 0.59
 Principal Axes:
 T Val= 12.31 P1g=67 Azm=295
 N 1.16 1 201
 P -13.47 23 111
 Best Double Couple: Mo=1.3*10**17
 NP1: Strike=198 Dip=22 Slip= 86
 NP2: 22 68 92

HBZ 6.91 207 P 26 44.80 0.6
 PUZ 7.34 205 eP 26 49.90 -0.4
 eS 28 15.70
 KUZ 7.53 224 eP 26 59.80 6.9X
 NOZ 7.91 205 eP 26 57.30 -0.9
 WCZ 7.93 234 eP 27 04.80 6.3X
 URZ 7.96 210 P 26 57.60 -1.3
 S 28 29.40
 RUZ 9.48 215 eP 27 20.00 0.1
 MNG 10.62 209 eP 27 29.20 -6.4X
 eS 29 28.00
 WEL 11.48 209 P 27 51.00 3.8X
 S 29 48.00
 TCW 11.63 211 eP 27 42.60 -6.7X
 THZ 12.70 213 eP 27 58.30 -5.3X
 eS 30 17.70
 EWZ 15.01 214 eP 28 33.40 -0.5
 ODZ 16.29 210 eP 28 50.30 -0.1
 eS 31 38.40
 DZW 16.91 300 iPd 28 59.10 0.7
 TUZ 17.45 210 eP 29 07.70 2.8
 BRS 25.93 271 iPd 30 35.00 1.2
 1.0s 10.50nm 4.4mb
 eS 35 21.00

ARMA 26.23 264 eP 30 38.50 2.0
 1.0s 25.00nm 4.8mb
 RMO 29.63 271 e(P) 31 08.00 0.7
 CMS 30.95 260 iPc 31 19.80 0.9
 BFD 33.09 249 eP 31 36.00 -1.5
 OLP 33.46 269 eP 31 41.00 0.1
 CTAO 34.18 281 iPc 31 42.00 -5.1X
 1.3s 181.39nm 5.8mb
 Z 20s 7.01um 5.4mszX
 i 31 56.20
 eS 37 12.00
 OIS 39.60 275 eP 32 31.80 -1.0
 ASPA 43.26 268 iPc 33 02.10 -0.8
 1.7s 56.40nm 5.0mb
 Z 20s 1.70um 4.9msz

eS 39 24.70
 WR2 44.32 273 iPd 33 09.60 -1.9
 0.3s 26.00nm 5.5mb X
 WAR8 48.55 261 eP 33 42.00 -2.8X
 CSY 54.29 208 eP 34 29.00 1.6
 0.6s 26.70nm 5.4mb
 MAW 71.37 201 eP 36 24.00 3.2X
 SNA 78.45 178 e(P) 37 05.00 3.8X
 1.0s 60.00nm 5.6mb X
 SBB 86.66 46 eP 37 44.00 -0.3
 ISA 86.93 45 eP 37 46.00 0.5
 CLC 87.56 45 eP 37 50.00 1.4
 GSC 87.70 46 eP 37 51.00 1.7
 MAIO 132.80 292 ePKP 44 15.00 -1.1
 KEV 139.21 347 iPKP 44 21.10 -5.9X
 SOD 141.28 345 ePKP 44 39.00 8.2X
 BHD 144.52 284 ePKP 44 36.50 -0.9
 KAF 145.63 340 iPKP 44 36.30 -2.1

0.7s 18.30nm
MSL 145.88 290 ePKPd 44 39.00 -0.7
OBN 146.15 324 ePKPc 44 38.80 -0.7
Z 1.4s 1070.00nm
E 20s 2.30um 6.0MszX
E 20s 1.80um
NUR 147.39 339 iPKP 44 42.40 1.1
UPP 149.80 345 iPKP 44 48.00 2.9X
NB2 149.84 351 PKP 44 44.20 -1.0
1.3s 53.80nm
HFS 150.34 348 ePKP 44 49.50 3.6X
1.6s 125.80nm
KONO 151.40 352 iPKP 44 53.10 5.6X
DSI 151.80 279 ePKP 44 55.00 6.0X
BHL 151.83 284 PKP 44 56.00 6.9X
JVI 151.87 280 iPKPc 44 55.90 6.7X
PRNI 151.92 276 iPKPc 44 56.10 6.9X
KAS 152.90 300 ePKP 44 55.00 4.6X
KIC 154.17 164 PKP 45 03.00 10.2X
KSP 158.02 336 ePKP 45 06.40 9.7X
e 45 24.00
CLL 158.65 341 ePKPd 44 57.00 -0.4
e 45 31.00
e 45 47.00
BRG 158.76 339 ePKP 44 57.10 -0.4
e 45 32.00
ZST 159.83 330 e(PKP) 45 00.50 1.7
KHC 160.40 337 ePKP 45 07.60 8.2X
e 45 40.00
GEC2 160.60 337 ePKPd 44 58.50 -1.2
1.3s 1.13nm
S.D. = 1.2 on 34 of 57 obs.
OCT 25, 1991 13h 25m 39.14 ± 0.61s
48.787 N ± 10.6km 154.863 E ± 12.1km
DEPTH = 33.0km (normol)
4.7mb (19 obs.) 4.5Msz (1 obs.)
KURIL ISLANDS (221)
KUSJ 9.07 235 eP 27 50.00 -0.7
eS 29 26.30
ASAJ 9.64 246 eP 28 03.80 5.3X
HOOJ 10.33 236 eP 28 08.00 0.0
eS 29 59.40
MAT 17.27 231 eP 29 39.00 -0.2
FBA 33.84 40 eP 32 19.60 -0.4
1.0s 6.00nm 4.5mb
INK 39.30 34 eP 33 06.00 0.0
CHG 53.74 257 eP 35 01.20 0.9
0.9s 13.24nm 4.9mb
KKN 56.48 275 P 35 20.80 0.4
PKI 56.54 275 P 35 21.80 0.8
DMN 56.71 275 P 35 21.80 -0.4
GKN 56.76 276 P 35 21.80 -0.6
NB2 66.67 342 P 36 25.80 -2.5
0.7s 1.20nm 4.1mb
HFS 66.95 340 eP 36 27.00 -3.0X
0.4s 1.00nm 4.3mb
HYB 68.13 272 eP 36 38.00 0.0
ASPA 74.52 200 iPc 37 16.10 0.0
0.7s 5.00nm 4.6mb
EKA 74.63 347 P 37 16.00 -0.3
0.8s 2.60nm 4.3mb
TUL 74.92 52 eP 37 03.10 -15.3X
0.8s 38.20nm
Z 18s 0.23um 4.5Msz
N 20s 0.20um
E 20s 0.10um
e 37 04.90
LR 13 21.00
GEC2 77.13 335 ePKPc 37 29.80 -0.9
0.8s 0.72nm 3.7mb
FLN 80.52 344 eP 37 48.70 -0.3
0.9s 11.45nm 4.9mb
GRR 80.95 344 eP 37 51.30 0.0
0.9s 18.00nm 5.1mb
LOR 81.07 340 eP 37 51.70 -0.3
0.7s 4.95nm 4.6mb
LBF 81.31 340 eP 37 53.00 -0.3
0.7s 3.30nm 4.5mb
SSF 81.34 341 eP 37 53.40 0.0
0.8s 4.70nm 4.5mb
AVF 81.63 341 eP 37 55.10 0.3
0.7s 4.40nm 4.6mb
SMF 81.66 340 eP 37 55.10 0.1
1.1s 9.75nm 4.7mb
LPL 82.04 338 eP 37 58.10 0.8

0.6s 6.30nm 4.8mb
LPG 82.06 338 eP 37 58.30 0.8
0.6s 5.85nm 4.8mb
MAF 82.34 341 eP 37 59.30 0.7
0.8s 6.70nm 4.7mb
TCF 82.36 341 eP 37 59.20 0.5
MFF 82.53 343 eP 37 59.90 0.3
LSF 82.53 342 eP 37 59.90 0.3
RJF 83.44 341 eP 38 04.50 0.2
1.1s 14.65nm 5.0mb
CAF 83.68 341 eP 38 06.20 0.6
LMR 84.14 337 eP 38 08.20 0.4
0.7s 6.60nm 4.9mb
PGF 84.21 335 eP 38 08.10 -0.3
S.D. = 0.7 on 32 of 35 obs.
OCT 25, 1991 13h 48m 21.59 ± 0.18s
13.399 N ± 3.1km 120.437 E ± 4.7km
DEPTH = 22.7km (10 depth phases)
5.2mb (44 obs.) 5.1Msz (13 obs.)
MINDORO, PHILIPPINE ISLANDS (250)
OCP 1.38 27 eP 48 47.00 1.5
BAG 3.00 3 ePc 49 11.00 2.1
KKM 8.41 210 ePd 50 36.50 11.3X
TSM 9.39 196 iPc 50 39.50 0.8
QIZ 11.61 300 P 51 07.00 -2.1
1.1s 52.00nm 5.7mb
N 16s 3.24um
E 17s 5.48um
QZH 11.61 352 eP 51 14.00 4.9X
Z 18s 6.65um
N 16s 4.33um
eS 53 20.00
SSE 17.63 2 eP 52 36.30 8.9X
1.2s 17.00nm 4.1mb X
Z 20s 4.60um 4.0Msz
N 17s 3.30um
E 15s 1.70um
pP 52 44.00
S 55 44.00
sS 55 56.00
WHN 17.96 343 eP 52 34.00 2.4
Z 20s 7.50um
N 17s 4.60um
E 13s 3.56um
pP 52 42.50
GYA 18.32 317 P 52 36.60 0.4
1.2s 14.00nm 4.0mb X
N 15s 2.61um
E 15s 5.00um
NJ2 18.62 356 Pc 52 40.00 0.3
Z 19s 2.54um
N 14s 1.83um
E 12s 1.23um
S 56 12.00
NST 19.78 279 eP 52 57.50 4.1X
NNT 20.19 270 iPd 52 57.20 -0.5
KMI 20.35 308 Pc 53 03.50 4.0X
1.8s 70.00nm 4.7mb
Z 20s 5.10um 4.9Msz
N 10s 0.60um
E 10s 1.00um
sP 53 12.50
KGM 20.36 238 eP 53 00.50 1.0
SNG 20.45 254 eP 53 00.50 0.1
e 56 50.20
IPM 21.06 247 ePd 53 06.90 0.2
1.3s 70.80nm 4.9mb
KHT 21.23 276 eP 53 07.80 -0.6
CHTO 21.33 287 iP 53 09.00 -0.4
1.1s 30.33nm 4.6mb
TRT 22.35 201 ePd 53 21.90 2.3
TIA 22.91 353 eP 53 26.90 1.9
1.0s 11.00nm 4.3mb
Z 20s 3.29um 4.8Msz
N 17s 2.97um
E 15s 2.08um
S 57 31.00
XAN 23.06 335 P 53 27.30 0.8
1.0s 11.00nm 4.3mb
N 12s 1.59um
E 12s 2.55um
pP 53 33.00 20km
sP 53 35.50
S 57 38.00
sS 57 50.00

CD2 23.23 321 eP 53 28.00 -0.2
Z 18s 6.36um 5.1Msz
E 12s 3.24um
KUPT 23.61 172 eP 53 41.00 9.1X
TIY 25.24 345 Pd 53 48.60 1.0
Z 18s 4.75um 5.0Msz
N 16s 3.34um
S 58 11.00
DL2 25.43 2 eP 53 50.00 0.8
N 16s 2.70um
E 18s 1.80um
S 58 11.00
BJI 26.80 353 eP 54 01.00 -0.9
0.9s 18.00nm 4.7mb
Z 16s 2.92um 4.9MszX
E 14s 1.57um
LZH 27.07 329 eP 54 04.50 -0.1
1.5s 51.00nm 4.9mb
Z 18s 7.14um 5.3Msz
N 14s 4.12um
E 15s 4.58um
pP 54 17.00 49kmX
sP 54 21.50
PP 54 47.00
sS 58 50.00
MAT 28.02 32 (P) 54 29.00 15.9X
MTN 28.15 157 eP 54 14.00 -0.3
HHC 28.43 346 P 54 17.20 0.4
1.0s 21.00nm 4.8mb
Z 18s 4.59um 5.1Msz
N 16s 2.67um
E 17s 2.24um
PP 55 06.00
S 59 00.00
SNY 28.46 5 eP 54 15.20 -1.7
1.2s 23.00nm 4.8mb
Z 19s 2.76um 4.9Msz
N 17s 2.67um
E 16s 1.33um
pP 54 21.00 20km
BTO 28.59 343 eP 54 18.50 0.2
Z 17s 4.14um 5.1MszX
N 17s 3.61um
E 15s 1.86um
eS 59 05.00
SHL 29.44 299 eP 54 23.00 -3.2X
eS 59 17.50
KNA 30.11 164 eP 54 31.40 -0.6
CN2 30.60 7 eP 54 34.00 -2.1
1.0s 6.80nm 4.4mb
Z 18s 8.74um 5.5Msz
N 15s 1.70um
E 15s 0.91um
epP 54 42.00 28km
S 59 31.00
LSA 31.57 306 P 54 45.00 -0.4
GTA 31.66 329 eP 54 45.80 0.2
0.8s 19.00nm 5.0mb
Z 18s 8.33um 5.5Msz
E 17s 6.91um
pP 54 55.00 32km
sP 54 59.60
PP 55 52.80
pCP 57 38.40
S 59 51.00
sS 00 06.00
MDJ 32.08 12 eP 54 48.60 -0.4
Z 20s 1.87um 4.8Msz
MBL 34.35 181 eP 55 09.00 0.1
PMG 34.89 129 eP 55 12.00 -1.7
GUN 35.27 300 P 55 16.60 -0.7
PKI 35.57 299 P 55 18.40 -1.4
KKN 35.74 299 P 55 19.80 -1.4
DMN 35.84 299 P 55 20.80 -1.2
WR2 35.86 157 iPd 55 21.00 -0.9
0.8s 130.20nm 5.9mb
i 55 28.20 24km
iS 00 55.70
GKN 36.35 299 P 55 24.80 -1.4
OIS 38.65 150 iPc 55 44.30 -1.0
0.8s 74.00nm 5.5mb
ASPA 39.12 160 iPc 55 49.10 -0.2
0.7s 167.90nm 5.9mb
Z 20s 0.80um 4.5Msz
iS 01 44.80
WARB 39.80 171 eP 55 55.00 0.1
0.6s 34.00nm 5.2mb

25d 13h

HYB	40.52	281	eP	56	01.00	0.0
			eS	02	06.00	
WMO	41.29	324	P	56	09.00	2.0
	Z	16s	5.10um			5.5Mszx
	N	15s	4.79um			
			pP	56	14.00	17km
			PP	57	48.00	
			PcP	58	10.00	
			PcS	01	56.00	
			S	02	22.00	
			SS	05	26.00	
			SCS	06	08.00	
CTAO	41.86	142	iPc	56	13.00	1.1
	1.5s	86.02nm				5.3mb
BAL	43.90	185	eP	56	30.00	1.7
COOL	44.03	179	eP	56	29.50	0.1
	0.4s	7.00nm				4.8mb
KLB	44.81	183	eP	56	37.00	1.4
	0.5s	14.00nm				5.1mb
POO	44.99	283	eP	56	40.90	3.5X
MUN	45.30	185	eP	56	39.00	-0.5
OLP	45.99	150	iPd	56	45.20	0.2
	0.9s	189.00nm				6.0mb
NWAO	46.16	184	eP	56	46.00	-0.4
	0.5s	16.00nm				5.2mb
KSH	46.88	312	eP	56	58.00	5.8X
			eS	03	46.00	
RMO	48.27	145	eP	57	03.00	-0.1
CMS	50.85	152	eP	57	23.00	0.3
ADE	51.13	161	iPc	57	24.50	-0.4
BRS	51.27	142	iPc	57	25.50	-0.6
	0.8s	13.50nm				4.9mb
			i	57	32.50	23km
			i	57	42.60	
QUE	51.94	298	eP	57	30.80	-0.6
ARMA	52.91	146	eP	57	38.80	0.3
	0.8s	18.00nm				5.1mb
BFD	54.44	158	eP	57	44.00	-5.4X
CNB	55.66	151	eP	57	58.00	-0.5
TOO	55.90	156	eP	58	08.00	-0.1
DZM	57.25	127	iPc	58	09.60	-0.5
MAIO	58.83	304	iPd	58	20.40	-0.7
			e	06	22.00	
SHI	64.41	297	eP	58	58.00	-0.8
BRW	75.10	19	eP	00	03.50	0.3
TTA	75.24	28	eP	00	04.30	0.0
OBN	75.61	324	eP	00	05.00	-1.4
	1.0s	*****nm				8.3mb X
IMA	76.19	25	eP	00	09.10	-0.6
	0.9s	13.80nm				5.0mb
HRI	78.40	302	eP	00	27.10	4.6X
PMR	78.54	29	eP	00	21.70	-0.8
	0.8s	7.60nm				4.8mb
FBA	78.73	26	ePc	00	22.70	-0.8
	1.1s	16.40nm				5.0mb
DSI	78.96	300	eP	00	26.50	1.0
SOD	79.20	337	eP	00	11.00	-15.1X
MBH	79.67	298	eP	00	31.30	1.8
CSY	79.80	184	eP	00	29.00	-0.1
	0.5s	22.10nm				5.4mb
TOA	79.86	28	eP	00	30.20	0.4
KAF	80.20	332	iP	00	30.70	-0.8
	0.6s	11.10nm				5.1mb
NUR	81.28	330	eP	00	36.80	-0.4
VRI	83.07	315	iPc	00	49.00	2.1
INK	83.47	21	eP	00	47.00	-1.4
MLR	83.68	315	ePd	00	51.00	0.8
MBC	83.89	12	ePc	00	49.50	-1.0
	1.0s	9.00nm				4.9mb
MOR7	84.03	337	iP	00	36.64	-14.7X
PVL	84.62	313	eP	00	57.00	2.3
UPP	84.84	330	iP	00	54.20	-1.2
RZN	85.42	312	iPd	01	00.00	1.0
PGB	85.61	313	iPd	01	01.00	1.2
MMB	86.16	312	iP	01	03.00	0.5

SKO		0.9 s	23.10 nm			5.5 mb
KSP		87.71 313 eP	01 10.00			0.0
		88.44 322 iP	01 13.20			-0.1
		0.9 s	20.00 nm			5.4 mb
PRU		89.78 322 eP	01 18.00			-1.7
	Z	17 s	1.30 um			5.4 Msz
	N	17 s	0.60 um			
	E	17 s	1.20 um			
		S	12 08.00			
BRG		89.82 323 iP	01 19.70			-0.1
		1.0 s	19.00 nm			5.3 mb
		e	01 57.00			146 kmX
CLL		90.21 323 iPc	01 21.30			-0.3
		1.2 s	14.00 nm			5.1 mb
		e	02 06.00			178 kmX
KHC		90.67 321 eP	01 24.70			0.8
	Z	18 s	1.20 um			5.4 Msz
	N	18 s	0.10 um			
	E	18 s	1.30 um			
		e	02 00.00			137 kmX
		e	03 20.70			
		S	12 16.00			
GEC2		90.70 321 ePc	01 23.00			-1.1
		0.9 s	6.69 nm			4.9 mb
		eP	01 30.20			22 km
MAW		90.73 199 eP	01 25.00			1.5
BHG		91.63 320 eP	01 28.60			0.3
		1.2 s	25.00 nm			5.5 mb
GRF		91.89 322 iPc	01 30.20			0.8
		1.0 s	20.00 nm			5.5 mb
	Z	18 s	1.40 um			5.4 Msz
CZI		92.39 311 P	01 31.90			0.0
WTTA		92.58 320 iPc	01 31.70			-1.2
		1.0 s	25.90 nm			5.6 mb
		i	01 39.00			23 km
OGA		93.12 320 eP	01 35.50			0.1
		0.8 s	16.00 nm			5.5 mb
CDF		94.78 322 eP	01 42.90			0.0
		0.9 s	9.85 nm			5.2 mb
BSF		95.33 322 eP	01 45.20			-0.2
HAU		95.52 322 eP	01 45.90			-0.3
DOU		95.57 324 P	01 47.00			0.7
PGF		96.18 316 eP	01 49.50			0.1
		0.9 s	13.10 nm			5.4 mb
LPG		96.39 320 eP	01 50.80			0.2
		0.9 s	8.20 nm			5.2 mb
LPL		96.39 320 eP	01 50.80			0.3
		1.0 s	15.00 nm			5.4 mb
TIC		122.30 287 PKP	07 17.00			-0.4
LIC		122.45 286 PKP	07 17.40			-0.3
LPB		171.18 112 (PKP)	08 34.00			3.7X
CNCB		171.19 114 PKP	08 34.00			3.5X
ZOBO		171.24 110 PKP	08 32.00			1.4
		LR	11 12.00			
S.D. = 1.0 on 112 of 128 obs.						
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%	OCT 25, 1991	13h 50m	15.56 ± 0.52 s			
	40.547 N ± 4.4 km		15.653 E ± 4.7 km			
	DEPTH = 10.0 km	(geophysicist)				
SOUTHERN ITALY						(390)
SGO	0.26 272 P	50 21.50	0.4			
	eSg	50 25.50				
MGR	0.42 190 Pc	50 23.60	-0.5			
	eSg	50 29.40				
MMN	0.71 158 P	50 29.20	-0.3			
	eSg	50 42.40				
CSI	0.91 147 P	50 33.10	0.1			
BAI	1.08 58 P	50 36.00	0.1			
	eSg	50 52.00				
ROI	1.20 144 P	50 38.00	0.0			
BRT	1.22 74 P	50 38.40	0.1			
	eSg	50 55.30				
CZI	1.38 164 P	50 40.60	-0.2			
DUI	1.43 32					

TWF1		1.58	254	iPc	41	05.70	-0.7
				eS	41	24.90	
TATO		1.78	312	iP	41	11.00	1.7
TWZ		1.81	316	ePc	41	11.00	1.3
TWG		1.98	241	ePc	41	11.50	-0.7
				eS	41	34.90	
QZH		4.14	287	Pnc	41	41.50	-1.4
	Z	14s		10.70um			
	E	14s		8.97um			
				Sn	42	30.00	
SSE		7.45	348	Pd	42	28.80	-0.7
		1.0s		86.00nm			5.8mb
	Z	20s		3.20um			3.8MsZ
	N	14s		3.40um			
	E	14s		4.20um			
BAG		7.67	197	eP	42	32.00	-0.8
		1.0s		300.00nm			6.4mb X
HKC		8.22	261	ePd	42	39.60	-0.8
MCO		8.81	261	eP	42	48.30	-0.3
GZH		8.85	267	Pc	42	48.00	-1.1
	Z	12s		4.82um			
	N	10s		2.76um			
	E	11s		3.80um			
NJ2		8.99	337	Pc	42	49.00	-2.0
		0.8s		71.00nm			5.9mb
	Z	14s		2.25um			4.9MsZ
	N	11s		3.36um			
	E	12s		5.65um			
				sP	43	03.00	
				S	44	28.00	
WHN		10.19	313	Pc	43	08.00	0.5
	Z	14s		3.53um			
				sP	43	17.50	
				S	45	08.00	
OIZ		13.09	251	P	43	47.20	0.4
		1.1s		74.00nm			5.7mb
	N	17s		3.82um			
	E	18s		3.39um			
TIA		13.37	339	eP	43	52.80	2.5
	Z	20s		7.16um			
	N	14s		1.52um			
	E	14s		3.65um			
GYA		14.99	284	P	44	11.80	0.0
		1.0s		10.00nm			4.1mb X
	N	12s		1.14um			
	E	12s		3.26um			
XAN		15.96	313	P	44	23.60	-0.7
TIY		16.55	329	eP	44	33.80	2.1
	Z	17s		1.92um			
	N	12s		1.81um			
	E	12s		2.36um			
BJI		17.18	342	eP	44	41.50	1.9
	Z	20s		1.20um			
	E	13s		1.80um			
SNY		18.00	2	eP	44	50.60	0.9
		1.0s		21.00nm			4.2mb
	Z	14s		2.12um			4.4MsZ X
	E	14s		2.08um			
				sP	44	56.80	
MAT		18.29	42	eP	44	52.00	-1.4
				eS	48	52.00	
KMI		18.45	278	Pc	44	57.00	1.3
		1.8s		70.00nm			4.5mb
	Z	13s		3.40um			4.9MsZ
				sP	45	08.50	
CD2		18.45	297	P	44	55.00	-0.5
	Z	12s		2.13um			5.0MsZ
	N	10s		4.35um			
CHJJ		18.48	45	eP	44	54.80	-0.9
KKM		18.79	201	ePc	45	00.30	0.4
		1.1s		142.00nm			5.1mb
HHC		19.51	333	P	45	08.00	-0.2
		1.0s		34.00nm			4.6mb
	Z	18s		1			

E 13s	2.11um			KRA	80.00 320 eP	52 46.90	-1.4	SSF	90.87 323 iPc	53 41.90	-0.5
LZH	20.56 311 Pd	45 21.00	32kmX	SPC	80.18 319 eP	52 49.00	-0.5		1.1s 15.85nm		5.3mb
	1.5s 160.00nm		5.2mb	BZS	80.83 316 eP	52 51.50	-1.3	SMF	90.94 323 iPc	53 42.40	-0.3
Z 15s	2.52um		4.7MszX	PSZ	80.93 318 eP	52 54.00	0.6		0.9s 48.30nm		5.8mb
E 13s	1.66um			KSP	81.74 322 eP	52 57.00	-0.4	AVF	91.12 323 iPc	53 43.30	-0.2
	pP	45 30.00	40kmX		0.9s 22.00nm		5.2mb		1.0s 30.00nm		5.6mb
	sP	45 34.50		VAY	81.98 312 eP	52 58.50	-0.4	FRF	91.13 319 eP	53 43.40	-0.2
CHG	22.90 262 eP	45 44.90	2.2	UZD	82.32 318 e(P)	53 01.00	0.5	LMR	91.34 319 eP	53 44.50	-0.1
	1.1s 82.59nm		5.2mb	SKO	82.48 313 eP	53 01.00	-0.5		1.1s 26.85nm		5.5mb
NST	22.92 254 eP	45 49.00	6.1X	ZST	82.49 320 eP	53 06.70	5.3X	LRG	91.36 319 eP	53 44.70	0.0
GUMO	23.07 112 eP	45 46.30	1.9	BRG	83.03 323 eP	53 04.70	0.6	MAF	Z 20s 0.28um		4.7Msz
PJG	23.07 112 eP	45 46.00	1.6		1.3s 11.00nm		4.8mb		91.89 323 iPc	53 47.30	0.2
	TT	09 01.00			e	53 11.40			0.9s 22.95nm		5.6mb
NNT	24.67 247 iPd	46 01.70	1.8	PRU	83.13 322 Pc	53 04.80	0.1	TCF	92.05 323 eP	53 48.10	0.2
GTA	25.02 314 eP	46 02.00	-1.2		1.5s 16.60nm		4.9mb	SES	92.09 31 eP	53 49.00	1.0
	1.0s 43.00nm		5.0mb	N 18s	0.50um			LSF	92.44 324 eP	53 49.50	-0.1
Z 15s	2.33um		4.8MszX	E 20s	0.40um			FFC	92.84 24 eP	53 51.00	-0.3
E 14s	1.39um				e	53 11.40			0.9s 9.00nm		5.2mb
SHL	28.26 280 eP	46 32.60	-0.6	CLL	83.34 324 iP	53 05.60	-0.1	CAF	92.97 322 iPc	53 52.60	0.5
IPM	28.49 231 ePd	46 35.10	-0.1		i	53 16.10			1.0s 41.00nm		5.8mb
	1.0s 54.00nm		5.2mb	KHC	84.10 321 Pc	53 10.10	0.4	RJF	93.04 323 iPc	53 53.00	0.6
LSA	28.95 289 P	46 41.40	1.7		Z 16s 0.30um		4.8MszX		0.9s 39.30nm		5.8mb
GUN	33.53 285 P	47 20.00	0.0	N 20s	0.40um			Z 21s	0.25um		4.6Msz
	0.6s 26.00nm		5.3mb	E 20s	0.40um			LPO	93.61 323 eP	53 55.40	0.4
KSI	33.71 219 ePc	47 22.70	1.5		e	53 16.50		LFF	93.70 323 eP	53 56.20	0.8
	e	48 15.00		GEC2	84.17 321 ePd	53 08.50	-1.6	TNP	96.50 44 eP	54 10.00	1.3
PKI	33.96 284 P	47 23.00	-0.7		1.1s 8.54nm		4.9mb	HOBC	146.40 36 ePKP	00 19.97	0.2
KKN	34.07 285 P	47 24.20	-0.3	PTJ	84.25 318 eP	53 19.20	34kmX	CLMC	146.56 37 ePKP	00 21.70	1.7
	0.8s 42.00nm		5.4mb	MOX	84.43 323 eP	53 11.50	0.3	ANCC	146.70 38 ePKP	00 20.48	0.4
DMN	34.23 285 P	47 25.80	-0.1		1.7s 26.00nm		5.2mb	HOOC	146.87 38 ePKPd	00 21.54	0.9
	0.8s 34.00nm		5.3mb		e	53 21.00		SALC	147.24 38 ePKP	00 22.97	1.9
GKN	34.63 285 P	47 29.00	-0.3	WET	84.49 322 eP	53 12.00	0.4	DIAC	147.25 37 ePKP	00 22.50	1.4
	0.6s 19.00nm		5.2mb	VBY	84.88 318 e(P)	53 16.50	2.9X	CUMC	148.15 42 ePKP	00 27.00	4.0X
WMO	35.10 313 eP	47 33.00	0.0	LJU	85.06 318 e(P)	53 14.50	0.0	ZOBO	167.19 56 PKP	00 47.30	1.7
Z 13s	1.27um		4.9MszX	GRF	85.14 323 iPd	53 14.40	-0.4		Z 22s 0.21um		
E 12s	0.99um				1.8s 39.00nm		5.3mb	LPB	167.37 57 ePKP	00 43.00	-2.6X
	pP	47 42.00	30kmX		e	53 24.50		CNCB	167.62 58 PKP	00 48.00	2.1
	sP	47 46.50		BHG	85.21 320 iPc	53 15.70	0.5		S.D. = 1.0 on 137 of 150 obs.		
PMG	40.60 142 eP	48 19.00	-0.2		i	53 25.20					
	1.0s 32.00nm		5.0mb	CEY	85.27 318 eP	53 15.50	-0.1				
HYB	41.91 270 eP	48 30.00	-0.1	VOY	85.45 319 eP	53 15.70	-0.9				
WR2	44.87 165 iPd	48 52.50	-1.5	WIT	85.84 327 eP	53 20.00	1.8				
	0.8s 6.10nm		4.6mb	WTTA	86.17 321 iPc	53 19.90	-0.3				
	i	49 11.20			1.0s 19.60nm		5.3mb				
POO	45.91 273 eP	49 02.00	-0.4		i	53 29.10					
OIS	46.97 158 eP	49 09.50	-1.0	WTS	86.23 326 eP	53 25.50	5.3X				
	0.8s 8.00nm		4.8mb		0.8s 8.00nm		5.0mb				
ASPA	48.35 167 iPd	49 20.10	-1.3		e	53 29.00					
	0.9s 6.60nm		4.7mb	CSI	86.95 312 P	53 24.00	0.0				
WARB	49.80 176 eP	49 31.30	-1.2	CZI	87.33 312 P	53 26.80	1.1				
QUE	49.90 290 eP	49 34.10	0.6	ENN	87.39 326 eP	53 21.00	-4.8X				
MAIO	55.45 299 iPd	50 15.40	0.7		1.0s 30.00nm		5.5mb				
	1.0s 25.50nm		5.2mb		e	53 35.00					
RMO	55.86 152 eP	50 17.00	-0.5	MEM	87.44 325 P	53 35.80	9.8X				
DZM	62.19 134 iPc	51 04.90	3.3X	SDI	87.65 315 P	53 27.40	0.0				
CNB	63.89 156 iPd	51 13.00	0.4	SFI	87.77 318 P	53 38.10	10.3X				
TTA	65.04 30 eP	51 20.00	0.2	WLF	87.91 325 iPc	53 38.48	10.2X				
SVW	65.36 32 iP	51 22.50	0.6	CDF	88.01 323 iPc	53 28.90	-0.1				
SLKM	68.06 32 eP	51 38.30	-0.7		1.0s 32.00nm		5.6mb				
PMR	68.40 31 eP	51 39.80	-1.2	DOU	88.48 325 P	53 35.70	4.6X				
	1.0s 8.00nm		4.8mb		i	53 40.30					
FBA	68.42 27 eP	51 40.70	-0.4	BSF	88.61 323 eP	53 31.20	-0.7				
SOD	70.68 336 iP	51 53.80	-1.1		0.9s 16.40nm		5.4mb				
BALM	71.71 31 eP	52 01.20	-0.2	HAU	88.76 323 eP	53 32.10	-0.4				
KAF	72.29 331 iP	52 03.10	-1.5		0.9s 18.00nm		5.4mb				
	0.5s 3.10nm		4.6mb		19s 0.32um		4.8Msz				
INK	72.98 22 eP	52 08.00	-0.6	EKA	88.82 333 P	53 37.00	4.4X				
	pP	52 22.00	49kmX		0.7s 2.10nm		4.6mb				
MBC	73.29 13 eP	52 09.00	-1.3	LPG	89.96 321 iPc	53 38.60	0.0				
	1.0s 9.00nm		4.7mb		0.8s 40.30nm		5.7mb				
NUR	73.55 329 eP	52 11.60	-0.4	LPL	89.96 321 iPc	53 38.60	0.1				
DSI	75.99 298 iPc	52 27.20	0.6		0.8s 36.95nm		5.7mb				
RMN	76.96 298 iPc	52 32.30	0.1	BNI	90.26 321 P	53 39.40	-0.4				
MBH	77.00 297 iPc	52 32.60	0.2	PGF	90.26 318 iPc	53 39.70	-0.1				
UPP	77.05 330 iP	52 30.90	-1.0		0.9s 29.50nm		5.5mb				
	i	52 40.10		NEW	90.40 35 eP	53 41.10	0.8				
VR1	77.44 315 ePd	52 32.00	-2.4		1.0s 8.75nm		5.0mb				
MLP	78.09 314 ePc	52 38.00	-0.2	SBF	90.49 319 iPc	53 40.20	-0.6				
HFS	78.70 331 eP	52 39.70	-1.3		0.7s 24.25nm		5.6mb				
	0.6s 8.50nm		4.9mb	LOR	90.55 323 eP	53 40.30	-0.6				
	Z 16s 0.58um		5.0MszX		1.0s 19.00nm		5.3mb				
	LR	24 18.00			Z 19s 0.25um		4.7Msz				
NB2	79.32 333 P	52 42.90	-1.6	LBF	90.66 323 iPc	53 40.90	-0.6				
	0.6s 3.60nm		4.6mb		0.9s 24.55nm		5.5mb				

25d 15h

OTR	1.08	333	Pc	42	24.67	-0.5	90 obs. associated										DMK	3.51	70	ePn	54	00.00	8.5X
RVC	1.14	98	Pc	42	26.04	0.0	? OCT 25, 1991 16h 02m 28.67± 6.73s										BZS	5.09	346	ePc	54	11.50	-2.5
RVW	1.15	148	Pc	42	26.08	0.0	33.743 S ±21.3km 70.329 W ±33.7km										MLR	5.17	21	eP	54	18.00	2.9X
KOSW	1.18	123	Pc	42	26.73	0.1	DEPTH = 100.0 ± 48.3 km										S.D. = 1.0 on 19 of 23 obs.						
ERK	1.20	132	P	42	26.73	-0.2	CHILE-ARGENTINA BORDER REGION (127)										* OCT 25, 1991 17h 13m 37.09± 0.91s						
TDL	1.24	128	Pc	42	27.43	0.0	PCH 0.20 308 iPd 02 43.20 -0.1										5.381 S ± 5.5km 146.725 E ±14.4km						
GSM	1.25	86	Pc	42	27.41	-0.2	CHCH 0.33 235 iP 02 43.70 0.0										DEPTH = 159.7 ± 4.9 km						
REMR	1.25	103	Pc	42	27.57	-0.2	SAN 0.40 316 eP 02 44.00 0.0										4.6mb (11 obs.)						
FL2	1.27	136	Pc	42	28.05	0.1	TACH 0.52 280 iPc 02 45.00 0.2										EASTERN NEW GUINEA REG., P.N.G. (207)						
RMW	1.28	74	Pc	42	27.71	-0.3	PEL 0.67 333 iPc 02 46.10 0.0										MDG 0.95 278 iPd 14 02.20 -0.4						
LON	1.29	106	Pc	42	28.16	-0.1	LNV 0.92 256 iPc 02 48.40 -0.1										YYYY 1.14 221 iPd 14 05.00 0.6						
STD	1.31	132	Pc	42	28.44	0.0	ROCH 0.96 323 iP 02 49.00 -0.2										MNDI 3.15 256 eP 14 27.50 0.0						
SHW	1.33	134	Pc	42	28.96	0.1	LCCH 1.07 284 iPc 02 50.20 0.1										PMG 4.02 174 iPd 14 38.30 -0.3						
OSP	1.34	331	Pc	42	27.93	-0.8	JACH 1.08 348 iPc 02 50.50 0.1										CTAO 14.63 182 eP 17 04.00 6.4X						
FMW	1.34	97	Pc	42	28.88	-0.2	S.D. = 0.1 on 9 of 9 obs.										QIS 16.60 204 iPd 17 22.10 0.1						
LVP	1.34	141	P	42	29.06	0.1	* OCT 25, 1991 16h 28m 31.40± 0.83s										WR2 18.82 219 iPd 17 45.80 -1.4						
SOSW	1.35	130	Pc	42	29.09	0.0	48.725 N ± 9.2km 10.150 E ± 8.3km										0.7s 8.00nm 4.2mb						
ESD	1.37	132	Pc	42	29.59	0.2	DEPTH = 10.0km (geophysicist)										0.5s 87.00nm 5.4mb						
HSR	1.37	133	P	42	29.77	0.3	GERMANY (543)										RMQ 21.08 175 iPc 18 15.00 4.9X						
JLK	1.40	134	Pd	42	30.17	0.3	ML 2.4 (VIE).										ASPA 21.98 213 iPd 18 20.00 1.0						
			S	42	48.51		TOD 1.25 315 ePn 28 55.45 0.8										1.0s 47.40nm 4.9mb						
OHW	1.41	31	Pd	42	29.54	-0.2	FEL 1.66 240 ePn 29 00.04 -0.8										WARB 28.22 221 eP 19 17.50 0.4						
HTW	1.43	61	Pc	42	29.50	-0.6	WTTA 1.77 145 iPgc 29 03.00 0.6										COOL 34.95 220 eP 20 15.50 -0.2						
MTMW	1.47	138	P	42	30.95	0.3	MOX 2.15 26 ePn 29 07.00 -0.7										0.4s 4.00nm 4.5mb						
CDFW	1.48	132	P	42	31.26	0.4	KHC 2.30 79 Pn 29 10.00 0.1										MRWA 37.50 227 eP 20 37.00 -0.1						
WPW	1.48	106	Pc	42	31.00	0.0	S.D. = 1.0 on 5 of 5 obs.										0.6s 4.00nm 4.3mb						
GLK	1.49	111	P	42	31.32	0.3	OCT 25, 1991 16h 52m 55.86± 0.48s										KLB 37.63 223 iPd 20 38.10 -0.1						
KMOR	1.49	177	Pd	42	30.29	-0.8	40.683 N ± 4.2km 23.359 E ± 4.6km										0.4s 21.00nm 5.2mb						
JCW	1.57	46	Pd	42	31.75	-0.3	DEPTH = 10.0km (geophysicist)										BAL 37.77 225 eP 20 49.00 9.6X						
MCW	1.64	18	Pd	42	32.74	-0.5	GREECE (364)										0.4s 10.00nm 4.9mb						
CMW	1.65	37	Pd	42	33.11	-0.2	MD 3.3 (THE). ML 3.1 (SKO).										NWA0 38.81 221 eP 20 48.00 0.1						
ASR	1.70	124	P	42	34.39	0.3	SOH 0.14 358 ePgc 52 59.37 0.2										MUN 38.92 223 eP 20 49.00 0.1						
GULW	1.84	130	P	42	36.28	0.2	THE 0.30 261 ePgc 53 02.20 0.0										SSE 43.71 328 P 21 29.00 1.0						
PGO	1.84	154	P	42	37.00	1.0	SRS 0.47 22 ePgc 53 04.78 -0.6										1.0s 12.00nm 4.5mb						
VLMM	1.93	145	P	42	37.81	0.5	OUR 0.59 126 ePgc 53 07.10 -0.7										XAN 53.03 320 P 22 39.30 -0.5						
			S	43	02.90		KNT 0.59 324 ePgc 53 07.46 -0.4										HHC 56.17 328 eP 23 02.00 -0.6						
APM	1.93	135	P	42	38.14	0.8	GRG 0.78 291 ePg 53 10.92 -0.1										BTO 56.81 327 eP 23 07.00 -0.1						
RPW	1.94	46	Pd	42	37.03	-0.5	PAIG 0.79 162 ePgc 53 10.21 -1.1										LZH 57.56 319 eP 23 12.50 0.0						
			S	42	59.32		VAY 0.87 317 iPg 53 12.60 0.0										1.4s 19.00nm 4.8mb						
NAC	1.95	100	P	42	37.69	0.0	LIT 0.88 229 ePgc 53 12.94 0.1										GTA 62.09 320 eP 23 43.60 0.3						
MBW	2.02	34	Pd	42	38.26	-0.5	MMB 0.95 17 iPgc 53 13.00 -0.9										0.8s 6.00nm 4.6mb						
			S	43	01.35		KKB 1.20 350 iPgc 53 18.00 -0.2										S.D. = 0.6 on 19 of 22 obs.						
TBM	2.06	88	Pc	42	39.61	0.4	RZN 1.43 45 iPc 53 24.00 1.9										% OCT 25, 1991 17h 33m 36.43± 0.9Bs						
EBG	2.10	95	P	42	39.65	-0.1	KDZ 1.83 57 iP 53 29.00 1.4										47.0B0 N ±13.9km 4.680 E ± 8.3km						
GT2	2.18	154	P	42	41.22	0.3	AGG 1.84 206 ePb 53 28.16 0.4										DEPTH = 10.0km (geophysicist)						
			S	43	08.94		VTS 1.91 357 iPc 53 30.00 1.1										FRANCE (538)						
GL2	2.25	120	P	42	45.01	3.1	SKO 1.94 312 ePn 53 29.60 0.5										ML 2.3 (LDG).						
ETW	2.29	77	Pc	42	42.27	-0.2	PGB 1.96 18 iPd 53 32.00 2.5X										LBF 0.49 259 Pg 33 46.20 -0.2						
VFP	2.34	140	P	42	45.03	1.7	OHR 1.99 283 ePn 53 31.00 1.1										LOR 0.59 289 Pg 33 48.50 0.1						
			S	42	52.05		DIM 2.13 49 iP 53 36.00 4.0X										0.72 233 Pg 33 49.60 -1.0						
MXC	2.35	102	P	42	42.84	-0.4	PVL 2.93 30 iP 54 30.00 -0.3										SMF 0.72 233 Pg 33 59.60 0.1						
NLW	2.42	66	Pd	42	43.94	-0.4											SSF 0.80 269 Pg 33 51.80 -0.2						
VTG	2.49	92	Pc	42	46.22	1.0											Sg 34 02.80						
CBSW	2.52	73	Pc	42	44.94	-0.9											AVF 0.95 253 Pg 33 53.90 -0.7						
VGB	2.54	128	Pd	42	45.79	-0.3											Sg 34 06.40						
			S	42	53.29												BGF 1.36 248 Pn 33 58.20 -3.3X						
COR	2.55	175	Pd	42	45.92	-0.2											BSF 1.62 62 Pg 34 05.00 -0.2						
WTV	2.55	76	P	42	45.25	-1.0											MAF 1.69 240 Pg 34 07.20 1.1						
BVW	2.58	96	P	42	46.03	-0.5											TCF 1.88 246 Pg 34 10.00 1.1						
MDW	2.69	99	P	42	47.71	-0.5											LSF 2.32 250 Pg 34 17.80 2.5X						
			S	43	36.18												S.D. = 0.9 on 8 of 10 obs.						
DHW2	2.75	70	P	42	47.87	-1.1											OCT 25, 1991 18h 05m 21.26± 0.23s						
			S	42	52.68												41.289 N ± 2.8km 23.297 E ± 2.2km						
EPH	2.75	84	Pc	42	47.95	-1.1											DEPTH = 10.0km (geophysicist)						
WAH2	2.80	96	P	42	49.47	-0.2											4.1mb (5 obs.)						
			S	42	59.14												GREECE-BULGARIA BORDER REGION (363)						
CROR	2.82	139	P	42	58.11	8.1											MD 4.2 (THE). ML 4.0 (ATH), 3.8						
			S	43	56.87												(SKO). Felt in southwestern						
PRW	2.86	107	P	42	55.78	5.3											Bulgaria.						
			S	43	08.56												SRS 0.28 128 ePg 05 27.26 0.1						
RSW	2.87	103	P	42	49.89	-0.8																	
VTHM	2.88	131	P	42	55.81	5.0																	
GBL	2.90	99	P	42	50.90	-0.2																	
			S	42	59.21																		
CRF	2.91	94	P	42	50.80	-0.4																	
			S	42	58.59																		
PATW	2.94	114	P	42	59.79	8.2																	
MJ2	2.97	99	P	42	52.21	0.1																	
WRD	3.06	91	P	42	52.17	-1.2																	
ET3	3.26	98	Pd	42	55.25	-0.9																	
PNT	3.46	49	P	42	58.00	-1.1																	
	0.5s		7.70nm																				
DPW	3.75	77	P	43	00.93	-2.2																	
LNOR	3.89	107	P	43	04.82	-0.4																	
			S	43	19.42																		
NEW	4.53	73	P	43	10.00	-4.3																	

KNT	0.33	247	ePg	05	28.82	0.8	MNS	8.00	281	P	07	20.50	0.1	Sg	49	07.60				
MMB	0.44	47	iPg	05	30.00	-0.3	ASS	8.10	286	P	07	21.00	-0.7	SSF	0.87	269	Pn	48	59.60	1.9
			eSg	05	35.00		SPC	8.19	346	eP	07	19.30	-3.7X				Pg	49	00.20	
SOH	0.47	175	ePg	05	31.10	0.3				e	09	22.20					Sg	49	10.70	
			eSg	05	37.14		ZST	8.19	330	eP	07	24.70	1.8	AVF	1.02	254	Pn	49	01.40	1.1
VAY	0.55	274	iPg	05	33.00	0.7	VOY	8.30	308	eP	07	24.70	0.1				Pg	49	02.40	
			iSg	05	40.80		CRE	8.71	289	P	07	29.70	-0.6				Sg	49	14.80	
			i	05	45.30		SFI	8.84	291	P	07	31.20	-0.8	PLDF	1.37	216	Pg	49	07.80	1.5
KKB	0.60	345	iPg	05	33.00	-0.4	FVI	9.25	308	P	07	37.90	0.3				Sg	49	25.00	
			Sg	05	41.00		CTI	9.68	303	P	07	41.80	-1.9	HAU	1.41	49	Pn	49	06.80	0.0
THE	0.70	201	ePg	05	35.66	0.5	WTTA	10.27	309	iPc	07	53.40	1.5				Pg	49	10.80	
GRG	0.75	244	ePg	05	36.74	0.7				i	08	11.50					Sg	49	30.00	
OUR	1.09	151	ePg	05	42.05	0.4	KHC	10.41	322	P	08	07.60	14.0X	BGF	1.42	249	Pn	49	06.90	-0.1
RZN	1.14	69	iPd	05	44.00	1.3				e	10	03.00					Sg	49	26.90	
			Sg	06	01.00		FRF	12.51	286	eP	08	21.60	-0.5	BSF	1.56	61	Pn	49	08.60	-0.4
VTS	1.30	357	iPc	05	46.00	0.5	LPG	12.75	295	eP	08	23.80	-1.7				Pg	49	13.20	
			Sg	06	04.00			0.7s	5.50nm			4.9mb					Sg	49	34.40	
PLD	1.33	52	iPg	05	47.00	1.2	LPL	12.76	295	eP	08	23.70	-2.0	MAF	1.75	241	Pn	49	11.00	-0.7
			Sg	06	07.00			0.4s	2.85nm			4.8mb					Pg	49	17.00	
LIT	1.34	208	ePb	05	46.26	0.4	LBF	14.98	299	eP	08	52.60	-2.1				Sg	49	35.80	
			eSb	06	04.06		SMF	14.99	297	eP	08	53.00	-1.7	MOF	1.78	64	Pn	49	16.18	4.1X
PAIG	1.39	168	ePb	05	46.78	0.1		0.6s	3.15nm			3.9mb					Pg	49	19.18	
			eSb	06	05.10		APO	20.12	346	eP	09	58.00	0.2				Sg	49	39.58	
PGB	1.42	27	iPc	05	48.00	0.9		0.5s	0.80nm			3.3mb		EMS	1.80	124	ePc	49	18.20	5.6X
			eSg	06	08.00		NB2	21.11	344	P	10	05.60	-2.5	TCF	1.94	247	Pn	49	13.90	-0.5
KZN	1.52	230	ePb	05	49.60	1.0		0.7s	1.30nm			3.4mb					Pg	49	18.40	
SKO	1.55	297	iPnd	05	50.30	1.4	S.D. = 1.1 on 64 of 82 obs.													
			i	05	54.30		OCT 25, 1991 18h 34m 36.74±0.49s													
			iSn	06	11.00		40.675 N ± 3.7km 23.400 E ± 4.8km													
			iSg	06	13.90		DEPTH = 10.0km (geophysicist)													
			i	06	22.00		GREECE (364)													
			i	06	25.00		MD 2.5 (THE).													
			i	06	26.00									DIX	2.08	118	ePd	49	25.20	8.5X
KDZ	1.63	77	iP	05	51.00	0.8	SOH	0.15	347	ePg	34	40.50	0.2	LPG	2.10	138	Pg	49	22.00	5.0X
RDO	1.70	94	ePb	05	51.00	0.0				eSg	34	42.42					Sg	49	46.20	
DIM	1.84	65	iPc	05	55.00	1.9	THE	0.33	263	ePg	34	43.50	-0.1	CDF	2.15	51	Pn	49	17.00	-0.5
			Sg	06	22.00					eSg	34	47.38					Pg	49	25.60	
OHR	1.89	265	iPnc	05	55.40	1.4	SRS	0.47	18	ePg	34	46.04	-0.2				Sg	49	51.60	
			iSg	06	23.00					eSg	34	52.38		FEL	2.34	69	ePn	49	21.84	1.6
ALN	2.11	100	ePn	05	56.98	-0.1	OUR	0.56	127	ePg	34	48.46	0.4	LSF	2.38	251	Pn	49	20.00	-0.8
			eSn	06	24.90					eSg	34	55.86					Pg	49	26.40	
AGG	2.38	198	ePn	06	01.46	0.5	KNT	0.62	322	ePg	34	48.62	-0.6				Sg	49	57.00	
PVL	2.45	37	eP	06	01.00	-0.9				eSg	34	56.62		BNI	2.43	146	P	49	29.50	7.9X
JMB	2.72	63	iP	06	06.00	0.2	PAIG	0.78	164	ePg	34	51.42	-0.5				eSn	49	58.50	
EZN	2.73	121	ePn	06	04.60	-1.3				eSg	35	03.38		MMK	2.43	114	ePd	49	29.00	7.3X
MFT	3.06	98	ePn	06	10.60	0.0	GRG	0.81	291	ePg	34	52.50	0.1	ZLA	2.49	80	ePc	49	30.10	7.7X
PRK	3.06	131	ePn	06	10.40	-0.1				eSg	35	03.42		SLE	2.62	74	ePc	49	33.20	9.1X
KEK	3.10	241	ePn	06	13.00	1.9	VAY	0.90	316	ePn	34	54.30	0.3	ORO	2.66	122	P	49	34.50	9.6X
ATH	3.33	174	ePn	06	17.40	3.0X	LIT	0.90	231	ePg	34	54.34	0.3	GWf	2.69	44	Pn	49	29.52	4.3X
SRE	3.37	359	iP	06	25.00	10.0X				eSg	35	06.70					Sg	50	10.27	
DMK	3.39	80	iPn	06	15.50	0.2	AGG	1.84	207	ePb	35	08.60	-0.1	CAF	2.87	222	Pn	49	26.40	-1.3
DRA	3.46	11	ePd	06	27.00	10.8X	S.D. = 0.4 on 10 of 10 obs.													
EDC	3.59	104	ePn	06	16.50	-1.6	OCT 25, 1991 18h 40m 31.67±2.67s													
BNT	3.63	103	ePn	06	17.80	-0.9	4.230 N ± 21.4km 76.781 W ± 27.3km													
BUC	3.74	32	eP	07	00.00	39.8X	DEPTH = 75.0km (geophysicist)													
VLS	3.74	215	ePg	06	33.40	13.1X	COLOMBIA (103)													
CTT	3.87	90	iPn	06	21.30	-0.9	MD 3.9 (UVC).													
KCT	3.98	103	ePn	06	22.70	-1.0	CLMC	0.41	148	iPd	40	44.39	-0.1	LPO	3.47	227	Pg	49	47.60	11.4X
BEO	4.10	330	ePn	06	36.50	11.3X	BUGC	0.62	123	iPd	40	46.26	-0.2	Sg	50	30.60				
			e(Sn)	07	34.00		HOBC	0.66	79	iPc	40	47.19	0.4	LDF	3.62	296	Pn	49	38.40	0.0
COZ	4.10	10	iPd	06	25.50	0.0	ANCC	0.71	187	iPd	40	47.17	-0.2				Sg	50	36.80	
CMP	4.18	17	ePc	06	27.00	0.6				eS	40	57.00		SBF	3.73	149	Pn	49	36.20	-3.8X
IZM	4.20	132	ePn	06	22.00	-4.8X	HODC	0.77	169	iPd	40	47.38	-0.9	FRF	3.77	159	Pn	49	37.50	-3.0X
PSN	4.33	55	eP	06	31.00	2.3				eS	40	57.40		FLN	3.91	297	Pn	49	42.00	-0.5
ISK	4.35	91	ePn	06	29.00	0.0	DIAC	1.10	148	iPd	40	51.51	-0.6				Sg	50	45.00	
DST	4.40	111	ePn	06	29.10	-0.6				eS	41	04.60		GRR	4.02	291	Pn	49	44.00	0.1
TNR	4.42	9	ePc	06	33.00	3.1X	SALC	1.25	176	iPd	40	54.51	0.4				Sn	50	26.40	
BZS	4.50	345	iPc	06	28.00	-2.9X				eS	41	09.90					Sg	50	48.40	
ISR	4.52	31	eP	06	35.00	3.7X	PURC	1.94	168	eP	41	04.81	1.1	LPF	4.05	286	Pn	49	42.80	-1.6
VLI	4.57	184	ePn	06	32.00	-0.1	S.D. = 0.7 on 8 of 8 obs.													
MLR	4.62	24	ePd	06	32.50	-0.4	OCT 25, 1991 18h 48m 41.09±0.51s													
YLV	4.66	97	ePn	06	30.00	-3.4X	47.087 N ± 7.0km 4.772 E ± 4.8km													
GBZT	4.68	94	ePn	07	23.70	50.1X	DEPTH = 10.0km (geophysicist)													
			iSg	07	47.80		FRANCE (538)													
IZI	4.78	99	eP	06	33.80	-1.3	ML 3.2 (LDG), 2.8 (STR).													
HRT	4.84	93	eP	06	34.80	-1.1	LBF	0.55	260	Pg	48	54.70	2.3	PCH	0.39	271	iPc	43	11.80	0.0
CVO	4.99	24	ePd	06	41.00	3.0X				Sg	49	01.90		SAN	0.55	289	ePc	43	12.70	0.0
VRI	5.21	27	iPd	06	42.50	1.4	LOR	0.65	287	Pg	48	57.10	3.0X				iS	43	27.50	
CFR	5.27	41	eP	06	50.00	8.2X				Sg	49	05.80		CHCH	0.59	239	iPc	43	13.20	0.1
HVAR	5.42	293	iP	06	43.90	-0.2	SMF	0.78	236	Pn	48	57.60	1.4				iS	43	29.40	
PPE	5.83	31	eP	06	42.50	-7.3X				Pg	48	57.								

25d 19n

TACH 0.75 268 iP 43 14.50 0.2
 ROCH 1.04 309 iPc 43 17.60 0.1
 JACH 1.05 334 eP 43 17.50 0.1
 LNV 1.19 254 iPd 43 18.50 -0.2
 LCCH 1.29 276 iP 43 20.00 0.1
 S.D. = 0.2 on 9 of 9 obs.

OCT 25, 1991 20h 09m 14.15±0.71s
 45.335 N ± 4.6km 6.868 E ± 6.7km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)

LPL 0.21 332 Pg 09 18.80 0.0
 LSD 0.24 59 P 09 21.70 -0.1
 RSP 0.33 124 P 09 23.02 0.0
 RRL 0.42 188 P 09 26.20 -0.1
 BHB 0.57 150 P 09 29.28 0.0
 ORX 0.84 69 P 09 33.69 0.1
 PZZ 0.85 169 P 09 36.61 0.0
 S.D. = 0.1 on 7 of 7 obs.

% OCT 25, 1991 20h 59m 14.68±0.75s
 43.900 N ± 8.3km 11.832 E ± 6.5km
 DEPTH = 10.0km (geophysicist)
 CENTRAL ITALY (381)

SFI 0.03 34 P 59 15.00 -1.6
 PGD 0.08 253 P 59 19.50 -1.4
 CRE 0.29 162 P 59 17.50 -1.2
 MME 0.87 290 P 59 23.50 0.0
 ARV 0.90 116 P 59 31.50 0.6
 BDI 0.91 281 P 59 32.50 0.4
 ASS 1.03 144 P 59 44.50 -0.1
 S.D. = 1.1 on 7 of 7 obs.

OCT 25, 1991 21h 06m 04.01±0.30s
 38.202 S ± 5.4km 175.949 E ± 5.6km
 DEPTH = 228.7 ± 3.6 km
 4.6mb (15 obs.)
 NORTH ISLAND, NEW ZEALAND (159)

UTU 0.19 83 Pc 06 33.50 -0.3
 PATZ 0.30 126 Pc 06 34.00 -0.1
 TAZ 0.44 94 Pd 06 33.80 -0.5
 WLZ 0.46 321 Pc 06 34.10 -0.3
 WHH 0.81 148 Pd 06 56.30 -0.3
 URZ 0.92 94 iPc 06 35.80 -1.9
 MOZ 0.95 251 Pc 06 37.80 1.1
 NGZ 1.01 196 Pc 06 38.10 0.8
 RUZ 1.04 207 Pc 06 38.50 1.2
 CNZ 1.05 197 P 06 38.20 0.8
 PAHZ 1.09 127 P 06 37.40 -0.2
 DRZ 1.11 196 P 06 39.20 1.1
 MOH 1.32 135 Pd 06 39.70 0.5
 KUZ 1.46 353 Pd 06 38.40 -1.9
 TTH 1.50 153 Pd 06 41.70 1.1
 WAHZ 1.53 168 Pc 06 42.10 1.2
 NOZ 1.69 105 P 06 41.60 -0.6
 BSZ 1.78 206 Pc 06 44.50 1.5
 MAHZ 1.80 124 P 06 43.30 0.1
 PUZ 1.82 87 Pd 06 41.20 -2.2
 TEHZ 1.91 160 Pd 06 45.10 0.9
 NRZ 1.94 234 P 06 46.80 2.3
 HBZ 1.96 73 Pd 06 42.30 -2.3
 PGZ 2.43 174 Pc 06 50.30 1.0

MNG 2.44 188 Pc 06 50.60 1.1
 WCZ 2.60 330 P 06 50.40 -0.7
 KIW 2.78 196 Pc 06 54.00 0.9
 MTW 2.97 187 Pc 06 55.90 0.6
 CAW 2.98 193 Pc 06 56.30 0.9
 DIW 3.03 210 Pd 06 56.70 0.7
 AMW 3.11 183 Pd 06 57.60 0.8
 WDW 3.15 193 Pc 06 57.90 0.6
 MRW 3.18 197 Pc 06 58.40 0.9
 BLW 3.18 186 Pc 06 58.30 0.6
 WEL 3.21 196 P 06 58.80 0.8
 MOW 3.26 189 Pc 06 59.10 0.5
 TCW 3.27 203 Pc 06 59.60 0.9
 CCW 3.79 200 P 07 06.20 1.4
 THZ 4.26 212 eP 07 10.70 0.1
 KHZ 4.60 203 P 07 15.70 1.1
 MOZ 6.04 203 P 07 32.10 -0.7
 WVZ 6.28 218 eP 07 34.80 -1.0
 EWZ 6.56 214 P 07 39.00 -0.4
 BWZ 7.80 214 eP 07 53.80 -1.5
 ODZ 7.91 208 P 07 56.50 -0.2
 MSCZ 8.44 213 eP 08 02.10 -1.8
 LRCZ 8.45 214 eP 08 01.70 -2.4
 MHZ 8.48 214 P 08 01.80 -2.6
 LSCZ 8.48 213 eP 08 02.10 -2.3
 SBCZ 8.49 214 eP 08 01.90 -2.6
 MMCZ 8.50 215 eP 08 03.10 -1.6
 CMCZ 8.55 214 eP 08 03.20 -2.1
 TLC 8.67 214 eP 08 04.30 -2.6
 TUZ 9.06 209 eP 08 11.60 0.0
 BCZ 9.85 215 eP 08 20.20 -1.6
 DZM 18.04 330 iPc 10 00.50 -0.3
 CNB 21.47 270 eP 10 41.00 5.9X
 ARMA 21.50 284 eP 10 40.80 5.4X
 CMS 25.54 276 eP 11 17.00 3.5X
 AFR 36.33 65 iP 12 47.50 -0.1
 PAE 36.39 65 iP 12 48.20 0.1
 PPT 36.45 65 iP 12 48.60 -0.1
 TVO 36.55 66 iP 12 49.70 0.2
 PPN 36.58 65 iP 12 49.80 0.1
 ASPA 38.53 280 eP 13 07.20 1.2
 PMO 39.36 64 iP 13 13.00 0.2
 VAH 39.39 65 iP 13 13.00 0.0
 TPT 39.57 64 iP 13 14.70 0.2
 RUV 39.60 65 iP 13 14.80 0.0
 WR2 40.25 285 iPc 13 21.70 1.6
 KLB 47.51 260 iPc 14 19.60 1.6
 MUN 48.55 258 eP 14 27.00 1.0
 BAL 48.75 260 eP 14 29.00 1.5
 MBL 50.88 273 eP 14 43.80 0.0
 SPA 51.99 180 iPd 14 56.00 4.3X
 MAT 82.14 330 eP 18 00.00 -0.1
 SOD 146.11 339 iPKP 25 17.50 1.5
 LIC 148.16 178 PKP 25 25.00 4.1X
 KIC 148.30 179 PKP 25 25.00 3.9X
 TIC 148.57 178 PKP 25 26.20 4.6X
 KAF 149.68 332 iPKP 25 25.70 3.9X
 NUR 151.30 330 ePKP 25 30.10 5.9X
 LKO 151.43 177 PKP 25 32.72 6.8X
 HFS 155.33 339 ePKP 25 39.90 10.0X
 BRT 163.39 286 PKP 25 51.70 12.2X
 BAI 163.63 287 PKP 25 55.50 15.8X
 ROI 163.88 281 PKP 25 51.60 11.5X
 CSI 164.10 282 PKP 25 55.10 14.9X

ACI 164.16 280 PKP 25 56.40 16.1X
 SOI 164.18 276 PKP 25 53.80 14.7X
 CZI 164.21 280 PKP 25 55.70 15.4X
 MMN 164.34 282 PKP 25 58.40 18.0X
 S.D. = 1.2 on 73 of 92 obs.

OCT 25, 1991 21h 24m 41.27±0.30s
 38.331 N ± 2.6km 22.227 E ± 1.6km
 DEPTH = 35.6 ± 3.6 km
 4.6mb (45 obs.)
 GREECE (364)
 MD 4.5 (THE). ML 4.5 (ATH). 4.5 (TTG).

AGG 0.69 7 ePgc 24 52.57 -2.1
 ATH 1.23 107 ePb 25 02.80 0.6
 VLS 1.30 264 ePb 25 03.00 -0.3
 VLI 1.71 160 ePb 25 09.00 -0.2
 LIT 1.78 7 ePbd 25 10.78 0.5
 PAIG 1.95 35 ePnc 25 12.98 0.3
 KZN 2.00 350 ePn 25 14.50 1.0
 KEK 2.34 307 ePn 25 21.00 2.9X
 THE 2.37 14 ePn 25 18.38 -0.1
 OUR 2.42 34 ePn 25 19.78 0.6
 FNA 2.54 345 ePn 25 19.90 -1.1
 GRG 2.63 3 ePn 25 23.14 0.9
 SOH 2.64 19 ePnd 25 23.26 0.9
 KNT 2.87 10 ePnd 25 26.36 0.6
 SRS 2.97 20 ePnd 25 27.54 0.4
 OHR 2.99 339 iPn 25 29.20 1.8
 VAY 3.00 5 iPn 25 28.30 0.8
 PRK 3.29 73 ePn 25 31.70 0.0
 MMB 3.45 19 iPd 25 34.00 0.0
 EZN 3.52 64 ePn 25 34.70 -0.2
 KKB 3.59 10 iPc 25 36.00 0.1
 SKO 3.69 351 iPn 25 38.00 0.7
 RDO 3.80 41 ePn 25 38.00 -0.8
 RZN 3.86 29 iPd 25 40.00 0.1
 LCI 3.87 302 P 25 39.50 -0.4
 ALN 3.91 48 ePn 25 39.40 -1.0
 IZM 3.96 87 iPn 25 42.20 1.0
 NPS 4.09 137 ePn 25 42.30 -0.8
 KDZ 4.12 35 iPd 25 42.00 -1.5
 PLD 4.22 26 iP 25 46.00 1.2
 ULC 4.29 329 iPnc 25 47.52 1.7
 VTS 4.32 10 iPc 25 47.00 0.5
 PGB 4.47 19 iPc 25 48.00 -0.4
 DIM 4.49 33 iP 25 49.00 0.3
 GRI 4.58 278 P 25 50.79 0.9
 PVY 4.59 339 iPnd 25 53.20 3.0X
 MFT 4.61 56 ePn 25 50.60 0.1
 TTG 4.68 332 iPnc 25 52.28 1.0
 BDV 4.73 328 iPnd 25 52.48 0.5
 EDC 4.81 64 ePn 25 54.00 0.7
 BNT 4.85 64 ePn 25 54.70 0.8
 IVA 4.87 339 iPnc 25 56.24 2.1
 YER 4.95 102 iPn 25 56.30 1.0
 HCY 5.00 326 iPnd 25 56.68 0.8
 GMB 5.01 270 P 25 57.25 1.0
 NKY 5.11 332 iPnd 25 58.95 1.4
 KCT 5.13 66 ePn 25 57.10 -0.6
 DST 5.15 74 iPn 25 56.80 -1.3
 ATN 5.33 270 P 26 01.70 1.2

BRY	5.36	330	eSn	27 00.00		VVI	10.55	320	P	27 12.00	-1.1		0.7s	20.95nm	4.4mb		
			iPnc	26 01.30	0.3	FVI	10.80	323	P	27 15.70	-0.8	SSF	16.26	308	eP	28 27.60	-1.0
PVL	5.42	25	iPd	26 00.00	-1.7	VKA	10.82	339	e(P)	27 16.50	-0.2		0.8s	50.35nm	4.7mb		
PLE	5.44	338	iPnd	26 03.08	1.0				e	29 17.00		CAF	16.43	300	eP	28 32.50	1.8
			iSn	27 07.02		PGF	10.92	297	eP	27 18.70	0.3	BGF	16.47	306	eP	28 30.40	-0.8
MGR	5.49	291	P	26 03.70	1.0		0.6s	12.65nm			5.3mb			0.7s	31.40nm	4.6mb	
			eSn	27 02.00		SPC	10.95	353	eP	27 23.40	4.7X	MAF	16.52	305	eP	28 31.40	-0.4
DMK	5.49	49	iPn	26 02.00	-0.8	CTI	10.99	318	P	27 18.00	-1.2		0.9s	14.75nm	4.1mb		
CTT	5.55	58	ePn	26 02.20	-1.4	HLW	11.33	136	eP	27 20.60	-3.2X	MSL	16.75	90	ePd	28 39.50	4.8X
KHL	5.74	88	eP	26 06.60	0.2	SAL	11.34	314	P	27 23.00	-0.8				eS	31 56.00	
SGO	5.80	295	P	26 08.00	0.8	KMR	11.37	331	eP	27 27.00	2.8X				eLQ	34 15.00	
MEU	5.91	260	P	26 06.60	-2.3	BOB	11.53	308	P	27 26.30	-0.2				eLR	35 02.00	
			eSn	27 10.80		BHG	11.60	327	eP	27 27.00	-0.4	TCF	16.78	305	eP	28 35.50	0.4
ISK	5.93	60	ePn	26 02.00	-7.1X	SCE	11.64	322	eP	27 26.00	-2.0		0.9s	8.20nm		3.9mb	
PZI	5.94	260	P	26 05.88	-3.4X	WTTA	11.83	322	iPd	27 28.40	-2.2	MEM	16.83	322	P	28 40.00	4.5X
MNO	5.95	268	P	26 09.70	0.1				i	27 37.50		RJF	16.91	301	eP	28 37.60	0.8
			eSn	27 12.90					iS	29 41.50			18s	0.40um			
IZI	5.96	68	eP	26 09.20	-0.4				i	29 52.00		LPO	16.97	299	eP	28 39.00	1.6
YLV	5.96	66	iP	26 08.70	-0.9	OGA	11.86	320	eP	27 30.10	-1.0		0.8s	10.75nm	4.0mb		
ALT	6.21	81	iP	26 14.00	0.9	HRI	12.07	111	eP	27 33.20	-0.7	ENN	16.97	322	eP	28 42.00	4.6X
HRT	6.26	64	eP	26 13.00	-0.8	ZNT	12.10	116	eP	27 34.60	0.5		2.0s	84.00nm	4.5mb		
SRE	6.37	6	ePd	26 15.00	-0.1				eS	29 39.00		AKUR	16.97	145	eP	28 36.00	-1.6
GIB	6.47	270	P	26 16.70	0.0	CKI	12.11	305	P	27 35.22	1.0	ANMR	17.06	146	eP	28 39.00	0.4
			eSn	27 25.50		OSS	12.20	317	ePd	27 35.60	-0.1	LSF	17.20	304	eP	28 41.00	0.6
DRA	6.52	13	eP	26 20.00	2.7X	SHMJ	12.36	113	P	27 38.20	0.6		0.7s	13.25nm	4.2mb		
HVAR	6.53	320	iPnc	26 16.10	-1.4	SBF	12.45	301	eP	27 39.10	0.3	DOU	17.21	319	P	28 41.20	0.8
			iS	27 32.10			0.5s	10.95nm		5.2mb			0.7s	13.30nm	4.2mb		
GPA	6.57	70	iP	26 18.60	0.6	VDL	12.45	315	ePc	27 39.30	0.3				S	32 06.00	
BEO	6.62	349	ePn	26 19.70	1.1	KHC	12.47	333	eP	27 38.50	-0.5	AKSR	17.30	145	eP	28 40.50	-1.2
BUC1	6.66	24	ePd	26 26.00	6.9X				e	27 46.50		LFF	17.34	299	eP	28 42.80	0.7
BCK	6.67	95	iP	26 20.50	1.0				e	28 11.80			0.7s	11.00nm	4.1mb		
BUC	6.74	24	eP	26 35.00	14.7X	TMA	12.57	312	ePc	27 38.90	-1.7	WTS	17.41	327	eP	28 49.00	6.2X
MCT	6.82	267	P	26 20.20	-1.5	KFNJ	12.76	116	P	27 43.50	0.6		1.2s	10.00nm	3.8mb		
DUI	6.83	302	P	26 22.20	0.5	ORO	12.85	309	P	27 44.30	0.1	SNF	17.62	319	P	28 49.30	3.8X
PSN	6.99	38	iP	26 26.00	2.2	FRF	12.88	299	eP	27 44.60	0.1	UCC	17.76	320	eP	28 54.00	6.8X
USI	7.11	276	P	26 24.20	-1.3	PRU	12.88	337	eP	27 45.20	0.7	DBN	18.21	325	eP	28 55.00	2.3
COZ	7.16	12	iPc	26 27.00	0.6				e	28 09.50		MFF	18.41	304	eP	28 56.40	1.1
CMP	7.24	16	iPc	26 29.00	1.6	LMR	12.91	298	eP	27 45.00	0.2		0.6s	16.25nm	4.4mb		
SDI	7.28	300	P	26 28.70	0.7	MKT	12.93	121	eP	27 43.50	-1.8	BHD	18.65	99	eP	28 55.00	-3.3X
BZS	7.29	357	ePc	26 27.00	-1.1				eS	29 58.80					eS	32 42.00	
TNR	7.47	11	ePc	26 33.00	2.4	LLS	12.94	315	ePc	27 45.20	-0.3				eSS	33 28.00	
ISR	7.53	24	ePd	26 31.00	-0.4	LRG	13.05	298	eP	27 47.30	0.6				eLO	35 59.00	
ERC	7.60	271	P	26 31.00	-1.5		Z	22s	0.38um					e	37 47.00		
TLB	7.62	33	iPd	26 34.50	1.9	MMK	13.08	311	ePd	27 47.90	0.6	ETOR	18.87	285	eP	29 02.30	1.2
AZI	7.66	301	P	26 34.70	1.5	KSP	13.20	343	eP	27 50.40	1.8	TAB	18.94	83	eP	29 03.00	1.0
MLR	7.67	20	ePd	26 34.00	0.5				e	28 00.50		LDF	19.13	310	eP	29 03.80	-0.1
AQU	7.84	304	P	26 36.60	0.7	BNI	13.41	305	P	27 52.80	1.1		0.6s	17.15nm	4.5mb		
CVO	8.04	20	iPc	26 39.00	0.4	DIX	13.42	310	ePd	27 53.20	1.3	ENIJ	19.39	274	eP	29 08.00	0.9
RDP	8.06	298	P	26 39.20	0.3	LPG	13.56	307	eP	27 52.30	-1.4	OBN	19.39	25	iPc	29 10.00	3.1X
RMP	8.09	298	P	26 39.60	0.3				0.7s	14.90nm	5.0mb		1.2s	*****nm		7.8mb X	
CFR	8.15	31	eP	26 45.00	4.9X	LPL	13.58	307	eP	27 52.30	-1.6				e	29 20.00	
VRI	8.24	22	iPd	26 42.00	0.7		0.6s	13.55nm		5.0mb					e	32 44.00	
BBTK	8.33	76	eP	26 43.00	0.3	ZLA	13.64	317	ePd	27 55.50	1.0				e	34 40.00	
MNS	8.34	302	P	26 44.00	1.3	EMS	13.71	309	ePc	27 56.00	0.4				e	35 08.00	
ASS	8.67	306	P	26 47.40	0.1	SLE	13.76	318	ePc	27 56.40	0.4				e	35 46.00	
UZD	8.68	343	ePn	26 46.00	-1.4	GRF	13.83	329	eP	28 05.40	8.5X	FLN	19.41	310	eP	29 06.80	-0.4
ARV	8.72	309	P	26 46.50	-1.5		2.3s	132.00nm		5.3mb X			0.5s	16.75nm	4.6mb		
ZAG	8.80	330	eP	26 48.50	-0.5		Z	19s	2.20um				19s	0.28um	5.0msz		
VBY	8.85	326	ePn	26 49.70	0.0	BRG	13.85	338	eP	28 05.50	8.4X	LPF	19.48	307	eP	29 07.60	-0.3
			iSn	28 27.00		FEL	14.08	317	P	27 58.78	-1.6		0.7s	29.75nm	4.7mb		
PTJ	8.88	330	eP	26 47.40	-2.8X	LOMF	14.43	314	P	28 03.64	-1.3	GRR	19.50	308	eP	29 07.60	-0.6
RIY	9.12	323	iPn	26 52.10	-1.4	MOX	14.43	332	e(P)	28 09.00	4.1X		0.7s	41.90nm	4.8mb		
RSM	9.25	310	P	26 53.70	-1.6		Z	16s	2.10um			AFC	20.38	275	eP	29 20.50	2.7X
KAS	9.38	67	eP	27 07.50	10.3X		E	16s	2.00um			ECOG	20.39	275	eP	29 20.00	2.2
MAO	9.38	299	P	26 57.20	0.0	LIBD	14.47	317	P	28 04.21	-1.1	KER	20.41	94	eP	29 23.00	4.9X
CRE	9.40	308	P	26 56.90	-0.5	CLL	14.52	336	e(P)	28 12.00	6.1X	TOL	20.43	283	iPd	29 18.30	0.2
CEY	9.40	324	eP	26 56.50	-0.9		1.2s	25.00nm		4.6mb X			1.3s	96.15nm	5.0mb		
			eS	28 39.50		MOF	14.54	316	P	28 03.99	-2.4				eS	33 11.00	
BUD	9.44	347	eP	26 57.70	-0.2	BSF	14.72	315	eP	28 06.60	-2.1	GUD	20.47	285	iPc	29 20.00	1.4
LJU	9.59	326	eP	26 57.50	-2.4		0.6s	11.70nm		4.5mb		UPP	21.75	354	iP	29 31.00	-0.2
			eS	28 44.10		ECH	14.74	317	P	28 06.42	-2.5	NUR	22.25	3	eP	29 35.00	-1.3
SFI	9.61	309	P	26 59.60	-0.6	CDF	14.80	318	P	28 08.27	-1.5	HFS	22.49	349	eP	29 37.20	-1.4
PGD	9.67	308	P	27 01.80	0.6	GWf	14.97	320	P	28 10.59	-1.3		0.5s	15.20nm	4.7mb		
TRI	9.69	322	P	27 02.50	1.2	HAU	15.06	315	eP	28 11.70	-1.4		Z	16s	0.54um	4.1mszX	
TRI	9.69	322	ePn	26 59.00	-2.3		0.6s	18.95nm		4.5mb					LR	37 38.00	
			iSn	28 46.80			Z	19s	0.32um		5.2msz	IFR	22.63	266	iPd	29 42.50	2.0
			iLO	30 56.00		VITF	15.38	315	P	28 16.09	-1.2				i	29 48.50	
PSZ	9.73	351	ePnd	27 02.00	0.0	SMF	15.88	307	eP	28 23.30	-0.4	IR7	22.78	88	eP	29 43.80	1.9
VOY	9.87	324	eP	27 02.50	-1.3		0.7s	19.85nm		4.4mb		IR5	22.89	89	eP	29 45.70	2.8X
			eS	28 50.50		LBF	15.94	309	eP	28 24.60	0.1	IR1	22.92	88	eP	29 45.10	1.9
SRO	9.90	344	iP	27 07.60	3.5X		0.7s	29.20nm		4.5mb		NB2	23.76	347	P	29 50.50	-0.5
			e	27 33.60		LOR	16.14	309	eP	28 26.20	-0.8		0.6s	9.70nm	4.5mb		
BDI	10.46	307	P	27 11.60	-0.4		0.7s	11.00nm		4.1mb		EKA	24.10	323	P	29 55.00	0.7
MME	10.46	308	P	27 12.10	-0.1		Z	21s	0.45um				0.7s	21.60nm	4.8mb		
ZST	10.54	341	eP	27 13.10	0.2	WLF	16.15	320	iPd	28 29.30	2.3	DCN	25.22	316	eP	30 08.70	3.7X

25d 21h

TIO 25.29 262 iP 30 07.50 1.3
 SOD 29.20 3 iP 30 41.40 0.2
 MAIO 29.58 82 eP 30 48.00 2.9X
 QUE 37.55 89 e(P) 31 54.00 -0.1
 LKO 38.02 228 P 31 58.46 0.5
 TIC 40.04 225 P 32 15.32 0.5
 KIC 40.12 224 Pd 32 16.22 0.8
 LIC 40.39 225 Pd 32 18.51 0.9
 0.4s 10.50nm 4.9mb
 WMO 48.51 62 Pd 33 22.70 0.1
 0.7s 23.00nm 5.3mb
 Z 16s 0.37um 4.5mszx
 GKN 52.37 82 P 33 50.60 -1.7
 0.6s 28.00nm 5.4mb
 DMN 52.92 82 P 33 55.00 -1.6
 0.8s 42.00nm 5.5mb
 KKN 52.97 82 P 33 55.00 -1.9
 0.6s 17.00nm 5.2mb
 HYB 53.13 97 eP 33 58.50 0.6
 PKI 53.18 82 P 33 58.60 -1.9
 GUN 53.38 81 P 33 58.40 -1.6
 0.6s 16.00nm 5.2mb
 LZH 62.93 64 eP 35 05.00 -1.6
 1.8s 32.00nm 5.1mb
 BTO 64.95 57 eP 35 19.00 -0.7
 CD2 65.46 69 P 35 22.10 -0.9
 HHC 65.84 56 P 35 25.00 -0.4
 XAN 67.56 64 P 35 35.00 -1.3
 TIY 68.04 59 eP 35 38.60 -0.7
 CHG 68.34 83 eP 35 39.40 -1.9X
 CHTO 68.34 83 iP 35 39.80 -1.5
 1.0s 3.00nm 4.3mb
 GYA 70.00 72 P 35 53.20 1.6
 0.8s 11.00nm 4.9mb
 INK 72.14 351 eP 36 03.50 -0.1
 CN2 72.80 48 eP 36 07.40 -0.5
 0.8s 11.00nm 4.9mb
 epP 36 22.00 52kmX
 SNY 72.86 50 eP 36 05.20 -3.1X
 YKA 73.70 341 eP 36 12.60 -0.2
 0.6s 5.00nm 4.7mb
 FFC 75.72 330 eP 36 26.00 1.4
 0.7s 10.00nm 4.9mb
 IMA 75.88 358 eP 36 26.60 1.1
 FBA 76.81 356 eP 36 31.50 1.0
 1.0s 4.00nm 4.4mb
 JSC 78.79 305 eP 36 43.00 1.0
 BALM 80.18 352 eP 36 50.40 1.2
 FVM 82.00 313 eP 37 00.80 1.8
 1.0s 13.00nm 4.9mb
 NEW 86.51 334 eP 37 22.00 0.3
 0.8s 6.46nm 4.9mb
 TUL 86.52 314 e(P) 37 23.30 1.5
 0.8s 18.90nm 5.4mb X
 BW06 88.16 327 eP 37 30.50 0.5
 1.0s 3.75nm 4.6mb
 WR2 119.23 93 ePKP 43 28.00 -0.5
 0.4s 1.60nm
 ASPA 120.85 97 ePKP 43 31.20 -0.4
 0.9s 5.40nm
 DZM 145.34 73 iPKPc 44 18.60 1.3
 S.D. = 1.1 on 231 of 265 obs.

OCT 25, 1991 21h 51m 31.12±0.35s
 54.583 N ± 7.2km 161.903 E ± 5.1km
 DEPTH = 53.0km (3 depth phases)
 4.6mb (25 obs.)

NEAR EAST COAST OF KAMCHATKA (218)

MAT 24.31 232 eP 56 45.00 0.4
 RSO 24.63 58 iP 56 49.70 2.0
 FBA 26.62 47 iP 57 05.70 -0.2
 1.1s 11.25nm 4.4mb
 BALM 29.57 55 eP 57 33.00 0.2
 INK 32.03 39 eP 57 54.00 -0.1
 MBC 35.25 24 eP 58 22.00 0.2
 0.9s 9.00nm 4.7mb
 PNT 46.30 62 eP 59 53.00 0.1
 NEW 48.25 62 eP 00 07.00 -1.2
 1.1s 4.63nm 4.4mb
 DAG 48.92 0 iPc 00 12.90 0.0
 0.5s 9.15nm 5.1mb
 SES 49.92 57 ePc 00 21.30 0.3
 FFC 51.22 48 eP 00 31.00 0.2
 0.6s 7.00nm 4.9mb
 LRM 52.26 62 eP 00 38.70 -0.4

BW06 55.87 63 iP 01 05.10 -0.5
 1.2s 15.41nm 4.9mb
 RSSD 57.70 58 iP 01 18.00 -0.5
 1.0s 40.67nm 5.5mb
 KAF 58.53 337 iP 01 22.70 -1.1
 0.7s 12.60nm 5.2mb
 GOL 60.27 63 eP 01 36.50 0.1
 1.0s 9.00nm 4.9mb
 NUR 60.33 337 eP 01 35.00 -1.1
 NB2 62.40 344 P 01 48.90 -1.3
 0.9s 11.00nm 5.0mb
 HFS 62.85 343 eP 01 51.50 -1.6
 0.6s 4.10nm 4.7mb
 ALO 63.26 67 eP 01 56.00 -0.4
 1.0s 5.25nm 4.6mb
 EKA 69.76 351 P 02 37.00 0.0
 0.9s 5.50nm 4.5mb
 KSP 71.08 338 ePd 02 44.90 -0.2
 CLL 71.33 340 iPd 02 46.60 0.0
 1.2s 20.00nm 4.9mb
 DMU 71.49 353 eP 02 47.40 -0.1
 BRG 71.55 339 eP 02 48.00 0.1
 DCN 72.07 353 eP 02 51.00 0.1
 MOX 72.23 341 ePd 02 52.40 0.4
 e 03 07.50 54km
 PRU 72.27 339 eP 02 52.60 0.4
 GRF 73.22 341 eP 02 58.30 0.5
 1.1s 13.00nm 4.8mb
 MEM 73.25 344 P 02 58.80 0.9
 KHC 73.28 339 eP 02 59.00 0.8
 e 03 14.00 53km
 GEC2 73.53 339 ePd 02 59.20 -0.5
 0.5s 0.76nm 3.9mb
 CDF 75.17 343 eP 03 09.00 -0.2
 0.9s 6.55nm 4.6mb
 FLN 75.96 348 eP 03 12.90 -0.7
 GRR 76.38 348 eP 03 15.50 -0.4
 0.5s 2.90nm 4.5mb
 LPF 76.75 348 eP 03 18.40 0.4
 LOR 76.84 345 eP 03 18.30 -0.2
 0.7s 2.75nm 4.4mb
 SSF 77.09 345 eP 03 19.80 -0.1
 AVF 77.38 345 eP 03 21.50 0.0
 0.7s 2.75nm 4.4mb
 WR2 77.89 206 iPc 03 23.90 -0.6
 0.7s 3.00nm 4.4mb
 MFF 78.05 347 eP 03 25.40 0.3
 LPL 78.07 342 eP 03 26.70 1.1
 LPG 78.08 342 eP 03 27.00 1.3
 0.9s 7.35nm 4.7mb
 CAF 79.39 346 eP 03 33.30 0.7
 LFF 79.57 347 eP 03 33.90 0.5
 0.6s 4.50nm 4.6mb
 LPO 79.76 346 eP 03 34.60 0.1
 LRG 80.13 342 eP 03 36.80 0.3
 0.6s 3.60nm 4.5mb
 PGF 80.51 340 eP 03 39.00 0.3
 ASPA 81.56 206 iPc 03 44.30 0.1
 0.7s 5.60nm 4.7mb
 S.D. = 0.7 on 49 of 49 obs.

% OCT 25, 1991 22h 19m 08.51±2.87s
 44.067 N ± 25.1km 12.120 E ± 6.2km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)

SFI 0.24 233 P 19 13.90 0.2
 eSg 19 18.50
 RSM 0.28 120 P 19 14.70 0.4
 eSg 19 18.50
 PGD 0.35 236 P 19 15.50 -0.2
 eSg 19 22.40
 CRE 0.46 196 P 19 17.90 0.1
 eSg 19 26.80
 ARV 0.82 133 P 19 24.00 -0.5
 S.D. = 0.5 on 5 of 5 obs.

% OCT 25, 1991 23h 03m 21.75±0.72s
 44.211 N ± 5.4km 12.126 E ± 7.8km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)

SFI 0.35 214 P 03 29.40 0.4
 eSg 03 34.50
 RSM 0.37 140 P 03 29.60 0.3
 eSg 03 34.10

PGD 0.44 221 P 03 30.70 -0.2
 eSg 03 37.40
 CRE 0.60 192 P 03 33.20 -0.7
 eSg 03 42.50
 ARV 0.93 140 P 03 39.60 0.2
 CTI 1.87 350 P 03 55.10 1.0
 FVI 2.43 11 P 04 01.00 -1.0
 S.D. = 0.8 on 7 of 7 obs.

OCT 25, 1991 23h 03m 34.45±0.78s
 44.151 N ± 6.2km 12.156 E ± 5.5km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)

RSM 0.31 136 P 03 41.20 0.3
 eSg 03 47.50
 SFI 0.32 224 P 03 40.60 -0.4
 eSg 03 44.70
 PGD 0.42 229 P 03 42.40 -0.6
 eSg 03 48.90
 CRE 0.54 196 P 03 44.80 -0.7
 eSg 03 53.00
 ARV 0.87 139 P 03 51.50 0.4
 eSg 04 04.80
 MME 1.05 273 P 03 55.20 0.8
 eSn 04 10.30
 BDI 1.13 266 P 03 56.60 1.0
 eSn 04 12.10
 ASS 1.14 161 P 03 56.10 0.3
 eSn 04 13.50
 WTTA 3.13 354 e(Pn) 04 24.00 -0.9
 e 05 17.00
 S.D. = 0.8 on 9 of 9 obs.

OCT 25, 1991 23h 22m 52.38±0.63s
 62.538 N ± 6.7km 151.200 W ± 7.2km
 DEPTH = 33.0km (normol)
 CENTRAL ALASKA (1)
 ML 2.9 (PMR).

PMR 1.36 133 iPc 23 16.23 1.0
 RND 1.38 50 iPd 23 17.10 1.5
 SLKM 2.09 167 eP 23 25.48 -0.3
 RSO 2.21 200 eP 23 28.15 0.5
 TTA 2.25 282 ePc 23 28.33 0.2
 SVW 2.54 238 eP 23 32.08 -0.2
 KLU 2.70 110 eP 23 32.69 -1.8
 FBA 2.81 31 eP 23 35.84 -0.2
 IMA 3.71 344 eP 23 48.00 -0.8
 S.D. = 1.1 on 9 of 9 obs.

? OCT 25, 1991 23h 31m 52.52±9.78s
 43.317 N ± 35.4km 17.756 E ± 61.6km
 DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)
 ML 2.3 (TTG).

BRY 0.71 126 iPgC 32 05.14 -1.5
 iSg 32 16.74
 HCY 1.03 148 iPgC 32 10.88 -1.0
 iSg 32 27.22
 NKY 1.04 119 iPgD 32 12.06 -0.2
 iSg 32 26.88
 PLE 1.20 89 iPgD 32 14.42 -0.5
 iSg 32 32.70
 BDV 1.30 142 iPgD 32 16.72 0.1
 iSg 32 36.94
 TTG 1.42 128 iPgD 32 17.34 -1.0
 iSg 32 40.10
 S.D. = 0.8 on 6 of 6 obs.

& OCT 25, 1991 23h 46m 17.17s
 64.686 N 137.635 W
 DEPTH = 3.3km
 SOUTHERN YUKON TERRITORY, CANADA (18)
 <AEIC>. ML 3.3 (AEIC).

TMW 2.73 242 eP 47 02.90 0.2
 eS 47 37.13
 DOT 3.00 253 eP 47 06.31 -0.2
 S 47 44.45
 PAX 3.87 247 eP 47 17.53 -1.5
 INK 3.99 23 P 47 24.00 3.5
 0.3s 14.00nm
 HDA 4.03 270 iP 47 20.60 -0.5
 CTGM 4.10 206 eP 47 22.53 0.3
 GLM 4.18 279 eP 47 21.81 -1.4

BALM	4.25	213	iP	47	23.78	-0.5
GLB	4.30	224	iP	47	23.75	-1.2
FBA	4.35	277	eP	47	23.37	-2.3
CCB	4.37	274	eP	47	23.99	-1.9
WRH	4.51	272	eP	47	26.41	-1.5
MDM	4.54	278	eP	47	26.86	-1.4
TGL	4.61	214	eP	47	29.20	-0.2
TOA	4.63	240	eP	47	29.76	0.1
CROM	4.69	215	iP	47	30.64	0.1
YAH	4.74	206	eP	47	31.97	0.6
NEA	4.92	274	eP	47	31.40	-2.4
KLU	4.94	233	eP	47	32.84	-1.3
RND	5.09	260	eP	47	35.00	-1.2
BWN	5.15	270	eP	47	34.59	-2.4
HMT	5.33	218	eP	47	39.36	-0.3
VLZ	5.34	232	iP	47	39.30	-0.3
VZW	5.47	232	eP	47	41.03	-0.5
SML	5.63	244	eP	47	42.89	-0.9
FID	5.67	230	eP	47	44.59	0.3
KNK	5.91	241	iP	47	47.68	-0.1

27 obs. associated

% OCT 25, 1991 23h 59m 11.46 ± 0.63s
 44.027 N ± 6.0km 12.144 E ± 4.4km
 DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)

SFI	0.24	243	P	59	16.30	-0.2
			eSg	59	19.30	
RSM	0.24	114	P	59	16.70	0.1
			eSg	59	21.00	
PGD	0.34	244	P	59	17.90	-0.7
			eSg	59	24.40	
CRE	0.42	199	Pc	59	20.20	0.1
			eSg	59	27.00	
ARV	0.78	132	P	59	26.40	-0.3
			eSg	59	40.00	
ASS	1.03	158	P	59	31.40	0.5
			eSg	59	47.00	
MME	1.05	280	P	59	32.60	1.1
			eSg	59	47.20	
BDI	1.12	272	P	59	32.10	-0.3
			eSg	59	48.50	
FVI	2.61	10	P	59	54.00	-0.3

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

% OCT 25, 1991 23h 59m 52.11 ± 0.76s
 44.072 N ± 6.6km 12.153 E ± 5.2km
 DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)

RSM	0.26	124	P	59	57.60	0.0
SFI	0.26	235	P	59	57.30	-0.4
			eSg	00	02.50	
PGD	0.37	238	P	59	58.90	-0.8
			eSg	00	05.50	
CRE	0.47	198	P	00	01.00	-0.6
			eSg	00	10.00	
ARV	0.81	135	P	00	07.50	-0.3
			eSg	00	21.00	
MME	1.05	277	P	00	13.00	0.9
ASS	1.07	160	P	00	13.50	1.2
BDI	1.12	270	P	00	14.00	0.8
			eSg	00	30.00	
WTTA	3.21	354	e(Pn)	00	43.00	-0.8
			ePg	00	51.50	
			e	01	35.00	

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

? OCT 26, 1991 00h 33m 55.17 ± 7.50s
 33.255 S ± 18.9km 72.231 W ± 52.0km
 DEPTH = 10.0km (geophysicist)

OFF COAST OF CENTRAL CHILE (134)

LCCH	0.60	112	iPd	34	07.50	0.3
			iS	34	16.00	
LNv	0.98	136	iPd	34	13.50	-0.2
			iS	34	27.30	
ROCH	1.06	75	iP	34	15.00	-0.3
			iS	34	29.30	
TACH	1.15	111	iPd	34	16.40	-0.3
			iS	34	32.30	
PEL	1.30	86	iPd	34	19.40	0.1
			iS	34	36.90	
CHCH	1.48	118	iPc	34	21.80	-0.1
			iS	34	41.50	
PCH	1.48	105	iP	34	22.50	0.5

iS 34 41.90
 S.D. = 0.4 on 7 of 7 obs.
 * OCT 26, 1991 01h 11m 17.62 ± 1.28s
 34.489 N ± 11.3km 33.107 E ± 14.1km
 DEPTH = 26.2 ± 14.3 km
 4.0mb (7 obs.)
 CYPRUS REGION (372)
 MD 4.0 (HLW).

BHL	2.19	105	Pg	11	54.00	0.9
			Sg	12	15.00	
SHMJ	2.83	128	Pc	12	01.80	-0.3
KFNJ	3.39	140	P	12	10.25	0.2
BCK	3.60	326	iPn	12	14.00	0.9
MKRJ	3.62	143	P	12	13.25	-0.2
QTRJ	4.01	142	P	12	17.75	-1.2
DHLJ	4.14	151	P	12	37.15	16.5X
YER	4.73	305	eP	12	28.90	-0.2
KHL	4.79	324	eP	12	29.00	-1.0
HLW	4.85	198	ePn	12	31.40	0.6
			eSn	13	29.00	

GEC2 20.31 321 ePc 15 51.90 -2.4
 0.6s 0.82nm 3.2mb
 PGF 20.46 300 eP 15 54.80 -1.1
 0.5s 3.65nm 4.0mb

SBF 21.92 303 eP 16 10.00 -0.7

0.8s 10.75nm 4.3mb
 MOX 22.48 322 iPc 16 17.50 1.4
 1.5s 13.00nm 4.2mb

LPG 22.89 307 eP 16 22.00 1.5

LPL 22.91 307 eP 16 22.10 1.5

BGF 25.81 307 eP 16 41.00 -7.2X

0.5s 2.20nm 4.0mb

S.D. = 1.3 on 15 of 17 obs.

OCT 26, 1991 01h 27m 18.59 ± 0.55s
 44.125 N ± 4.5km 12.189 E ± 5.2km
 DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)

RSM	0.27	136	P	27	25.20	0.9
			eSg	27	29.90	
SFI	0.32	230	P	27	24.80	-0.4
			eSg	27	30.50	
PGD	0.42	234	P	27	26.40	-0.8
			eSg	27	33.10	
CRE	0.53	199	P	27	28.70	-0.6
			eSg	27	37.70	
ARV	0.83	139	P	27	34.60	-0.1
			eSg	27	48.00	
MME	1.07	274	P	27	40.10	1.1
			eSg	27	54.60	
ASS	1.11	162	P	27	39.60	0.2
			eSg	27	56.20	
BDI	1.15	267	P	27	40.70	0.6
			eSg	27	55.30	
CTI	1.96	349	P	27	52.50	0.2
FVI	2.50	9	P	27	58.40	-1.5
WTTA	3.16	353	ePn	28	10.00	0.5
			eSn	28	47.00	

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

& OCT 26, 1991 01h 44m 25.16s
 60.046 N 153.124 W
 DEPTH = 122.2km

SOUTHERN ALASKA (2)

<AEIC>.

INW	0.02	349	iPc	44	41.34	0.8
			eS	44	54.45	
INE	0.03	64	iPc	44	41.31	0.7
RED	0.41	25	iPc	44	42.36	-0.9
			eS	44	55.79	
RS1	0.45	24	iPc	44	42.86	-0.7
RS2	0.46	23	iPc	44	42.81	-0.8
RSO	0.46	24	iPc	44	42.82	-0.8
RDW	0.47	20	iPc	44	42.84	-0.8
REF	0.49	25	iPc	44	43.02	-0.8
RDN	0.50	21	iPc	44	43.08	-0.7
NCT	0.53	11	iPc	44	43.16	-0.7
			eS	44	56.94	
PDB	0.60	245	ePd	44	43.18	-1.0
			eS	44	57.15	

RDT	0.64	34	iPc	44	43.83	-0.8
			eS	44	58.27	
AUL	0.68	193	eP	44	44.26	-0.6
AUE	0.70	190	iPd	44	44.15	-0.8
			eS	44	59.24	
AUP	0.70	192	iPd	44	44.43	-0.7
			eS	44	58.23	
AUH	0.70	193	eP	44	44.37	-0.7
AGU	0.71	193	ePd	44	44.40	-0.8
AUI	0.73	192	iPd	44	44.37	-0.9
			eS	44	59.32	

HOM 0.84 117 ePc 44 45.73 -0.4

NNL 0.92 89 ePc 44 46.89 0.0

XLV 0.93 129 iPc 44 45.86 -1.1

MCNL 1.06 216 iPd 44 47.08 -1.2

CNPM 1.09 118 iPc 44 47.72 -0.9

CDD 1.15 194 iPd 44 48.00 -1.2

NKA 1.17 52 iPc 44 50.29 0.9

CKL 1.22 18 iPc 44 49.49 -0.6

SPU 1.26 24 iPc 44 49.62 -0.8

BGL 1.27 16 ePc 44 50.17 -0.5

CRP 1.31 21 ePc 44 50.67 -0.5

CGLM 1.38 23 ePc 44 51.19 -0.6

NCG 1.44 19 ePc 44 52.20 -0.4

SYI 1.49 165 ePc 44 51.86 -1.1

SLKM 1.52 71 ePc 44 52.30 -1.1

SVW 1.63 312 eP 44 52.83 -1.9

SUA 1.84 38 ePd 44 56.69 -0.6

SEW 1.84 87 ePc 44 55.81 -1.4

SKT 2.09 21 iPd 44 59.34 -1.0

PMS 2.13 54 iPc 44 59.78 -1.1

KDC 2.33 172 ePd 44 00.65 -2.7

PLRM 2.50 50 eP 44 04.09 -1.4

KNK 2.67 57 eP 44 05.85 -2.0

GHO 2.68 48 eP 44 06.14 -2.0

KNIM 2.71 81 iPc 44 05.52 -2.8

CUT 2.74 29 eP 44 07.53 -1.2

MTU 2.75 89 ePc 44 07.48 -1.4

SML 2.93 51 ePd 44 08.89 -2.4

GLI 3.10 72 ePc 44 12.19 -1.3

TTA 3.21 336 eP 44 13.10 -1.9

SCM 3.35 55 eP 44 14.96 -2.0

FID 3.37 75 eP 44 14.56 -2.6

HUR 3.38 28 eP 44 16.43 -0.9

VLZ 3.52 69 eP 44 17.22 -1.9

CVA 3.71 79 eP 44 19.65 -1.9

KLU 3.82 65 eP 44 20.82 -2.4

RND 3.94 29 ePd 44 22.98 -1.8

KAIM 4.38 88 eP 44 28.90 -1.8

HMT 4.43 82 eP 44 29.52 -2.0

GLB 4.78 69 eP 44 33.72 -2.5

NEA 4.92 21 ePd 44 35.82 -2.3

WRH 5.02 26 ePd 44 37.06 -2.4

TGL 5.15 78 ePc 44 39.43 -1.9

CCB 5.24 26 ePd 44 39.54 -2.8

HDA 5.24 31 ePd 44 39.96 -2.5

BALM 5.41 75 ePc 44 43.09 -1.8

MDM 5.43 23 ePd 44 42.53 -2.5

FBA 5.46 25 eP 44 42.87 -2.6

GLM 5.62 26 eP 44 45.15 -2.6

YAH 5.68 82 eP 44 47.27 -1.5

CTGM 5.90 76 eP 44 50.23 -1.4

69 obs. associated

? OCT 26, 1991 01h 47m 59.82 ± 1.89s
 15.362 N ± 32.1km 61.423 W ± 40.8km
 DEPTH = 150.0km (geophysicist)

LEEWARD ISLANDS (92)

BBL 0.17 342 eP 48 21.05 -0.2

MGG 0.56 10 ePd 48 22.10 0.4

DOG 0.69 344 eP 48 22.65 0.1

26d 01h

PAG 0.71 340 eP 48 22.70 0.0
S 48 42.90
DEG 1.01 20 ePd 48 24.83 -0.2
SEG 1.04 356 ePd 48 24.96 -0.2
S.D. = 0.3 on 6 of 6 obs.

OCT 26, 1991 01h 48m 42.32±0.41s
46.137 N ± 5.5km 6.377 E ± 3.9km
DEPTH = 10.0km (geophysicist)
SWITZERLAND (544)
ML 2.6 (LDG).

EMS 0.39 100 ePc 48 49.20 -1.2
LPL 0.67 158 Pg 48 55.80 0.0
LPG 0.69 158 Pg 48 56.20 0.0
DIX 0.72 94 ePc 48 55.30 -1.4
BNI 1.10 169 P 49 03.40 0.3
eSg 49 19.30
MMK 1.11 94 ePd 49 02.80 -0.5
ORO 1.23 114 P 49 05.70 0.4
eSg 49 22.00
SSB 1.55 237 Pn 49 12.29 2.3
Sg 49 33.29
BSF 1.72 9 Pg 49 14.00 1.4
Sg 49 34.40
TMA 1.74 90 ePc 49 14.30 1.4
SMF 1.83 287 Pn 49 14.40 0.4
Pg 49 17.60
Sg 49 40.00
LBF 1.86 298 Pn 49 14.40 -0.1
Pg 49 17.20
Sg 49 40.60
HAU 1.87 359 Pg 49 15.80 1.1
Sg 49 39.00
FEL 2.07 32 ePn 49 44.00 26.4X
LOR 2.07 304 Pn 49 16.60 -0.9
Pg 49 21.00
Sg 49 46.40
SSF 2.18 296 Pn 49 18.40 -0.8
Pg 49 23.60
Sg 49 50.00
AVF 2.19 288 Pn 49 18.80 -0.5
Pg 49 23.60
Sg 49 50.60
SBF 2.39 161 Pn 49 26.00 3.7X
Sn 49 55.40
BGF 2.48 281 Pn 49 22.80 -0.6
Pg 49 30.80
Sg 50 01.00
MAF 2.65 273 Pn 49 25.00 -0.8
Pg 49 33.00
Sg 50 06.60
TCF 2.90 274 Pn 49 28.80 -0.6
S.D. = 1.1 on 19 of 21 obs.

% OCT 26, 1991 02h 02m 29.25±0.60s
41.829 N ± 6.4km 20.102 E ± 5.1km
DEPTH = 10.0km (geophysicist)
ALBANIA (391)
ML 2.1 (TTG).

ULC 0.65 282 iPg 02 42.07 -0.2
iSg 02 52.03
PVY 0.77 353 iPg 02 43.77 -0.6
iSg 02 55.19
TTG 0.87 314 iPg 02 45.61 -0.3
iSg 02 58.43
OHR 0.89 144 ePg 02 46.00 -0.3
iSg 02 59.00
SKO 1.01 81 ePn 02 48.80 0.5
iSg 03 01.00
BDV 1.05 296 iPg 02 49.15 0.1
iSg 03 04.89
IVA 1.05 352 iPg 02 48.95 -0.2
iSg 03 04.51
NKY 1.28 321 iPg 02 53.33 0.3
iSg 03 11.73
HCY 1.34 298 iPg 02 54.05 0.1
iSg 03 14.19
BRY 1.57 313 iPg 02 58.17 0.8
iSg 03 20.35
S.D. = 0.5 on 10 of 10 obs.

OCT 26, 1991 02h 25m 20.47±0.31s
44.157 N ± 2.8km 12.190 E ± 3.2km
DEPTH = 18.3 ± 3.0 km
NORTHERN ITALY (545)

ML 3.3 (VIE), 3.2 (LDG).

RSM 0.30 140 P 25 27.40 0.4
eSg 25 32.10
SFI 0.34 226 Pd 25 27.20 -0.5
eSg 25 33.70
PGD 0.44 230 P 25 28.70 -0.9
eSg 25 35.70
CRE 0.56 198 P 25 31.00 -0.5
eSg 25 39.80
ARV 0.85 140 P 25 36.80 0.3
eSg 25 49.40
MME 1.07 272 P 25 41.50 1.1
eSg 25 56.70
ASS 1.14 162 P 25 41.70 0.4
eSg 25 58.00
BDI 1.15 266 P 25 42.40 0.8
eSg 25 59.50
MNS 1.81 168 P 25 51.50 0.5
VVI 1.83 5 P 25 51.00 -0.4
SAL 1.87 321 P 25 52.10 0.2
eSn 26 15.10
TRI 1.91 35 P 25 50.80 -1.7
CTI 1.93 349 P 25 52.40 -0.5
RIY 1.96 52 iPn 25 53.00 -0.2
AQU 2.01 153 P 25 54.10 0.1
BOB 2.06 288 P 25 56.50 1.8
VOY 2.23 32 ePn 25 56.90 -0.3
eSg 26 34.10
CEY 2.24 44 e(Pn) 26 02.00 4.7X
eSn 26 35.00
RDP 2.43 171 P 26 01.00 1.0
FVI 2.47 9 P 26 00.30 -0.2
LJU 2.51 41 e(Pn) 26 08.00 6.9X
eSn 26 31.00
VBY 2.56 57 eP 26 33.80 31.9X
iSn 26 52.90
PCP 2.64 280 P 26 03.96 0.9
SDI 2.73 153 P 26 04.00 -0.2
CKI 2.82 277 P 26 05.80 0.3
PGF 2.83 236 Pn 26 05.80 0.1
Sn 26 40.00
OGA 2.83 344 ePn 26 06.70 0.9
FIN 2.86 272 P 26 06.53 0.4
SCE 2.90 354 ePn 26 07.90 1.1
OSS 2.91 331 ePd 26 08.80 1.9
VDL 3.02 321 ePd 26 09.20 0.8
TMA 3.05 311 ePc 26 09.00 0.1
ROB 3.11 274 P 26 10.12 0.5
IMI 3.11 267 P 26 10.12 0.4
WTTA 3.13 353 iPnc 26 12.00 1.9
iPg 26 21.60
iSn 26 48.70
iSg 27 03.00
ORO 3.33 298 P 26 12.00 -0.9
eSn 26 49.60
ORX 3.33 298 P 26 11.86 -1.0
ENR 3.43 273 P 26 15.04 0.8
SBF 3.44 267 Pn 26 14.80 0.4
Sn 26 56.00
STV 3.50 273 P 26 15.76 0.5
LLS 3.52 322 ePd 26 16.50 0.9
MMK 3.54 304 ePd 26 14.70 -1.3
BHB 3.59 283 P 26 15.14 -1.3
RSP 3.66 287 P 26 15.14 -2.4
PZZ 3.67 277 P 26 17.60 -0.1
DIX 3.89 301 ePd 26 21.80 0.9
RRL 3.94 283 P 26 20.06 -1.5
BNI 4.04 285 P 26 21.90 -1.0
FRF 4.05 263 Pn 26 23.40 0.4
Sn 27 09.80
LPG 4.09 291 Pn 26 22.60 -1.2
LPL 4.11 291 Pn 26 23.00 -1.0
EMS 4.19 299 ePd 26 26.60 1.5
LMR 4.20 261 Pn 26 24.60 -0.4
LRG 4.28 263 Pn 26 27.00 0.8
Sn 27 16.00
SLE 4.44 326 ePd 26 27.70 -0.7
FEL 4.72 323 eP 26 30.70 -1.9X
KHC 5.07 10 ePn 26 36.00 -1.3X
e 26 57.50
eSg 27 35.70
BSF 5.26 316 Pn 26 39.20 -1.0X
Sn 27 35.60
CDF 5.45 323 Pn 26 41.60 -1.3X
Sn 27 40.00
HAU 5.60 315 Pn 26 43.40 -1.5X

Sn 27 42.80
SMF 6.38 296 Pn 26 54.00 -1.9X
Sn 28 03.00
LBF 6.42 299 Pn 26 54.40 -2.1X
Sn 28 04.00
LOR 6.61 301 Pn 26 57.00 -2.2X
Sn 28 09.00
AVF 6.75 296 Pn 26 59.20 -1.9X
SSF 6.75 299 Pn 26 59.20 -1.9X
Sn 28 11.00
BGF 7.01 293 Pn 27 02.40 -2.3X
S.D. = 1.0 on 52 of 66 obs.

OCT 26, 1991 02h 27m 31.57±0.11s
18.506 N ± 2.5km 145.668 E ± 2.9km
DEPTH = 192.0km (28 depth phases)
5.5mb (69 obs.)
MARIANA ISLANDS (216)
mb 5.7 (BRK). Mo=3.0*10**17 Nm
(PPT).
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=140 Dip=82 Slip=-50
NP2: 239 41 -168
Principal Axes:
T Plg=26 Azm=200
P 39 86
Comment: The focal mechanism is
poorly controlled and
corresponds to normal faulting
with a large strike-slip
component. The preferred fault
plane is not determined.

RADIATED ENERGY
No. of sta: 6 Focal mech. F
Energy 9.2±3.5*10**12 Nm
MOMENT TENSOR SOLUTION
Dep 174 No. of sta: 18
Moment Tensor; Scale 10**18 Nm
Mrr=0.18 Mtt=0.22
Mff=-0.39 Mrt=-0.88
Mrf=0.50 Mtf=0.28
Principal axes:
T Val=1.10 Plg=46 Azm=189
N 0.02 21 303
P -1.12 36 50
Best Double Couple: Mo=1.1*10**18
NP1:Strike=198 Dip=22 Slip=166
NP2: 301 85 69
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 27S, 64C
Centroid Location:
Origin Time 02:27:36.5 0.2
Lat 19.03N 0.03 Lon 145.52E 0.02
Dep 190.3 1.1 Half-duration 3.8
Moment Tensor; Scale 10**17 Nm
Mrr=-0.24 0.20 Mtt=0.31 0.28
Mff=-0.07 0.26 Mrt=-7.16 0.23
Mrf=6.67 0.22 Mtf=-4.22 0.23
Principal Axes:
T Val=12.10 Plg=38 Azm=223
N -4.10 1 133
P -8.00 52 41
Best Double Couple: Mo=1.0*10**18
NP1:Strike=321 Dip=7 Slip=-81
NP2: 132 83 -91

GUMD 4.95 189 ePc 28 47.01 1.2
PJG 4.95 189 eP 28 47.50 1.7
GUA 4.99 188 eP 28 47.40 1.0
0.8s 623.88nm
MAT 19.13 341 eP 31 39.00 -3.3X
eS 35 05.00
SHK 19.71 327 eP 31 45.20 -3.0X
JAY 21.45 194 iPd 32 06.60 0.9
1.0s 76.50nm 5.2mb
DAV 22.61 242 eP+ 32 19.00 2.1
1.5s 4666.67nm 6.8mb X
RAB 23.45 164 iPc+ 32 26.30 1.4
0.8s 1373.13nm 6.6mb X
iS 36 20.00
MDG 23.60 180 iPc 32 27.20 0.8
BAG 24.02 269 eP 32 32.00 1.5
MNDI 24.58 185 eP 32 36.00 0.1
SAP 24.75 352 eP 32 37.00 0.1
LAT 25.03 177 iPc 32 39.60 -0.1
SSE 25.45 304 P 32 42.80 -0.6

	1.0s	37.00nm		5.0mb			i	36	25.00	589kmX	LSA	50.60	294	P	36	14.50	1.0			
	Z 20s	3.20um		4.8Msz	WR2	39.79	197	iPd	34	48.20	0.7		S		43	14.00				
	N 10s	1.80um				0.9s	506.30nm			6.1mb			sS		44	25.00				
		pP	33	20.00	187km		eS	40	19.30		RIV	52.30	174	iPc	36	25.80	0.4			
		sS	38	04.00		CD2	39.81	296	P	34	48.00	0.4	OPA	52.75	76	P	36	29.50	0.5	
MNI	26.55	233	ePc	32	55.50	1.9	Z 16s	2.32um		5.1MszX	KIP	52.78	77	eP	36	30.71	1.5			
NJ2	27.65	304	Pc	33	07.00	3.6X	N 10s	3.26um				eS			43	47.03				
	1.2s	74.00nm		5.3mb			S	40	35.00		HON	52.80	77	P	36	29.60	0.2			
Z	22s	2.07um		4.7Msz	KHKI	39.91	231	ePc	34	49.30	0.8	DHH	52.99	77	P	36	30.00	-0.8		
PMG	27.78	177	iPc+	33	03.30	-1.3	KMI	40.27	287	ePc	34	52.68	1.0	ADE	53.59	187	iPc	36	34.00	-1.0
AAI	27.98	220	iPd	33	07.50	1.1		1.6s	160.00nm	5.3mb		1.4s	595.35nm				6.1mb			
MDJ	29.30	336	eP	33	15.15	-2.9	Z 18s	2.10um		5.0Msz	CNB	53.64	176	iPd	36	35.40	0.0			
		eS	37	54.62			N 10s	0.70um				0.3s	49.00nm				5.6mb			
		e	38	58.62			E 10s	0.70um				e			38	41.00	712kmX			
HKC	29.73	283	ePd	33	23.60	1.6		iS	40	47.16		WMO	54.41	311	ePc	36	40.14	-0.9		
SLKI	29.90	210	iPc	33	24.00	0.6		iSS	41	54.20			1.5s	190.00nm			5.6mb			
SNY	29.92	326	Pd	33	21.60	-1.8		iSS	43	53.39		Z 18s	1.43um				5.1Msz			
	1.6s	73.00nm		5.2mb				eScS	34	36.43		E 11s	1.35um							
Z	13s	2.38um		5.0MszX	SMY	40.72	26	P	34	56.00	1.3		ePcP		37	37.42				
N	13s	1.24um			LZH	40.73	304	ePc	34	54.82	-0.5		PP		37	42.50				
E	10s	0.95um				1.5s	180.00nm			5.4mb			iS		44	02.81				
		S	38	02.00		Z 18s	1.92um			5.0Msz			iSS		45	13.44				
CN2	30.42	330	eP	33	28.40	0.6		eS	40	50.68			eScS		46	06.41				
	0.5s	9.60nm		4.8mb			iS	41	57.73		COOL	54.47	206	iPc	36	40.90	-0.6			
Z	17s	5.22um		5.2MszX			eSS	44	06.43			0.6s	123.00nm				5.8mb			
N	11s	1.47um					i	44	51.13		SDH	54.63	34	P	36	41.40	-0.9			
GZH	30.52	284	Pc	33	30.00	1.1	PVC	42.34	147	iPd	35	09.00	0.7	SKN	54.89	79	P	36	45.80	1.1
Z	20s	2.87um		4.9Msz	ASPA	43.46	196	iPc	35	17.60	0.2	MHA	54.91	78	P	36	46.50	1.7		
		S	38	18.00			0.5s	464.40nm		6.3mb		GUN	55.29	292	P	36	47.80	-0.1		
TSM	30.62	246	iPd	33	31.30	1.4	Z 23s	2.50um		5.1MszX	MRWA	55.42	212	iPc	36	48.00	-0.3			
	0.8s	861.20nm		6.5mb X			ePP	36	53.10			0.6s	167.00nm				6.0mb			
WHN	30.80	299	eP	33	32.00	0.7		eS	41	28.20		BFD	55.46	183	iPc	36	44.80	-3.6X		
	1.0s	31.00nm		5.0mb			iScS	44	54.70			1.0s	185.00nm				5.8mb			
Z	24s	2.03um		4.7MszX	NST	43.53	273	iPd	35	23.00	4.9X		i		38	48.30	680kmX			
E	14s	1.66um			CHG	44.17	278	ePc	35	23.80	0.6	PKI	55.73	291	P	36	50.00	-1.1		
		S	38	14.00			0.8s	20.90nm		4.7mb		TOO	55.77	180	iPc	36	50.90	0.2		
HNR	31.13	152	eP	33	25.00	-9.3X		eS	41	36.00			0.7s	129.00nm			5.8mb			
KKM	31.27	250	ePc	33	37.00	1.4	CHTO	44.17	278	iP	35	23.70	0.5	KKN	55.82	291	P	36	50.60	-1.0
	0.9s	1033.00nm		6.5mb X			1.2s	46.88nm		4.9mb		DMN	55.99	291	P	36	52.00	-0.9		
PCI	31.89	236	ePc	33	40.40	-0.5		i	36	13.50	234kmX	BAL	56.22	210	iPc	36	53.70	-0.3		
BJI	33.25	316	eP	33	52.00	-0.5	ADK	44.50	33	P	35	25.80	0.5	GKN	56.38	292	P	36	54.80	-0.7
	1.8s	320.00nm		5.7mb			1.1s	800.00nm		6.1mb		ANM	56.39	23	P	36	54.60	-0.2		
		eS	38	52.00				pP	36	09.00	199km	KLB	56.55	209	iPc	36	55.80	-0.5		
		eScP	39	52.00		NNT	44.55	269	iPc	35	27.40	1.2		0.3s	66.00nm		5.9mb			
		eSS	41	16.00		KGM	44.61	253	ePc	35	29.10	2.4	MUN	57.59	210	iPc	37	03.00	-0.6	
		eScS	43	53.00			1.0s	687.40nm		6.1mb			1.0s	900.00nm			6.5mb			
QIZ	33.89	277	eP	33	58.00	-0.2	GTA	44.64	308	P	35	25.80	-1.0	NWAO	57.92	208	ePc	37	05.71	-0.1
	N 13s	0.82um					1.4s	120.00nm		5.2mb		SVW	58.99	29	P	37	13.40	0.4		
E	14s	1.41um				Z 20s	2.72um			5.2Msz		PDB	59.26	31	P	37	13.50	-1.3		
		S	39	10.00		N 14s	2.85um					TTA	59.43	27	P	37	15.70	-0.4		
MTN	34.29	206	eP	34	01.00	-0.6		pP	36	05.60	182kmX	KDC	59.57	33	P	37	16.20	-0.7		
	0.5s	360.00nm		6.3mb				ScP	40	40.00		RSO	60.14	30	P	37	19.50	-1.5		
TIY	34.75	310	eP	34	05.00	-0.4		S	41	46.00		WCZ	60.58	153	P	37	25.00	1.0		
Z	18s	1.83um		4.9Msz				ScS	45	01.20		SLKM	61.37	30	P	37	28.20	-0.9		
N	10s	2.17um			RMO	44.83	176	iPc	35	27.80	-0.4	IMA	61.46	24	P	37	29.30	-0.5		
		S	39	15.00			0.9s	484.00nm		6.0mb		KUZ	61.85	153	P	37	32.60	0.2		
MKS	34.97	230	iPc	34	09.00	1.7		e	40	40.00		PMR	62.13	29	P	37	32.70	-1.3		
XAN	36.18	303	P	34	18.30	0.9	OLP	44.84	182	iPc	35	27.20	-1.0	BRW	62.44	18	P	37	35.60	-0.4
	1.5s	39.00nm		4.8mb			0.8s	1330.00nm		6.5mb		RND	62.68	27	P	37	35.90	-1.9		
N	14s	3.97um			KHT	45.16	273	eP	35	31.80	0.8	NDI	62.81	293	eP	37	38.00	-1.1		
		ScS	44	11.50		DZM	45.16	152	iPc	35	31.60	0.6	KSH	62.95	305	P	37	40.00	-0.1	
HHC	36.72	315	P	34	22.40	0.5		iS	41	55.60		E 10s	1.97um							
	1.2s	39.00nm		4.9mb	SNG	45.22	262	iPc	35	33.90	2.4		sS		47	12.00				
Z	21s	1.90um		4.9Msz		1.2s	381.25nm			5.7mb		MOZ	62.95	155	P	37	39.80	0.1		
N	12s	0.81um					eS	42	03.00		UTU	63.25	153	eP	37	42.40	0.7			
E	13s	1.09um			IPM	45.73	258	ePc	35	38.00	2.4	TAZ	63.44	153	eP	37	43.30	0.5		
		S	39	50.00			1.1s	392.50nm		5.8mb		PATZ	63.45	153	P	37	43.60	0.5		
GYA	36.79	290	iPc	34	23.60	0.9	BRS	46.14	171	iPd	35	38.00	-0.6	COL	63.48	26	iPd	37	40.89	-2.0
	1.2s	43.00nm		5.0mb			0.8s	45.00nm		5.0mb			iS		45	58.40				
Z	18s	2.16um		5.0Msz				i	35	47.00	30kmX		eSKS		47	05.44				
		pP	35	02.40	178kmX			i	36	35.40			i		47	12.89				
		S	39	53.40				i	37	30.00		FBA	63.48	26	P	37	41.10	-1.8		
		ScP	40	08.00		MBL	46.84	214	iPc	35	44.90	0.7		pP	38	24.60	186km			
		PcS	40	24.00			0.4s	55.00nm		5.4mb		HYB	63.50	281	eP	37	42.70	-1.1		
		ScS	44	15.40			47.70	137	eP	35	44.60	-6.2X		1.0s	45.00nm		5.3mb			
BTO	37.66	313	P	34	30.00	0.2	KSI	47.78	247	ePc	35	52.50	0.9		e	38	01.50	72kmX		
	1.2s	70.00nm		5.2mb				e	38	00.00			eS		46	00.00				
N	13s	2.12um			WARB	48.11	203	iPc	35	55.20	1.2	KLU	63.62	30	P	37	43.20	-0.8		
E	13s	1.60um			VUN	48.54	137	eP	35	58.60	1.3	HBZ	63.70	151	P	37	43.00	-1.6		
		pP	35	07.00	171kmX	SYA	48.61	137	eP	35	57.30	-0.5	RUZ	63.70	155	P	37	44.70	0.1	
		S	40	03.00		ARMA	48.98	173	iPc	36	00.20	-0.4	URZ	63.72	153	P	37	43.40	-1.3	
KNA	37.89	207	eP	34	32.90	1.1		0.5s	65.00nm	5.4mb		CNZ	63.85	154	P	37	45.80	0.1		
	0.6s	419.00nm		6.3mb				e	37	54.00	641kmX	NGZ	63.85	154	eP	37	45.60	-0.2		
CTAO	38.36	179	iPc	34	34.55	-1.1	CMS	49.71	180	iPc	36	05.30	-0.7	PUZ	64.07	152	P	37	45.30	-1.7
		iS	40	13.98				0.8s	155.00nm	5.6mb		BSZ	64.11	155	P	37	47.40	0.2		
QIS	39.27	189	iPc	34	43.20	0.0			i	36	20.00	56kmX	PAHZ	64.19	153	P	37	46.90	-0.9	

26d 02h

TAHZ	64.29	154	eP	37	48.80	0.2	FHC	78.41	51	ePd	39	13.99	1.5	PLM	86.02	56	P	39	52.20	0.1
NOZ	64.42	152	P	37	48.10	-1.1			ipP	40	01.42	196km	PTI	86.03	46	P	39	53.10	1.2	
MDH	64.46	153	P	37	48.60	-0.9	LON	78.44	45	ePd	39	12.41	-0.2	HVU	86.15	47	P	39	53.10	0.6
DIW	64.58	157	P	37	49.60	-0.7	FOX	78.47	51	iPd	39	14.18	1.4	PFO	86.26	56	iPd	39	53.44	0.3
WAHZ	64.60	154	P	37	49.20	-1.3			epP	40	01.06	193km	BAR	86.40	57	eP	39	54.00	0.3	
TTH	64.67	154	eP	37	50.10	-0.7	PNT	79.19	42	iPd	39	17.00	0.5	KAF	86.58	336	iP	39	51.80	-2.1
MAHZ	64.82	153	P	37	51.00	-0.8			1.0s 111.00nm			5.5mb			0.6s	7.50nm			4.7mb	
KIW	65.02	156	P	37	51.70	-1.3	VGB	79.46	46	P	39	18.80	0.7	DUG	86.69	49	P	39	55.90	0.8
MNG	65.03	155	P	37	51.60	-1.5	WDC	79.52	51	iPd	39	19.23	0.8			pP	40	43.80	194km	
			e	40	15.90	783kmX			epP	40	06.96	196km	FFC	87.27	32	iPd	39	57.40	0.0	
TEHZ	65.04	154	P	37	52.20	-1.0	LBFM	79.79	50	P	39	21.00	0.8		1.3s	307.00nm			6.0mb	
THZ	65.05	158	P	37	51.50	-1.8			pP	40	06.40	186km	DAU	87.72	48	P	40	00.90	0.6	
TCW	65.07	157	P	37	52.00	-1.4	MIN	80.27	51	ePd	39	22.81	0.2	GLA	87.73	56	eP	40	01.00	0.9
MRW	65.25	156	P	37	53.00	-1.5	ZSP	80.44	53	ePd	39	24.29	0.9	MSU	87.77	50	P	40	00.70	0.2
BALM	65.27	31	P	37	54.00	-0.6	PCC	80.47	54	iPd	39	23.98	0.5	BW06	87.98	45	iP	40	01.20	-0.2
CAW	65.29	156	P	37	53.90	-0.9			iP	40	11.68	196km		1.0s	40.00nm			5.2mb		
WEL	65.32	156	Pc	37	53.90	-1.1	DPW	80.50	43	P	39	23.30	-0.3			ipP	40	49.10	193km	
	1.0s	*****nm				8.3mb X	ORV	80.57	52	ePd	39	24.50	0.5	NUR	88.15	335	iP	39	59.20	-2.3
PGZ	65.35	155	P	37	53.70	-1.4			iP	40	12.25	196km			eS	50	20.00			
WDW	65.39	156	P	37	53.80	-1.6	GCC	80.90	54	ePd	39	26.34	0.6	CSY	88.55	193	eP	40	04.10	1.0
			e	38	38.30	189km			iP	40	14.30	197km		0.6s	20.00nm			5.2mb		
WVZ	65.47	160	eP	37	54.30	-1.6	MHC	81.08	54	iPd	39	27.95	1.1			i	40	25.50	78kmX	
MTW	65.50	156	P	37	54.30	-1.8			1.1s 187.00nm			5.7mb			i	40	27.80			
CCW	65.52	157	P	37	54.80	-1.4			epPc	40	14.05	188km	MSL	88.84	308	ePc	40	02.50	-2.7X	
MOW	65.63	156	P	37	55.30	-1.7	ARN	81.16	54	P	39	28.20	1.0			eS	50	11.50		
BLW	65.67	156	P	37	55.90	-1.3	SAO	81.39	54	ePd	39	28.89	0.5			eSKS	50	28.50		
AMW	65.73	156	P	37	56.40	-1.1			epP	40	16.60	195km	BHD	89.04	305	ePd	40	07.50	1.3	
			e	38	40.90	189km	PRS	81.58	55	iPd	39	30.30	1.0			eS	50	16.50		
KHZ	65.85	158	P	37	56.10	-2.2			ipP	40	17.24	192km			eSKS	50	35.00			
EWZ	65.90	160	eP	37	57.30	-1.3	LLA	81.82	54	ePd	39	31.41	0.8	RSSD	91.04	43	P	40	15.00	-0.6
MSZ	66.07	163	P	37	59.20	-0.5			iP	40	19.56	197km		0.9s	74.35nm			5.7mb		
BWZ	66.52	161	P	38	01.20	-1.3	CMB	81.84	53	iPd	39	31.22	0.5	UPP	91.30	337	iP	40	13.10	-3.0X
			e	38	30.60	119kmX			epP	42	38.92		GOL	92.13	47	P	40	22.20	1.5	
MQZ	66.67	159	P	38	02.00	-1.5			iS	49	28.30		HFS	92.55	338	eP	40	19.40	-2.5X	
POO	67.63	2B3	iPd	38	08.20	-1.9			eS	49	29.13			0.5s	5.70nm			4.9mb		
			iS	46	48.00				eScS	49	43.75		Z	1Bs	0.66um			5.1msz		
TUZ	67.73	162	P	38	09.30	-0.8			ePS	50	12.72				LR	18	15.00			
			e	38	36.00	106kmX	KEV	82.11	342	eP	39	30.00	-1.4	NB2	92.74	340	P	40	19.90	-3.0X
BOM	68.50	284	eP	38	07.60	-7.8X			i	40	14.90	183km		0.7s	3.00nm			4.5mb		
			eS	47	59.60				eS	49	24.00		ANMO	93.40	52	ePd	40	27.43	0.8	
SIT	68.71	35	P	38	16.20	0.2			ePPS	50	40.00				ePP	44	11.17			
INK	69.56	23	iPd	38	19.90	-1.2	PRi	82.18	55	ePd	39	33.80	1.2			eHPP	44	12.27		
	0.9s	89.00nm				5.5mb			iP	40	21.07	193km			iS	51	19.37			
QUE	71.42	296	eP	38	33.50	0.2	PHAM	82.47	55	P	39	35.20	1.2			iS	52	04.06		
	1.1s	50.63nm				5.2mb	PKEM	82.63	55	P	39	36.50	1.7	ALO	93.41	52	iPd	40	27.10	0.5
			ePP	39	21.40		FRi	82.66	54	ePd	39	35.50	0.6		1.1s	69.62nm			5.7mb	
			eS	47	35.50				iP	40	22.86	193km			iP	41	16.00	197km		
			eSS	48	52.00		BCH	82.91	55	P	39	37.30	0.9	KONO	94.32	339	eP	40	41.46	11.4X
AFR	72.87	116	iP	38	43.90	2.3	IR4	83.30	305	iPd	39	39.50	1.1			eS	51	18.19		
	1.0s	120.00nm				5.6mb	IR7	83.39	305	iPd	39	38.80	0.0			iS	52	35.44		
PPT	73.06	116	iP	38	45.10	2.4	IR1	83.41	305	iPd	39	39.30	0.3	ACO	97.87	47	iPc	40	46.80	0.2
	1.0s	70.00nm				5.3mb	BONR	83.43	52	P	39	40.00	0.8	KSP	97.91	330	ePc	40	45.80	-0.7
PAE	73.10	116	iP	38	45.30	2.4	SOD	83.53	340	iP	39	37.30	-1.4			e	41	29.40	173kmX	
	1.0s	70.00nm				5.3mb			i	40	20.30	173kmX			e	44	37.50			
PPN	73.16	115	iP	38	45.50	2.2	IR5	83.56	305	eP	39	40.00	0.3	BRG	98.98	331	eP	40	50.70	-0.7
	1.0s	55.00nm				5.2mb	SHI	83.69	299	eP	39	40.00	-0.5			epP	41	38.00	190km	
MBC	73.34	14	iPd	38	43.00	-0.4	ABL	83.69	56	P	39	41.10	0.6			eSKS	51	08.00		
	0.9s	117.00nm				5.6mb	ISA	84.02	55	eP	39	41.00	-0.9	CLL	99.09	332	eP	40	50.00	-1.9
			pP	39	25.50	176kmX	CWC	84.08	54	eP	39	43.00	0.7			epP	41	36.00	184km	
PMO	73.41	112	iP	38	47.00	2.3	SES	84.10	39	iPd	39	42.50	0.5			eSKS	51	08.00		
	1.0s	100.00nm				5.5mb			0.9s	243.00nm		5.9mb			PKKP	57	46.10			
TVO	73.43	116	iP	38	47.60	2.7X			pP	40	28.00	184km	MEO	99.22	49	iPd	40	52.60	-0.2	
	1.0s	75.00nm				5.4mb	TNP	84.20	52	P	39	43.80	0.9	ZST	99.28	328	eP	40	52.40	-0.4
MCQ	73.59	172	eP	38	44.60	-0.4			pP	40	31.20	193km	GEC2	100.51	330	ePd	40	55.70	-2.6X	
	0.9s	43.10nm				5.2mb	DAG	84.47	356	iPc	39	42.00	-1.2		1.0s	2.13nm			4.6mb	
TPT	73.65	112	iP	38	48.20	2.1			1.6s	120.00nm		5.4mb			ePP	45	04.90			
	1.0s	55.00nm				5.2mb	CLC	84.64	54	iPd	39	46.00	1.0	SKO	100.83	321	e(Pd	40	59.00	-0.8
VAH	73.75	113	iP	38	48.40	1.8	PAS	84.73	56	ePd	39	46.77	1.4	CCM	102.43	43	ePd	41	01.75	-5.2X
	1.0s	40.00nm				5.1mb			iSKS	49	48.97				iSKS	51	26.13			
RUV	73.94	112	iP	38	49.80	2.0			iS	49	56.50				eSKS	52	00.56			
	1.0s	85.00nm				5.4mb	MWC	84.80	56	eP	39	46.00	0.0			eHSKKS	52	02.22		
TBI	75.76	121	iP	39	02.30	4.3X	SBB	84.83	55	iPc	39	46.00	0.0			ePS	52	47.90		
	1.0s	145.00nm				5.7mb	LRM	84.90	43	iPd	39	46.80	0.5	LSZ	120.34	263	iPKP	46	01.00	-1.4
MAIO	76.28	304	eP	39	00.00	-1.0	SSK	85.09	56	P	39	47.60	0.2	BUL	120.90	257	iPKPd	46	02.00	-1.3
			e	48	31.00		HPI	85.23	46	P	39	49.10	1.0		0.9s	5.04nm				
PGC	76.91	43	ePd	39	04.90	0.9	RVR	85.41	56	eP	39	48.00	-0.8	SLR	122.00	251	iPKPc	46	03.20	-2.1
	0.8s	88.00nm				5.5mb	OBN	85.41	327	eP	39	48.00	-0.3		1.3s	48.00nm				
MCW	77.30	43	P	39	07.40	1.1			1.5s	*****nm		8.3mb X	TIO	124.39	332	iPKP	46	09.00	-0.8	
BMW	77.56	45	P	39	08.60	0.8			Z	18s	0.60um	5.0msz	SNA	124.72	193	iPKPd	46	08.40	-0.6	
			pP	39	55.60	194km			iP	40	37.00	199km		1.0s	60.00nm					
GMW	77.60	44	P	39	09.20	1.3			e	44	12.00		UPA	127.71	62	ePKPd	46	15.00	-1.4	
COR	77.96	47	ePc	39	08.42															

KIC 141.76 308 PKP 46 35.50 -7.3X
 TIC 141.78 308 PKP 46 35.98 -6.8X
 LIC 142.06 308 PKP 46 36.44 -6.8X
 LCCH 143.58 122 iPKPc 46 43.40 -1.9
 LNV 143.58 122 iPKPc 46 43.20 -2.1
 TACH 144.04 122 iPKPc 46 44.80 -1.3
 ROCH 144.16 121 iPKPc 46 45.50 -1.1
 CHCH 144.19 123 iPKPc 46 45.00 -1.4
 PEL 144.38 121 iPKPc 46 46.00 -0.8
 PCH 144.39 122 iPKPc 46 46.00 -0.8
 ANT 146.00 105 ePKP 46 51.00 1.3
 RTRS 146.08 117 ePKPd 46 51.20 1.6
 RTCB 146.34 119 iPKPd 46 51.00 0.8
 RTLL 146.65 119 ePKPc 46 51.10 0.5
 CFA 146.77 120 ePKP 46 51.00 0.2
 ZOBO 147.70 91 ePKPc 46 53.34 0.0
 i 47 42.34

LPB 147.77 92 iPKPc 46 34.00 -19.2X
 1.0s 160.00nm
 PPD 163.69 105 ePKP 47 13.50 0.7
 e 48 07.60
 e 48 55.90

BAO 166.63 80 ePKPd 47 16.40 0.8
 e 48 18.70
 VAO 167.36 113 (PKP) 47 16.00 0.1
 e 48 24.10

SOB1 168.78 35 ePKP 47 13.80 -3.2X
 e 48 08.40
 e 48 27.30
 e 49 16.40

PDCR 172.48 39 ePKP 47 18.10 -0.6
 (pPKP) 48 08.00
 S.D. = 1.1 on 273 of 298 obs.

OCT 26, 1991 02h 36m 53.15 ± 0.32s
 44.175 N ± 2.8km 12.199 E ± 3.4km
 DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)
 ML 3.0 (VIE), 3.0 (LDG).

RSM 0.31 144 P 37 00.60 1.1
 eSg 37 04.50
 SFI 0.36 225 Pd 37 00.50 0.0
 eSg 37 05.80

PGD 0.46 229 Pd 37 01.90 -0.6
 eSg 37 08.90
 CRE 0.58 198 Pd 37 04.40 -0.5
 eSg 37 12.90

ARV 0.86 141 P 37 09.90 0.1
 eSg 37 23.00
 MME 1.08 271 P 37 15.40 1.8
 eSg 37 30.30

ASS 1.15 163 P 37 14.80 0.0
 eSg 37 32.50
 BDI 1.16 265 P 37 16.20 1.3
 eSg 37 31.40

VVI 1.81 5 P 37 24.30 -0.4
 eSg 37 47.50
 MNS 1.82 169 P 37 24.00 -0.8
 TRI 1.89 35 iP 37 49.30 23.5X
 i 37 58.30

CTI 1.91 348 P 37 25.60 -0.6
 eSn 37 49.80
 RIY 1.95 52 ePn 37 27.20 0.6
 BOB 2.06 288 P 37 28.00 -0.2

VOY 2.21 32 e(Pn) 37 30.20 -0.3
 eSg 38 07.10
 FVI 2.45 9 P 37 33.80 0.0
 LJU 2.49 41 e(Pn) 37 43.50 9.1X
 eSn 38 05.00

VBY 2.55 58 eP 38 07.00 31.8X
 e 38 24.40
 SDI 2.74 154 P 37 38.00 0.0
 PGF 2.84 236 Pn 37 39.40 -0.1
 Sn 38 12.00

OSS 2.90 331 ePd 37 42.00 1.7
 VDL 3.01 321 ePd 37 42.50 0.6
 TMA 3.04 311 ePc 37 42.50 0.1
 WTTA 3.11 353 iPnc 37 45.60 2.2X
 iPn 37 54.50
 iSg 38 21.90
 iSg 38 36.60

ORO 3.33 297 P 37 45.50 -0.9
 SBF 3.45 266 Pn 37 47.40 -0.7
 LLS 3.51 321 ePd 37 49.80 0.8
 FRF 4.06 263 Pn 37 57.20 0.5
 LPL 4.11 291 Pn 37 56.00 -1.6

LRG 4.29 262 Pn 37 59.60 -0.3
 SLE 4.42 326 ePd 38 00.90 -0.9
 KHC 5.05 10 ePn 38 10.00 -0.7
 eSg 39 07.00

BSF 5.25 316 Pn 38 12.20 -1.4X
 Sn 39 07.60
 CDF 5.44 323 Pn 38 14.70 -1.6X
 HAU 5.59 315 Pn 38 16.40 -1.9X
 Sn 39 15.20

SMF 6.38 296 Pn 38 26.60 -2.9X
 LBF 6.42 299 Pn 38 28.40 -1.7X
 Sn 39 36.40
 LOR 6.61 301 Pn 38 31.00 -1.7X
 Sn 39 41.00

SSF 6.74 298 Pn 38 32.60 -2.0X
 BGF 7.01 293 Pn 38 35.80 -2.5X
 S.D. = 0.8 on 28 of 40 obs.

% OCT 26, 1991 02h 49m 19.95 ± 2.27s
 18.463 N ± 22.9km 66.377 W ± 12.0km
 DEPTH = 33.0km (normol)

PUERTO RICO REGION (90)
 APR 0.34 268 P 49 28.40 0.2
 SJG 0.41 148 P 49 30.60 1.3
 CLLP 0.43 207 P 49 29.80 0.4
 PORP 0.48 211 P 49 29.30 -0.9
 CPD 0.61 134 P 49 31.00 -1.1
 S.D. = 1.4 on 5 of 5 obs.

% OCT 26, 1991 03h 36m 12.27 ± 1.05s
 40.681 N ± 7.3km 29.910 E ± 8.0km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)
 HRT 0.23 307 iPg 36 17.10 -0.2
 YLV 0.42 255 iPg 36 20.60 -0.4
 eSg 36 27.60

IZI 0.48 224 iPg 36 22.10 0.1
 eSg 36 30.60
 GPA 0.50 142 ePg 36 22.30 -0.1
 ISK 0.75 301 ePg 36 26.60 -0.3
 eSg 36 36.60

CTT 1.21 293 iPn 36 35.60 0.7
 DST 1.46 223 ePn 36 38.80 0.1
 S.D. = 0.5 on 7 of 7 obs.

OCT 26, 1991 03h 52m 05.31 ± 0.41s
 44.181 N ± 3.3km 12.169 E ± 4.3km
 DEPTH = 9.3 ± 2.8 km
 NORTHERN ITALY (545)
 ML 3.0 (LDG), 3.0 (VIE).

RSM 0.33 141 P 52 12.90 0.9
 eSg 52 17.50
 SFI 0.35 221 P 52 12.50 0.1
 eSg 52 18.00

PGD 0.44 227 Pd 52 14.10 -0.3
 eSg 52 20.60
 CRE 0.57 196 P 52 16.40 -0.5
 eSg 52 25.00

ARV 0.88 140 P 52 22.00 -0.3
 eSg 52 34.50
 MME 1.06 271 P 52 28.00 2.5X
 eSn 52 41.50

BDI 1.14 265 P 52 28.10 1.4
 eSg 52 43.20
 ASS 1.17 162 P 52 27.10 -0.1
 eSg 52 44.00

VVI 1.81 6 P 52 36.30 -0.6
 eSg 52 57.70
 MNS 1.83 168 P 52 38.00 0.8
 TRI 1.90 36 iP 53 01.20 23.1X
 i 53 12.00

CTI 1.90 349 P 52 37.70 -0.6
 eSn 53 01.00
 BOB 2.03 288 P 52 39.70 -0.5
 VOY 2.22 33 ePn 52 42.10 -0.7
 eSg 53 19.40

CEY 2.24 45 eP 52 51.00 8.0X
 e 53 20.00
 FVI 2.45 10 P 52 45.60 -0.4
 LJU 2.50 41 e(Pn) 52 54.50 7.7X
 eSn 53 17.00

VBY 2.56 58 eP 53 18.60 30.9X
 e 53 37.70
 PGF 2.83 236 Pn 52 51.40 -0.2

OSS 2.88 331 ePd 52 54.10 1.7
 VDL 2.99 321 ePd 52 54.60 0.7
 TMA 3.02 311 ePc 52 54.30 0.0
 WTTA 3.11 353 iPnc 52 57.30 1.8
 iPg 53 05.40
 iSn 53 34.50
 iSg 53 48.60

ORO 3.31 297 P 52 57.50 -0.9
 SBF 3.43 266 Pn 53 01.00 1.0
 Sn 53 41.00
 LLS 3.49 321 ePc 53 02.00 1.0
 MMK 3.52 304 ePc 53 00.60 -0.8

DIX 3.87 301 ePd 53 07.80 1.4
 FRF 4.04 263 Pn 53 08.80 0.2
 LPG 4.07 291 Pn 53 07.60 -1.7
 LPL 4.09 291 Pn 53 07.80 -1.7
 EMS 4.16 299 ePc 53 11.90 1.4
 LMR 4.19 260 Pn 53 10.60 -0.1

LRG 4.27 262 Pn 53 11.60 -0.2
 SLE 4.41 326 ePc 53 13.00 -0.8
 KHC 5.05 11 ePn 53 21.50 -1.4X
 eSg 54 17.50

BSF 5.23 316 Pn 53 23.60 -2.0X
 Sn 54 21.00
 CDF 5.42 323 Pn 53 27.00 -1.3X
 HAU 5.57 315 Pn 53 28.80 -1.5X
 Sn 54 29.20

SMF 6.36 296 Pn 53 39.60 -1.9X
 LBF 6.40 299 Pn 53 40.00 -2.0X
 Sn 54 48.00
 LOR 6.58 301 Pn 53 43.00 -1.6X
 Sn 54 54.80

SSF 6.72 298 Pn 53 44.60 -2.0X
 BGF 6.98 293 Pn 53 47.40 -2.8X
 S.D. = 1.0 on 30 of 44 obs.

OCT 26, 1991 04h 16m 31.02 ± 0.74s
 40.677 N ± 5.3km 29.887 E ± 5.7km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)
 HRT 0.22 311 ePg 16 35.60 -0.2
 YLV 0.41 254 iPg 16 39.10 -0.3
 IZI 0.46 223 iPg 16 39.60 -0.9
 eSg 16 46.60

GPA 0.50 140 iPg 16 40.90 -0.4
 ISK 0.74 302 iPg 16 45.10 -0.4
 iSg 16 55.10

KCT 1.24 250 iPg 16 54.40 0.3
 DST 1.44 222 iPn 16 57.50 0.3
 BNT 1.53 259 iPn 16 59.00 0.5
 EDC 1.58 259 ePn 16 59.00 -0.1

ALT 1.63 174 ePn 17 00.10 0.2
 DMK 1.97 306 ePn 17 05.00 0.2
 BBTK 2.35 110 eP 17 20.00 9.6X
 eS 17 42.00

KHL 2.37 187 ePn 17 11.00 0.4
 EZN 2.86 254 ePn 17 17.80 0.4
 S.D. = 0.4 on 13 of 14 obs.

% OCT 26, 1991 05h 05m 25.64 ± 0.63s
 44.149 N ± 5.0km 12.156 E ± 5.3km
 DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)
 RSM 0.31 136 P 05 32.40 0.4
 eSg 05 36.80

SFI 0.32 224 P 05 31.90 -0.3
 eSg 05 36.00
 PGD 0.42 229 P 05 33.30 -0.9
 eSg 05 39.90

CRE 0.54 196 P 05 35.80 -0.8
 eSg 05 44.60
 ARV 0.86 139 P 05 43.00 0.7
 eSg 05 57.00

MME 1.05 273 P 05 46.40 0.8
 eSg 06 01.60
 BDI 1.13 266 P 05 47.90 1.1
 eSg 06 02.90

ASS 1.14 161 P 05 47.10 0.1
 eSg 06 05.20
 CTI 1.93 349 P 05 59.00 0.0
 FVI 2.48 10 P 06 05.60 -1.1

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

OCT 26, 1991 05h 27m 56.26 ± 0.79s

26d 05h

41.810 N \pm 7.3km 20.126 E \pm 8.1km					PTO 40.96 31 eP 35 45.00 0.9					CTI 55.48 38 P 37 36.90 -0.3				
DEPTH = 10.0km (geophysicist)					MTE 40.97 32 eP 35 46.50 2.2					BNS 55.64 31 ePc 37 38.00 0.0				
ALBANIA (391)					TOL 42.55 36 eP 36 05.00 7.8X					PWLA 55.90 307 P 37 39.00 -1.2				
ML 2.7 (TTG).					ePP 37 47.00					WTTA 56.07 37 iPc 37 40.30 -1.2				
					eS 42 23.00					0.8s 14.70nm 5.1mb				
ULC 0.67 283 iPgc 28 09.06 -0.6					UPA 44.22 275 ePc 36 10.90 -0.3					WTS 56.08 30 iPc 37 41.00 -0.1				
PVY 0.79 352 iPgd 28 10.94 -0.8					EBR 45.83 38 (P) 36 32.00 8.3X					0.8s 16.00nm 5.1mb				
OHR 0.86 144 iPg 28 12.80 -0.1					e 43 16.00									
TTG 0.89 314 iPgc 28 12.72 -0.6					EPF 47.10 35 iPc 36 34.70 1.0					FVI 56.43 38 P 37 43.20 -0.6				
SKO 0.99 80 ePn 28 01.10 -14.0X					1.1s 35.40nm 5.4mb					WIT 56.51 29 eP 37 45.00 0.8				
IVA 1.07 351 iPgd 28 16.10 -0.4					TBR 48.50 320 P 36 44.20 -0.4					VOY 56.85 39 e(P) 37 49.00 2.0				
BDV 1.08 297 iPgc 28 16.58 0.1					LFF 48.52 33 iPc 36 45.30 0.5					GRF 57.08 34 iPc 37 48.10 -0.3				
NKY 1.31 321 iPgc 28 20.58 0.1					1.1s 24.40nm 5.2mb					1.1s 15.00nm 4.9mb				
HCV 1.37 298 iPgc 28 21.44 0.1					LPO 48.61 34 iPc 36 45.90 0.5					Z 20s 0.60um 4.7Msz				
BRY 1.60 313 iPgc 28 25.82 1.0					0.7s 8.80nm 4.9mb					e(S) 45 48.00				
PLE 1.61 341 ePn 28 26.24 1.3					VAL 48.84 20 eP 36 47.00 -0.1					LJU 57.26 39 e(P) 37 52.50 2.8X				
					MFF 49.14 31 eP 36 49.50 0.0					ELC 57.47 310 P 37 50.20 -1.2				
					RJF 49.18 34 eP 36 49.60 -0.2					VBY 57.48 40 eP 37 51.00 -0.3				
					1.0s 12.00nm 4.9mb					MOX 57.80 33 eP 37 53.55 0.1				
					Z 22s 1.90um 5.0Msz					1.7s 24.00nm 4.9mb				
					CAF 49.25 34 iPc 36 50.50 0.1					Z 23s 0.80um 4.8MszX				
					1.1s 35.40nm 5.3mb					N 22s 0.40um				
					CEH 49.35 312 P 36 53.10 1.8					E 22s 0.40um				
					LPF 49.66 29 iPc 36 53.50 0.1					GE2 58.06 36 ePc 37 53.40 -2.0				
					0.9s 27.85nm 5.3mb					0.7s 1.01nm 4.0mb X				
					LSF 49.79 33 eP 36 54.60 0.1					epPc 38 04.20 36kmX				
					GRR 49.99 29 iPc 36 55.70 -0.3					PTJ 58.09 40 eP 37 55.70 0.0				
					1.1s 24.40nm 5.1mb					KHC 58.12 35 P 37 55.30 -0.5				
					LBL 50.10 35 P 36 57.50 0.5					Z 22s 0.90um 4.8Msz				
					TCF 50.18 33 iPc 36 57.50 0.0					N 22s 0.10um				
					1.0s 9.00nm 4.7mb					E 22s 0.90um				
					MAF 50.33 33 eP 36 58.70 0.1					e 38 11.60				
					FLN 50.43 29 iPc 36 59.00 -0.3					S 46 06.00				
					1.3s 43.30nm 5.2mb					FVM 58.58 310 P 37 57.70 -1.5				
					Z 21s 1.13um 4.9Msz					CLL 58.89 33 eP 38 03.00 2.0				
					LDF 50.49 29 iPc 36 59.50 -0.3					PRU 59.09 35 eP 38 01.40 -1.0				
					0.9s 16.40nm 5.0mb					Z 21s 0.60um 4.7Msz				
					COLF 50.52 35 P 37 01.14 1.0					N 21s 0.30um				
					BGF 50.69 33 iPc 37 01.20 -0.2					E 21s 0.60um				
					0.8s 16.10nm 5.0mb					e 38 12.50				
					PLDF 50.75 34 P 37 02.50 0.5					eS 46 20.00				
					SSB 50.86 35 P 37 03.82 1.1					BRG 59.19 34 eP 38 02.30 -0.8				
					BLA 50.87 313 P 37 03.10 0.2					1.6s 22.00nm 5.0mb				
					0.9s 19.83nm 5.0mb					eSg 42 23.00				
					DCN 51.03 21 eP 37 04.40 0.6					VKA 59.33 37 e(P) 38 03.00 -1.2				
					AVF 51.11 33 iPc 37 04.50 0.0					AKU 59.40 8 eP 38 11.00 6.7X				
					1.1s 12.20nm 4.7mb					1.1s 35.44nm 5.4mb				
					PRM 51.16 308 P 37 03.40 -1.7					ZST 59.77 38 eP 38 06.20 -1.0				
					NAV 51.18 313 P 37 03.60 -1.7					UZD 60.03 40 e(P) 38 09.00 0.0				
					SMF 51.28 34 iPc 37 05.70 -0.2					SKO 60.33 46 eP 38 11.00 -0.1				
					0.7s 4.40nm 4.5mb					SRO 60.35 38 eP 38 10.80 -0.4				
					SSF 51.36 33 iPc 37 06.20 -0.2					KSP 60.48 35 ePc 38 11.20 -0.8				
					LBF 51.56 33 iPc 37 07.80 -0.3					COP 60.93 28 eP 38 16.00 1.1				
					0.8s 9.40nm 4.8mb					PSZ 61.37 39 e(P) 38 18.00 -0.2				
					DMU 51.61 21 eP 37 08.40 -1.8					BZS 61.64 42 eP 38 11.00 -9.0X				
					LOR 51.67 33 iPc 37 08.50 -0.4					SPC 62.08 38 eP 38 20.00 -3.2X				
					0.7s 10.45nm 4.9mb					VVO 62.09 306 e(P) 38 21.30 -1.9				
					Z 20s 1.65um 5.1Msz					KRA 62.24 37 eP 38 23.60 -0.3				
					SBF 51.80 38 iPc 37 09.90 0.0					0.9s 32.00nm 5.5mb				
					1.1s 63.50nm 5.5mb					TUL 62.25 307 eP 38 21.60 -2.7X				
					BNI 51.98 37 P 37 12.10 0.7					0.6s 10.20nm 5.2mb				
					DOI 52.02 38 P 37 12.30 0.7					Z 20s 0.43um 4.6Msz				
					PGF 52.11 40 iPc 37 11.80 -0.6					eS 46 55.00				
					0.9s 18.00nm 5.0mb					LR 57 12.00				
					LPG 52.27 36 eP 37 14.00 0.3					NB2 63.51 23 P 38 31.60 -0.6				
					1.2s 13.40nm 4.7mb					0.9s 10.70nm 5.0mb				
					LPL 52.27 36 iPc 37 13.90 0.2					HFS 63.98 25 eP 38 34.00 -1.2				
					1.0s 10.00nm 4.7mb					0.6s 10.60nm 5.2mb				
					GBTN 53.12 309 P 37 19.50 -0.4					Z 18s 0.94um 5.0Msz				
					HAU 53.46 33 eP 37 21.60 -0.6					LR 58 23.00				
					0.7s 7.70nm 4.8mb					MLR 64.49 43 ePd 38 39.50 0.5				
					Z 20s 1.10um 4.9Msz					ISR 64.80 43 eP 38 40.00 -0.9				
					BSF 53.61 34 eP 37 22.70 -0.7					ACO 65.06 307 iPc 38 42.20 -0.5				
					0.9s 13.10nm 4.9mb					VR1 65.12 43 ePc 38 42.00 -0.9				
					DOU 53.81 30 Pd 37 24.30 -0.3					UPP 65.51 26 iP 38 43.90 -1.2				
					0.9s 32.50nm 5.3mb					LSZ 66.39 110 iPc 38 52.00 0.3				
					S 45 01.00					NUR 68.93 27 eP 39 05.80 -0.9				
					BDI 53.87 40 P 37 27.70 2.4					HVD 69.00 127 eP 39 07.70 -0.2				
					SNF 53.91 30 P 37 30.80 5.4X					SLR 69.57 121 iPc 39 10.30 -1.2				
					EKA 54.09 22 P 37 27.00 0.4					0.8s 11.19nm 5.1mb				
					0.7s 5.10nm 4.7mb					Z 20s 2.84um 5.5Msz				
					CDF 54.21 33 eP 37 26.80 -0.9					SEK 69.89 124 iPc 39 10.40 -3.0X				
					WLF 54.34 32 P 37 28.00 -0.5					1.5s 41.67nm 5.4mb				
					MEM 54.84 31 Pc 37 32.30 0.1					DAG 69.92 4 eP 39 12.00 -0.5				
					ENN 54.89 30 eP 37 35.00 2.4					RSSD 69.98 314 P 39 14.40 0.6				
					0.8s 6.00nm 4.7mb					1.0s 3.52nm 4.4mb				
OCT 26, 1991 05h 27m 59.65 \pm 0.20s														
7.359 N \pm 4.3km 34.869 W \pm 3.7km														
DEPTH = 10.0km (geophysicist)														
5.0mb (55 obs.) 4.9Msz (15 obs.)														
CENTRAL MID-ATLANTIC RIDGE (406)														
CENTROID, MOMENT TENSOR (HRV)														
Data Used: GDSN														
L.P.B.: 22S, 43C														
Centroid Location:														
Origin Time 05:28: 4.3 0.7														
Lat 7.56N 0.07 Lon 34.84W 0.04														
Dep 15.0 FLX Half-duration 1.9														
Moment Tensor: Scale 10**17 Nm														
Mrr=-0.01 0.05 Mtt= 0.04 0.07														
Mff=-0.03 0.08 Mrt= 0.00 0.00														
Mrf= 0.00 0.00 Mtf=-1.30 0.05														
Principal Axes:														
T Vol= 1.31 Plg= 0 Azm=224														
N -0.01 90 180														
P -1.30 0 134														
Best Double Couple: Mo=1.3*10**17														
NP1.Strike=269 Dip=90 Slip=-180														
NP2: 359 90 0														
SOB1 17 52 200 eP 32 06.10 0.3														
PDCR 20.21 192 eP 32 36.10 -1.5														
BAO 26.28 210 ePd 33 36.50 -0.9														
LKO 29.04 84 P 34 01.64 -0.7														
1.0s 27.50nm 5.0mb														
TIC 29.63 89 P 34 06.76 -1.0														
1.0s 13.50nm 4.7mb														
LIC 29.65 90 P 34 07.94 0.1														
0.9s 23.50nm 5.0mb														
Z 20s 0.47um 4.1Msz														
KIC 29.93 90 P 34 10.76 0.4														
1.0s 22.00nm 4.9mb														
BMA 31.22 197 eP 34 23.10 1.4														
VAO 32.41 201 eP 34 31.90 -0.3														
PPD 33.36 209 eP 34 40.20 -0.1														
TIO 34.88 44 iP 34 54.00 0.5														
AVE 36.23 41 iP 35 05.50 0.7														
COI 40.37 32 e(P) 35 40.00 0.7														
ZOBO 40.43 234 iPc 35 41.10 0.3														
LP8 40.55 234 iPc 35 42.70 1.1														
				</										

Z 18s 1.03um 5.1msz
KAF 70.30 26 iP 39 14.50 -0.5
0.7s 12.40nm 5.1mb
GOL 70.34 309 P 39 16.60 0.5
1.0s 12.50nm 5.0mb
Z 20s 0.50um 4.8msz
ALQ 70.74 304 eP 39 18.70 0.1
1.2s 11.72nm 4.9mb
Z 22s 1.48um 5.2msz
ANMO 70.74 304 P 39 19.10 0.6
1.2s 12.11nm 4.9mb
FFC 70.89 326 eP 39 17.00 -1.8
1.0s 34.00nm 5.4mb
BFT 71.06 120 eP 39 22.50 1.9
SOD 72.51 21 iP 39 28.00 -0.3
OBN 73.42 35 eP 39 33.00 -0.8
1.2s *****nm 8.1mb X
Z 24s 1.00um 5.0msz X
E 24s 0.50um

KEV 73.62 19 eP 39 35.00 0.3
0.6s 24.80nm 5.4mb
BW06 73.80 312 P 39 37.00 0.4
1.0s 10.00nm 4.8mb
DAU 74.91 310 P 39 43.20 0.0
MSU 75.53 308 P 39 47.80 1.1
SES 75.55 320 eP 39 46.00 -0.3
DUG 76.09 309 P 39 50.80 1.1
LRM 76.11 315 ePd 39 50.40 0.6
e 40 34.00

HVU 76.12 311 P 39 48.70 -1.2
HPI 76.45 313 P 39 52.70 0.9
GLA 77.62 302 P 39 59.50 1.3
YKA 78.77 332 eP 40 02.40 -1.4
0.9s 8.30nm 4.8mb
PLM 79.32 302 P 40 07.40 -0.3
NEW 79.40 318 P 40 07.20 -0.4
1.2s 9.09nm 4.7mb

TNP 79.49 307 P 40 09.90 1.3
BONR 80.35 307 P 40 14.10 0.8
PNT 81.05 319 eP 40 18.00 1.6
0.7s 5.00nm 4.7mb
MBC 81.59 346 eP 40 19.50 0.8
1.0s 25.00nm 5.2mb
BCH 81.91 304 P 40 21.20 -0.1
ORV 82.78 309 P 40 26.80 1.2
INK 86.41 338 eP 40 43.00 -0.2
MAIO 89.20 54 eP 41 02.00 4.6X
FBA 92.85 337 eP 41 15.90 2.3
1.4s 9.09nm 5.0mb

IMA 94.52 339 eP 41 23.60 2.1
MRWA 145.00 132 ePKP 47 39.00 -0.5
0.7s 6.00nm
S.D. = 0.9 on 138 of 148 obs.

* OCT 26, 1991 05h 57m 28.97± 0.73s
7.033 N ± 8.8km 73.153 W ± 8.8km
DEPTH = 169.2 ± 7.5 km
NORTHERN COLOMBIA (99)

BMG 0.09 64 iPc 57 53.00 0.0
BOG 2.56 201 iPd 58 13.00 0.4
iS 58 44.00
HOBC 3.99 228 eP 58 30.10 -0.2
BUGC 4.39 225 eP 58 35.20 -0.4
CLMC 4.62 227 eP 58 39.10 0.5
DIAC 4.80 219 eP 58 40.30 -0.7
HOQC 4.96 225 eP 58 43.00 -0.2
ANCC 5.09 227 eP 58 44.20 -0.5
eS 59 08.00

PURC 5.67 214 eP 58 53.00 0.2
UPA 6.61 287 (P) 59 05.00 0.2
PSO 7.14 216 eP 59 13.50 1.2
CUMC 7.65 218 eP 59 19.00 -0.2
ZOBO 23.68 168 P 02 27.00 -0.2
KIC 67.89 86 P 08 11.70 0.0
S.D. = 0.5 on 14 of 14 obs.

& OCT 26, 1991 05h 59m 02.10s
49.510 N 117.610 W
DEPTH = 7.0km (geophysicist)
BRITISH COLUMBIA, CANADA (23)
<PGC>. ML 1.8 (PGC). Felt in the
Slocon Valley.

PNT 1.32 262 P 59 26.90 0.0
SLEB 1.69 349 P 59 33.50 1.1
2 obs. associated

? OCT 26, 1991 06h 56m 03.88± 0.96s
44.532 N ± 6.6km 7.274 E ± 13.0km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.2 (GEN).

PZZ 0.13 258 P 56 07.14 0.0
S 56 09.23
STV 0.29 173 P 56 09.84 -0.1
S 56 14.43
BHB 0.31 359 P 56 10.33 0.0
S 56 14.55
ENR 0.32 161 P 56 10.74 0.1
S 56 15.91

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

? OCT 26, 1991 07h 09m 17.58± 5.29s
44.194 N ± 58.6km 11.411 E ± 22.0km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

PGD 0.39 145 P 09 25.80 0.2
eSg 09 33.40
SFI 0.42 131 P 09 26.20 0.1
eSg 09 33.80
BDI 0.60 258 P 09 29.80 0.0
eSg 09 39.70
CRE 0.69 145 P 09 31.00 -0.3
eSg 09 42.50
S.D. = 0.3 on 4 of 4 obs.

& OCT 26, 1991 07h 33m 45.30s
49.510 N 117.610 W
DEPTH = 7.0km (geophysicist)
BRITISH COLUMBIA, CANADA (23)
<PGC>. ML 1.6 (PGC). Felt in the
Slocon Valley.

PNT 1.32 262 P 34 10.10 0.0
SLEB 1.69 349 P 34 16.80 1.2
2 obs. associated

% OCT 26, 1991 07h 40m 21.93± 1.58s
44.017 N ± 13.2km 12.170 E ± 8.3km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

SFI 0.25 247 P 40 26.90 -0.3
eSg 40 31.60
PGD 0.35 247 P 40 28.50 -0.8
eSg 40 35.50
CRE 0.42 202 P 40 30.90 0.4
eSg 40 39.30

ARV 0.76 133 P 40 36.00 -0.8
eSg 40 50.00
ASS 1.01 159 P 40 42.00 0.9
MME 1.07 280 P 40 43.50 1.2
eSg 40 58.50

BDI 1.14 273 P 40 42.70 -0.5
eSg 40 59.90
S.D. = 1.0 on 7 of 7 obs.

& OCT 26, 1991 08h 37m 40.66s
61.724 N 150.554 W
DEPTH = 49.3km
SOUTHERN ALASKA (2)
<AEIC>. ML 2.8 (AEIC).

SUA 0.28 199 iPd 37 49.96 0.2
S 37 57.49
PWA 0.33 103 iPc 37 50.14 0.1
eS 37 58.09
SKT 0.53 300 iPc 37 51.58 -0.8
iS 38 00.77
PMS 0.68 135 iPc 37 53.52 -0.7
PLRM 0.69 100 iPc 37 53.47 -0.9
CUT 0.70 11 iPd 37 53.69 -0.7
eS 38 04.37

GHO 0.78 86 ePc 37 55.03 -0.6
S 38 07.15
CGLM 0.81 240 ePc 37 55.50 -0.6
eS 38 07.37
NCG 0.83 248 ePc 37 55.42 -1.0
eS 38 07.94
CRP 0.89 240 ePc 37 56.74 -0.5
iS 38 09.54

SPU 0.90 234 iPd 37 56.53 -0.8
iS 38 09.53
BGL 0.99 243 iPd 37 57.97 -0.6
CKL 1.01 239 iPd 37 57.99 -0.8
NKA 1.04 199 iPd 38 00.07 1.0
KNK 1.05 106 iPc 37 58.75 -0.6
SML 1.06 84 iPc 37 58.49 -1.0
eS 38 13.14

SLKM 1.23 172 eP 38 00.38 -1.4
HUR 1.33 18 eP 38 02.54 -0.6
S 38 19.08
RDT 1.46 219 iPd 38 04.12 -1.0
eS 38 22.99
SCM 1.54 84 ePc 38 05.12 -1.1
eS 38 25.73

RDN 1.62 222 iPd 38 06.36 -1.0
REF 1.62 221 ePd 38 06.56 -0.9
eS 38 27.57
NCT 1.64 226 ePd 38 06.93 -0.7
RS2 1.66 221 ePd 38 07.19 -0.8
eS 38 28.76

RSO 1.66 221 ePd 38 07.10 -0.9
eS 38 28.33
RDW 1.66 222 ePd 38 07.18 -0.8
eS 38 28.10
RS1 1.66 221 ePd 38 07.21 -0.8
eS 38 28.34
RED 1.70 220 ePd 38 07.52 -0.9
eS 38 29.20

SEW 1.71 161 eP 38 08.83 0.3
NNL 1.73 192 eP 38 08.86 0.1
RND 1.86 24 ePd 38 09.56 -1.2
GLI 1.87 115 iPc 38 08.58 -2.2

KNIM 1.95 134 eP 38 08.59 -3.3
BRLK 1.97 185 eP 38 11.88 -0.4
VZW 2.04 107 eP 38 12.15 -1.1
INE 2.07 217 eP 38 13.05 -0.7
INW 2.09 218 eP 38 13.43 -0.5
TOA 2.11 78 ePc 38 13.57 -0.6

VLZ 2.11 104 eP 38 11.65 -2.5
MCK 2.15 20 eP 38 13.87 -0.9
FID 2.20 115 ePc 38 12.49 -3.0
KLU 2.23 94 ePc 38 13.82 -2.1
CNPM 2.23 189 eP 38 15.51 -0.4

MTU 2.25 140 eP 38 16.18 0.1
TZL 2.45 80 eP 38 18.06 -0.9
SDG 2.49 69 eP 38 18.98 -0.6
SVW 2.51 258 eP 38 17.79 -2.1
CVA 2.61 115 eP 38 18.01 -3.2
PAX 2.68 60 eP 38 21.86 -0.5

TTA 2.82 298 eP 38 22.07 -2.3
WRH 2.98 21 eP 38 24.58 -1.9
HDA 3.15 30 eP 38 27.02 -2.0
CCB 3.19 22 eP 38 26.74 -2.7
GLB 3.24 92 eP 38 30.22 -0.1
SYI 3.26 197 eP 38 29.10 -1.4

HMT 3.36 112 eP 38 28.23 -3.8
MDM 3.41 17 eP 38 29.64 -3.1
GLM 3.57 22 eP 38 32.63 -2.4
CROM 3.71 102 eP 38 33.70 -3.4
TGL 3.86 101 eP 38 34.88 -4.2
BALM 4.01 96 eP 38 37.85 -3.4
61 obs. associated

? OCT 26, 1991 08h 44m 15.18± 2.27s
12.271 N ± 29.1km 126.890 E ± 43.8km
DEPTH = 33.0km (normal)
4.6mb (7 obs.)
PHILIPPINE ISLANDS REGION (248)

WR2 32.85 167 eP 50 47.70 -0.5
0.3s 1.20nm 4.3mb
e 51 00.70
ASPA 36.37 169 eP 51 18.80 0.4
0.3s 2.90nm 4.7mb

WARB 38.22 180 iPd 51 34.30 0.4
0.4s 11.00nm 5.0mb
GUN 41.32 298 P 52 00.00 0.0
MRWA 42.57 194 iPd 52 09.80 0.1
0.4s 2.00nm 4.2mb

COOL 43.26 187 iPd 52 15.00 -0.4
0.4s 2.00nm 4.2mb
KLB 44.48 191 iPd 52 25.30 0.1
0.4s 10.00nm 5.0mb
MUN 45.17 193 eP 52 30.00 -0.8
NWA0 45.88 191 eP 52 37.00 0.7
0.6s 10.00nm 4.9mb

26d 08h

S.D. = 0.5 on 9 of 9 obs.
 * OCT 26, 1991 10h 11m 18.07±1.40s
 2.407 N ±13.0km 79.460 W ±11.7km
 DEPTH = 33.0km (normal)
 SOUTH OF PANAMA (83)

CUMC	2.14	132	ePc	11	51.80	-0.9
ANCC	2.81	67	ePc	12	01.90	0.1
			eS	12	36.50	
HOOC	3.01	69	eP	12	04.50	-0.4
PURC	3.10	91	ePc	12	07.90	1.6
CLMC	3.24	63	eP	12	07.30	-0.7
DIAC	3.37	75	ePc	12	10.90	1.0
BUGC	3.52	65	ePc	12	11.70	-0.3
			eS	12	53.90	
HOBC	3.84	60	eP	12	15.60	-0.8
ALO	40.96	325	eP	19	00.00	0.3
S.D.	1.0	on	9 of 9 obs.			

* OCT 26, 1991 10h 35m 31.51±1.05s
 28.988 N ±10.9km 130.212 E ±14.8km
 DEPTH = 33.0km (normal)
 4.0mb (2 obs.)
 RYUKYU ISLANDS (238)

KAGJ	2.27	15	P	36	07.40	0.0
KUMJ	3.57	8	eP	36	26.80	0.8
SHNJ	5.18	8	eP	36	48.00	-0.2
BJI	15.96	317	eP	39	16.50	1.4
LZH	23.29	294	eP	40	49.00	11.6X
	1.5s	31.00nm				
		sP	41	15.00		
GUN	38.82	279	P	42	56.00	0.4
PKI	39.30	279	P	42	59.20	-0.4
KKN	39.37	279	P	42	59.80	-0.2
DMN	39.56	279	P	43	01.60	0.0
GKN	39.88	280	P	43	04.00	-0.2
WR2	48.81	175	eP	44	16.70	1.1
	0.8s	1.30nm			4.0mb	
		i	44	30.60		
HFS	77.20	333	eP	47	13.10	-10.3X
	0.7s	3.80nm				
NB2	77.62	334	P	47	23.20	-2.6
	0.8s	1.30nm			4.0mb	
S.D.	1.2	on	11 of 13 obs.			

* OCT 26, 1991 11h 27m 36.76±1.70s
 3.056 S ±23.6km 139.289 E ±20.7km
 DEPTH = 33.0km (normal)
 4.6mb (2 obs.)
 IRIAN JAYA, INDONESIA (201)

JAY	1.51	69	iPd	28	01.80	-0.1
	0.1s	81.40nm				
		iS	28	25.50		
PMG	10.05	129	eP	30	08.50	6.6X
MTN	12.64	219	eP	30	37.00	-0.1
QIS	17.40	179	eP	31	39.00	0.2
		eS	34	32.00		
WR2	17.46	196	iPd	31	39.20	-0.4
	0.5s	14.20nm			4.4mb	
		eS	34	52.80		
ASPA	21.14	194	iPc	32	21.30	-0.1
	0.4s	16.60nm			4.8mb	
Z	21s	0.10um			3.2msz	
		eS	36	18.80		
WARB	26.00	207	iPd	33	09.00	0.4
S.D.	0.4	on	6 of 7 obs.			

* OCT 26, 1991 11h 51m 05.97±1.29s
 41.681 N ±14.8km 22.342 E ±9.2km
 DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)
 ML 2.3 (SKO).

VAY	0.40	154	iPg	51	13.70	-0.4
		iSg	51	19.50		
KNT	0.67	141	ePd	51	18.90	-0.3
SKO	0.73	294	ePg	51	20.00	-0.4
		eSg	51	34.00		
SRS	1.10	121	ePd	51	27.20	0.6
OHR	1.29	244	eP	51	30.50	0.5
S.D.	0.7	on	5 of 5 obs.			

* OCT 26, 1991 11h 58m 14.86±0.91s
 40.501 N ±8.7km 27.242 E ±6.5km

DEPTH = 10.0km (geophysicist)
 TURKEY (366)

EDC	0.50	108	iPg	58	25.00	0.0
		iSg	58	33.00		
BNT	0.54	105	ePg	58	25.50	-0.2
KCT	0.89	106	ePn	58	32.40	0.5
EZN	0.97	226	iPn	58	33.40	0.1
DMK	1.38	16	ePn	58	40.00	-0.1
DST	1.39	130	ePn	58	40.00	-0.3
S.D.	0.4	on	6 of 6 obs.			

OCT 26, 1991 12h 10m 48.06±1.34s
 14.922 S ±6.3km 167.331 E ±5.0km
 DEPTH = 157.0 ±11.9 km
 4.9mb (28 obs.)
 VANUATU ISLANDS (186)

DZM	7.16	187	iPd	12	30.10	-1.4
		iS	13	51.90		
HNR	9.05	306	eP	12	55.00	-1.5
BRS	18.37	225	iPc	14	54.10	0.5
	0.9s	21.00nm			4.5mb	
PMG	20.46	283	iPd	15	15.50	0.4
	1.0s	62.00nm			5.0mb	
CTAO	20.74	253	iPd	15	19.50	1.6
	1.0s	140.00nm			5.4mb	
		i	15	25.00		
		e	15	34.00		
RMO	20.81	233	iPd	15	20.50	1.9
	0.7s	217.00nm			5.7mb	
ARMA	21.12	220	iPd	15	23.90	2.1
	1.0s	122.00nm			5.3mb	
MDG	23.27	292	eP	15	44.30	1.6
RIV	23.84	215	iPc	15	50.40	2.4
QLP	24.47	238	iPd	15	55.40	1.3
	0.9s	417.00nm			6.0mb X	
HBZ	24.59	159	P	15	54.60	-0.5
URZ	24.80	161	P	15	56.30	-0.7
NOZ	25.42	160	P	16	01.40	-1.3
CMS	25.66	226	iPd	16	05.90	0.9
	0.6s	116.00nm			5.7mb	
CNB	25.93	215	iPc	16	08.70	1.1
MNG	26.57	166	P	16	11.60	-1.6
PGZ	26.76	165	P	16	13.20	-1.7
	0.5s	19.00nm			5.0mb	
QIS	26.97	254	eP	16	16.00	-1.1
EWZ	28.65	175	P	16	32.40	0.5
BWZ	29.59	176	P	16	39.10	-1.1
TUZ	31.00	177	P	16	52.50	0.0
WR2	31.81	256	iPc	16	58.10	-1.9
	0.9s	11.50nm			4.7mb	
ASPA	32.66	249	iPd	17	06.20	-1.2
	1.1s	79.50nm			5.4mb	
		eS	22	04.90		
MTN	35.18	269	eP	17	28.50	-0.5
KNA	37.17	264	eP	17	45.00	-0.6
WARB	39.56	247	iPd	18	06.00	0.5
	0.4s	13.00nm			5.0mb	
AFR	41.20	100	iP	18	19.80	0.8
	0.8s	35.00nm			5.0mb	
PAE	41.39	100	iP	18	21.20	0.7
	0.8s	35.00nm			5.0mb	
PPT	41.39	100	iP	18	21.40	0.8
	0.8s	40.00nm			5.1mb	
PPN	41.53	100	iP	18	22.40	0.7
	0.8s	15.00nm			4.7mb	
PMO	43.20	96	iP	18	36.70	1.4
	0.8s	60.00nm			5.3mb	
VAH	43.43	97	iP	18	38.10	1.0
	0.8s	35.00nm			5.0mb	
TPT	43.46	96	iP	18	38.80	1.4
	0.8s	40.00nm			5.1mb	
RUV	43.67	96	iP	18	40.20	1.1
	0.8s	60.00nm			5.3mb	
COOL	45.08	241	iPd	18	49.70	-0.5
	0.4s	4.00nm			4.4mb	
MBL	45.46	255	iPd	18	53.30	0.0
	0.4s	11.00nm			4.8mb	
KLB	48.06	241	eP	19	12.70	-0.8
	0.4s	6.00nm			4.6mb	
NWAO	48.70	239	eP	19	18.00	-0.5
MRWA	49.29	244	iPc	19	22.70	-0.3
	0.4s	3.00nm			4.3mb	
MUN	49.42	241	iPc	19	23.60	-0.4
MAT	58.10	333	(P)	20	26.00	-1.2
CN2	69.84	329	eP	21	43.40	0.0

TIY	0.6s	12.00nm			4.9mb	
SPA	73.44	317	eP	22	05.80	0.8
	75.17	180	iPc	22	14.20	-0.5
	1.0s	15.00nm			4.7mb	
CHG	75.21	294	eP	22	17.00	1.5
GTA	82.84	314	eP	22	57.20	0.9
	1.0s	8.00nm			4.5mb	
PMR	83.66	19	eP	22	59.70	-0.1
IMA	85.82	15	eP	23	11.50	0.8X
	0.9s	5.00nm			4.3mb	
FBA	86.52	18	eP	23	12.90	-1.0
	0.8s	25.52nm			5.1mb	
GUN	89.54	299	P	23	30.60	1.0
PKI	89.84	298	P	23	31.00	0.0
KKN	90.01	299	P	23	31.60	0.0
DMN	90.11	298	P	23	32.30	0.2
GKN	90.62	299	P	23	35.00	0.7
ALO	95.36	55	eP	23	55.00	-1.0
	0.8s	1.87nm			4.5mb	
LSZ	129.69	235	iPKP	29	42.00	0.9
NB2	130.83	345	PKP	29	41.40	-0.4
	0.6s	1.10nm				
GEC2	139.84	333	ePKPd	29	51.10	-8.1X
	0.6s	0.75nm				
CDF	142.78	338	iPKPc	30	01.10	-3.3X
	0.5s	2.90nm				
SOB1	143.15	129	ePKP	30	03.70	-2.3
		e	30	54.70		
BSF	143.44	338	ePKP	30	03.20	-2.4
HAU	143.45	338	ePKP	30	03.50	-2.0
	0.7s	6.60nm				
VAI	144.27	334	PKP	30	04.90	-1.9
SFI	144.34	329	PKP	30	06.30	-0.7
PGD	144.43	329	PKP	30	06.80	-0.7
CRE	144.50	329	PKP	30	07.10	-0.4
ROI	144.52	319	PKP	30	07.40	-0.2
ASS	144.53	327	PKP	30	06.10	-1.4
CSI	144.58	320	PKP	30	06.80	-0.9
MME	144.70	330	PKP			

SSB	0.9s	14.10nm	30	12.69	2.1X
SBF	146.43	338 PKP	30	12.10	1.4
	0.6s	36.05nm			
PYM	146.55	340 PKP	30	12.90	2.1X
LSF	146.57	342 iPKPc	30	12.60	1.8
	0.9s	21.40nm			
MFF	146.72	344 iPKPc	30	13.20	2.2X
	0.9s	40.95nm			
PGF	146.75	330 iPKPc	30	13.20	1.9
	0.7s	13.25nm			
LBL	146.93	339 PKP	30	14.18	2.7X
FRF	147.03	334 ePKP	30	13.90	2.4X
	0.5s	13.10nm			
LRG	147.23	334 ePKP	30	14.70	2.9X
	0.7s	19.85nm			
LMR	147.27	334 ePKP	30	14.70	2.8X
	0.5s	10.20nm			
RJF	147.43	341 iPKPc	30	15.30	3.1X
	0.5s	12.40nm			
CAF	147.59	340 ePKP	30	16.00	3.5X
	0.8s	14.80nm			
LFF	148.00	342 iPKPc	30	16.80	3.8X
	0.5s	20.40nm			
LPO	148.09	341 iPKPc	30	17.20	4.0X
	0.7s	18.75nm			
EPF	149.84	341 ePKP	30	22.70	6.6X
	0.7s	4.40nm			
LKO	171.26	233 PKP	30	39.34	0.2
S.D. = 1.1 on 108 of 123 obs.					

% OCT 26, 1991 12h 34m 40.61±1.00s
45.583 N ± 9.3km 26.879 E ± 10.8km
DEPTH = 33.0km (normal)

ROMANIA (358)

VRI	0.31	339 iPd	34	48.00	-0.5
ISR	0.50	208 iPd	34	51.00	-0.3
CVO	0.55	296 iPc	34	52.50	0.5
MLR	0.66	262 iPc	34	53.60	-0.1
PPE	0.82	39 eP	35	00.00	4.3X
CFR	0.98	113 iPd	35	56.00	58.0X
TLB	1.29	140 iPc	35	02.50	0.1
S.D. = 0.6 on 5 of 7 obs.					

OCT 26, 1991 12h 43m 37.94±0.32s
44.168 N ± 2.8km 12.204 E ± 3.5km
DEPTH = 12.1 ± 2.5 km

NORTHERN ITALY (545)

ML 3.2 (VIE), 3.1 (LDG).

RSM	0.30	143 P	43	45.20	0.9
		eSg	43	50.20	
SFI	0.35	226 P	43	45.00	-0.3
		eSg	43	50.10	
PGD	0.45	230 P	43	46.60	-0.7
		eSg	43	53.70	
CRE	0.57	199 P	43	49.10	-0.3
		eSg	43	58.30	
ARV	0.86	141 P	43	54.50	0.2
		eSg	44	07.00	
MME	1.08	272 P	44	00.00	1.7
		eSg	44	14.90	
ASS	1.15	163 P	43	59.30	0.1
		eSg	44	15.30	
BDI	1.16	265 P	44	00.80	1.3
		eSg	44	15.30	
MNS	1.82	169 P	44	10.00	0.8
VVI	1.82	5 P	44	08.70	-0.6
		eSg	44	31.80	
SAL	1.87	321 P	44	10.00	0.1
TRI	1.90	35 iP	44	33.70	23.3X
		i	44	43.00	
CTI	1.92	348 P	44	10.30	-0.5
		eSg	44	34.00	
RIY	1.95	52 e(Pn)	44	11.60	0.5
AQU	2.01	154 P	44	13.00	0.9
BOB	2.06	288 P	44	12.60	-0.2
VOY	2.21	32 ePn	44	14.80	-0.3
		eSg	44	51.90	
CEY	2.23	44 eP	44	33.00	17.8X
		e	44	52.00	
FVI	2.46	9 P	44	18.40	0.8
LJU	2.50	41 e(Pn)	44	28.00	9.0X
		eSn	44	49.80	
VBY	2.55	57 e(Pn)	44	51.10	31.4X
		eSn	45	10.00	

SDI	2.73	154 P	44	22.00	-0.4
PGF	2.84	236 Pn	44	24.00	0.0
		Sn	44	57.60	
OSS	2.91	331 ePd	44	26.60	1.6
VAI	2.97	306 P	44	25.10	-0.5
TMA	3.05	311 ePc	44	26.90	-0.1
WTTA	3.12	353 iPnc	44	29.30	1.3
		iPg	44	38.00	
		iSn	45	06.60	
		iSg	45	21.40	
SBF	3.45	267 Pn	44	32.40	-0.2
		Sn	45	12.00	
LLS	3.52	321 ePc	44	34.50	0.8
MMK	3.54	304 ePc	44	33.50	-0.6
DIX	3.89	301 ePc	44	40.50	1.4
FRF	4.06	263 Pn	44	41.20	0.0
LPG	4.10	291 Pn	44	40.40	-1.6
EMS	4.19	299 ePc	44	44.80	1.6
LRG	4.29	262 Pn	44	44.20	-0.2
SLE	4.43	326 ePd	44	46.00	-0.5
KHC	5.05	10 ePn	44	54.00	-1.3X
		e	45	17.00	
		e	45	50.40	
BSF	5.26	316 Pn	44	56.00	-2.3X
		Sn	45	53.20	
CDF	5.45	323 Pn	44	59.40	-1.5X
HAU	5.60	315 Pn	45	01.50	-1.5X
		Sn	46	00.00	
SMF	6.39	296 Pn	45	11.60	-2.5X
LBF	6.42	299 Pn	45	12.60	-2.1X
		Sn	46	20.00	
LOR	6.61	301 Pn	45	15.00	-2.3X
		Sn	46	26.00	
SSF	6.75	298 Pn	45	16.80	-2.4X
S.D. = 0.9 on 32 of 44 obs.					

% OCT 26, 1991 12h 48m 02.08±0.64s
44.090 N ± 5.6km 12.158 E ± 4.5km
DEPTH = 10.0km (geophysicist)

NORTHERN ITALY (545)

RSM	0.27	127 P	48	08.00	0.3
		eSg	48	12.90	
SFI	0.28	233 P	48	07.70	-0.2
		eSg	48	12.10	
PGD	0.38	236 P	48	09.20	-0.8
		eSg	48	16.30	
CRE	0.49	198 P	48	11.70	-0.3
		eSg	48	20.50	
ARV	0.82	136 P	48	17.40	-0.6
		eSg	48	31.50	
MME	1.05	276 P	48	23.00	0.9
		eSg	48	37.00	
ASS	1.08	160 P	48	23.10	0.6
		eSg	48	37.90	
BDI	1.13	269 P	48	23.40	0.2
		eSg	48	39.00	
MNS	1.75	167 P	48	33.00	0.3
FVI	2.54	10 P	48	43.50	-0.5
S.D. = 0.6 on 10 of 10 obs.					

% OCT 26, 1991 12h 59m 05.21±2.46s
37.721 N ± 16.6km 27.771 E ± 20.8km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

IZM	0.68	6 iPg	59	17.70	-1.0
		eSg	59	29.70	
CIN	0.74	99 ePg	59	21.00	1.4
		iSg	59	35.00	
YER	1.06	123 ePn	59	24.40	-0.8
KHL	1.95	71 ePn	59	38.00	-0.8
DST	2.20	31 ePn	59	43.00	0.6
EZN	2.20	343 ePn	59	43.00	0.7
S.D. = 1.3 on 6 of 6 obs.					

? OCT 26, 1991 13h 02m 55.56±1.19s
43.537 N ± 11.8km 12.777 E ± 9.5km
DEPTH = 10.0km (geophysicist)

CENTRAL ITALY (381)

ARV	0.13	108 P	02	58.80	0.1
		eSg	03	03.00	
ASS	0.47	190 P	03	05.00	-0.2
		eSg	03	13.00	
CRE	0.61	279 P	03	08.80	0.9
		eSg	03	17.70	

PGD	0.84	294 P	03	11.00	-0.8
		eSg	03	26.00	
S.D. = 1.3 on 4 of 4 obs.					

% OCT 26, 1991 13h 37m 02.32±1.03s
3.395 N ± 12.5km 76.830 W ± 20.8km
DEPTH = 90.0km (geophysicist)

COLOMBIA (103)

MD 2.9 (UVC).

ANCC	0.12	343 iPc	37	16.32	-0.3
		eS	37	27.10	
HOQC	0.21	70 iPc	37	16.78	-0.4
SALC	0.44	162 eP	37	17.33	0.3
CLMC	0.55	29 eP	37	18.37	0.5
DIAC	0.64	99 iPc	37	18.47	-0.2
BUGC	0.76	49 eP	37	20.11	0.3
HOBC	1.18	36 eP	37	24.27	-0.3
S.D. = 0.4 on 7 of 7 obs.					

? OCT 26, 1991 14h 08m 36.80±4.15s
6.970 S ± 42.5km 130.005 E ± 20.3km
DEPTH = 177.4 ± 20.5 km

4.4mb (2 obs.)

BANDA SEA (280)

SLKI	1.63	128 iPc	09	10.00	-0.1
		iS	09	31.00	
MTN	5.94	169 eP	10	04.50	0.7
	0.3s	62.00nm			5.3mb X
		eS	11	11.00	
KNA	8.81	188 eP	10	41.70	0.0
		eS	12	17.00	
WR2	13.58	162 eP	11	41.70	-1.8
	0.3s	4.40nm			4.3mb
		eS	14	10.00	

QIS	16.40	146 eP	12	19.00	0.5
		eS	15	13.00	
ASPA	17.02	168 eP	12	26.70	0.7
	0.4s	8.00nm			4.5mb
		eS	15	30.80	
MBL	17.20	214 eP	12	28.00	-0.1
S.D. = 1.2 on 7 of 7 obs.					

% OCT 26, 1991 14h 24m 54.09±1.43s
3.855 N ± 9.5km 76.121 W ± 19.3km
DEPTH = 33.0km (normal)

COLOMBIA (103)

MD 2.7 (UVC).

BUGC	0.14	286 iPd	24	58.82	-1.5
		eS	25	01.60	
CLMC	0.44	273 eP	25	03.96	0.0
HOBC	0.50	358 eP	25	05.51	0.7
		eS	25	13.30	
DIAC	0.56	188 ePc	25	05.12	-0.7
		eS	25	12.70	
HOQC	0.64	233 iPc	25	06.67	-0.3
		eS	25	15.40	
SALC	1.05	213 eP	25	14.31	1.7
S.D. = 1.4 on 6 of 6 obs.					

* OCT 26, 1991 14h 28m 03.15±0.85s
24.780 N ± 17.0km 97.210 E ± 14.6km
DEPTH = 33.0km (normal)

4.5mb (5 obs.)

MYANMAR-CHINA BORDER REGION (297)

SHL	4.89	280 iP	29	10.50	-6.0X
		iS	29	50.50	
CHG	6.15	164 eP	29	34.90	0.7
GUN	10.63	290 P	30	38.60	2.0X
PKI	10.96	287 P	30	41.20	0.1
KKK	11.12	288 P	30	43.40	0.3
DMN	11.23	287 P	30	44.00	-0.7
GKN	11.72	289 P	30	51.40	0.2
WR2	57.30	138 iPc	37	50.50	0.2
	0.3s	8.90nm			5.3mb
ASPA	59.87	141 iPc	38	06.90	-1.3
	0.5s	6.50nm			5.0mb

* OCT 26, 1991 14h 42m 13.50s
40.353 N 124.468 W
DEPTH = 19.0km
NEAR COAST OF NORTHERN CALIF. (35)
<BRK>. ML 3.3 (BRK). Felt (III)
of Honeydew.

FOX	0.40	65	iPd	42	21.89	0.1
FHC	0.58	39	iPd	42	24.26	-0.6
			iS	42	32.36	
WDC	1.49	81	iPc	42	37.16	-2.2
LTCM	1.80	94	eP	42	41.80	-2.0
MIN	2.19	89	iPc	42	47.02	-2.6
			iS	43	16.03	
LBFM	2.19	62	eP	42	48.50	-1.3
NWRM	2.25	147	e(P)	42	52.29	1.9
ORV	2.42	108	iPd	42	50.01	-2.7
PCC	3.28	150	ePc	43	03.92	-1.1
ARN	3.77	142	e(P)	43	11.11	-0.9
CMB	3.93	125	iPc	43	13.05	-1.1

11 obs. associated

% OCT 26, 1991 14h 43m 23.02±0.76s
44.114 N ± 6.4km 12.170 E ± 5.3km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

RSM	0.28	132	P	43	29.50	0.7
			eSg	43	33.70	
SFI	0.30	230	P	43	29.10	-0.2
			eSg	43	33.00	
PGD	0.40	234	P	43	30.50	-0.8
			eSg	43	37.10	
CRE	0.51	198	P	43	32.80	-0.6
			eSg	43	41.00	
ARV	0.83	137	P	43	39.80	0.7
			eSg	43	52.00	
MME	1.06	275	P	43	44.50	1.3
ASS	1.10	161	P	43	44.00	0.2
BDI	1.13	268	P	43	44.90	0.6
			eSg	43	59.00	
MNS	1.77	168	P	43	53.00	-0.9
FVI	2.52	10	P	44	03.50	-1.1

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

% OCT 26, 1991 14h 57m 10.87±3.13s
15.975 N ± 10.9km 60.907 W ± 27.5km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)
ML 2.0 (FDF).

DEG	0.37	336	iPc	57	19.58	0.0
			S	57	24.00	
SFG	0.39	315	eP	57	19.78	-0.1
MGG	0.40	262	iPd	57	19.74	-0.2
			S	57	24.30	
DOG	0.69	275	eP	57	24.62	0.5
BBL	0.71	231	eP	57	24.40	-0.1
			S	57	32.70	
SEG	0.71	307	eP	57	24.30	-0.2
			S	57	32.10	
PAG	0.75	274	eP	57	24.70	-0.3
			S	57	33.90	

S.D. = 0.3 on 7 of 7 obs.

? OCT 26, 1991 15h 11m 12.78±2.98s
44.064 N ± 25.8km 12.117 E ± 7.5km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

SFI	0.24	233	P	11	18.10	0.2
			eSg	11	23.70	
RSM	0.28	119	P	11	18.60	0.0
PGD	0.34	237	P	11	19.70	-0.2
			eSg	11	26.10	
CRE	0.45	195	P	11	22.00	0.0
			eSg	11	31.50	

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

* OCT 26, 1991 15h 12m 24.64±3.34s
44.690 N ± 8.1km 6.625 E ± 26.0km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 1.9 (GEN).

RRL	0.26	26	P	12	30.38	0.2
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PZZ	0.39	118	P	12	33.35	
			S	12	33.46	0.8
			S	12	39.50	
BHB	0.48	71	P	12	33.97	-0.4
			S	12	40.53	
STV	0.67	131	P	12	37.97	-0.1
ENR	0.73	129	P	12	38.58	-0.5

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

% OCT 26, 1991 15h 14m 43.05±0.76s
44.133 N ± 6.3km 12.185 E ± 5.3km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

RSM	0.28	137	P	14	49.70	0.8
			eSg	14	54.80	
SFI	0.32	229	P	14	49.30	-0.4
			eSg	14	53.70	
PGD	0.42	233	P	14	50.80	-0.9
			eSg	14	57.70	
CRE	0.53	199	P	14	53.40	-0.4
			eSg	15	00.60	
ARV	0.84	139	P	14	58.90	-0.4
			eSg	15	12.70	
MME	1.07	274	P	15	04.50	1.1
ASS	1.12	162	P	15	04.50	0.5
BDI	1.15	267	P	15	05.10	0.6
FVI	2.50	9	P	15	23.50	-0.8

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

% OCT 26, 1991 15h 28m 15.56±1.49s
16.706 N ± 15.5km 96.715 W ± 9.9km
DEPTH = 33.0km (normal)
OAXACA, MEXICO (60)

OXX	0.37	359	iP	28	22.50	-2.0
			iS	28	43.50	
IISM	2.36	345	(P)	28	54.50	1.8
			(S)	29	45.00	
IIT	2.76	327	(P)	29	07.00	8.4X
PPM	2.97	322	eP	29	01.50	-0.5
			(S)	29	55.00	
ACX	3.02	274	(P)	29	01.50	-0.6
LVVM	3.03	5	eP	29	02.50	0.3
			(S)	30	04.00	
III	3.11	303	(P)	29	04.50	0.9
SCX	3.91	89	(P)	29	15.00	0.2
			(S)	29	56.00	
MRX	5.20	306	(P)	29	52.50	19.4X

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

% OCT 26, 1991 15h 35m 37.46±0.84s
37.696 N ± 7.9km 15.054 E ± 7.0km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO	0.37	310	P	35	44.50	-0.6
			eSg	35	50.70	
MEU	0.60	189	P	35	49.60	-0.1
			eSg	35	59.70	
GIB	0.86	290	P	35	54.70	0.5
			eSg	36	07.50	
SOI	0.88	64	P	35	54.00	-0.3
			eSg	36	07.50	
CZI	1.74	29	P	36	07.00	-0.8
			eSg	36	31.40	
ROI	2.22	32	P	36	16.10	1.3

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

OCT 26, 1991 15h 36m 40.97±0.71s
42.085 N ± 5.5km 144.229 E ± 8.1km
DEPTH = 66.3 ± 5.8 km
4.5mb (7 obs.)
HOKKAIDO, JAPAN REGION (224)

HOOJ	0.76	293	iP+	36	56.80	0.3
			S	37	06.60	
KUSJ	1.07	19	iPd	37	01.00	0.5
			S	37	14.40	
ASAJ	2.34	331	iPd	37	17.80	-0.1
MRRJ	2.37	279	iPd	37	18.30	0.1
AOMJ	3.28	244	P	37	31.40	0.4
			S	38	07.90	
YAMJ	5.06	221	P	37	56.20	0.2
			S	38	53.30	
KAKJ	6.66	210	P	38	16.40	-2.0
			eS	39	28.30	

MAT	7.24	222	iPd	38	26.20	-0.2
			(S)	39	47.00	
CHJJ	7.27	216	eP	38	26.10	-0.7
			eS	39	44.30	
MTMJ	7.41	224	iPd	38	29.00	0.1
IIDJ	8.23	219	P	38	41.00	0.8
			eS	40	10.50	
TSRJ	9.17	227	eP	38	53.60	0.7
CN2	13.87	283	P	39	54.00	-1.7

1.0s 8.00nm 4.2mb

WHN	26.56	254	Pc	42	15.50	1.2
XAN	28.78	266	eP	42	34.50	0.0
LZH	31.69	273	eP	43	01.00	0.6

1.3s 22.00nm 4.8mb

GTA	33.47	281	eP	43	15.60	-0.2
			1.0s 12.00nm 4.7mb			
CHG	44.75	253	eP	44	51.00	1.4
INK	48.91	29	eP	45	22.00	0.4
GUN	48.96	273	P	45	23.00	0.0
KKN	49.47	273	P	45	27.10	0.4
GKN	49.83	274	P	45	29.60	0.2
MCB	51.06	18	eP	45	20.00	-18.0X
			pP	45	39.00	76kmX
YKA	58.37	32	eP	46	30.80	-0.4

0.8s 3.00nm 4.5mb

FFC	68.30	35	iPc	47	37.30	0.6
			0.9s 14.00nm 4.9mb			
NB2	70.36	338	P	47	48.00	-1.2
			0.7s 1.40nm 4.0mb			
HFS	70.37	336	eP	47	48.00	-1.2
			0.5s 0.80nm 3.9mb			

S.D. = 0.9 on 26 of 27 obs.

OCT 26, 1991 16h 39m 46.56±0.54s
40.659 N ± 4.2km 23.398 E ± 4.9km
DEPTH = 5.0km (geophysicist)
GREECE (364)
MD 2.1 (THE).

SOH	0.17	348	ePgc	39	50.50	0.5
			eSg	39	51.84	
THE	0.33	265	eP	39	53.56	0.3
			eSg	39	58.00	
SRS	0.48	18	eP	39	55.94	-0.3
			eSg	40	02.24	
OUR	0.55	126	eP	39	58.04	0.4
			eSg	40	04.76	
KNT	0.63	323	eP	39	58.99	-0.2
			eSg	40	06.88	
PAIG	0.76	163	eP	40	01.20	-0.6
			eSg	40	11.24	
GRG	0.81	292	eP	40	02.24	-0.6
			eSg	40	14.60	
LIT	0.89	231	eP	40	04.44	0.3
			eSg	40	17.76	
VAY	0.91	317	ePn	40	04.50	0.1

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

* OCT 26, 1991 16h 42m 31.35±1.00s
1.624 N ± 14.0km 127.364 E ± 14.3km
DEPTH = 33.0km (normal)
4.6mb (2 obs.)
HALMAHERA, INDONESIA (267)

MNI	2.53	266	ePd	43	11.50	0.5
PCI	7.94	252	ePc	44	38.80	11.5X
WR2	22.51	163	iPd	47	30.10	0.4
			0.4s 10.10nm 4.6mb			
OIS	25.10	152	eP	47	55.00	0.3
ASPA	25.93	166	eP	48	02.90	0.3
			0.4s 6.00nm 4.5mb			
MUN	35.05	197	eP	49	22.00	-1.3
BJI	39.57	346	eP	50	01.00	-0.2

S.D. = 0.9 on 6 of 7 obs.

% OCT 26, 1991 16h 54m 25.72±0.59s
44.143 N ± 4.7km 12.181 E ± 5.0km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

RSM	0.29	138	P	54	32.30	0.5
			eSg	54	37.00	
SFI	0.32	227	P	54	32.20	-0.2
			eSg	54	37.60	
PGD	0.43	231	P	54	33.70	-0.8
			eSg	54	40.30	
CRE	0.54	198	P	54	36.10	-0.6

ARV	0.85	139	P	eSg	54	44.60	-0.2	MCNL	1.09	323	iP	S	18	29.98		eSg	20	31.50					
				eSg	54	41.90					eP	S	18	16.47	-1.0	CTI	1.94	349	P	20	26.10	0.2	
MME	1.07	273	P	eSg	54	55.60	0.6	XLV	1.32	31	eP	S	18	30.96		FVI	2.48	9	P	20	32.80	-0.7	
				eSg	55	02.30		HOM	1.52	28	eP	S	18	22.47	-0.7	S.D. = 0.6 on 10 of 10 obs.							
ASS	1.13	162	P	eSg	54	47.30	0.4				eS	18	41.34			%	OCT 26, 1991	17h	25m	53.36±	0.73s		
				eSn	55	05.50		CNPM	1.53	37	iP	S	18	22.10	-1.2	44.160 N ± 5.9km 12.150 E ± 5.3km							
BDI	1.14	267	P	eSg	54	48.20	1.0				eS	18	41.02			DEPTH = 10.0km (geophysicist)							
				eSg	55	04.50		INE	1.74	360	eP	S	18	25.32	-1.0	NORTHERN ITALY (545)							
CTI	1.94	349	P	eSg	54	58.30	-0.9				eS	18	47.01			RSM	0.32	137	P	26	00.50	0.5	
FVI	2.49	10	P	eSg	55	06.90	0.1	INW	1.74	359	eP	S	18	25.03	-1.3		SFI	0.32	222	P	26	00.20	0.2
S.D. = 0.7 on 10 of 10 obs.											eS	18	45.51						eSg	26	04.50	0.2	
%	OCT 26, 1991	16h	59m	29.72±	0.75s			NNL	1.94	27	iP	S	18	28.12	-0.9		PGD	0.42	227	P	26	01.70	-0.3
44.142 N ± 6.1km 12.190 E ± 5.3km								RED	2.10	4	iP	S	18	29.86	-1.4					eSg	26	07.70	
DEPTH = 10.0km (geophysicist)								RS1	2.14	4	eP	S	18	30.52	-1.4		CRE	0.55	195	P	26	04.10	-0.5
NORTHERN ITALY (545)											eS	18	55.88						eSg	26	13.00		
RSM	0.29	138	P	eSg	59	36.50	0.8	RS2	2.15	4	eP	S	18	30.66	-1.3		ARV	0.88	139	P	26	10.10	-0.1
				eSg	59	41.60		RSO	2.14	4	eP	S	18	56.06						eSg	26	23.90	
SFI	0.33	228	P	eSg	59	36.20	-0.3	RDW	2.16	3	eP	S	18	30.41	-1.6		BDI	1.12	266	P	26	15.00	0.5
				eSg	59	39.80		REF	2.17	5	eP	S	18	57.26						eSg	26	31.60	
PGD	0.43	232	P	eSg	59	37.80	-0.7				eS	18	30.72	-1.7		ASS	1.15	161	P	26	14.90	0.0	
				eSg	59	44.30		RDN	2.20	4	eP	S	18	56.52			FVI	2.47	10	P	26	34.00	-0.3
CRE	0.54	199	P	eSg	59	40.10	-0.6	NCT	2.24	2	eP	S	18	30.86	-1.8	S.D. = 0.5 on 8 of 8 obs.							
				eSg	59	48.30		RDT	2.28	8	eP	S	18	31.37	-1.8								
ARV	0.84	139	P	eSg	59	45.90	-0.1				eS	18	31.71	-2.0		? OCT 26, 1991	17h	47m	48.04±	8.29s			
				eSg	59	59.00		SEW	2.57	45	eP	S	18	58.25		11.968 S ± 84.1km 123.959 E ± 24.0km							
MME	1.07	273	P	eSg	59	51.00	0.9	SLKM	2.62	32	eP	S	18	34.96	-2.7	DEPTH = 33.0km (normal)							
				eSg	00	07.00					eP	S	18	36.40	-2.0	3.7mb (2 obs.)							
ASS	1.12	162	P	eSg	59	51.00	0.2				S	19	06.66		SOUTH OF TIMOR, INDONESIA (293)								
				eSn	00	07.50		CKL	2.90	7	eP	S	18	40.55	-1.9								
BDI	1.15	267	P	eSg	59	52.00	0.7	SPU	2.91	10	eP	S	18	40.23	-2.2	KNA	5.99	129	eP	49	17.00	0.2	
				eSg	00	07.10		BGL	2.96	6	eP	S	18	42.53	-0.8				eS	50	37.00		
FVI	2.49	9	P	eSg	00	10.00	-0.8	CGLM	3.03	10	eP	S	18	42.51	-1.8	MTN	7.06	98	eP	49	22.00	-9.8X	
S.D. = 0.8 on 9 of 9 obs.											eS	19	18.22					eS	50	47.00			
* OCT 26, 1991	17h	08m	20.22±	1.26s				SVW	3.08	336	eP	S	18	42.64	-2.2	MBL	9.96	203	eP	50	11.00	-1.0	
13.911 N ± 21.3km 91.000 W ± 12.3km								KNIM	3.39	51	eP	S	18	46.46	-2.8				eS	52	05.00		
DEPTH = 33.0km (normal)								KNK	3.86	35	eP	S	19	23.77		WR2	12.76	130	eP	50	45.40	-4.6X	
4.2mb (4 obs.)											eS	18	52.89	-2.9	0.4s 3.30nm 4.8mb X								
NEAR COAST OF GUATEMALA (71)											eS	19	35.12					iS	53	14.10			
TPX	1.57	309	iP	eSg	08	45.50	-0.6	GLI	3.96	47	eP	S	18	53.68	-3.5	ASPA	14.99	142	eP	51	19.50	0.2	
				iS	09	08.50		FID	4.13	51	eP	S	18	55.68	-3.9		0.5s	5.00nm			4.1mb		
SCX	3.22	331	(P)	eSg	09	29.50	19.9X	TTA	4.84	344	eP	S	19	04.79	-4.8				iS	54	11.10		
			(S)	eSg	10	00.00		HMT	4.93	62	eP	S	19	07.91	-2.9	QIS	17.27	122	e(P)	51	48.00	-0.4	
OXX	6.35	300	(P)	eSg	09	55.50	1.2	YAH	6.13	66	eP	S	19	25.11	-2.6				eS	54	57.00		
LVVM	7.80	319	(P)	eSg	10	09.00	-5.2X	36 obs. associated								MRWA	18.70	202	eP	52	07.00	1.0	
IISM	7.93	310	(P)	eSg	10	23.00	6.9X	? OCT 26, 1991	17h	18m	05.40±	1.71s				0.4s 1.00nm 3.4mb							
IIT	8.66	307	(P)	eSg	10	35.00	8.5X	4.467 N ± 25.8km 76.222 W ± 40.1km								S.D. = 1.0 on 5 of 7 obs.							
PPM	8.93	306	(P)	eSg	10	33.50	3.0X	DEPTH = 120.0km (geophysicist)								? OCT 26, 1991	17h	54m	36.03±	3.70s			
III	9.27	300	(P)	eSg	10	34.00	-0.9	COLOMBIA (103)								44.089 N ± 30.1km 12.117 E ± 7.8km							
MEO	21.88	343	iPc	eSg	13	12.00	-0.2	MD 3.1 (UVC).								DEPTH = 10.0km (geophysicist)							
JSC	22.12	22	eP	eSg	13	15.20	0.7	HOBC	0.14	142	eP	S	18	23.15	-0.4	NORTHERN ITALY (545)							
ANMO	25.17	329	eP	eSg	13	45.20	0.9	BUGC	0.57	184	eP	S	18	36.40		SFI	0.25	229	P	54	41.70	0.3	
	1.0s	3.00nm		eSg	15	59.10	1.4				eS	18	24.93	0.7				eSg	54	47.30			
NEW	40.51	333	eP	eSg	15	59.10	1.4	CLMC	0.67	210	ePc	S	18	39.50		RSM	0.29	124	P	54	42.10	0.0	
	1.1s	3.70nm		eSg	16	14.00	0.8	HOQC	1.07	203	eP	S	18	28.48	-0.3				eSg	54	47.40		
PNT	42.40	332	eP	eSg	16	14.00	0.8				eS	18	45.80		PGD	0.36	233	P	54	43.20	-0.2		
	0.7s	14.00nm		eSg	17	22.20	-1.1	DIAC	1.17	179	iPd	S	18	29.52	-0.1				eSg	54	49.80		
YKA	51.34	346	eP	eSg	17	22.20	-1.1				eS	18	47.60		CRE	0.48	195	P	54	45.70	0.0		
	0.8s	3.10nm		eSg	18	30.00	-1.1	SALC	1.56	198	eP	S	18	33.91	-0.1				eSg	54	54.40		
INK	60.80	343	eP	eSg	18	30.00	-1.1	S.D. = 0.5 on 6 of 6 obs.								S.D. = 0.4 on 4 of 4 obs.							
MBC	64.12	353	eP	eSg	18	51.50	-1.6	%	OCT 26, 1991	17h	19m	52.44±	0.56s			% OCT 26, 1991 17h 54m 46.78± 0.59s							
CHG	146.04	343	ePKP	eSg	27	58.10	-0.3	44.145 N ± 4.4km 12.195 E ± 4.7km								40.730 N ± 4.7km 23.415 E ± 5.8km							
CHTO	146.04	343	ePKP	eSg	27	58.00	-0.4	DEPTH = 10.0km (geophysicist)								DEPTH = 10.0km (geophysicist)							
	1.0s	5.50nm		eSg	28	01.50	1.2	NORTHERN ITALY (545)								GREECE (364)							
HYB	147.21	19	ePKP	eSg	28	01.50	1.2	RSM	0.29	139	P	S	19	58.40	0.0	ML 1.7 (THE).							
S.D. = 1.1 on 14 of 19 obs.											eSg	20	03.00		SOH	0.10	333	ePgc	54	49.73	0.2		
& OCT 26, 1991	17h	17m	57.55s					SFI	0.33	228	P	S	19	59.20	-0.1				eSg	54	51.06		
58.330 N 153.053 W											eSg	20	03.50		THE	0.36	254	ePg	54	53.90	-0.2		
DEPTH = 71.0km											eSg	20	00.70	-0.7				eSg	54	57.42			
KODIAK ISLAND REGION (13)								PGD	0.44	232	P	S	20	07.60		SRS	0.41	19	ePg	54	55.14	0.0	
<AEIC>.											eSg	20	03.10					eSg	55	01.82			
SYI	0.45	51	iP	eSg	18	09.38	-0.7	CRE	0.55	199	P	S	20	03.10	-0.4	KNT	0.58	318	ePg	54	58.50	-0.1	
				eS	18	18.70					eSg	20	10.90					eSg	55	05.86			
KDC	0.66	153	eP	eS	18	11.52	-0.7	ARV	0.84	140	P	S	20	09.00	0.3	OUR	0.59	132	ePg	54	58.54	-0.1	
				eS	18	23.20					eSg	20	22.50		PAIG	0.83	166	ePg	55	02.78	0.0		
CDD	0.68	333	iP	iS	18	23.74	-0.7	MME	1.08	273	P	S	20	13.00	0.1				eSg	55	15.26		
				eS	18	16.07	-0.6				eSg	20	29.50		LIT	0.95	229	ePg	55	05.06	0.2		
AUI	1.03	349	eP	eS	18	29.76		ASS	1.13	162	P	S	20	14.00	0.4	S.D. = 0.2 on 7 of 7 obs.							
				eS	18	29.76					eSg	20	30.40					eSg	55	17.26			
AUE	1.05	351	eP	eSg	18	16.49	-0.5	BDI	1.15	266	P	S	20	15.00	0.9								
AUP	1.05	350	eP	eSg	18	16.49	-0.6																

26d 17h

? OCT 26, 1991 17h 55m 16.06±4.85s
15.628 N ±24.8km 60.854 W ±35.2km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)
ML 2.0 (FDF).

MGG 0.53 303 ePc 55 26.88 -0.2
S 55 31.50
BBL 0.61 260 eP 55 28.20 -0.1
S 55 34.70
DEG 0.71 344 ePc 55 29.65 0.0
S 55 38.20
DOG 0.84 299 eP 55 31.61 0.1
S 55 40.30
PAG 0.89 297 eP 55 32.41 0.2
S 55 41.70
S.D. = 0.2 on 5 of 5 obs.

? OCT 26, 1991 18h 18m 05.83±0.99s
5.111 S ±12.2km 143.634 E ±11.5km
DEPTH = 122.8 ± 18.4 km
3.6mb (2 obs.)
NEW GUINEA, PAPUA NEW GUINEA (202)

MNDI 1.04 179 eP 18 29.00 0.0
MDG 2.14 94 iPd 18 41.60 -0.1
JAY 3.90 311 iPc 19 05.00 0.0
e 19 48.90
PMG 5.52 141 eP 19 27.00 0.1
WR2 17.29 211 eP 22 01.10 0.0
0.6s 3.80nm 3.3mb
ASPA 20.70 206 iPc 22 43.30 5.2X
0.7s 3.80nm 3.9mb
S.D. = 0.1 on 5 of 6 obs.

% OCT 26, 1991 19h 23m 49.63±1.63s
37.899 N ± 9.6km 27.243 E ±15.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZM 0.50 2 iPg 23 58.60 -1.1
eSg 24 05.40
CIN 0.73 114 eP 24 03.00 -1.0
YER 1.13 132 iPn 24 10.90 0.1
KHL 1.85 76 ePn 24 22.40 0.7
DST 2.02 32 ePn 24 24.50 0.4
EZN 2.05 340 ePn 24 25.00 0.4
IZI 2.99 35 ePn 24 38.00 0.0
YLV 3.14 31 ePn 24 40.20 0.2
S.D. = 0.8 on 8 of 8 obs.

* OCT 26, 1991 19h 53m 13.52±2.28s
47.043 N ± 9.8km 7.799 E ±22.0km
DEPTH = 10.0km (geophysicist)
SWITZERLAND (544)
ML 2.2 (LDG).

FEL 0.85 10 ePn 53 43.00 13.1X
BSF 1.04 319 Pg 53 32.60 -0.7
Sg 53 44.80
HAU 1.38 315 Pg 53 37.20 -1.6
Sg 53 53.20
CDF 1.42 346 Pn 53 40.60 1.2
Sg 54 00.20
LPG 1.71 206 Pg 53 43.20 -0.6
Sg 54 02.80
LBF 2.62 270 Pg 53 56.00 -0.6
Sg 54 25.60
LOR 2.70 276 Pg 53 59.20 1.4
Sg 54 27.80
SMF 2.75 263 Pg 53 59.20 0.8
S.D. = 1.4 on 7 of 8 obs.

OCT 26, 1991 20h 00m 17.00±0.63s
46.970 N ± 5.3km 7.501 E ± 7.0km
DEPTH = 10.0km (geophysicist)
SWITZERLAND (544)
ML 2.4 (LDG).

ZLA 0.79 49 ePd 00 33.60 1.1
DIX 0.89 184 ePc 00 32.80 -1.5
FEL 0.97 21 ePn 00 35.38 -0.1
MMK 0.97 161 ePc 00 34.70 -1.0
BSF 0.99 331 Pg 00 35.60 -0.2
Sg 00 48.00
LLS 1.03 95 ePd 00 37.40 0.8
SLE 1.04 40 ePc 00 36.70 0.0

HAU 1.30 323 Pg 00 40.60 -0.4
Sg 00 56.10
CDF 1.45 354 Pn 00 41.60 -1.7
Sg 01 03.20
LPG 1.56 200 Pg 00 46.40 1.3
Sg 01 05.20
LBF 2.41 272 Pg 00 59.00 1.8
Sg 01 29.00
LOR 2.50 278 Pg 01 01.00 2.6X
Sg 01 31.60
SMF 2.53 264 Pg 01 02.70 3.8X
Sg 01 33.00
S.D. = 1.3 on 11 of 13 obs.

OCT 26, 1991 20h 18m 23.91±0.45s
44.748 N ± 4.2km 2.859 E ± 3.2km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 3.1 (STR), 2.9 (LDG).

LBL 0.56 30 Pg 18 35.00 -0.3
CAF 0.59 288 Pg 18 35.70 -0.2
Sg 18 43.90
PYM 1.01 6 Pg 18 43.62 0.6
Sg 18 56.95
RJF 1.10 301 Pn 18 44.80 0.2
Pg 18 45.60
Sg 19 00.00
LPO 1.19 267 Pg 18 46.80 0.6
Sg 19 02.00
SSB 1.31 65 Pn 18 48.71 0.6
Sg 19 05.86
AGO 1.32 8 Pg 18 49.33 1.1
Sg 19 06.64
PLDF 1.33 23 Pn 18 48.36 -0.2
Pg 18 49.64
Sg 19 07.11
MAF 1.49 352 Pn 18 51.00 0.3
Pg 18 52.80
Sg 19 12.60
LFF 1.52 278 Pn 18 51.60 0.5
Pg 18 53.00
Sg 19 14.00
TCF 1.61 344 Pn 18 52.40 0.0
Pg 18 55.00
Sg 19 16.00
LSF 1.77 329 Pn 18 54.60 -0.2
Pg 18 58.00
Sg 19 21.20
BGF 1.81 360 Pn 18 55.40 0.1
Pg 18 58.60
Sg 19 22.00
SMF 2.02 20 Pn 18 57.60 -0.8
Pg 19 01.20
Sg 19 27.20
AVF 2.07 9 Pn 18 58.80 -0.3
Pg 19 02.60
Sg 19 29.00
SSF 2.36 11 Pn 19 03.20 -0.1
Pg 19 08.20
Sg 19 38.40
LBF 2.37 19 Pn 19 03.00 -0.5
Pg 19 07.60
Sg 19 38.00
EPF 2.50 228 Pn 19 04.40 -0.9
Pg 19 10.00
Sg 19 42.00
LOR 2.62 15 Pn 19 06.00 -0.9
Pg 19 13.00
Sg 19 45.20
MFF 2.81 312 Pg 19 17.00 7.4X
Sg 19 53.20
LRG 2.83 116 Pn 19 10.20 0.2
LPG 2.86 73 Pn 19 11.00 0.4
Sg 19 52.80
S.D. = 0.6 on 21 of 22 obs.

* OCT 26, 1991 20h 31m 03.48±1.06s
33.172 N ±10.0km 48.184 E ±10.7km
DEPTH = 33.0km (normal)
4.1mb (2 obs.)
WESTERN IRAN (347)

KER 1.48 323 eP 31 41.00 12.8X
IR5 2.84 44 eP 31 48.40 0.7
IR1 3.05 42 eP 31 50.10 -0.6
IR4 3.05 47 eP 31 50.00 -0.7

BHD 3.19 273 ePnc 32 13.00 20.6X
eSn 33 01.50
eS+ 33 11.50
eSg 33 21.00
IR7 3.22 38 eP 31 53.60 0.5
TEH 3.68 45 e(P) 32 09.00 9.4X
SHI 5.11 132 eP 32 20.00 0.0
TAB 5.11 343 e(P) 32 35.00 15.1X
MSL 5.24 309 ePg 33 31.50 70.0X
eSg 33 35.00
HFS 35.17 331 eP 37 56.20 0.2
0.8s 4.50nm 4.5mb
NB2 36.69 331 P 38 08.60 -0.3
0.7s 1.00nm 3.8mb
S.D. = 0.7 on 7 of 12 obs.

? OCT 26, 1991 20h 36m 39.04±2.36s
6.115 S ±27.5km 151.463 E ±30.3km
DEPTH = 58.4 ± 31.1 km
4.3mb (2 obs.)
NEW BRITAIN REGION, P.N.G. (192)

RAB 2.04 20 iPd 37 11.50 0.0
0.5s 760.56nm
iS 37 39.00
LAT 4.47 263 eP 37 46.20 0.4
PMG 5.38 232 eP 37 58.00 -0.7
eS 38 58.00
QIS 18.40 218 iPd 40 52.50 0.8
RMO 20.42 187 iPd 41 18.00 4.0X
WR2 21.57 229 iPc 41 24.60 -1.0
0.5s 6.20nm 4.3mb
i 41 37.20
ASPA 24.29 222 eP 41 52.80 0.5
0.7s 8.90nm 4.4mb
eS 46 05.30
S.D. = 1.1 on 6 of 7 obs.

% OCT 26, 1991 21h 10m 09.98±0.84s
44.155 N ± 6.3km 12.127 E ± 6.4km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

SFI 0.31 220 P 10 16.80 0.4
eSg 10 21.50
RSM 0.33 134 P 10 17.10 0.4
eSg 10 23.10
PGD 0.40 226 P 10 18.10 -0.2
eSg 10 25.20
CRE 0.54 194 P 10 20.60 -0.4
eSg 10 29.00
ARV 0.88 138 P 10 26.40 -0.5
eSg 10 39.90
ASS 1.15 160 P 10 31.90 0.3
FVI 2.48 10 P 10 51.00 0.0
S.D. = 0.5 on 7 of 7 obs.

? OCT 26, 1991 21h 41m 05.30±2.19s
43.861 N ±13.7km 39.507 E ±24.8km
DEPTH = 33.0km (normal)
4.0mb (3 obs.)
NORTHWESTERN CAUCASUS (362)
Felt at Tuapse and Shepsi,
Russia.

KVT 3.78 224 ePn 42 02.40 -0.3
KAS 4.91 242 eP 42 19.00 0.2
MLR 9.80 284 iPd 43 26.50 -0.6
KSP 17.17 302 eP 45 04.20 0.2
NUR 18.92 337 eP 45 22.10 -3.4X
CLL 19.29 302 e(P) 45 32.00 1.9
KAF 19.86 342 iP 45 35.00 -1.1
0.2s 2.00nm 4.1mb
UPP 20.79 328 iP 45 46.30 0.5
HFS 22.53 325 eP 46 01.50 -1.7
0.4s 2.80nm 4.1mb
NB2 24.05 326 P 46 17.60 -0.5
0.7s 1.60nm 3.7mb
SOD 24.55 348 iP 46 24.30 1.5
S.D. = 1.3 on 10 of 11 obs.

% OCT 26, 1991 22h 57m 21.05±0.80s
11.054 N ± 7.5km 62.172 W ± 7.5km
DEPTH = 33.0km (normal)
WINDWARD ISLANDS (95)
MD 3.4 (TRN).

	0.54	131	eP	57	33.6	1.4	35.568 S \pm 19.5km	178.820 W \pm 42.1km	CPW	5.72	26	P	33	00.14	-0.5					
			eS	57	45.00		DEPTH = 99.5 \pm 25.7 km		LMW	5.77	33	P	33	02.26	0.8					
TRN	0.86	118	eP	57	36.96	0.3	5.2mb (2 obs.)		GL2	5.94	45	P	33	03.30	-0.5					
			eS	57	48.94		EAST OF NORTH ISLAND, N.Z.	(688)	GLK	5.98	37	Pc	33	04.69	0.3					
TPP	1.02	136	eP	57	38.95	-0.1			LON	6.04	35	P	33	05.60	0.5					
			eS	57	53.22		HBZ	3.08	228	eP	05	37.40	0.5	REMR	6.08	34	P	33	06.43	0.6
GRW	1.21	24	eP	57	43.06	1.3	PUZ	3.43	222	eP	05	41.30	-0.4	WPW	6.11	37	Pc	33	06.26	0.0
			eS	58	00.76				eS	06	28.50		JBO	6.19	53	P	33	07.29	-0.1	
TBH	1.22	117	eP	57	41.28	-0.7	NOZ	3.95	219	eP	05	49.50	0.7	FMW	6.24	35	Pc	33	08.66	0.6
			eS	57	57.29		URZ	4.23	229	P	05	52.70	0.1	CMB	6.28	126	eP	33	11.17	2.5
PIG	1.31	85	eP	57	43.44	0.3			S	06	47.50		GMW	6.33	26	eP	33	07.15	-2.2	
			eS	58	01.50		MAHZ	4.47	215	eP	05	57.20	1.2	GSM	6.40	32	Pc	33	10.92	0.5
TPR	1.38	84	eP	57	43.81	-0.3	KUZ	4.57	253	eP	05	56.40	-1.0	RMW	6.61	31	P	33	13.89	0.6
			eS	58	01.75		WHH	4.99	227	eP	06	04.20	0.8	HTW	6.91	30	P	33	17.25	-0.1
BOT	1.43	85	eP	57	43.59	-1.3	TEHZ	5.61	217	eP	06	11.60	-0.2	WIW	7.06	48	P	33	18.65	-0.9
			eS	58	01.70		WAHZ	5.63	221	eP	06	13.20	1.1	WAH2	7.12	45	P	33	19.72	-0.6
CUM	2.05	254	iP	57	53.50	-0.3	CNZ	5.77	229	eP	06	15.30	1.2	PGC	7.15	18	eP	33	20.00	-0.7
			iS	58	19.00		RUZ	5.85	231	eP	06	15.60	0.4	LOCW	7.16	45	P	33	20.43	-0.5
SVB	2.38	22	eP	57	58.19	-0.4			eS	07	25.80		JCW	7.18	27	P	33	21.49	0.3	
			eS	58	28.38		MOZ	5.88	238	eP	06	15.60	0.0	KVN	7.24	110	e(P)	33	23.90	1.6
S.D. = 1.0 on 10 of 10 obs.							PGZ	6.36	216	eP	06	20.20	-1.8	CRF	7.25	45	P	33	21.38	-0.8
OCT 26, 1991 23h 23m 30.42 \pm 0.51s							MNG	6.75	220	eP	06	24.40	-3.1X	MCW	7.34	21	eP	33	23.09	-0.3
40.669 N \pm 3.9km 23.435 E \pm 4.9km							KIW	7.23	221	eP	06	32.80	-1.3	ETW	7.34	37	P	33	23.55	0.0
DEPTH = 10.0km (geophysicist)							KHZ	9.06	219	eP	06	57.20	-1.8	FRI	7.38	129	eP	33	22.65	-1.3
GREECE (364)									eS	08	37.60		EPH	7.50	41	P	33	25.47	-0.3	
MD 2.7 (THE).							DZM	18.61	312	iPc	09	01.30	-0.6	TNP	8.31	114	eP	33	38.32	1.1
							RMO	29.12	279	e(P)	10	42.00	-0.8	DPW	8.55	43	eP	33	38.75	-1.6
									e	10	45.00		PNT	8.97	32	ePd	33	46.00	-0.1	
SOM	0.16	338	ePgc	23	34.34	0.1	QIS	39.32	281	iPc	12	11.00	0.7		0.8s	37.00nm			5.8mb X	
			eSg	23	35.86		ASPA	42.42	273	iPd	12	36.70	0.9	ISA	9.02	131	eP	33	46.00	-1.0
THE	0.36	264	ePg	23	37.46	-0.4			0.3s	18.70nm			NEW	9.36	44	eP	33	51.30	-0.2	
			eSg	23	42.06		Z	21s	0.20um				SBB	10.10	133	eP	33	50.00	-11.8X	
SRS	0.46	15	ePg	23	39.82	0.0			eS	18	56.90		GSC	10.25	127	eP	34	06.00	2.2	
			eSg	23	46.50		WR2	43.84	278	iPc	12	47.60	0.3	HPI	10.26	75	eP	34	03.87	-0.3
OUR	0.53	129	ePg	23	41.40	0.2			0.7s	16.50nm			HVU	10.49	86	eP	34	06.92	-0.4	
			eSg	23	47.50		LIC	150.24	167	PKP	24	34.20	8.9X	DUG	10.73	95	eP	34	10.49	0.0
KNT	0.64	321	ePgc	23	42.65	-0.6	KIC	150.43	168	PKP	24	34.60	9.0X	PTI	10.75	80	eP	34	11.88	1.1
			eSg	23	50.62		TIC	150.66	167	PKP	24	35.20	9.3X	BGMT	11.24	68	eP	34	16.40	-1.1
PAIG	0.76	166	ePgc	23	44.74	-0.6	S.D. = 1.0 on 20 of 24 obs.							MSU	11.71	102	eP	34	24.39	0.4
			eSg	23	54.70		OCT 27, 1991 00h 31m 33.64 \pm 0.36s							BW06	12.82	80	eP	34	38.80	0.0
GRG	0.84	290	ePg	23	46.62	0.0	41.906 N \pm 2.9km 126.835 W \pm 3.8km							SES	13.83	47	eP	34	50.00	-2.0
			eSg	23	58.54		DEPTH = 10.0km (geophysicist)							GOL	16.40	91	eP	35	25.20	-0.4
LIT	0.92	232	ePg	23	48.10	0.1	4.6mb (22 obs.) 4.3Msz (1 obs.)								1.3s	70.83nm			4.6mb	
VAY	0.92	315	ePn	23	48.60	0.5	OFF COAST OF NORTHERN CALIFORNIA(34)							RSSD	16.81	75	eP	35	27.50	-3.3X
AGG	1.85	208	ePb	24	03.10	0.6									1.1s	11.18nm			3.9mb	
S.D. = 0.5 on 10 of 10 obs.							FHC	2.41	116	iP	32	11.48	-2.3	ANMO	17.39	107	eP	35	38.50	0.4
OCT 26, 1991 23h 36m 03.06 \pm 0.74s							FOX	2.55	122	eP	32	13.40	-2.3		1.1s	6.33nm			3.7mb	
3.939 N \pm 15.0km 76.314 W \pm 22.8km							HSO	3.20	58	Pc	32	24.34	-0.7	ALO	17.39	107	eP	35	38.00	-0.1
DEPTH = 110.0km (geophysicist)							WDC	3.50	111	iPc	32	27.52	-1.7		1.3s	14.42nm			3.9mb	
COLOMBIA (103)							LBFM	3.75	97	eP	32	32.82	-0.2	FFC	20.78	43	ePd	36	16.90	-0.2
MD 2.7 (UVC).							H80	3.84	58	Pc	32	34.03	-0.2		1.1s	64.00nm			4.9mb	
BUGC	0.07	129	eP	36	19.25	-0.6	LTCM	3.94	114	e(P)	32	35.08	-0.4	BALM	21.35	339	eP	36	21.96	-1.0
			eS	36	31.50		MIN	4.25	110	eP	32	33.17	-6.8X	YKA	21.86	15	eP	36	27.00	-1.0
CLMC	0.25	257	eP	36	19.89	-0.4	KMOR	4.45	32	P	32	42.01	-0.7		0.9s	15.00nm			4.4mb	
HOBC	0.45	23	eP	36	20.46	0.5	GT2	4.64	44	P	32	45.48	0.0	ACO	22.00	95	iPc	36	31.00	1.4
HOOC	0.57	214	ePc	36	21.06	0.1	ORV	4.68	118	eP	32	44.04	-2.0	KLU	22.74	336	eP	36	37.83	1.0
			eS	36	34.70		PGO	4.77	40	P	32	48.01	0.8	MEO	23.20	99	iPc	36	44.00	2.5
DIAC	0.65	170	iPc	36	21.56	0.1	NLO	4.84	29	P	32	48.36	0.0	PMR	23.84	333	eP	36	47.70	0.4
			eS	36	35.60		VBEM	4.95	49	P	32	51.42	1.5		1.0s	2.50nm			3.7mb	
ANCC	0.69	233	ePc	36	21.86	0.2	TDH	4.99	46	P	32	49.50	-0.9	SIO	24.49	94	e(P)	36	55.50	1.6
SALC	1.03	202	eP	36	25.17	0.1	VLMM	5.03	42	P	32	50.68	-0.3	TUL	24.80	94	eP	36	59.30	2.3
			eS	36	41.90		VLL	5.16	45	P	32	52.77	-0.1		0.6s	2.80nm			4.1mb	
S.D. = 0.5 on 7 of 7 obs.							RVW	5.17	33	P	32	53.11	0.3	Z	18s	0.91um			4.3Msz	
OCT 26, 1991 23h 38m 29.83 \pm 0.66s							VFP	5.18	47	P	32	52.93	-0.3	N	18s	0.31um				
40.631 N \pm 5.6km 23.454 E \pm 6.7km							VIPM	5.23	58	P	32	53.47	-0.5	E	18s	0.38um				
DEPTH = 10.0km (geophysicist)							LVP	5.24	36	P	32	54.23	0.2			eS	41	34.00		
GREECE (364)							CROR	5.25	52	P	32	53.64	-0.5			LR	44	27.00		
MD 1.6 (THE).							BMW	5.25	28	P	32	53.75	-0.4	VVO	25.08	95	e(P)	37	00.50	0.9
%	OCT	26,	1991	23h	38m	29.83 \pm 0.66s	MTMW	5.30	37	P	32	54.50	-0.3	RND	25.09	337	eP	37	00.09	0.6
							APM	5.34	43	P	32	55.48	0.1	RLO	25.28	93	eP	37	01.80	0.3
SOM	0.21	338	ePgc	38	34.25	-0.1	FL2	5.37	35	P	32	56.39	0.5	FBA	25.95	340	eP	37	07.60	0.1
			eSg	38	36.20		SHW	5.42	36	P	32	58.20	1.7	INK	26.70	354	eP	37	14.00	-0.4
THE	0.37	270	ePg	38	37.52	0.0	JLK	5.42	37	P	32	57.03	0.5	FVM	28.05	86	e(P)	37	31.63	4.6X
			eSg	38	41.76		HSR	5.43	37	P	32	57.14	0.5	OLY	28.19	91	eP	37	28.6	

27d 00h									
ZOBO	79.22	123 P	43 40.00	-1.3	MD 2.9 (THE).				
2	24s	0.08um	3.9mszx						
CLL	80.80	24 iP	43 48.70	0.2	ALN	0.84	44 ePgc	55 17.97	0.0
MOX	80.94	25 eP	43 49.70	0.3	EZN	0.93	120 iPg	55 18.10	-1.4
LOR	81.04	32 eP	43 49.80	-0.1	OUR	0.99	273 ePg	55 20.37	-0.2
SSF	81.07	32 eP	43 51.40	1.3	PAIG	1.28	254 eSg	55 33.62	0.0
BGF	81.22	33 eP	43 52.70	1.8	KDZ	1.36	4 iPg	55 27.00	0.2
AVF	81.23	32 eP	43 51.80	0.9	RZN	1.45	343 iPc	55 28.00	-0.4
LBF	81.32	32 eP	43 50.20	-1.2	SRS	1.52	303 ePb	55 28.54	-0.7
MAF	81.38	33 eP	43 53.00	1.3	SOH	1.56	290 ePb	55 28.90	-0.9
BRG	81.47	24 iP	43 52.50	0.4	MMB	1.75	318 iPc	55 32.00	-0.5
SMF	81.54	32 eP	43 51.20	-1.4	THE	1.80	282 ePb	55 34.98	1.8
KSP	82.18	23 eP	43 56.00	0.2	PLD	1.86	347 iPg	55 38.00	4.0X
KHC	82.89	25 eP	43 51.00	-8.6X	KNT	2.01	296 ePb	55 35.58	-0.6
GEC2	83.18	25 ePKPc	44 00.60	-0.5	BNT	2.02	87 ePn	55 38.00	1.6
GEC2	83.18	25 ePKPd	44 06.10	5.0X	KKB	2.28	314 eP	55 40.00	-0.3
TOL	83.46	41 eP	44 03.00	0.4	GRG	2.29	288 ePn	55 41.74	1.4
KRA	83.90	21 eP	44 04.70	0.0	DMK	2.41	50 ePn	55 48.00	5.9X
SPC	84.78	21 eP	44 09.70	0.4	CTT	2.54	69 ePn	55 47.10	3.2X
ZST	84.79	23 eP	44 10.40	1.2	DST	2.66	104 ePn	55 44.30	-1.4X
SRO	85.49	23 eP	44 13.50	0.9	VTS	2.77	326 ePg	55 56.00	8.7X
LZH	89.60	321 eP	44 31.60	-1.4	PVL	2.92	1 eP	55 56.00	6.8X
LSZ	145.82	47 iPKP	51 14.50	-0.1	S.D. = 1.0 on 14 of 20 obs.				
MTD	148.86	43 iPKPd	51 20.70	1.3	* OCT 27, 1991 01h 17m 08.33±0.68s				
BUL	149.97	51 iPKPc	51 20.60	-0.5	42.146 N ± 5.1km 19.268 E ± 5.5km				
S.D. = 1.0 on 128 of 134 obs.					DEPTH = 10.0km (geophysicist)				
? OCT 27, 1991 00h 34m 27.04±20.74s					NORTHWESTERN BALKAN REGION (383)				
17.789 N ± 152.1km 61.027 W ± 75.1km					ML 1.7 (TTG).				
DEPTH = 33.0km (normal)					ULC	0.18	184 iPg	17 12.50	0.1
LEEWARD ISLANDS (92)					TTG	0.28	359 iPg	17 15.32	0.2
ML 3.1 (FDF).					BDV	0.35	293 iPg	17 15.66	0.0
SEG	1.45	198 eP	34 50.67	-0.5	HCY	0.65	298 iPg	17 21.04	-0.2
DEG	1.47	181 eP	34 51.21	-0.3	PVY	0.69	49 iPg	17 21.88	-0.2
MGH	1.56	227 eP	34 52.80	0.0	NKY	0.70	343 iPg	17 21.90	-0.3
PAG	1.86	200 eP	34 57.21	0.0	IVA	0.86	33 iPg	17 25.08	0.1
MGG	1.88	189 eP	34 57.60	0.2	BRY	0.92	325 iPg	17 26.34	0.3
BBL	2.29	191 eP	35 04.00	0.6	S.D. = 0.2 on 8 of 8 obs.				
S.D. = 0.5 on 6 of 6 obs.					* OCT 27, 1991 01h 53m 32.46±1.55s				
* OCT 27, 1991 00h 40m 23.37±0.73s					18.189 N ± 10.9km 67.185 W ± 14.3km				
30.434 N ± 12.1km 78.549 E ± 9.9km					DEPTH = 33.0km (normal)				
DEPTH = 33.0km (normal)					MONA PASSAGE (89)				
4.2mb (3 obs.)					MGP	0.20	153 P	53 39.20	0.1
NORTHERN INDIA (308)					MCP	0.24	17 P	53 39.30	-0.2
DMN	6.39	115 P	41 57.80	-0.2	APR	0.51	59 P	53 43.60	0.4
KKN	6.45	112 P	41 59.00	0.3	PORP	0.54	104 P	53 44.00	0.4
PKI	6.65	114 P	42 01.20	-0.4	CLLP	0.59	100 P	53 44.70	0.4
GUN	6.88	110 P	42 04.60	-0.3	SJG	0.99	94 P	53 49.70	-0.3
QUE	10.03	272 eP	43 06.50	18.1X	CPD	1.22	97 P	53 52.40	-0.9
HYB	12.96	180 eP	43 27.60	-0.3	S.D. = 0.6 on 7 of 7 obs.				
HFS	51.68	325 eP	49 28.70	-0.3	* OCT 27, 1991 01h 54m 25.58±0.93s				
NB2	52.97	326 P	49 38.50	-0.2	10.607 S ± 11.0km 119.302 E ± 11.5km				
WR2	73.41	126 iPc	51 55.70	1.4	DEPTH = 33.0km (normal)				
S.D. = 0.7 on 8 of 9 obs.					4.6mb (3 obs.)				
OCT 27, 1991 00h 55m 01.30±0.65s					SUMBA REGION, INDONESIA (287)				
40.296 N ± 8.1km 25.280 E ± 4.7km					KUPT	4.26	84 eP	55 39.70	10.0X
DEPTH = 5.0km (geophysicist)									
AEGEAN SEA (365)									
					KHKI	4.27	301 eP	55 26.50	0.0
					MKS	5.36	2 iPd	55 45.50	0.2
					TRT	7.19	293 ePd	56 18.60	7.5X
					MBL	10.51	177 eP	56 55.50	-1.5
					S.D. = 1.5 on 9 of 11 obs.				
					% OCT 27, 1991 01h 56m 11.91±0.83s				
					43.975 N ± 7.1km 12.074 E ± 6.3km				
					DEPTH = 10.0km (geophysicist)				
					CENTRAL ITALY (381)				
					SFI	0.17	252 P	56 15.60	-0.1
					PGD	0.27	249 P	56 17.50	-0.2
					CRE	0.36	194 P	56 19.60	0.3
					ARV	0.79	127 P	56 25.60	-0.8
					ASS	1.00	155 P	56 31.50	0.6
					FVI	2.67	11 P	56 55.90	0.3
					S.D. = 0.6 on 6 of 6 obs.				
					* OCT 27, 1991 02h 30m 16.77±2.38s				
					36.540 N ± 17.7km 141.590 E ± 21.4km				
					DEPTH = 30.6 ± 6.5 km				
					NEAR EAST COAST OF HONSHU, JAPAN (228)				
					KAKJ	1.19	254 iPd	30 36.20	-1.2
					YAMJ	2.05	323 P	30 49.60	-0.2
					CHJJ	2.15	258 iPd	30 50.00	-1.3
					NIIJ	2.19	289 P	30 51.50	-0.2
					OFUJ	2.54	1 P	30 57.70	1.0
					MAT	2.72	271 iPd	30 59.30	0.0
					MTMJ	3.05	272 P	31 04.30	0.2
					IIDJ	3.16	252 P	31 06.80	1.1
					TSRJ	4.65	259 P	31 27.90	1.2
					WKYJ	5.42	246 P	31 37.20	-0.4
					TKSJ	6.68	250 eP	31 54.70	-0.6
					YONJ	6.74	261 eP	31 56.30	0.2
					ASAJ	7.61	6 eP	32 07.20	-1.1
					GUN	47.35	276 P	38 49.60	-0.6
					KKN	47.88	276 P	38 56.60	2.4
					GKN	48.30	277 P	38 56.20	-1.2
					S.D. = 1.2 on 16 of 16 obs.				
					& OCT 27, 1991 02h 33m 55.60s				
					61.250 N 151.038 W				
					DEPTH = 61.5km				
					SOUTHERN ALASKA (2)				
					<AEIC>. ML 2.5 (AEIC).				
					SUA	0.26	33 iPc	34 05.73	-0.1
					CGLM	0.47	277 iPd	34 07.09	-0.5
					SPU	0.50	263 iPd	34 07.22	-0.6
					NKA	0.52	191 iPd	34 09.36	1.4
					CRP	0.54	272 iPd	34 07.91	-0.5
					NCG	0.56	286 iPd	34 07.98	-0.6
					CKL	0.63	266 iPd	34 08.73	-0.6

BGL	0.65	272	iPd	34 09.01	-0.6	BGMT	5.71	136	eP	22 43.60	-1.5	eS	09 32.50				
PWA	0.69	54	iPc	34 09.72	-0.1		29 obs.	associated				SHK	7.26	261	eP	08 33.80	0.9
			eS	34 20.95								KUSJ	7.58	19	eP	08 33.50	-3.7X
PMS	0.71	90	iPc	34 10.13	-0.1	?	OCT 27, 1991	04h 00m 05.02±13.05s						eS	09 54.30		
			eS	34 22.04			35.720 N ±99.3km	2.837 W ±18.6km				ASAJ	8.20	6	eP	08 42.40	-3.6X
SKT	0.77	342	ePc	34 10.12	-0.8		DEPTH = 10.0km	(geophysicist)				SHNJ	8.62	261	eP	08 55.00	3.2X
			eS	34 21.75			STRAIT OF GIBRALTAR	(385)				KUMJ	9.38	252	eP	09 03.90	1.6
SLKM	0.85	151	ePc	34 11.21	-0.7		mbLg 2.8 (MDD).					KAGJ	9.96	244	eP	09 12.20	1.9
			eS	34 23.61								MDJ	12.47	317	iPc	09 47.60	3.4X
RDT	0.95	225	iPd	34 12.59	-0.7	EGUA	1.26	332	iP	00 28.50	0.1		1.2s	120.00nm		5.9mb	
			iS	34 26.21					iS	00 37.20		Z	20s	3.73um		5.0MszX	
PLRM	0.98	69	ePc	34 12.66	-0.9	ENIJ	1.35	22	iP	00 30.10	0.2			S	11 56.00		
			eS	34 26.90					iS	00 37.50		CN2	14.51	307	Pc	10 11.00	-0.2
REF	1.12	228	iPd	34 14.95	-0.6	AFC	1.63	340	iP	00 33.80	-0.3		1.0s	35.00nm		4.8mb	
			eS	34 30.74		ECOG	1.66	340	iP	00 34.60	0.2	Z	15s	5.80um		5.2Msz	
RDN	1.12	230	iPd	34 14.65	-0.9				iS	00 45.60		N	10s	1.15um			
			eS	34 29.92		EHUE	2.10	5	iP	00 40.50	-0.3	E	10s	0.97um			
GHO	1.14	62	ePc	34 15.00	-0.8		S.D. = 0.3	on	5 of	5 obs.				epP	10 16.00		
			eS	34 30.67								SNY	15.04	298	iPd	10 18.00	-0.1
RSO	1.15	227	iPd	34 15.47	-0.6	%	OCT 27, 1991	04h 33m 05.94±1.04s					1.2s	110.00nm		5.0mb	
			eS	34 31.06			39.432 N ± 9.3km	22.900 E ± 9.8km				Z	18s	2.62um		4.9Msz	
NCT	1.15	234	eP	34 15.51	-0.5		DEPTH = 10.0km	(geophysicist)				DL2	15.96	286	eP	10 30.00	-0.1
RS2	1.15	228	iPd	34 15.50	-0.6		GREECE	(364)					1.2s	170.00nm		5.1mb	
			eS	34 31.65			MD 1.8 (THE).					Z	18s	1.53um		4.3Msz	
RS1	1.16	227	iPd	34 15.55	-0.6							SSE	17.52	260	eP	10 50.20	0.5
			eS	34 31.80		AGG	0.60	227	ePg	33 18.06	-0.1	Z	20s	3.20um			
RDW	1.16	229	iPd	34 15.59	-0.6				eSg	33 27.58		NJ2	19.07	265	Pc	11 07.00	-1.8
			eS	34 31.62		LIT	0.74	335	ePg	33 20.62	0.2			pP	11 15.80	33km	
RED	1.19	226	ePd	34 15.80	-0.7				eSg	33 30.66		TIA	19.60	278	eP	11 11.30	-3.6X
			eS	34 32.27		PAIG	0.78	50	ePg	33 20.98	-0.1	Z	18s	1.87um			
CUT	1.22	17	ePd	34 15.88	-0.8				eSg	33 30.98		BJI	20.25	289	eP	11 17.50	-4.2X
NNL	1.22	186	eP	34 17.63	0.8	THE	1.20	2	ePb	33 27.26	-1.0		1.5s	160.00nm		5.1mb	
KNK	1.26	81	ePc	34 16.46	-0.9				eSb	33 44.62		Z	18s	0.88um		4.2Msz	
			eS	34 33.14		OUR	1.23	42	ePb	33 28.94	0.2			S	15 02.00		
SEW	1.39	145	eP	34 18.67	-0.4	KNT	1.73	360	ePb	33 37.06	0.9	GUMO	22.50	171	eP	11 45.50	0.9
			S	34 38.12					eSb	33 58.54		Z	24s	0.03um		2.7MszX	
SML	1.41	65	ePc	34 18.27	-1.2		S.D. = 0.8	on	6 of	6 obs.		PJG	22.50	171	eP	11 45.20	0.6
INE	1.55	221	ePd	34 20.96	-0.6							TIY	23.20	283	Pc	11 49.00	-2.4
			eS	34 40.54		?	OCT 27, 1991	04h 46m 10.86±4.26s					18s	1.58um		4.5Msz	
INW	1.57	222	ePd	34 21.24	-0.5		32.251 S ±21.8km	72.013 W ±31.3km				WHN	23.21	264	eP	11 49.50	-1.9
CNPM	1.73	183	eP	34 22.86	-1.0		DEPTH = 33.0km	(normal)					0.8s	52.00nm		5.1mb	
KNIM	1.85	118	eP	34 22.74	-2.8		OFF COAST OF CENTRAL CHILE	(134)				Z	24s	2.03um		4.5MszX	
SCM	1.87	70	eP	34 23.97	-1.9		MD 4.1 (SAN).							pP	12 01.00	45kmX	
GLI	1.95	99	eP	34 24.43	-2.5	ROCH	1.11	131	iPc	46 30.00	-0.3	HHC	23.81	291	eP	11 54.40	-2.9X
FID	2.28	101	ePc	34 28.31	-3.2				iS	46 47.20			0.8s	36.00nm		5.0mb	
KLU	2.48	82	iPc	34 32.02	-2.3	JACH	1.27	110	iPc	46 32.10	-0.5	Z	14s	1.89um		4.7MszX	
	36 obs.	associated							iS	46 51.00		BTO	24.98	290	eP	12 05.00	-3.6X
&	OCT 27, 1991	03h 21m 17.60s				LCCH	1.28	163	iP	46 32.50	0.0	XAN	26.59	275	Pc	12 21.80	-1.9
	49.510 N	117.610 W				PEL	1.43	129	iPc	46 34.70	-0.1		0.8s	32.00nm		5.0mb	
	DEPTH = 7.0km	(geophysicist)							iS	46 54.50				pP	12 27.70	21km	
	BRITISH COLUMBIA, CANADA	(23)				TACH	1.67	147	iP	46 38.90	0.7	LZH	30.24	281	Pc	12 55.00	-1.6
	<PGC>. ML 3.0 (PGC). MD 3.3					LNV	1.77	164	iPc	46 39.00	-0.7		1.5s	96.00nm		5.4mb	
	(SEA). Felt (IV) in the Nelson-					PCH	1.86	138	iPd	46 41.10	0.1	Z	20s	1.93um		4.7Msz	
	Castlegar area. Felt most								iS	47 07.50		E	15s	1.45um			
	strongly in the Slovan Valley.					CHCH	2.03	146	iP	46 44.00	0.5			pP	13 03.00	28km	
									iS	47 11.00				sP	13 08.00		
PNT	1.32	262	P	21 41.50	-0.9	CFA	3.27	80	e(P)	47 01.30	0.2	GYA	31.03	262	iPd	13 01.00	-2.6X
DPW	1.69	194	P	21 48.35	0.7		S.D. = 0.5	on	9 of	9 obs.			1.4s	84.00nm		5.4mb	
		S		22 11.15										S	18 01.40		
SLEB	1.69	349	P	21 47.50	-0.4		OCT 27, 1991	05h 06m 45.98±0.17s				CD2	31.66	272	P	13 06.40	-2.7X
DHW2	2.09	224	P	21 53.01	-0.5		35.963 N ± 3.0km	141.380 E ± 2.9km				GTA	32.87	289	iPc	13 18.80	-0.8
SAW	2.17	214	P	21 56.77	2.2		DEPTH = 28.6km	(8 depth phases)					1.0s	97.00nm		5.7mb	
OD2	2.24	199	P	21 58.62	2.9		5.2mb (72 obs.)	4.7Msz (11 obs.)				Z	18s	0.99um		4.6Msz	
		S		22 27.70			NEAR EAST COAST OF HONSHU, JAPAN(228)							pP	13 28.60	34km	
NLW	2.30	233	P	21 55.76	-1.0	KAKJ	1.01	284	iPd	07 04.10	0.0			sP	13 35.80		
CBSW	2.35	224	P	21 56.35	-0.9				S	07 16.00		KMI	34.79	263	Pd	13 34.50	-2.0
WTV	2.39	222	P	21 57.27	-0.6				S	07 17.30	-0.2		1.8s	100.00nm		5.4mb	
EPH	2.53	212	P	22 03.67	3.9	CHJJ	1.94	273	iPd	07 42.30		CHG	41.01	257	eP	14 28.00	-0.3
ETW	2.63	224	P	22 00.06	-1.2				eS	07 42.30			1.0s	14.00nm		4.6mb	
MNB	2.74	350	P	22 02.60	-0.4	NIJJ	2.30	304	iPd	07 23.50	0.8	WMQ	41.31	298	iPc	14 31.30	0.7
WRD	2.74	203	P	22 05.98	3.2	YAMJ	2.45	334	P	07 25.80	0.9		1.0s	210.00nm		5.8mb	
RPW	2.78	249	P	22 02.55	-0.9				S	07 54.50		Z	18s	0.98um		4.7Msz	
RC1	2.84	206	P	22 07.67	3.4	MAT	2.63	284	iPd	07 27.80	0.4			pP	14 33.00	2.1	
CRF	2.94	205	P	22 08.62	3.1				(S)	08 01.00		AAI	41.33	200	eP	14 39.00	-0.3
LOCW	3.05	204	P	22 07.15	0.1	IIDJ	2.86	261	P	07 33.30	2.6X	LSA	42.29	276	eP	14 46.00	-1.9
WAH2	3.05	206	P	22 06.73	-0.4	MTMJ	2.95	283	iPd	07 33.20	1.1	SHL	43.38	270	iP	21 20.00	
TBM	3.08	222	P	22 06.77	-0.8	OFUJ	3.12	4	iPd	07 34.40	0.0			eS	21 20.00		
BVW	3.10	210	P	22 10.21	2.4				S	08 11.00		NNT	44.07	249	eP	14 53.80	0.5
JCW	3.14	247	P	22 07.64	-0.8	TSRJ	4.41	266	P	07 54.40	1.7	PMG	45.45	172	eP	15 05.00	0.7
CMW	3.16	252	P	22 09.52	0.7	ADMJ	4.66	351	eP	07 58.20	2.0	GUN	47.24	277	P	15 18.80	-0.1
GBL	3.17	204	P	22 11.44	2.7	WKYJ	5.05	252	P	08 02.90	1.0	PKI	47.76	276	P	15 22.20	-0.8
MDW	3.24	207	P	22 10.62	0.8	TKSJ	6.34	254	P	08 21.00	1.1	KKK	47.78	277	P	15 22.20	-0.7
RSW	3.39	204	P	22 14.02	1.9	MRRJ	6.46	358	eP	08 20.40	-1.1	DMN	47.99	277	P	15 24.20	-0.5
BRVW	3.42	209	P	22 15.54	3.0				eS	09 32.30			0.8s	59.00nm		5.7mb	
MXC	3.44	213	P	22 12.06	-0.7	YONJ	6.50	265	P	08 22.90	0.7	GKN	48.21	277	P	15 26.00	-0.2
HBMT	5.02	136	eP	22 34.30	-1.1	HOJ	6.58	12	eP	08 20.90	-2.4	IPM	48.50	240	ePd	15 27.90	-0.5

27d 05h

MTN	49.50	193	iPd	15	35.70	-0.2	BZS	82.31	322	eP	19	04.50	-1.6		0.9s	13.10nm	5.2mb			
	0.5s	65.00nm				5.9mb	SRO	82.33	325	iP	19	07.50	1.3	GRR	89.52	336	eP	19	41.80	0.0
PMP	49.50	36	eP	15	35.70	0.2	PRU	82.38	329	Pc	19	06.80	0.4		1.0s	16.00nm	5.3mb			
	0.9s	1.40nm				4.0mb X		1.0s	14.70nm				5.0mb	BGF	89.79	333	eP	19	42.90	-0.2
FBA	50.02	32	eP	15	39.90	0.4	Z	16s	0.50um		19	16.20	30km		1.0s	8.00nm	4.9mb			
	0.8s	2.20nm				4.2mb	ZST	82.60	326	eP	19	08.30	0.7	LPF	89.89	336	eP	19	42.90	-0.6
KHK I	50.33	214	ePc	15	41.30	-1.0	KDZ	83.06	317	eP	19	12.00	1.9		0.9s	18.00nm	5.3mb			
			e	18	11.90		MOX	83.08	330	iPd	19	10.30	0.2	MAF	90.18	333	eP	19	45.20	0.3
KNA	52.80	195	eP	16	00.80	-0.1		1.6s	26.00nm				5.1mb	TCF	90.25	333	eP	19	45.40	0.1
BALM	52.81	36	eP	16	00.70	-0.1	Z	16s	0.50um				5.0mszX		0.8s	3.35nm	4.7mb			
NDI	53.86	282	eP	16	07.50	-1.2	N	17s	0.30um					LSF	90.54	333	eP	19	46.60	0.1
INK	55.35	27	eP	16	19.00	-0.1	E	18s	0.20um						1.0s	18.00nm	5.3mb			
WR2	56.00	188	iPd	16	22.80	-1.5	UZD	83.09	324	e(P)	19	10.00	-0.1	SIO	90.73	43	e(P)	19	41.00	-6.6X
	0.9s	18.30nm				5.1mb	HOF	83.23	330	eP	19	11.00	0.1	MFF	90.83	335	eP	19	47.70	-0.1
OIS	56.24	182	eP	16	25.00	-0.9		1.0s	20.00nm				5.2mb		1.0s	16.00nm	5.3mb			
MBC	57.56	16	ePc	16	34.70	-0.1	RZN	83.41	318	iPc	19	13.00	0.8	TUL	90.90	43	eP	19	48.30	0.0
	1.0s	24.00nm				5.2mb	KHC	83.44	329	iPc	19	12.30	0.3		0.8s	4.30nm	4.8mb			
HYB	58.15	269	iPc	16	39.00	-0.8		1.2s	20.00nm				5.1mb	RLO	91.13	42	eP	19	47.50	-1.9
	1.0s	90.00nm				5.8mb	Z	18s	0.50um				4.9msz	VVO	91.34	43	eP	19	50.40	0.0
ASPA	59.73	188	iPc	16	49.30	-1.1	E	18s	0.50um					RJF	91.35	333	eP	19	50.90	0.6
	0.5s	14.20nm				5.4mb					19	31.50	70kmX		1.0s	12.00nm	5.2mb			
Z	23s	0.20um				4.2mszX	VTS	83.60	319	iPc	19	14.00	0.9	CAF	91.46	332	eP	19	51.70	0.9
MBL	60.36	203	eP	16	54.00	-0.8	GEC2	83.61	328	ePKPd	19	11.30	-1.6		1.0s	16.00nm	5.4mb			
QUE	61.25	288	eP	16	59.90	-1.2		0.9s	4.97nm				4.7mb	LFF	91.94	333	eP	19	53.80	0.8
POO	61.39	273	iPc	16	59.40	-2.6X	WET	83.72	329	iPc	19	14.00	0.6		1.0s	18.00nm	5.5mb			
DZM	62.40	154	iPd	17	19.00	10.3X		1.1s	22.00nm				5.2mb	LPO	92.00	333	eP	19	53.00	-0.3
RMO	62.50	173	eP	17	10.00	0.9	WTS	83.83	334	eP	19	14.00	0.2		1.0s	14.00nm	5.3mb			
WARB	63.36	195	eP	17	14.50	-0.3	GRF	83.98	330	iPc	19	15.50	0.8	LKO	125.07	319	PKP	25	45.00	-0.7
	0.5s	8.00nm				5.1mb		1.1s	35.00nm				5.5mb		0.9s	11.50nm				
MAIO	64.08	297	iPc	17	19.00	-0.7	Z	19s	0.40um				4.8msz	TIC	127.16	316	PKP	25	49.80	0.0
YKA	64.75	30	eP	17	23.20	-0.3	MKT	84.01	304	iPc	19	15.90	0.7	KIC	127.24	316	PKP	25	49.80	-0.1
	0.9s	9.50nm				4.9mb	EKA	84.13	341	P	19	19.00	3.7X	LIC	127.51	316	PKP	25	50.40	0.0
SOD	65.94	337	iPc	17	30.50	-0.6		1.0s	5.00nm				4.7mb	ZOBO	147.24	61	PKP	26	28.20	1.2
DAG	66.85	355	iPd	17	36.00	-0.8	KKB	84.17	319	iPc	19	17.00	1.2		0.9s	11.25nm				
	0.9s	20.17nm				5.2mb	BHG	84.82	328	iPd	19	20.00	1.1	Z	22s	0.15um				4.7msz
OBN	68.93	323	iPc	17	49.00	-1.1		1.5s	57.00nm				5.6mb	LPB	147.43	61	PKP	26	28.00	0.9
	1.0s	52.00nm				5.6mb	VAY	84.83	318	iP	19	19.60	0.6	SOB1	153.29	5	(PKP)	26	44.00	8.5X
Z	16s	0.90um				5.1mszX		0.8s	68.00nm				5.9mb		S.D. = 0.9	on 157	of 173	obs.		
N	16s	0.60um					MBH	84.92	303	iPc	19	20.10	0.3							
E	16s	0.60um					SKO	84.97	320	iPc	19	20.60	0.8							
								1.0s	60.00nm				5.8mb							
PNT	68.96	44	eP	17	50.00	-0.5	Z	16s	0.82um				5.2mszX							
	0.7s	5.00nm				4.7mb	N	16s	0.57um											
MRWA	69.10	204	eP	17	50.60	-0.8	E	15s	0.58um											
KAF	69.25	333	iP	17	51.00	-0.9	PLE	85.06	322	iPc	19	21.20	0.9							
	0.5s	18.40nm				5.4mb	IVA	85.13	321	iPc	19	21.58	0.9	VRI	0.31	335	iPc	34	21.30	-0.1
BAL	70.16	202	eP	17	57.00	-0.8	ENN	85.15	333	eP	19	20.50	0.0	ISR	0.52	210	ePd	34	24.60	0.2
NUR	70.88	332	iP	18	01.20	-0.7		1.0s	19.00nm				5.3mb	CVO	0.57	294	iPc	34	25.50	0.4
NEW	70.92	44	eP	18	02.90	0.4	FUR	85.16	329	iPc	19	21.00	0.4	MLR	0.69	262	iPc	34	26.50	-0.4
	0.9s	5.92nm				4.7mb		1.0s	24.00nm				5.4mb	PPE	0.80	38	eP	34	52.00	23.8X
NWAO	72.16	201	eP	18	09.30	-0.6	MEM	85.25	333	iPc	19	20.86	-0.1	TLB	1.27	141	iPc	34	35.00	0.0
SES	73.00	40	eP	18	15.00	0.2	PVY	85.29	321	iPc	19	21.84	0.3	CMP	1.36	257	ePc	35	01.00	24.6X
UPP	73.90	334	iP	18	18.80	-0.9	ANMO	85.30	50	eP	19	23.00	1.2		S.D. = 0.4	on 5	of 7	obs.		
FFC	74.62	33	iPc	18	24.10	0.1		1.0s	3.00nm				4.5mb							
	0.9s	22.00nm				5.2mb	ALQ	85.30	50	eP	19	23.00	1.2							
HFS	75.05	336	eP	18	25.60	-0.8		1.0s	4.50nm				4.6mb							
	0.8s	20.80nm				5.2mb	VBY	85.45	325	eP	19	22.00	-0.1							
Z	17s	0.57um				4.9mszX	NKY	85.63	321	iPc	19	23.04	-0.2							
							TTG	85.78	321	iPc	19	24.00	0.3							
NB2	75.16	337	P	18	26.80	-0.3	BRY	85.80	322	iPc	19	23.64	-0.4	SOH	0.12	348	ePgc	36	48.77	0.1
	0.9s	29.20nm				5.3mb	OHR	85.92	319	eP	19	24.50	-0.1							
BGMT	75.51	44	eP	18	30.40	0.8	SNF	85.95	334	iPc	19	24.45	0.0	THE	0.33	258	ePg	36	52.14	-0.2
BSD	78.38	332	eP	18	44.00	-1.0	BDV	86.10	321	iPc	19	25.16	-0.3							
BW06	78.43	45	eP	18	46.10	0.2	ULC	86.12	321	iPc	19	25.84	0.3	SRS	0.45	20	ePg	36	54.66	0.1
	0.9s	2.12nm				4.2mb X	CDF	86.57	331	eP	19	27.60	-0.1							
VRI	79.52	320	eP	18	52.00	0.5		0.9s	16.40nm				5.3mb	OUR	0.58	129	ePg	36	56.78	-0.5
KRA	79.97	326	eP	18	54.20	0.5	BSF	87.23	331	eP	19	30.50	-0.5							
	1.0s	97.00nm				5.8mb		0.8s	6.70nm				4.9mb	KNT	0.59	321	ePg	36	57.41	-0.1
							HAU	87.26	332	eP	19	30.60	-0.4							
MLR	80.19	320	eP	18	55.50	0.3	Z	20s	0.22um				4.6msz							
SPC	80.44	325	eP	18	57.10	0.5	LOR	88.82	333	eP	19	38.40	-0.1	PAIG	0.80	164	ePg	37	01.58	0.5
								1.2s	14.90nm				5.2mb		S.D. = 0.4	on 6	of 6	obs.		
KSP	81.00	328	iPc	18	59.60	0.4	Z	20s	0.28um				4.7msz							
	1.0s	37.00nm				5.4mb	LBF	89.01	332	eP	19	39.40	0.0							
								1.0s	8.00nm				5.0mb							
PSZ	81.51	325	iPc	19	03.00	0.9	SSF	89.12	333	eP	19	40.20	0.3							
BRG	81.96	329	iP	19	04.40	0.2		1.0s	9.00nm				5.0mb							
	1.1s	24.00nm				5.1mb	LPL	89.15	330	eP	19	40.00	-0.3							
CLL	82.01	330	iPc	19	04.30	-0.1		1.0s	8.00nm				5.0mb							
	1.2s	41.00nm				5.3mb	LPG	89.15	330	eP	19	40.40	-0.1							
HRI	82.18	305	eP	19	06.20	0.3		0.8s	4.05nm				4.8mb							
BUD	82.23	325	eP	19	06.30	0.6	SMF	89.35	332	eP	19	40.90	-0.1							
								1.0s	11.00nm				5.1mb	LAT	4.61	247	eP	44	21	

1.0s 12.50nm 4.3mb
 OIS 19.28 215 iPd 48 04.00 -0.4
 0.5s 7.00nm 4.4mb
 RMO 21.62 186 eP 48 28.00 0.3
 WR2 22.26 226 iPd 48 34.40 0.4
 0.3s 24.80nm 5.2mb
 eS 52 27.70
 KNA 24.61 242 eP 48 58.20 1.8
 ASPA 25.09 220 eP 48 59.20 -1.6
 1.0s 4.40nm 4.0mb
 MBL 34.54 239 eP 50 23.50 -0.8
 S.D. = 1.2 on 9 of 10 obs.

% OCT 27, 1991 06h 25m 11.03± 2.39s
 41.251 N ± 19.2km 23.306 E ± 7.9km
 DEPTH = 10.0km (geophysicist)
 GREECE-BULGARIA BORDER REGION (363)
 MD 1.8 (THE).

SRS 0.25 122 ePg 25 15.88 -0.5
 eSg 25 19.84
 KNT 0.32 254 ePg 25 17.88 0.2
 eSg 25 22.20
 SOH 0.43 175 ePg 25 19.77 0.0
 eSg 25 26.12
 THE 0.67 203 ePg 25 23.72 -0.6
 eSg 25 32.12
 OUR 1.05 151 ePg 25 31.80 1.0
 S.D. = 0.9 on 5 of 5 obs.

OCT 27, 1991 06h 38m 07.63± 1.51s
 31.790 N ± 9.4km 130.884 E ± 7.2km
 DEPTH = 135.6 ± 14.1 km
 4.6mb (13 obs.)

KYUSHU, JAPAN (235)

MAT 7.70 50 iPd 39 58.30 0.0
 (S) 41 20.00
 BJI 14.47 309 eP 41 32.00 4.9X
 TIY 16.27 296 eP 41 53.40 3.8X
 XAN 18.57 283 P 42 16.00 -0.8
 0.6s 17.00nm 4.5mb
 GYA 21.80 262 P 42 49.80 0.1
 LZH 22.81 288 eP 42 59.50 0.0
 1.0s 29.00nm 4.6mb
 CD2 23.16 275 P 43 03.10 0.2
 GTA 26.29 295 iPd 43 32.20 0.0
 1.2s 49.00nm 5.0mb
 CHG 31.51 254 eP 44 19.10 0.3
 GUN 39.02 276 P 45 23.40 0.5
 0.6s 25.00nm 5.1mb
 PKI 39.52 276 P 45 28.20 1.2
 KKN 39.56 276 P 45 27.80 0.6
 GKN 40.04 277 P 45 32.00 0.9
 WR2 51.55 176 iPd 47 00.90 -0.8
 0.7s 2.20nm 4.1mb
 ASPA 55.22 177 eP 47 27.90 -0.7
 0.5s 5.40nm 4.7mb
 KEV 65.14 338 eP 48 35.00 -0.5
 SOD 66.28 336 iP 48 42.20 -0.6
 KAF 68.78 331 eP 48 57.30 -1.2
 0.2s 1.30nm 4.4mb
 NUR 70.26 330 eP 49 06.80 -0.7
 UPP 73.57 331 iP 49 25.50 -1.5
 HFS 74.98 333 eP 49 34.10 -1.1
 0.5s 5.40nm 4.6mb
 NB2 75.36 334 P 49 36.90 -0.5
 0.7s 6.70nm 4.5mb
 PNT 77.86 39 eP 49 53.00 1.5
 GEC2 82.15 324 ePd 50 14.40 0.0
 0.6s 1.50nm 3.9mb
 GRF 82.82 325 eP 50 18.90 1.1
 0.9s 5.00nm 4.4mb
 BGMT 84.43 39 eP 50 28.10 1.8
 ENN 84.54 328 e(P) 50 27.00 0.7
 0.6s 6.00nm 4.6mb
 EKA 84.72 336 Pd 50 27.40 0.2
 1.0s 8.70nm 4.6mb
 TIC 123.18 304 PKP 56 50.00 -0.3
 KIC 123.18 304 PKP 56 50.00 -0.3
 S.D. = 0.9 on 28 of 30 obs.

OCT 27, 1991 07h 01m 23.27± 0.18s
 40.198 N ± 4.5km 63.054 E ± 2.8km
 DEPTH = 38.7km (4 depth phases)
 5.0mb (62 obs.) 3.7MsZ (5 obs.)
 NORTHWESTERN UZBEKISTAN (339)

MAIO 4.79 217 iPd 02 34.00 -1.1
 0.6s 82.77nm
 eS 04 08.00
 KSH 9.97 90 P 03 44.00 -3.3X
 QUE 10.48 161 eP 04 03.80 9.5X
 IR7 10.80 249 eP 03 57.00 -1.6
 IR4 10.82 247 eP 03 56.00 -2.9X
 IR1 10.88 248 eP 03 58.00 -1.7
 IR5 11.06 247 eP 03 59.00 -3.1X
 SHI 13.61 223 eP 04 37.00 0.9
 NDI 16.36 130 eP 05 08.40 -3.2X
 BHD 16.47 251 ePd 05 16.00 3.0X
 WMO 18.65 71 P 05 36.50 -3.6X

Z 16s 1.18um
 N 12s 1.01um
 GKN 21.56 118 P 06 10.20 -1.3
 DMN 22.13 118 P 06 16.40 -0.9
 KKN 22.13 117 P 06 16.00 -1.3
 PKI 22.36 117 P 06 18.60 -1.1
 GUN 22.46 116 P 06 20.20 -0.5
 BHL 22.70 263 P 06 24.00 1.2
 HRI 22.90 261 eP 06 27.70 3.0X
 OBN 23.04 319 iPd 06 25.20 -0.5

1.2s 130.00nm 5.3mb
 Z 18s 0.70um 4.2MsZ
 E 16s 0.60um
 e 06 36.00 42km
 e 06 47.00
 ePP 07 21.00
 ePPP 07 41.00
 eS 10 33.00
 e 10 58.00
 eSS 11 11.00

BBTK 23.15 279 iP 06 29.00 1.8
 MML 23.52 259 eP 06 32.60 2.0
 LSA 25.20 106 eP 06 49.00 1.6
 MBH 25.22 254 eP 06 48.00 0.9
 IZI 25.54 281 iP 06 50.40 0.4
 YLV 25.57 282 iP 06 50.90 0.6
 HYB 26.37 145 eP 06 58.50 0.7
 1.0s 40.00nm 5.0mb
 VRI 26.99 294 iPd 07 04.50 1.3
 MLR 27.55 293 iPd 07 10.00 1.5
 SHL 28.12 112 iP 07 13.20 -0.6
 GTA 28.13 80 eP 07 13.50 -0.2
 1.0s 9.00nm 4.4mb

pP 07 24.00 39km
 CMP 28.20 293 ePd 07 16.00 1.8
 VAY 30.49 285 eP 07 34.80 0.1
 BZS 30.57 294 eP 07 34.00 -1.3
 KAF 31.13 327 iP 07 39.00 -1.1
 0.7s 12.50nm 4.8mb
 NUR 31.16 324 eP 07 39.30 -1.1
 SKO 31.20 287 eP 07 40.70 -0.2
 SPC 31.37 301 iP 07 43.30 0.8
 BEO 31.47 293 eP 07 43.50 0.3
 KRA 31.58 303 eP 07 43.20 -0.9
 0.8s 58.00nm 5.5mb
 LZH 32.14 84 eP 07 49.00 -0.4
 1.0s 18.00nm 4.9mb

ZST 33.48 299 eP 08 00.50 -0.2
 SOD 33.77 336 eP 07 59.00 -4.0X
 KSP 33.92 304 iPd 08 04.10 -0.4
 0.8s 30.00nm 5.3mb
 e 09 15.50 375kmX
 CD2 34.14 93 P 08 07.10 0.4
 UPP 34.28 320 iP 08 05.70 -1.8
 BSD 34.93 312 eP 08 11.10 -2.0
 PRU 35.06 303 P 08 14.60 0.3
 0.9s 16.40nm 5.0mb
 BRG 35.40 304 iPd 08 17.00 -0.2
 1.1s 45.00nm 5.3mb
 e 08 49.00 144kmX

BTO 35.44 74 eP 08 19.40 1.7
 GEC2 35.68 301 ePd 08 18.20 -1.6
 0.7s 6.05nm 4.7mb
 KHC 35.74 301 iPd 08 20.80 0.6
 1.0s 14.00nm 4.8mb
 e 08 33.00 45km
 CZI 35.78 284 P 08 20.60 0.1
 CLL 35.98 305 iPd 08 21.70 -0.4
 0.9s 38.00nm 5.3mb

WET 36.20 301 iPd 08 25.10 1.1
 1.0s 13.00nm 4.8mb
 HFS 36.27 320 eP 08 23.20 -1.2
 0.8s 47.10nm 5.5mb
 Z 17s 0.58um 4.4MsZ

BHG 36.35 299 iPd 08 25.60 0.4
 LR 22 15.00
 1.1s 46.00nm 5.3mb
 HHC 36.50 73 eP 08 28.20 1.4
 FVI 36.57 297 P 08 26.30 -0.7
 MOX 36.89 304 iPd 08 30.00 0.2
 1.3s 23.00nm 4.9mb
 e 09 03.00 148kmX
 GRF 37.23 302 iPd 08 33.70 1.1
 1.2s 73.00nm 5.4mb
 WTTA 37.24 298 iPd 08 32.30 -0.7
 0.9s 24.60nm 5.1mb
 i 08 41.20 30km

ASS 37.32 291 P 08 33.90 0.4
 FUR 37.36 300 eP 08 34.20 0.4
 0.8s 33.00nm 5.3mb
 CHG 37.45 114 eP 08 36.00 1.2
 NB2 37.63 321 P 08 34.60 -1.3
 0.8s 25.10nm 5.2mb
 OGA 37.72 298 iPd 08 36.50 -0.5
 0.7s 10.00nm 4.8mb
 PGD 37.80 293 P 08 38.50 0.8
 TIY 38.09 77 eP 08 40.80 0.8

Z 11s 0.99um 4.9MsZ
 GYA 38.55 97 P 08 44.20 0.1
 BDT 38.56 116 eP 08 44.00 -0.1
 0.7s 25.70nm 5.2mb
 WTS 39.79 307 ePd 08 54.00 0.1
 0.8s 25.00nm 5.0mb
 WIT 39.80 308 eP 08 55.00 1.0
 CDF 39.97 301 eP 08 55.30 -0.3
 0.8s 8.05nm 4.6mb
 BSF 40.39 300 iPd 08 58.90 -0.2
 0.8s 30.90nm 5.1mb

MEM 40.45 305 P 09 00.00 0.6
 ENN 40.48 305 eP 09 00.00 0.4
 0.8s 3.00nm 4.1mb
 WLF 40.50 303 iPd 09 00.81 1.1
 HAU 40.65 300 eP 09 00.90 -0.2
 0.8s 10.75nm 4.6mb
 Z 20s 0.08um 3.5MsZ
 SBF 40.82 294 iPd 09 03.00 0.4
 0.8s 34.90nm 5.1mb
 LPG 40.90 297 iPd 09 03.50 0.0
 0.8s 22.85nm 5.0mb

LPL 40.91 297 iPd 09 03.40 -0.1
 0.8s 26.20nm 5.0mb
 RSL 40.94 297 P 09 03.93 0.2
 BNI 41.05 296 P 09 04.20 -0.4
 DOU 41.42 304 Pd 09 08.00 0.6
 0.7s 7.80nm 4.5mb
 FRF 41.45 294 iPd 09 07.80 0.1
 0.8s 26.85nm 5.0mb
 LBF 42.43 299 iPd 09 15.60 -0.2
 0.8s 13.45nm 4.7mb
 LOR 42.45 300 iPd 09 15.60 -0.3
 1.0s 19.00nm 4.8mb
 Z 20s 0.10um 3.7MsZ

SMF 42.60 299 iPd 09 17.10 0.0
 0.9s 29.50nm 5.0mb
 SSF 42.73 300 eP 09 18.00 -0.1
 0.8s 10.75nm 4.6mb
 AVF 42.89 299 iPd 09 19.50 0.0
 0.8s 28.20nm 5.0mb
 PLDF 42.91 298 P 09 23.80 4.1X
 COLF 42.98 297 P 09 20.65 0.4
 BGF 43.29 299 iPd 09 22.70 0.0
 1.0s 20.00nm 4.8mb

LBL 43.36 297 P 09 20.66 -2.7
 PYM 43.38 298 P 09 24.00 0.4
 MAF 43.56 299 iPd 09 25.40 0.5
 1.0s 36.00nm 5.1mb
 TCF 43.78 299 iPd 09 27.30 0.6
 0.9s 34.40nm 5.1mb
 CAF 44.25 297 iPd 09 31.10 0.6
 1.2s 29.75nm 5.0mb
 LSF 44.25 299 iPd 09 30.30 -0.2
 0.8s 16.10nm 4.9mb
 RJF 44.51 298 iPd 09 33.30 0.7
 1.2s 29.75nm 5.0mb
 Z 20s 0.08um 3.6MsZ

LDF 44.75 303 iPd 09 34.00 -0.4
 1.2s 41.65nm 5.2mb
 LPO 44.91 297 iPd 09 36.10 0.2
 1.0s 24.00nm 5.0mb
 FLN 44.94 303 iPd 09 35.40 -0.6
 1.0s 34.00nm 5.2mb

27d 07h

Z	20s	0.15um	3.9msz
LFF	45.14 297 iPc	09 38.10	0.4
	0.8s 26.85nm		5.2mb
GRR	45.27 303 iPc	09 38.00	-0.6
	1.0s 28.00nm		5.1mb
MFF	45.27 300 eP	09 38.20	-0.4
	1.0s 24.00nm		5.0mb
LPF	45.48 302 eP	09 39.50	-0.8
	1.0s 12.00nm		4.8mb
DAG	49.41 343 eP	10 10.00	-0.6
TOL	50.21 293 iPc	10 17.00	-0.3
	1.2s 39.06nm		5.3mb
MAT	57.37 68 (P)	11 08.00	-2.0
LSZ	64.01 218 iPd	11 55.50	0.2
LKO	67.60 263 Pc	12 16.92	-1.5
	1.0s 15.50nm		5.0mb
KIC	68.99 260 Pc	12 26.00	-1.0
	0.8s 10.50nm		4.9mb
TIC	69.02 261 P	12 26.06	-1.1
LIC	69.30 260 Pc	12 27.70	-1.2
	0.7s 7.00nm		4.8mb
INK	71.10 6 eP	12 39.00	0.0
FBA	72.48 13 iP	12 47.90	0.5
	1.0s 7.50nm		4.6mb
PMR	75.25 15 eP	13 03.10	-0.3
	1.1s 12.50nm		4.8mb
WIN	75.70 22 iPc	13 08.00	1.3
	1.0s 20.00nm		5.0mb
SLKM	76.01 16 eP	13 08.00	0.2
BALM	77.01 12 eP	13 12.50	-1.0
YKA	77.64 359 eP	13 15.90	-0.8
	0.9s 10.20nm		4.9mb
HVD	78.59 212 eP	13 23.00	0.5
FFC	84.58 351 ePc	13 53.70	0.2
	1.1s 22.00nm		5.2mb
BNH	86.13 329 eP	14 02.90	1.5
WR2	89.26 117 iPd	14 16.70	0.0
	0.7s 11.70nm		5.3mb
SES	89.64 356 ePc	14 19.00	0.8
PNT	90.84 2 eP	14 25.00	1.3
ASPA	91.50 120 iPc	14 27.30	0.3
	0.8s 12.00nm		5.4mb
NEW	91.92 0 eP	14 30.10	1.4
	1.1s 4.63nm		4.8mb
S.D. = 0.9 on 120 of 130 obs.			

? OCT 27, 1991 07h 32m 08.32±1.35s
14.613 N ± 8.0km 60.893 W ± 12.8km
DEPTH = 10.0km (geophysicist)
WINDWARD ISLANDS (95)
ML 2.0 (FDF).

MVM	0.06 183 eP	32 10.50	-0.1
	S	32 15.00	
CRM	0.14 351 eP	32 11.70	0.1
	S	32 16.60	
BIM	0.20 241 eP	32 12.80	0.1
	S	32 19.40	
FDF	0.28 296 iPd	32 14.03	-0.1
	S	32 21.50	
S.D. = 0.2 on 4 of 4 obs.			

% OCT 27, 1991 07h 55m 39.01±3.25s
41.183 N ± 19.3km 23.883 E ± 16.5km
DEPTH = 10.0km (geophysicist)
GREECE-BULGARIA BORDER REGION (363)
MD 2.3 (THE).

SRS	0.23 253 ePg	55 44.60	0.7
	eSg	55 48.24	
SOH	0.54 228 ePg	55 49.68	-0.3
	eSg	55 56.48	
KNT	0.74 269 ePg	55 53.41	-0.2
	eSg	56 03.52	
OUR	0.85 175 ePg	55 55.50	0.1
	eSg	56 06.08	
THE	0.89 232 ePg	55 56.08	0.1
	eSg	56 07.72	
GRG	1.14 259 ePg	56 00.12	-0.3
	eSg	56 16.40	
PAIG	1.26 187 ePb	56 02.40	-0.1
	eSb	56 18.96	
S.D. = 0.4 on 7 of 7 obs.			

? OCT 27, 1991 08h 10m 04.41±9.38s
43.437 N ± 62.0km 7.768 E ± 15.2km
DEPTH = 10.0km (geophysicist)

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

IMI	0.48 11 P	10 14.30	0.1
	S	10 18.10	
ENR	0.83 342 P	10 20.45	0.0
	S	10 28.35	
FIN	0.84 22 P	10 20.66	0.1
	S	10 28.76	
ROB	0.86 5 P	10 20.76	-0.3
	S	10 29.07	
STV	0.87 338 P	10 21.27	0.1
	S	10 29.79	
PZZ	1.17 336 P	10 26.40	0.0
S.D. = 0.2 on 6 of 6 obs.			

% OCT 27, 1991 08h 56m 36.20±0.54s
40.160 N ± 5.8km 28.045 E ± 5.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

BNT	0.22 334 iPg	56 40.40	-0.5
EDC	0.23 324 iPg	56 40.50	-0.7
	eSg	56 44.00	
DST	0.71 141 iPg	56 49.90	-0.4
	eSg	57 00.90	
YLV	1.09 68 ePn	56 56.90	0.1
IZI	1.11 80 iPn	56 56.90	-0.1
EZN	1.36 256 iPn	57 01.50	0.3
DMK	1.67 353 iPn	57 06.80	1.1
ALN	1.69 296 eP	57 06.00	0.1
	eS	57 30.20	
KHL	2.16 147 ePn	57 13.00	0.1
S.D. = 0.6 on 9 of 9 obs.			

OCT 27, 1991 09h 05m 04.23±0.64s
18.696 S ± 5.1km 177.855 W ± 6.8km
DEPTH = 432.2 ± 6.6 km
4.8mb (24 obs.)

FIJI ISLANDS REGION (181)

SVA	3.55 279 ePc	06 14.70	-0.2
	eS	07 13.20	
VUN	3.56 281 iP	06 15.10	0.0
MBU	3.68 297 eP	06 16.10	-0.1
SGE	4.16 285 eP	06 21.90	1.4
NDF	4.56 281 eP	06 16.20	-7.9X
WCZ	18.51 200 eP	08 56.60	4.0X
KUZ	18.85 196 eP	08 58.10	2.2
HBZ	19.13 189 eP	09 00.40	1.8
URZ	19.98 192 P	09 06.20	-0.6
NOZ	20.17 189 eP	09 09.70	1.0
MOZ	20.75 196 eP	09 16.40	2.2
RUZ	21.20 195 eP	09 18.90	0.4
MNG	22.59 193 eP	09 29.40	-2.0
MRW	23.35 194 P	09 37.20	-1.1
THZ	24.31 197 eP	09 46.40	-0.7
KHZ	24.75 195 eP	09 49.60	-1.3
MQZ	26.19 196 eP	10 02.50	-1.3
EWZ	26.51 199 eP	10 06.30	-0.4
BWZ	27.73 199 eP	10 15.50	-1.9
BRS	28.32 247 iPc	10 23.20	0.3
	0.9s 9.00nm		4.2mb
LSCZ	28.41 199 eP	10 22.10	-1.4
TUZ	29.09 198 eP	10 29.20	-0.1
ARMA	30.01 241 iPd	10 39.10	1.4
	0.6s 28.00nm		4.8mb
RMO	31.72 250 iPd	10 53.20	0.9
	0.5s 22.00nm		4.8mb
CTAO	33.84 262 iPc	11 10.00	-0.3
	1.0s 50.00nm		4.9mb
CMS	35.11 242 iPc	11 21.70	0.9
	0.8s 44.00nm		4.9mb
PMG	35.12 280 eP	11 20.00	-1.0
QLP	35.76 250 iPc	11 26.80	0.5
	0.7s 118.00nm		5.4mb
LAT	36.24 285 eP	11 31.40	1.1
BFD	39.19 234 iPc	11 52.40	-2.0
OIS	40.03 260 iPd	12 00.90	-0.6
ADE	41.66 238 iPc	12 15.30	0.7
JAY	43.63 287 iP	12 24.00	-6.4X
WR2	44.99 260 iPd	12 39.70	-1.3
	0.4s 22.10nm		4.9mb
ASPA	45.09 255 iPc	12 41.40	-0.4
	0.7s 142.20nm		5.5mb
	iScP	17 26.20	

GUA	48.71 308 eP	13 08.70	-0.8
	0.6s 186.67nm		5.7mb
GUMO	48.78 308 eP	13 09.00	-1.0
	1.1s *****nm		7.6mb X
	e	13 12.40	
	e	13 12.50	
	e	13 21.20	
PJG	48.78 308 eP	13 09.60	-0.4
MTN	49.31 269 eP	13 13.00	-1.1
KNA	50.92 265 eP	13 25.30	-0.7
COOL	56.10 245 eP	14 02.30	-0.8
	0.3s 10.00nm		4.6mb
MBL	58.30 256 eP	14 17.30	-1.1
	0.2s 6.00nm		4.7mb
KLB	58.95 244 iPc	14 22.40	-0.3
	0.4s 14.00nm		4.7mb
BAL	59.93 245 eP	14 28.70	-0.6
MUN	60.24 243 eP	14 31.60	0.3
MRWA	60.67 246 iPd	14 34.00	-0.2
	0.5s 6.00nm		4.3mb
MAT	68.85 323 iPd	15 24.40	-1.3
SPA	71.42 180 iPc	15 41.60	0.8
	1.0s 110.00nm		5.4mb
PAS	77.36 47 eP	16 14.00	-0.5
SBB	77.90 47 eP	16 17.00	-0.5
ORV	78.23 41 eP	16 18.90	-0.2
CLC	78.66 46 eP	16 22.00	0.5
CWC	78.68 45 eP	16 21.00	-0.7
GSC	78.93 47 eP	16 23.00	0.0
GLA	79.16 50 eP	16 25.00	0.8
CN2	80.96 322 Pc	16 34.00	0.7
	1.4s 52.00nm		5.0mb
WHN	81.49 306 eP	16 38.00	1.7
PMR	83.24 13 P	16 42.80	-1.6
	1.0s 23.00nm		4.9mb
MAW	83.30 200 eP	16 47.00	2.2
BALM	84.42 17 eP	16 49.60	-0.9
BJI	84.71 315 eP	16 53.00	0.8
	1.5s 55.00nm		5.1mb
PNT	85.09 34 ePd	16 54.00	0.1
	0.7s 18.00nm		4.9mb
NEW	85.84 36 eP	16 56.90	-0.7
	0.9s 3.95nm		4.2mb
ALQ	86.17 51 eP	17 00.00	0.3
	1.0s 6.00nm		4.3mb
	epP	18 35.00	415kmX
ANMO	86.17 51 eP	17 00.30	0.6
	1.0s 4.50nm		4.2mb
TIY	86.18 312 eP	17 01.20	1.7
FBA	86.46 12 iP	16 58.60	-1.6
	1.0s 3.20nm		4.0mb
XAN	87.15 307 P	17 06.30	2.1
	1.0s 18.00nm		4.8mb
BGMT	87.19 40 ePd	17 04.50	0.1
BW06	87.57 43 eP	17 05.20	-1.1
	0.9s 5.93nm		4.4mb
HHC	88.20 314 eP	17 10.20	1.1
SES	90.34 36 ePd	17 18.50	-0.1
MEO	92.04 54 iPc	17 27.00	0.2
INK	92.50 15 ePd	17 26.30	-1.9
KRA	145.62 340 ePKP	23 54.60	1.3
KSP	146.01 344 iPKPd	23 55.40	1.5
	1.0s 25.00nm		
	e	25 39.60	
CLL	146.34 348 iPKP	23 55.90	1.5
	1.0s 22.00nm		
BRG	146.55 346 iPKP	23 56.70	1.9X
	1.1s 18.00nm		
WTS	146.57 355 ePKP	23 57.00	2.3X
	1.0s 13.00nm		
PRU	147.24 345 PKP	23 59.00	3.1X
	e	25 43.10	
ENN	147.86 355 ePKP	24 00.00	3.1X
	0.7s 3.00nm		
ZST	148.16 341 ePKP	24 01.30	3.9X
GRF	148.23 349 e(PKP)	23 59.10	1.6
	e	24 05.70	
KHC	148.27 346 ePKP	24 01.50	3.8X
	e	24 05.80	
	e	25 44.50	
GEC2	148.50 345 ePKPc	24 01.60	3.5X
	0.5s 2.07nm		
	e	24 02.80	
	ed	24 03.60	
FLN	149.93 3 ePKP	24 05.00	4.9X

1.0s 16.00nm
 CDF 150.07 353 ePKP 24 05.80 5.3X
 0.6s 3.60nm
 LDF 150.12 3 ePKP 24 05.40 5.0X
 1.0s 10.00nm
 WTTA 150.46 347 iPKPd 24 06.70 5.5X
 i 24 29.10
 HAU 150.57 354 ePKP 24 06.70 5.5X
 0.8s 5.35nm
 LPF 150.62 4 ePKP 24 06.90 5.7X
 1.0s 16.00nm
 BSF 150.69 354 ePKP 24 07.00 5.5X
 LOR 151.47 358 ePKP 24 09.10 6.6X
 0.8s 5.35nm
 SSF 151.69 358 ePKP 24 09.70 6.9X
 0.8s 4.70nm
 LBF 151.75 357 ePKP 24 09.70 6.7X
 0.8s 2.70nm
 AVF 151.96 358 ePKP 24 09.90 6.7X
 0.8s 3.35nm
 LSF 152.52 1 ePKP 24 11.00 7.0X
 0.8s 4.05nm

S.D. = 1.1 on 75 of 97 obs.

OCT 27, 1991 10h 22m 46.55± 0.14s
 5.198 S ± 3.3km 152.691 E ± 3.9km
 DEPTH = 64.0km (5 depth phases)
 5.5mb (50 obs.)
 NEW BRITAIN REGION, P.N.G. (192)
 Felt (IV) at Rabaul.
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 24S, 52C
 Centroid Location:
 Origin Time 10:22:48.1 0.2
 Lat 5.37S 0.02 Lon 152.92E 0.03
 Dep 65.0 FLX Half-duration 3.0
 Moment Tensor: Scale 10¹⁷ Nm
 Mrr= 2.81 0.08 Mtt=-3.11 0.15
 Mff= 0.30 0.14 Mrt= 2.45 0.11
 Mrf= 0.12 0.11 Mtf=-1.19 0.10
 Principal Axes:
 T Val= 3.72 Plg=69 Azm= 14
 N 0.57 10 258
 P -4.28 19 165
 Best Double Couple: Mo=4.0*10¹⁷
 NP1: Strike=239 Dip=28 Slip= 69
 NP2: 83 64 101

LAT 5.84 255 eP 24 12.90 0.2
 eS 24 35.00
 MDG 6.88 269 eP 24 32.30 5.2X
 PMG 6.90 232 eP 24 25.00 -2.4
 eS 25 45.00
 MNDI 9.04 264 eP 25 03.50 6.4X
 JAY 12.25 282 ePc 25 42.50 2.1
 CTAO 16.07 202 iPc- 26 29.50 -0.5
 2.0s 535.71nm 5.3mb
 i 26 32.50
 iP 26 41.50
 iS 29 30.00
 OIS 19.87 219 iPd 27 14.00 -1.3
 0.9s 98.00nm 5.1mb
 i 27 25.40 51kmX
 i 27 33.00
 GUA 20.15 338 eP 27 19.00 0.7
 0.8s 895.52nm 6.1mb
 e 27 22.30 12kmX
 GUMO 20.22 337 eP 27 19.00 0.0
 0.9s *****nm 8.0mb X
 PJG 20.22 337 eP 27 19.30 0.3
 DZM 21.41 143 iPd 27 29.10 -2.1
 iS 31 28.10
 SLKI 21.43 261 iPc 27 30.60 -0.7
 RMO 21.50 190 iPd 27 31.00 -1.0
 1.1s 293.00nm 5.6mb
 BRS 22.07 180 iPc 27 35.40 -2.3
 1.1s 20.00nm 4.5mb X
 i(sP) 28 09.20
 i(S) 31 36.00
 MTN 22.59 249 eP 27 42.00 -0.8
 0.6s 157.00nm 5.6mb
 e 31 47.00
 OLP 22.75 200 eP 27 44.00 -0.3
 i 28 22.00 202kmX
 WR2 23.09 229 iPd 27 47.70 0.1
 1.1s 17.20nm 4.4mb X

ARMA 25.11 182 eP 28 06.70 -0.4
 1.3s 105.00nm 5.2mb
 ePP 28 48.00
 KNA 25.72 244 eP 28 13.00 0.2
 0.6s 108.00nm 5.5mb
 ASPA 25.79 223 iPd 28 12.80 -0.6
 0.9s 65.40nm 5.1mb
 Z 22s 7.30um 5.2MsZ
 i 28 24.50 46kmX
 eS 32 42.50
 iScS 39 10.00
 CMS 26.93 193 eP 28 22.00 -1.8
 1.2s 107.00nm 5.3mb
 MNI 28.59 283 ePc 28 40.00 1.0
 ADE 32.32 202 eP 29 11.00 -0.8
 WARB 32.49 227 eP 29 13.00 -0.3
 0.5s 19.00nm 5.2mb
 BFD 33.15 195 iPc 29 14.80 -4.1X
 i 29 24.50 33kmX
 MBL 35.59 240 eP 29 37.00 -3.1X
 KKM 38.09 287 ePd 30 01.00 -0.3
 KAGJ 41.74 331 P 30 31.40 0.3
 KLB 41.95 227 eP 30 32.30 -0.6
 MRWA 42.12 231 iPd 30 34.00 -0.2
 0.8s 21.00nm 5.0mb
 WKYJ 42.40 339 P 30 34.80 -1.7
 TKSJ 42.77 337 eP 30 38.40 -1.1
 KAKJ 42.82 345 P 30 38.60 -1.2
 KUMJ 42.90 332 eP 30 40.40 -0.1
 KUMJ 42.90 332 eP 30 40.50 0.0
 CHJJ 42.99 344 P 30 39.30 -2.0
 NWAJ 43.03 226 eP 30 41.00 -0.7
 Z 20s 54.40um 6.4MsZ
 N 20s 4.50um
 E 20s 6.30um
 eS 37 16.00
 TSRIJ 43.45 340 P 30 43.30 -1.7
 MAT 43.68 343 iP 30 44.10 -2.7
 eS 37 14.00
 SHK 43.80 336 ePc 30 46.70 -1.1
 MTMJ 43.84 343 eP 30 45.90 -2.3
 MTMJ 43.84 343 P 30 46.40 -1.8
 YONJ 44.06 337 P 30 49.00 -0.9
 NIJJ 44.11 344 P 30 48.80 -1.5
 SHNJ 44.11 334 eP 30 49.20 -1.1
 SHNJ 44.11 334 iP+ 30 49.50 -0.8
 OZH 44.69 314 Pc 30 56.90 1.8
 0.9s 130.00nm 5.7mb
 YAMJ 44.72 346 P 30 54.20 -1.0
 OFUJ 45.22 348 P 30 58.20 -0.9
 ADMJ 46.92 347 P 31 12.50 0.0
 SSE 46.99 322 P 31 14.50 1.3
 1.0s 41.00nm 5.3mb
 Z 20s 4.10um 5.4MsZ
 pP 31 30.50 62km
 GZH 47.61 308 iPd 31 20.50 2.2
 Z 20s 6.23um 5.6MsZ
 HOJ 48.12 351 eP 31 18.60 -3.3X
 MRRJ 48.56 349 eP 31 24.40 -0.9
 OIZ 48.58 301 iPd 31 27.20 1.4
 KUSJ 48.61 352 eP 31 23.60 -2.1
 NJ2 49.08 321 Pc 31 30.00 0.5
 0.8s 25.00nm 5.3mb
 Z 19s 2.89um 5.3MsZ
 KGM 49.84 277 ePd 31 35.80 0.2
 ASAJ 49.92 351 P 31 35.40 -0.3
 WHN 51.07 317 Pc 31 45.00 0.4
 1.0s 47.00nm 5.5mb
 Z 22s 5.19um 5.5MsZ
 DL2 52.46 329 P 31 55.00 0.0
 Z 22s 1.22um 4.9MsZ
 IPM 52.51 280 ePc 31 54.20 -1.7
 1.0s 37.40nm 5.4mb
 TIA 52.97 324 Pc 31 58.10 -0.8
 Z 30s 1.96um 5.0MsZ X
 MDJ 53.75 340 iPc 32 03.50 -1.0
 1.0s 110.00nm 5.8mb
 Z 28s 1.66um 4.9MsZ X
 SNY 53.81 333 eP 32 03.80 -1.1
 1.0s 21.00nm 5.1mb
 Z 20s 3.23um 5.4MsZ
 GYA 54.55 308 iPc 32 11.20 0.4
 1.0s 40.00nm 5.4mb
 Z 22s 3.87um 5.4MsZ
 pP 32 28.00 64km
 CN2 54.61 336 P 32 09.60 -1.2

0.8s 39.00nm 5.5mb
 Z 16s 4.46um 5.6MsZ X
 NNT 55.51 289 eP 32 17.00 -0.8
 NST 56.01 293 eP 32 25.50 4.2X
 BJI 56.16 327 eP 32 21.00 -1.0
 1.5s 59.00nm 5.4mb
 Z 24s 2.88um 5.3MsZ X
 TIY 56.77 322 eP 32 26.00 -0.6
 1.2s 42.00nm 5.4mb
 Z 20s 3.88um 5.5MsZ
 XAN 56.83 317 iPc 32 26.40 -0.7
 0.7s 83.00nm 5.9mb
 pP 32 51.70 103kmX
 KMI 57.12 304 Pc 32 24.50 -4.9X
 1.5s 180.00nm 5.9mb
 Z 22s 3.20um 5.4MsZ
 BDT 57.51 294 eP 32 31.60 -0.4
 1.0s 34.50nm 5.4mb
 PPN 57.84 107 iP 32 33.10 -1.2
 1.0s 30.00nm 5.4mb
 CHTO 58.06 296 iP 32 36.10 0.3
 1.0s 63.75nm 5.7mb
 CD2 58.91 311 Pc 32 41.00 -0.7
 Z 20s 13.20um 6.1MsZ
 PMO 59.14 104 iP 32 42.40 -1.0
 1.0s 60.00nm 5.7mb
 HHC 59.31 325 eP 32 43.90 -0.4
 1.0s 84.00nm 5.8mb
 Z 11s 3.44um 5.7MsZ X
 TPT 59.41 104 iP 32 44.20 -1.0
 1.0s 55.00nm 5.6mb
 VAH 59.41 105 iP 32 44.00 -1.2
 1.0s 40.00nm 5.5mb
 RUV 59.65 104 iP 32 45.60 -1.2
 1.0s 55.00nm 5.6mb
 BTO 60.05 323 P 32 49.00 -0.4
 LZH 61.44 316 iPc 32 59.00 0.0
 1.5s 210.00nm 6.0mb
 Z 22s 2.55um 5.3MsZ
 N 10s 0.87um
 PcP 33 34.00
 DRV 61.99 186 eP 33 17.20 15.2X
 SP 41 27.00
 ADK 62.57 21 eP 33 05.10 -0.9
 1.0s 2.20nm 4.2mb X
 GTA 65.87 317 iPc 33 28.80 0.9
 0.8s 100.00nm 5.8mb
 Z 20s 3.02um 5.5MsZ
 E 15s 3.83um
 pP 33 46.10 64km
 sS 42 49.00
 SHL 66.41 301 iP 33 31.50 -0.2
 eS 42 17.50
 LSA 68.37 305 Pd 33 45.00 0.7
 GUN 72.23 301 P 34 08.00 0.3
 PKI 72.54 301 P 34 09.00 -0.5
 KKN 72.71 301 P 34 10.40 0.1
 DMN 72.81 301 P 34 11.20 0.2
 GKN 73.32 301 P 34 13.80 0.0
 WMO 75.96 317 iPc 34 29.10 0.6
 2.0s 100.00nm 5.4mb
 Z 22s 4.47um 5.7MsZ
 PcP 34 40.50
 PP 37 26.50
 HYB 76.52 289 ePc 34 32.00 -0.1
 1.0s 50.00nm 5.4mb
 SVW 77.22 23 P 34 35.60 0.4
 SLKM 79.07 25 P 34 44.90 -0.4
 NDI 79.83 300 iPc 34 49.30 -0.7
 1.0s 180.00nm 6.0mb
 PMR 80.09 24 P 34 50.40 -0.3
 0.9s 85.83nm 5.7mb
 POO 81.12 290 iPc 34 55.40 -1.6
 FBA 82.29 22 P 35 01.30 -0.9
 0.8s 71.38nm 5.7mb
 pP 35 18.90 63km
 BALM 82.73 26 P 35 04.80 0.1
 pP 35 23.00 66km
 MAW 85.16 203 eP 35 18.00 1.3
 1.0s 77.00nm 5.7mb
 INK 88.86 21 iPc 35 34.10 -0.5
 1.1s 85.00nm 5.9mb
 OUE 88.91 300 iPc 35 36.80 0.9
 0.9s 77.73nm 6.0mb
 ePP 35 44.10
 eS 46 09.20
 CMB 90.75 52 P 35 44.50 0.4

27d 10h

PNT	1.0s	8.50nm	5.0mb		LIT	1.1s	74.00nm		FLN	130.96	337	ePKP	41	53.30	0.8	
	92.40	41 eP	35 51.00	-0.4		123.42	315 ePKP	41 38.00	-0.4		1.0s	36.00nm				
	0.7s	6.00nm	5.1mb		PCH	123.79	137 ePKP	41 40.00	0.6	Z 20s	1.25um			5.6msz		
PLM	93.20	57 P	35 55.50	-0.2	PEL	123.94	136 ePKP	41 40.00	0.3	BGF	131.25	333	ePKP	41	53.90	0.7
NEW	93.97	42 P	35 58.10	-0.6	AGG	123.98	314 ePKP	41 39.00	-0.5		1.0s	32.00nm				
	0.9s	26.75nm	5.7mb		OHR	124.16	317 iPKP	41 40.00	0.1	PLDF	131.33	331	PKP	41	55.82	2.4X
MAIO	95.62	306 eP	36 07.00	0.4		1.1s	111.00nm			GRR	131.41	337	ePKP	41	54.40	1.0
YKA	95.83	28 eP	36 07.10	0.2	KHC	124.22	329 iPKPc	41 40.40	0.7		1.0s	20.00nm				
	1.0s	12.50nm	5.4mb			1.0s	17.90nm			AGO	131.50	332	PKP	41	56.04	2.3X
BGMT	97.37	45 eP	36 14.40	-0.1	Z 22s	1.20um		5.5msz	MAF	131.63	332	ePKP	41	54.90	1.0	
SES	97.97	40 eP	36 17.00	0.1	N 22s	0.10um				1.0s	18.00nm					
BW06	99.20	48 P	36 21.80	-1.0	E 22s	1.10um			TCF	131.75	333	ePKP	41	55.20	1.0	
	1.0s	3.50nm	4.9mb			e	41 47.00				0.9s	39.30nm				
ALO	101.85	56 ePdiff	36 35.00	0.1		e	53 36.00		LPF	131.77	337	ePKP	41	55.10	1.0	
Z 18s	1.20um		5.5msz		MOX	124.24	331 iPKPd	41 40.80	1.1		1.0s	44.00nm				
	e	40 38.00				1.5s	31.00nm			PYM	131.78	332	PKP	41	56.79	2.5X
ANMO	101.85	56 Pdiff	36 36.00	1.1		e	43 26.00		LBL	132.04	331	PKP	41	57.61	2.8X	
	1.0s	2.75nm	4.9mb		GEC2	124.33	328 ePKPc	41 38.90	-1.1	LSF	132.08	333	ePKP	41	55.70	0.9
GOL	102.49	51 Pdiff	36 38.00	0.3		0.7s	12.68nm				1.0s	22.00nm				
	0.8s	1.93nm	4.9mb		WET	124.57	329 iPKPd	41 41.50	1.2	MFF	132.54	335	ePKP	41	56.50	0.9
SOD	108.05	341 iPdiff	37 01.00	-0.5	WIT	124.95	336 ePKP	41 43.00	2.2		1.2s	35.70nm				
OBN	108.99	327 iPdiff	37 05.50	-0.4	GRF	125.06	330 iPKPc	41 42.00	0.8	LPO	133.43	332	ePKP	41	58.90	1.5
	1.0s	24.00nm	6.4mb		Z 19s	1.30um		5.6msz			1.0s	24.00nm				
Z 24s	1.90um		5.6msz		VBV	125.44	324 ePKP	41 42.50	0.4	LPB	134.25	119	PKP	42	02.00	1.7
N 22s	1.00um				BHG	125.46	328 iPKPd	41 42.80	0.7	ZOBO	134.34	119	PKP	41	49.00	-11.6X
E 22s	1.30um					1.2s	50.00nm				1.0s	23.75nm				
	e	39 31.00			WTS	125.49	335 ePKP	41 43.00	1.1		i	42 01.00				
	e	41 11.00				1.0s	26.00nm			SDV	136.87	83	ePKP	41	54.60	-10.4X
	e	41 30.00				e	41 47.50			TOV	137.66	81	e(PKP)	42	07.30	0.9
	e	42 27.00			LJU	125.55	325 ePKP	41 43.00	0.7	ETOR	137.92	331	ePKP	41	53.50	-12.7X
	e	51 04.00			CEY	125.78	325 e(PKP)	41 45.00	2.2	ECHE	138.31	329	iPKPc	42	07.00	0.1
KAF	110.93	336 iPdiff	37 12.90	-1.5	VOY	125.92	325 ePKP	41 43.80	0.6	TOL	139.60	332	ePKP	42	10.00	0.9
	0.7s	6.10nm			BNS	126.08	334 iPKPd	41 44.40	1.2		ePP	45 48.00				
KAF	110.93	336 iPKP	41 14.20	0.4		0.8s	24.00nm			EVIA	139.81	329	iPKPc	42	01.00	-8.7X
	0.7s	4.80nm			Z 17s	0.70um		5.4msz	EALH	139.84	328	iPKPc	42	01.50	-8.1X	
NUR	112.45	335 ePdiff	37 20.30	-0.9	EKA	126.38	343 PKP	41 45.00	1.4	EHUE	140.49	329	iPKPc	42	05.00	-5.9X
NUR	112.45	335 ePKP	41 17.00	0.3		0.9s	12.30nm			MTE	140.70	336	ePKP	42	07.50	-3.6X
HRI	115.30	304 ePKP	41 24.80	1.6	WTTA	126.40	328 ePKP	41 44.00	-0.2		i	42 15.50				
PRNI	116.45	301 ePKP	41 25.80	0.4		0.9s	54.00nm			EBAN	140.82	330	iPKPc	42	04.70	-6.7X
MBH	116.65	301 ePKP	41 26.90	1.0		id	41 44.80			ECOG	141.40	329	iPKPd	42	06.20	-6.4X
HFS	117.01	338 ePdiff	37 40.60	-0.9		i	41 47.30			AFC	141.40	329	iPKPd	42	05.00	-7.6X
	0.6s	0.90nm			ENN	126.77	334 ePKPc	41 45.00	0.5	EGUA	141.73	329	iPKPc	42	06.00	-7.1X
HFS	117.01	338 ePKP	41 24.70	-0.8		1.0s	52.00nm			EHOR	141.80	331	iPKPd	42	08.50	-4.6X
	0.8s	4.40nm				e	41 50.00			EPRU	142.47	330	iPKPd	42	10.70	-3.7X
Z 17s	0.76um		5.4msz		MEM	126.84	334 iPKPc	41 45.65	1.0	EVAL	142.70	333	iPKPd	42	12.50	-2.2
	LR	23 27.00			OGA	126.98	328 ePKP	41 46.40	1.1	EJIF	143.00	330	iPKPc	42	11.00	-4.2X
NB2	117.25	340 Pdiff	37 42.60	0.0	UCC	127.41	335 PKP	41 47.60	1.9	FIG	143.59	333	ePKP	42	17.50	1.3
	0.7s	2.40nm			WLF	127.47	333 iPKPd	41 47.56	1.7	PPD	144.16	140	ePKP	42	16.20	-1.4
NB2	117.25	340 PKP	41 25.70	-0.3	ORI	127.57	318 PKP	41 47.50	1.1		e	42 29.00				
	1.0s	6.70nm			SNF	127.65	335 iPKPc	41 47.05	0.9		e	42 39.20				
MTD	117.85	248 iPKPd	41 29.80	1.3	ROI	127.73	317 PKP	41 46.80	0.0	IFR	145.08	327	iPKPc	42	20.00	0.9
	i	41 37.50			DOU	127.83	334 PKP	41 47.10	0.6	FDF	145.40	72	ePKP	42	19.81	-0.1
SLR	117.95	237 iPKPc	41 27.00	-1.5	CDF	127.84	331 ePKP	41 46.80	0.0	TCE	145.47	79	ePKP	42	17.77	-2.2
FRS	118.77	232 ePKP	41 29.00	-0.7		0.8s	12.10nm			BIM	145.52	72	ePKP	42	19.38	-0.7
	0.7s	6.85nm			ARV	127.94	323 PKP	41 47.80	0.8	CRM	145.61	71	ePKP	42	20.30	0.1
MLR	118.89	320 ePKP	41 25.00	-4.7X	UPA	128.07	83 iPKPc	41 47.80	-0.2	TPP	145.81	79	ePKP	42	21.54	1.0
KSR	119.06	237 ePKP	41 30.00	-0.7		1.0s	80.00nm			TRN	145.82	79	ePKP	42	19.85	-0.7
	0.6s	4.29nm			CZI	128.20	317 PKP	41 48.20	0.6	VAO	146.02	146	ePKP	42	22.90	2.1
BUL	119.57	243 iPKPd	41 31.60	-0.2	SFI	128.33	324 PKP	41 48.90	1.2	TBH	146.16	79	ePKP	42	22.42	1.2
	0.8s	9.33nm			SDI	128.42	321 PKP	41 48.10	0.1	AVE	146.46	329	iPKP	42	22.50	1.3
	i	41 39.70			BSF	128.47	331 ePKP	41 47.90	-0.1		i	42 35.50				
KRA	120.30	327 ePKP	41 33.00	1.0		1.0s	66.00nm				i	42 57.00				
SPC	120.59	326 iPKP	41 34.80	1.9	WIN	128.56	236 ePKP	41 38.00	-11.0X	BMA	147.75	150	ePKP	42	27.20	3.6X
LSZ	121.39	249 iPKP	41 36.00	0.7		1.0s	16.00nm			TIO	148.21	326	iPKP	42	24.00	-0.2
TUH	121.70	226 iPKPd	41 17.00	-18.2X	HAU	128.56	332 ePKP	41 48.30	0.2		i	42 37.50				
	0.8s	14.93nm				1.0s	40.00nm				i	42 45.00				
KSP	121.79	329 ePKP	41 30.60	-4.3X	Z 20s	1.55um		5.7msz	BAO	150.88	136	ePKPd	42	31.00	2.4X	
	id	41 35.90			VAI	128.82	328 PKP	41 47.50	-1.0	KIC	157.52	274	PKP	42	38.00	0.3
SRS	122.24	316 ePKP	41 35.00	-1.1	LPL	130.11	329 ePKP	41 51.90	0.5	TIC	157.78	275	PKP	42	38.20	0.2
SRO	122.41	325 ePKP	41 36.80	0.7		0.6s	6.75nm</									

S.D. = 1.0 on 219 of 253 obs.

& OCT 27, 1991 12h 08m 43.53s

61.610 N 150.578 W

DEPTH = 12.6km

SOUTHERN ALASKA (2)

PLRM 0.69 91 eS 09 03.66
 CGLM 0.75 247 iPd 08 55.90 -1.1
 NCG 0.78 255 iPd 08 58.08 -0.6
 GH0 0.80 78 iPd 08 58.07 -0.9
 CUT 0.81 10 iPc 08 58.37 -0.6
 SPU 0.83 239 iPd 08 58.68 -0.7
 CRP 0.83 246 iPd 08 58.99 -0.5
 NKA 0.93 200 ePc 09 02.20 1.2
 BGL 0.94 249 iPd 09 00.61 -0.6
 CKL 0.94 245 iPd 09 00.60 -0.7
 KNK 1.04 100 ePd 09 02.28 -0.6
 SML 1.09 78 ePd 09 02.98 -0.8
 SLKM 1.12 171 iPc 09 02.99 -1.3
 RDT 1.37 221 ePc 09 07.34 -1.0
 HUR 1.44 17 eP 09 08.90 -0.5
 REF 1.53 224 ePc 09 10.06 -0.7
 RDN 1.53 225 ePc 09 09.84 -0.9
 NCT 1.55 228 ePc 09 09.77 -0.3
 SCM 1.56 80 eP 09 10.48 -0.7
 RS2 1.57 224 eP 09 10.70 -0.6
 RSO 1.56 224 eP 09 10.68 -0.6
 RDW 1.57 225 ePc 09 10.73 -0.6
 RS1 1.57 224 ePc 09 11.02 -0.3
 RED 1.60 223 ePc 09 11.18 -0.6
 SEW 1.61 159 eP 09 10.63 -1.1
 NNL 1.61 193 eP 09 12.12 0.3
 GLI 1.84 112 eP 09 15.07 0.0
 TRF 1.85 4 eP 09 15.67 0.2
 RND 1.97 23 eP 09 16.88 -0.2
 INE 1.97 219 eP 09 14.72 -2.5
 LTI 2.06 139 eP 09 17.62 -0.7
 VLZ 2.10 101 eP 09 18.73 -0.1
 CNPM 2.12 189 eP 09 19.58 0.5
 FID 2.17 112 eP 09 18.91 -0.9
 KLU 2.23 91 ePd 09 21.09 0.2
 TZL 2.48 78 eP 09 24.22 -0.1
 SDG 2.54 67 ePd 09 26.49 1.3
 PAX 2.75 58 eP 09 29.13 0.9
 42 obs. associated

* OCT 27, 1991 12h 22m 57.68±1.43s
 5.250 S ± 9.7km 152.670 E ± 13.6km
 DEPTH = 58.3 ± 15.9 km
 4.6mb (2 obs.)
 NEW BRITAIN REGION, P.N.G. (192)

RAB 1.16 335 iPc 23 18.00 0.0
 PMG 6.86 233 eP 24 38.00 0.1
 OIS 19.82 219 iPd 27 26.00 -0.4
 DZM 21.39 143 iPd 27 42.60 0.1
 RMO 21.45 190 iPd 27 43.00 -0.1
 WR2 23.04 229 iPd 27 59.00 0.2
 ASPA 25.73 223 iPd 28 24.70 0.1
 GEC2 124.37 328 ePKP 41 51.90 0.0
 0.6s 0.53nm
 S.D. = 0.2 on 8 of 8 obs.

* OCT 27, 1991 12h 47m 38.55±1.14s
 28.419 N ± 15.2km 51.229 E ± 18.0km
 DEPTH = 33.0km (normol)
 4.0mb (2 obs.)
 SOUTHERN IRAN (353)

SHI 1.67 43 eP 48 06.00 0.0
 DHR 2.32 205 eP 48 15.00 -0.2
 RYD 5.54 229 ePd 48 56.00 -4.9X
 MJMA 5.88 246 ePd 49 04.00 -1.7
 AFIF 8.41 241 ePd 49 43.00 1.9

HFS 40.58 332 eP 55 16.70 0.4
 0.4s 2.70nm 4.3mb
 NB2 42.11 332 P 55 28.60 -0.3
 0.5s 0.60nm 3.6mb
 S.D. = 1.5 on 6 of 7 obs.

* OCT 27, 1991 13h 19m 56.15±0.90s
 29.500 N ± 15.8km 79.049 E ± 5.4km
 DEPTH = 33.0km (normol)
 NORTHERN INDIA (308)
 ML 3.9 (NDI).

NDI 1.80 244 iPnc 20 25.00 -0.3
 GKN 5.13 106 P 21 13.20 0.4
 DMN 5.65 108 P 21 21.20 0.9
 KKN 5.73 106 P 21 21.20 -0.2
 PKI 5.92 107 P 21 24.00 -0.1
 GUN 6.20 103 P 21 27.20 -1.0
 QUE 10.53 277 e(P) 22 28.30 0.3
 HYB 12.04 182 eP 22 48.50 0.1
 SHL 12.04 106 eP 22 43.00 -5.6X
 25 02.50
 S.D. = 0.7 on 8 of 9 obs.

* OCT 27, 1991 13h 55m 12.96±6.16s
 2.814 N ± 20.0km 75.255 W ± 52.5km
 DEPTH = 60.0km (geophysicist)
 COLOMBIA (103)
 MD 3.7 (UVC).

DIAC 1.05 297 eP 55 30.95 -1.1
 PURC 1.21 246 eP 55 34.40 -0.1
 HOOC 1.52 295 eP 55 38.50 -0.1
 CLMC 1.68 309 ePc 55 40.10 -0.6
 56 04.00
 ANCC 1.75 293 eP 55 43.00 1.4
 HOBC 1.77 330 eP 55 42.10 0.3
 S.D. = 1.1 on 6 of 6 obs.

* OCT 27, 1991 14h 08m 12.08±0.61s
 72.149 N ± 7.7km 1.142 W ± 6.4km
 DEPTH = 10.0km (geophysicist)
 JAN MAYEN ISLAND REGION (639)
 MD 3.3 (BER).

LOF 6.41 122 eP 09 48.21 -0.6
 DAG 6.60 323 iPc 09 51.00 -0.4
 0.8s 14.93nm 5.0mb X
 TRD 7.04 101 iP 09 57.57 0.1
 MOR7 8.13 128 eP 10 12.16 -0.7
 KTK1 8.67 99 eP 10 21.42 1.1
 MOL 10.17 157 eP 10 37.14 -3.9X
 SOD 10.66 103 iP 10 47.80 0.1
 HFS 13.41 146 eP 11 21.20 -3.4X
 0.8s 18.20nm 5.2mb X
 Z 18s 0.31um 3.8msz
 LR 14 59.00
 UPP 14.40 139 iP 11 34.60 -3.0X
 KAF 14.48 120 eP 11 37.40 -1.3
 0.5s 4.90nm 4.4mb
 NUR 15.41 126 eP 11 50.00 -0.8
 0.8s 23.50nm 4.6mb
 i 11 58.00
 CLL 21.84 156 e(P) 13 08.00 2.0
 MOX 22.32 158 e(P) 13 11.50 0.6
 1.6s 24.00nm 4.4mb
 BRG 22.39 154 e(P) 13 11.00 -0.5
 KSP 22.75 151 eP 13 15.20 0.1
 OBN 23.28 117 eP 13 21.00 0.9
 GEC2 24.35 156 ePc 13 30.90 0.2
 0.8s 0.64nm 3.3mb X
 LOR 25.07 172 eP 13 37.40 -0.2
 1.0s 8.00nm 4.4mb
 Z 20s 0.10um 3.3msz
 SSF 25.26 173 eP 13 39.10 -0.3
 0.8s 5.35nm 4.3mb
 LBF 25.36 172 eP 13 40.50 0.1
 1.2s 11.90nm 4.5mb
 AVF 25.53 173 eP 13 41.70 -0.2
 1.0s 8.00nm 4.4mb
 SMF 25.69 172 eP 13 43.20 -0.2
 1.0s 6.00nm 4.2mb
 BGF 25.74 174 eP 13 43.80 -0.1
 0.8s 6.70nm 4.4mb

S.D. = 0.8 on 20 of 23 obs.

? OCT 27, 1991 14h 19m 30.70±5.61s
 38.951 N ± 36.8km 23.855 E ± 31.9km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 MD 2.1 (THE).

PAIG 0.98 352 ePg 19 49.53 0.2
 AGG 1.19 274 ePg 19 53.00 0.1
 OUR 1.39 4 ePb 19 56.04 0.0
 LIT 1.56 318 ePb 19 58.24 -0.3
 GRG 2.29 331 ePn 20 09.60 0.4
 KNT 2.33 342 ePn 20 09.20 -0.4
 S.D. = 0.4 on 6 of 6 obs.

OCT 27, 1991 16h 17m 31.06±0.16s
 22.086 S ± 4.0km 67.400 W ± 3.5km
 DEPTH = 178.4km (8 depth phases)
 5.4mb (64 obs.)
 CHILE-BOLIVIA BORDER REGION (124)
 Mo=3.0*10**17 Nm (PPT).
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 22S, 40C
 Centroid Location:
 Origin Time 16:17:35.8 0.4
 Lat 22.11S 0.05 Lon 67.53W 0.05
 Dep 177.5 1.6 Half-duration 2.1
 Moment Tensor: Scale 10**17 Nm
 Mrr=-0.47 0.07 Mtt= 0.29 0.10
 Mff= 0.18 0.09 Mrt=-0.14 0.07
 Mrf=-1.65 0.06 Mtf= 0.18 0.09
 Principal Axes:
 T Vol= 1.58 Plg=39 Azm=103
 N 0.25 6 8
 P -1.82 51 270
 Best Double Couple: Mo=1.7*10**17
 NP1: Strike=235 Dip= 9 Slip= -43
 NP2: 7 84 -96

ANT 3.21 239 iPc 18 15.80 -6.9X
 CNCB 5.28 354 iPd 18 51.80 1.9
 LPB 5.56 353 iPd 18 54.90 1.4
 ZON 9.49 187 eP 19 37.00 -7.9X
 CFA 9.51 184 eP 19 37.70 -7.5X
 PEL 11.39 194 iPd 20 04.60 -5.1X
 IMA 11.53 198 e(P) 20 06.00 -5.4X
 e(S) 22 05.50
 SAN 11.68 194 eP 20 08.00 -5.5X
 PCH 11.82 193 eP 20 07.00 -8.2X
 LCCCH 11.93 197 iP 20 09.50 -7.1X
 TACH 11.94 194 iP 20 09.00 -7.7X
 CHCH 12.15 193 eP 20 12.00 -7.4X
 ITB1 12.22 105 e(P) 20 20.00 -0.4
 LNV 12.34 196 eP 20 14.00 -7.8X
 ITB 12.41 105 e(P) 20 22.00 -0.8
 ITB7 12.50 107 e(P) 20 29.50 5.5X
 NNA 13.50 317 iP 20 34.80 -1.9
 0.9s 504.20nm 5.9mb
 i 20 39.50
 eS 23 00.00
 PT10 13.51 316 e(P) 20 30.30 -6.6X
 e(S) 23 04.80
 PPD 14.92 93 iPc 20 53.40 -1.0
 e 20 56.70
 i 21 07.50
 LPA 15.23 149 eP+ 20 54.00 -4.2X
 0.9s 376.47nm 5.8mb
 eS 23 43.00
 VAO 18.90 97 iPc 21 39.00 -1.5
 i 21 48.00
 i 23 10.80
 e 26 43.10
 BAO 19.45 74 iPc 21 46.70 0.4
 BMA 21.50 96 eP 22 05.60 -1.1
 e 22 07.50 7kmX
 i 22 12.10
 e 22 18.00
 BOG 27.33 345 eP 23 03.00 1.3
 eS 27 30.00
 PDCR 28.57 75 iPc 23 09.80 -2.7X

27d 16h

		e	29 36.80		TIC	67.41	72 Pc	28 08.70	-0.9	FRS	81.59	119 iPc	29 29.20	-1.2
		i	32 23.00			1.1s	223.50nm		5.9mb		0.7s	126.71nm		5.8mb
		i	32 53.30		KIC	67.53	73 Pc	28 09.68	-0.7	FHC	81.70	320 iPd	29 31.57	0.9
BMG	29.51	349 eP	23 18.00	-2.8X		0.7s	261.00nm		6.1mb	SES	81.82	333 iPd	29 31.30	0.2
SDV	30.94	354 iPd	23 31.80	-1.8X	ALO	67.76	326 iPd	28 11.30	-0.3		0.8s	145.00nm		5.8mb
TOV	31.76	356 eP	23 39.30	-1.2		1.0s	127.50nm		5.6mb	FFC	82.04	341 iPd	29 31.90	-0.2
CUM	32.50	6 iP	23 28.00	-18.9X	SPA	68.05	180 iPd	28 11.50	-1.6		1.1s	89.00nm		5.4mb
TPP	32.73	11 eP	23 50.35	1.5		1.2s	76.76nm		5.3mb	EVAL	82.29	44 iPc	29 35.39	1.5
TBH	32.96	12 eP	23 52.03	1.2	LKO	68.25	69 Pc	28 14.32	-0.6	EJIF	82.49	46 iPd	29 35.78	0.9
TCE	33.05	10 eP	23 52.20	0.6		0.5s	154.50nm		6.1mb	BLF	82.52	118 iPc	29 35.50	0.0
TRN	33.06	11 eP	23 51.77	0.1	GLD	70.93	330 P	28 31.20	0.3		0.9s	115.38nm		5.6mb
UPA	33.09	338 iPd	23 52.20	0.2		1.1s	108.49nm		5.5mb	EPRU	82.94	46 iPc	29 38.70	1.5
	1.1s	379.75nm		6.0mb			pP	29 14.60	181km	NEW	82.96	329 P	29 36.00	-1.1
GRW	34.49	10 eP	24 04.05	0.0	GOL	70.96	330 P	28 30.90	-0.2		1.1s	50.77nm		5.2mb
BIM	36.90	10 eP	24 23.10	-1.2			pP	29 13.50	178km	DPW	83.21	328 P	29 38.80	0.4
MVM	36.97	11 eP	24 24.30	-0.5	GLA	71.09	319 iPd	28 32.00	0.2	MAW	83.37	163 iPd	29 39.00	0.1
FDF	37.10	10 eP	24 24.00	-2.0X	PLM	72.54	318 eP	28 41.00	0.4	SEK	83.98	118 iPc	29 42.80	-0.2
CRM	37.16	10 eP	24 25.30	-1.1	PEC	73.09	318 P	28 43.80	0.3		0.7s	68.49nm		5.5mb
BBL	37.82	9 eP	24 28.00	-4.0X	RVR	73.29	318 eP	28 45.00	0.4	SHW	84.14	325 P	29 42.90	-0.3
MGG	38.24	9 eP	24 30.00	-5.4X	MSU	73.46	325 P	28 46.30	0.5	LON	84.27	326 P	29 43.60	-0.1
PAG	38.29	9 eP	24 32.00	-3.9X	SSK	73.63	318 P	28 46.80	0.0	KSR	84.29	115 iPc	29 44.50	0.0
DEG	38.66	10 eP	24 35.00	-4.0X	GSC	73.82	320 eP	28 48.00	0.2		1.0s	50.00nm		5.2mb
MGP	39.85	0 P	24 46.80	-1.8X	MWC	73.86	318 iPd	28 48.00	-0.2	EBAN	84.56	45 iPd	29 47.06	1.8
PORP	39.90	1 P	24 47.30	-1.8X	PAS	73.88	318 eP	28 49.00	0.9	RMW	84.74	326 P	29 45.30	-0.7
CPD	39.90	2 P	24 47.00	-2.1X	SBB	74.03	319 iP+	28 49.00	0.0	ERUA	84.85	40 iPc	29 47.77	1.1
CLLP	39.93	1 P	24 47.70	-1.6X	DAU	74.38	327 P	28 51.60	0.4	PNT	84.88	329 eP	29 47.00	0.4
LPR	40.17	2 P	24 49.30	-2.1X	TBI	74.63	251 iP	28 53.40	0.7		0.9s	49.00nm		5.3mb
MCP	40.26	0 P	24 50.80	-1.2		1.4s	220.00nm		5.7mb	EHUE	85.16	46 iPc	29 49.73	1.3
AIA	43.20	178 eP	25 16.50	1.0X	CLC	74.65	320 iPd	28 52.00	-0.5	GMW	85.30	326 P	29 48.60	-0.2
TPX	44.11	324 (P)	25 23.50	0.1	DUG	75.02	326 P	28 55.00	0.3	TOL	85.33	44 iPc	29 50.20	1.1
OXX	48.37	321 (P)	25 58.00	0.9	BW06	75.33	329 P	28 56.00	-0.5		1.2s	39.06nm		5.1mb
ACX	50.09	318 (P)	26 10.50	0.5		1.0s	54.17nm		5.2mb	SLR	85.49	116 iPc	29 48.50	-2.0
IISM	50.26	322 (P)	26 12.00	0.9	RUV	75.34	259 iP	28 57.50	0.7		1.0s	100.00nm		5.6mb
LVVM	50.34	324 (P)	26 10.50	-1.2		1.2s	100.00nm		5.4mb	EVIA	85.66	45 iPd	29 52.25	1.4
IIT	50.82	321 (P)	26 16.50	0.7	CWC	75.35	320 iPd	28 57.00	0.3	GUD	85.69	43 iPd	29 52.47	1.5
III	51.00	320 (P)	26 17.50	0.4	TUH	75.46	120 iPd	28 57.00	-0.3	PGC	86.35	327 eP	29 54.00	0.2
PPM	51.04	321 (P)	26 18.00	0.2		1.0s	130.00nm		5.6mb		1.2s	157.00nm		5.7mb
MRX	53.06	319 (P)	26 32.50	0.5	VAH	75.55	259 iP	28 58.60	0.6X	ETOR	87.12	44 iPd	29 59.61	1.7
CGX	54.47	317 (P)	26 50.00	7.4X		1.2s	175.00nm		5.7mb	BUL	87.90	111 iPc	30 02.30	0.1
HBF	56.10	347 iPd	26 53.10	-0.8	CER	75.56	120 iPc	28 55.50	-2.4		1.0s	60.00nm		5.5mb
		epP	27 33.40	176km		1.0s	200.00nm		5.8mb	EROD	88.72	45 iPc	30 07.23	1.8
		e	28 26.30		TPT	75.62	259 iP	28 59.40	1.0	LSZ	89.39	106 iP	30 10.60	1.3
SGS	56.37	347 iPd	26 55.00	-0.8		1.2s	135.00nm		5.6mb	BTH	89.51	42 Pc	30 10.10	1.1
		e	27 07.90				pP	28 59.00	0.1			e	30 15.00	15kmX
		epP	27 36.50	181km	BCH	75.75	318 P	29 00.60	0.8			(sPcP)	31 13.00	
JSC	57.58	346 P	27 03.30	-1.0	PMO	75.87	259 iP	29 00.60	0.8	EPF	89.80	43 eP	30 11.10	0.6
PRM	57.64	345 iPd	27 03.40	-1.3		1.2s	165.00nm		5.6mb		0.8s	6.05nm		4.6mb
		epP	27 43.30	172km	TNP	75.96	322 P	29 00.20	0.1	SALF	90.20	43 P	30 13.55	1.2
LHS	57.68	347 ePc	27 04.00	-0.9	HVU	76.16	327 P	29 00.70	-0.4	LESF	90.40	43 P	30 18.17	5.0X
		epP	27 44.00	173km	PKEM	76.34	318 P	29 02.50	0.5	LFF	91.03	41 eP	30 16.20	0.2
CEH	58.71	349 e(P)	27 14.40	2.3	PHAM	76.37	318 P	29 02.20	0.0		1.0s	16.00nm		5.0mb
MZX	58.90	317 (P)	27 07.50	-6.1X	PPN	76.43	256 iP	29 04.00	1.1	MFF	91.35	39 eP	30 17.60	0.2
TKL	59.49	345 iPd	27 15.70	-1.7		1.2s	50.00nm		5.1mb		0.8s	13.45nm		5.1mb
GBTN	59.60	344 iPd	27 16.50	-1.7	BONR	76.50	321 P	29 03.70	0.5	LPF	91.57	38 eP	30 18.10	-0.3
PWLA	60.05	340 P	27 19.00	-2.2	PAE	76.52	256 iP	29 03.90	0.5		0.8s	9.40nm		4.9mb
BLA	60.24	348 P	27 22.20	-0.4	PPT	76.55	256 iP	29 04.40	0.8	CAF	91.83	42 eP	30 19.80	0.1
	0.7s	55.28nm		5.5mb		1.2s	160.00nm		5.6mb		0.8s	7.45nm		4.8mb
NAV	60.42	348 P	27 23.20	-0.6	FRI	76.70	319 iPd	29 02.89	-1.0	GRR	91.87	38 eP	30 19.40	-0.3
CVL	60.64	350 P	27 24.60	-0.6	PRI	76.73	318 iPd	29 04.72	0.4		0.8s	13.45nm		5.1mb
CBN	60.70	351 eP	27 25.00	-0.6	AFR	76.74	256 iP	29 05.20	0.6	CSY	91.89	179 eP	30 20.20	0.5
	1.0s	42.00nm		5.2mb		1.2s	125.00nm		5.5mb		0.7s	20.00nm		5.3mb
SNA	61.04	159 iPc	27 25.50	-2.1	PTI	76.76	328 P	29 04.60	0.2	YKA	92.21	340 eP	30 21.20	0.2
	1.0s	62.00nm		5.4mb	WIN	77.01	109 iPc	29 08.50	2.2X		0.8s	76.80nm		5.8mb
MBO	61.31	58 iPc	27 30.30	0.2		1.0s	100.00nm		5.5mb	FLN	92.27	38 eP	30 21.50	-0.1
RKT	61.85	255 iP	27 33.00	-0.7	LLA	77.21	318 iPd	29 07.18	0.4		1.0s	20.00nm		5.2mb
	1.0s	95.00nm		5.6mb	PRS	77.29	318 iPd	29 07.71	0.5	Z	20s	0.17um		4.5MsZ
LST	61.99	340 P	27 32.90	-1.4	SAO	77.61	318 iPd	29 08.93	-0.1	LDF	92.39	38 eP	30 21.30	-0.9
ELC	62.53	340 P	27 35.60	-2.2	HPI	77.74	328 P	29 10.60	0.7		0.8s	6.70nm		4.8mb
GMTN	62.96	354 iP	27 38.80	-1.8	CMB	77.79	320 iPd	29 10.01	0.0	TCF	92.59	41 eP	30 23.10	-0.1
PNJ	62.98	354 iP	27 39.70	-1.0	ARN	78.04	319 P	29 11.90	0.5		0.8s	5.35nm		4.7mb
VVO	63.11	334 ePc	27 40.00	-1.7	GCC	78.12	318 iPd	29 12.12	0.4	MAF	92.78	41 eP	30 24.10	0.1
TBR	63.22	354 P	27 41.00	-1.3	TIO	78.13	50 iP	29 11.90	-0.3		0.8s	6.70nm		4.8mb
FVM	63.55	340 P	27 42.70	-1.8	PCC	78.66	318 eP	29 14.68	0.0	BGF	93.11	41 eP	30 25.50	0.0
		pP	28 25.00	180km	LCCM	78.73	330 ePd	29 15.60	0.5		1.0s	21.00nm		5.3mb
RLO	63.55	335 ePc	27 43.50	-1.1	ZSP	78.86	319 eP	29 16.54	0.8	AVF	93.53	41 eP	30 27.50	0.1
TUL	63.63	334 ePd	27 43.60	-1.5	AVE	79.38	48 iP	29 20.00	1.3		0.8s	4.05nm		4.6mb
	1.2s	239.80nm		5.9mb	ORV	79.43	320 iPd	29 19.40	0.6	SSF	93.75	40 eP	30 28.50	0.0
SIO	63.70	334 ePc	27 44.10	-1.4	NWRM	79.57	319 P	29 19.70	0.2		0.8s	6.70nm		4.9mb
MEO	63.84	332 e(P)	27 44.50	-2.0	MIN	80.00	321 iPd	29 21.15	-0.9	SMF	93.75	41 eP	30 28.60	0.1
ACO	65.70	332 iPc	27 57.50	-0.9	LTCM	80.22	321 P	29 21.90	-1.1		0.8s	6.70nm		4.9mb
BNH	66.44	357 P	28 03.00	0.0	WDC	80.70	321 iPd	29 24.31	-1.2	LBF	94.00	41 eP	30 29.50	-0.2
EMM	66.50	360 P	28 03.20	0.0	LBFM	80.82	322 P	29 26.40	0.0		0.8s	5.35nm		4.8mb
MIM	67.02	359 P	28 06.40	-0.1	IFR	81.08	48 iPd	29 30.00	2.1	LOR	94.06	40 eP	30 29.60	-0.3
LIC	67.21	73 Pc	28 07.46	-0.9			i	29 31.00	3kmX		0.7s	4.40nm		4.7mb
	0.8s	132.00nm		5.8mb	HVD	81.43	119 iPd	29 30.20	0.3	Z	20s	0.15um		4.5MsZ
Z	20s	0.25um		4.4MsZ		1.2s	70.31nm		5.3mb	LPL	95.02	43 eP	30 35.50	0.8
					FOX	81.53	320 iPd	29 30.90	1.2		0.6s	5.40nm		5.0mb

LPG	95.02	43	eP	30	35.60	0.8
	0.6s		4.50nm			4.9mb
WTTA	98.83	43	iPc	30	52.10	0.3
	1.0s		20.50nm			5.6mb
			i	30	57.40	17kmX
GEC2	100.71	42	ePdiff	30	59.50	-0.7
	0.6s		0.35nm			4.1mb X
INK	101.97	340	ePdiff	31	05.00	-0.2
PMR	105.34	331	Pdiff	31	19.70	-0.6
	1.3s		25.94nm			6.1mb
FBA	105.79	334	Pdiff	31	21.40	-0.8
	1.0s		10.25nm			5.9mb
KDC	105.84	326	PKP	35	21.60	-12.8X
MUN	126.13	184	ePKP	36	13.00	-1.0
	0.2s		100.00nm			
BAL	127.46	184	ePKP	36	15.30	-1.3
ASPA	130.02	206	iPKPd	36	20.40	-1.3
	0.4s		36.50nm			
			iPP	37	06.40	
			iPPP	39	27.10	
			iPKS	39	42.80	
QIS	130.08	214	iPKPd	36	21.20	-0.7
			i	39	29.40	
MA10	132.08	61	ePKP	36	25.00	-0.3
WR2	133.12	209	iPKPc	36	26.80	-0.8
	0.3s		39.50nm			
POO	143.55	88	iPKPd	36	42.60	-4.2X
KUSJ	146.09	316	ePKP	36	49.70	-0.6
ASAJ	146.89	319	ePKP	36	51.70	0.2
HOQJ	147.35	315	ePKP	36	54.80	2.5X
NDI	147.45	71	ePKP	36	54.00	1.1
HYB	147.66	92	ePKP	36	56.50	2.9X
	1.0s		90.00nm			
			e	37	06.20	
GUA	148.14	260	ePKP	36	57.20	2.8X
	0.9s		571.43nm			
GUMO	148.20	260	ePKP	36	56.80	2.4X
	1.1s		*****nm			
PJG	148.20	260	ePKP	36	57.00	2.6X
MRRJ	148.75	317	ePKP	36	58.40	3.9X
OFUJ	149.96	311	PKP	37	01.30	4.8X
AOMJ	150.15	314	ePKP	37	02.40	5.7X
TRT	150.40	180	iPKPd	37	04.70	6.8X
	0.7s		76.80nm			
YAMJ	151.51	310	PKP	37	05.40	6.5X
KAKJ	152.23	307	PKP	37	06.50	6.6X
NI1J	152.65	309	ePKP	37	07.40	6.9X
CHJJ	153.16	307	ePKP	37	09.30	8.0X
MDJ	153.53	332	PKPc	37	01.70	0.2
MAT	153.53	309	iPKPd	37	09.30	7.5X
MTMJ	153.80	309	ePKP	37	09.90	7.6X
GKN	154.02	71	PKP	37	03.20	0.3
DMN	154.48	72	PKP	37	04.00	0.3
KKN	154.61	72	PKP	37	03.80	0.0
PKI	154.75	72	PKP	37	04.00	-0.1
GUN	155.13	71	PKP	37	05.00	0.4
CN2	155.87	337	ePKP	37	03.70	-1.0
LSA	159.29	64	PKP	37	11.50	1.7
GTA	159.57	29	PKPd	37	10.00	0.6
HHC	161.27	2	ePKP	37	12.60	1.5
BTO	161.41	6	ePKP	37	12.50	1.3
BJI	161.84	351	ePKP	37	12.00	0.5
LZH	164.10	27	PKP	37	15.00	0.9
TIY	164.42	0	ePKP	37	15.80	1.6
TIA	165.38	345	ePKP	37	16.10	1.1
CHG	166.79	102	ePKP	37	16.80	0.2
			e	38	22.00	
CHTO	166.79	102	ePKP	37	16.80	0.2
	1.0s		6.25nm			
XAN	167.66	14	PKP</			

LTMT	1.45	94	ePn	18	50.20	0.6
HBM1	1.58	43	ePn	18	51.40	0.1
BGMT	1.60	68	ePn	18	51.70	0.1
BUT	1.76	38	ePn	18	54.40	0.5
			iPg	18	56.00	
			iSn	19	17.50	
			iSg	19	20.70	
LCCM	1.99	52	ePn	18	57.10	-0.2
PTI	2.19	144	eP	19	00.40	0.3
			eS	19	28.67	
MEMT	2.44	66	ePn	19	03.40	-0.3
SXM	2.55	53	ePn	19	05.20	-0.1
HRY	2.62	37	ePn	19	05.70	-0.6
HVU	3.03	160	eP	19	13.08	1.0
			eS	19	55.28	
BW06	3.81	118	eP	19	28.40	5.2X
NEW	4.17	331	eP	19	28.00	0.0
DPW	4.29	320	eP	19	30.00	0.2
DUG	4.55	167	eP	19	32.48	-1.2
			eS	20	42.14	
PNT	5.99	323	P	20	12.00	18.2X
	0.5s				7.60nm	
	S.D. = 0.6	on		15 of		17 obs.

* OCT 27, 1991 16h 45m 33.61± 3.78s						
42.668 N ±21.8km 0.099 W ±18.8km						
DEPTH = 10.0km (geophysicist)						
PYRENEES						(378)
ML 1.3 (STR).						
ENSF	0.35	67	Pg	45	40.81	0.0
			Sg	45	45.62	
BTH	0.46	350	iPg	45	43.00	0.0
EPF	0.49	42	Pg	45	43.50	0.0
			Sg	45	48.60	
SALF	0.95	84	Pg	45	51.61	-0.2
GRBF	1.22	81	Pg	45	56.59	0.3
	S.D. = 0.2	on		5 of		5 obs.

& OCT 27, 1991 17h 53m 12.31s						
57.689 N 143.104 W						
DEPTH = 10.0km (geophysicist)						
GULF OF ALASKA						(15)
<AEIC>. ML 3.7 (AEIC).						
KAIM	2.42	344	eP	53	47.75	-4.8
			S	54	15.03	
WRG	2.50	12	ePd	53	48.41	-5.3
CYK	2.50	7	ePd	53	48.52	-5.1
SNH	2.58	3	iPd	53	49.76	-5.1
			eS	54	17.90	
YKU	2.63	41	ePd	53	50.69	-4.8
HMT	2.80	348	ePd	53	52.72	-5.3
PNL	2.83	42	iPd	53	52.78	-5.7
YAH	2.85	14	iPd	53	53.47	-5.4
HQN	2.89	48	iPd	53	53.36	-5.8
			S	54	25.69	
PCA	2.90	29	iPd	53	53.92	-5.5
RAGM	2.90	344	ePd	53	53.81	-5.6
BCPM	2.96	36	iPd	53	54.63	-5.6
CROM	3.16	360	iPd	53	57.33	-5.8
TGL	3.16	2	iPd	53	57.40	-5.7
MTU	3.36	317	eP	54	00.89	-5.0
BALM	3.46	6	iPd	54	01.71	-5.7
LTJ	3.47	317	eP	54	01.96	-5.5
CTGM	3.49	14	eP	54	02.05	-5.8
FID	3.60	333	ePc	54	03.88	-5.4
KNIM	3.65	321	ePc	54	04.14	-5.8
GLB	3.86	355	iPd	54	07.00</	

INE	5.73	300	eP	54	34.30	-5.2
REF	5.73	304	eP	54	34.52	-5.2
RED	5.73	303	eP	54	34.62	-5.0
RS1	5.75	304	ePc	54	34.65	-5.2
RDN	5.77	304	eP	54	34.52	-5.6
SPU	5.81	312	ePc	54	34.68	-5.9
CUT	6.00	326	eP	54	38.16	-5.1
SKT	6.11	319	iPc	54	39.61	-5.1
47 obs. associated						
<hr/>						
OCT 27, 1991 18h 57m 13.24± 0.75s						
18.302 N ± 8.0km 99.253 W ± 7.5km						
DEPTH = 55.5 ± 13.1 km						
3.9mb (1 obs.)						
GUERRERO, MEXICO (59)						
<hr/>						
III	0.22	290	iP	57	22.50	-0.1
			(S)	57	37.50	
PPM	0.96	38	iP	57	31.00	-0.3
UNM	1.03	4	iP	57	32.25	0.4
			iS	57	45.50	
IIT	1.15	51	iP	57	33.25	-0.3
PUE	1.24	54	(P)	57	33.00	-1.9
			(S)	57	55.00	
ACX	1.54	202	eP	57	38.00	-0.7
IISM	1.91	69	iP	57	44.00	0.2
MRX	2.30	308	iP	57	50.50	1.0
OXX	2.70	116	iP	57	56.00	0.7
LVVM	3.01	61	eP	58	01.50	1.9
CGX	4.22	290	(P)	58	26.00	9.3X
AGX	4.57	322	(P)	58	43.00	21.6X
VVO	17.25	10	e(P)	01	11.00	-0.8
TUL	17.81	9	eP	01	18.60	-0.1
0.8s 7.60nm 3.9mb						
S.D. = 1.1 on 12 of 14 obs.						
<hr/>						
OCT 27, 1991 19h 33m 39.77± 0.73s						
26.919 S ± 6.8km 26.793 E ± 10.2km						
DEPTH = 5.0km (geophysicist)						
REPUBLIC OF SOUTH AFRICA (584)						
mbLg 3.9 (BUL).						
<hr/>						
KSR	1.05	5	iPd	34	01.50	1.3
			S	34	15.70	
SEK	1.58	152	iPc	34	10.50	1.8
			S	34	30.00	
SLR	1.78	49	iPd	34	12.50	0.9
			S	34	36.00	
BLF	2.25	194	iPd	34	19.00	0.7
			S	34	49.00	
FRS	3.10	204	iPd	34	29.50	-0.8
			S	34	59.70	
HVD	3.84	197	iPc	34	40.20	-0.8
			S	35	22.90	
JOZ	4.74	98	eP	34	52.00	-1.6
	1.0s	270.00nm				
			S	35	44.00	
BUL	6.95	14	iPn	35	23.20	-1.7
			iSn	36	38.00	
			iSg	37	12.90	
CER	9.13	224	eP	35	43.50	-11.7X
	1.0s	220.00nm				
			S	37	24.00	
TUH	9.17	224	eP	36	06.50	10.7X
	1.0s	360.00nm				
			S	37	45.00	
WIN	9.82	294	eP	36	05.00	0.1
	1.0s	70.00nm				6.1mb
			S	37	30.00	
KRI	10.38	15	iPn	36	08.00	-4.5X
			iSn	37	56.00	
			iSg	38	56.00	
MTD	11.02	25	iPn	36	18.50	-2.8X
			iSn	38	16.80	
			iSg	39	23.10	
LSZ	11.66	7	iPn	36	27.00	-3.0X
			iSn	38	33.00	
			iSg	39	44.00	
KIC	45.02	313	P	42	01.10	2.7X
S.D. = 1.5 on 9 of 15 obs.						
<hr/>						
% OCT 27, 1991 19h 40m 01.99± 0.71s						
40.769 N ± 8.3km 15.590 E ± 9.3km						
DEPTH = 5.0km (geophysicist)						
SOUTHERN ITALY (390)						
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MGR	0.63	182	P	40	10.00	-4.6X

27d 19h

MMN 0.93 161 P eSg 40 20.00 0.0
 CSI 1.13 151 P eSg 40 35.50
 BRT 1.23 84 P 40 23.50 -0.1
 40 25.00 -0.3
 eSg 40 44.00
 DUI 1.23 317 P 40 26.00 0.5
 ROI 1.41 148 P 40 29.70 1.3
 CZI 1.60 165 P 40 30.10 -0.9
 SDI 1.63 306 P 40 31.00 -0.5
 S.D. = 0.9 on 7 of 8 obs.

% OCT 27, 1991 20h 27m 27.62 ± 0.65s
 42.491 N ± 5.8km 19.360 E ± 5.4km
 DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)
 ML 1.4 (TTG).

TTG 0.10 230 iPg 27 31.54 1.3
 iSg 27 34.62
 NKY 0.42 320 iPg 27 36.08 -0.1
 iSg 27 42.86
 BDV 0.45 242 iPg 27 36.52 -0.2
 iSg 27 43.58
 PVY 0.47 77 iPg 27 37.24 0.1
 iSg 27 45.16
 ULC 0.53 189 iPg 27 37.66 -0.8
 iSg 27 45.98
 IVA 0.55 46 iPg 27 38.78 0.0
 iSg 27 47.44
 BRY 0.73 305 iPg 27 41.66 -0.4
 iSg 27 52.50
 S.D. = 0.8 on 7 of 7 obs.

OCT 27, 1991 20h 35m 06.54 ± 0.24s
 44.339 N ± 1.8km 7.216 E ± 2.7km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 2.5 (LDG), 2.4 (GEN).

STV 0.12 140 P 35 09.49 -0.2
 S 35 11.19
 DOI 0.17 7 P 35 10.30 -0.1
 eSg 35 12.90
 ENR 0.18 127 P 35 10.70 0.0
 S 35 13.15
 PZZ 0.19 334 P 35 10.95 0.2
 S 35 13.65
 TOUF 0.33 176 Pg 35 13.23 -0.2
 AUTN 0.38 156 Pg 35 14.35 0.0
 SAOF 0.43 145 Pg 35 14.89 -0.4
 Sg 35 21.33
 MVIF 0.44 186 Pg 35 15.93 0.3
 Sg 35 21.57
 AURF 0.46 170 Pg 35 15.74 -0.2
 Sg 35 22.22
 ROB 0.47 95 P 35 16.64 0.5
 S 35 23.08
 SBF 0.50 162 Pg 35 16.40 -0.3
 Sg 35 22.00
 BH8 0.50 4 P 35 16.60 -0.2
 S 35 22.98
 CALN 0.63 202 Pg 35 18.75 -0.6
 Sg 35 27.33
 IMI 0.65 131 P 35 19.18 -0.4
 S 35 28.11
 RRL 0.66 332 P 35 19.43 -0.4
 S 35 28.40
 FIN 0.72 100 P 35 20.69 -0.1
 S 35 30.21
 BNI 0.81 332 P 35 21.30 -1.1
 eSg 35 32.60
 RSP 0.81 2 P 35 21.66 -0.7
 S 35 32.21
 FRF 0.88 208 Pg 35 23.20 -0.2
 Sg 35 36.00
 PCP 0.97 78 P 35 26.05 1.0
 S 35 38.04
 LRG 1.08 215 Pg 35 27.30 0.5
 Sg 35 42.00
 LMR 1.13 207 Pg 35 28.30 0.7
 Sg 35 42.00
 LPG 1.20 344 Pg 35 30.00 0.8
 Sg 35 44.60
 LPL 1.23 344 Pg 35 30.10 0.6
 CDR 1.24 238 e(Pg) 35 30.10 0.5
 e(Sg) 35 47.50

S.D. = 0.5 on 25 of 25 obs.
 OCT 27, 1991 20h 40m 36.60 ± 0.36s
 10.318 N ± 7.0km 125.207 E ± 9.3km
 DEPTH = 33.0km (normol)
 4.8mb (10 obs.) 3.5Msz (1 obs.)
 LEYTE, PHILIPPINE ISLANDS (256)

JAY 20.01 129 ePd 45 10.00 0.4
 NJ2 22.41 346 Pc 45 34.00 0.2
 0.8s 17.00nm 4.6mb
 WHN 22.52 335 eP 45 36.20 1.3
 pP 45 44.20 29kmX
 IPM 24.64 258 ePc 45 56.10 0.5
 XAN 27.93 330 P 46 24.90 -1.1
 0.8s 5.80nm 4.3mb
 CD2 28.58 319 P 46 31.20 -0.7
 WR2 31.40 163 eP 46 55.40 -1.6
 0.5s 3.40nm 4.4mb
 SNY 31.42 358 Pd 46 56.40 -0.5
 1.2s 18.00nm 4.8mb
 LZH 32.15 326 eP 47 03.50 -0.1
 1.5s 30.00nm 5.0mb
 pP 47 09.00 19kmX
 HHC 32.71 341 eP 47 08.30 -0.1
 QIS 33.79 155 eP 47 17.00 -0.9
 ASPA 34.83 166 eP 47 26.60 -0.2
 0.6s 8.50nm 4.9mb
 Z 22s 0.10um 3.5Msz
 SHL 35.01 300 iP 47 28.00 -0.6
 WARB 36.31 178 eP 47 40.00 0.8
 GTA 36.75 326 P 47 43.00 0.0
 1.0s 17.00nm 4.9mb
 sP 47 51.30
 GUN 40.84 301 P 48 18.20 0.7
 PKI 41.14 300 P 48 20.00 0.0
 0.7s 19.00nm 4.9mb
 KKN 41.32 301 P 48 21.20 -0.1
 0.8s 19.00nm 4.9mb
 DMN 41.41 300 P 48 22.20 0.1
 0.8s 25.00nm 5.0mb
 GKN 41.92 301 P 48 26.00 -0.2
 HYB 45.75 284 eP 49 01.50 4.4X
 WMO 46.55 323 eP 49 04.00 0.9
 DZM 51.69 129 iPc 49 44.80 1.8
 INK 84.63 21 eP 53 07.00 -0.8
 S.D. = 0.8 on 23 of 24 obs.

& OCT 27, 1991 20h 54m 05.70s
 33.650 N 116.750 W
 DEPTH = 14.0km
 SOUTHERN CALIFORNIA (43)
 <PAS-P>. ML 3.8 (PAS). Felt at
 Idyllwild.

PLM 0.31 198 iPd 54 12.10 -0.4
 PEC 0.42 305 iPd 54 13.64 -0.8
 RVR 0.62 304 iPd 54 17.10 -0.7
 HAY 0.93 86 eP 54 22.50 -0.6
 SSK 0.96 306 eP 54 23.03 -0.7
 BAR 0.97 176 iPd 54 22.80 -1.0
 IKP 1.13 151 eP 54 26.40 -0.2
 MWC 1.23 298 eP 54 27.60 -0.7
 PAS 1.28 293 eP 54 28.10 -1.0
 SBB 1.37 320 eP 54 30.30 0.0
 GLA 1.72 110 e(P) 54 35.85 0.5
 CLC 2.27 342 eP 54 42.20 -1.2
 ABL 2.37 301 eP 54 44.19 -0.8
 eS 55 19.78
 ISA 2.46 325 eP 54 45.00 -1.0
 BCH 3.15 300 ePn 54 54.11 -1.8
 eS 55 39.59
 PHAM 3.71 307 e(P) 55 00.09 -3.8
 TNP 4.44 355 ePn 55 13.72 -0.6
 e 55 17.26
 BONR 4.48 344 e(P) 55 14.76 -0.1
 MSU 6.10 36 e(P) 55 49.57 11.7
 19 obs. associated

? OCT 27, 1991 20h 57m 10.19 ± 2.15s
 3.084 S ± 19.8km 152.512 E ± 29.8km
 DEPTH = 33.0km (normol)
 4.8mb (2 obs.)
 NEW IRELAND REGION, P.N.G. (190)

LAT 6.54 237 iPc 58 46.00 -0.6
 MDG 7.05 252 eP 58 55.10 1.3

YYYY 7.24 244 eP 58 55.30 -1.3
 PMG 8.24 220 eP 59 11.00 0.6
 WR2 24.39 225 eP 02 26.70 -0.1
 0.3s 11.70nm 4.9mb
 ASPA 27.25 220 eP 02 57.70 4.2X
 0.3s 4.80nm 4.6mb
 eS 06 54.80
 YAMJ 42.64 345 P 05 05.26 0.0
 S.D. = 1.2 on 6 of 7 obs.

* OCT 27, 1991 21h 49m 37.90 ± 0.89s
 42.711 N ± 8.1km 143.052 E ± 9.2km
 DEPTH = 96.1 ± 14.4 km
 HOKKAIDO, JAPAN REGION (224)

HOOJ 0.37 152 eP 49 52.60 0.0
 eS 50 02.50
 KUSJ 1.28 72 P 50 01.80 0.2
 S 50 19.00
 ASAJ 1.44 348 P 50 03.30 -0.2
 MRRJ 1.49 260 eP 50 04.10 -0.1
 eS 50 24.10
 AOMJ 2.94 224 P 50 24.10 0.6
 OFUJ 3.78 197 P 50 34.00 -1.0
 eS 51 17.40
 NIJJ 6.29 211 P 51 10.20 0.5
 KAKJ 6.87 200 P 51 14.10 -3.6X
 eS 52 28.00
 MAT 7.20 213 (P) 51 22.00 -0.3
 MTMJ 7.33 215 P 51 24.30 0.1
 CHJJ 7.36 207 P 51 24.60 0.2
 IIDJ 8.25 211 eP 51 36.60 -0.1
 S.D. = 0.5 on 11 of 12 obs.

OCT 27, 1991 22h 03m 09.46 ± 1.20s
 2.577 S ± 6.9km 126.303 E ± 10.5km
 DEPTH = 56.8 ± 11.3 km
 4.9mb (13 obs.) 5.4Msz (1 obs.)
 CERAM SEA (270)

MNI 4.25 340 eP 04 14.00 0.8
 eS 04 50.50
 PCI 6.67 284 ePc 04 46.50 -0.7
 WR2 18.98 156 iPc 07 28.10 -1.1
 1.0s 27.30nm 4.4mb
 QIS 22.08 145 iPc 08 01.60 0.3
 0.8s 60.00nm 5.1mb
 i 08 12.40
 ASPA 22.22 161 iPc 08 03.00 0.3
 0.9s 78.00nm 5.1mb
 eS 12 04.30
 WARB 23.47 179 eP 08 16.00 1.1
 CTAO 26.12 133 iPc 08 43.50 3.4X
 1.0s 15.00nm 4.5mb
 Z 21s 12.48um 5.4Msz
 e(SKKS23) 09.00
 IPM 26.24 286 ePc 08 43.00 1.8
 BAL 29.32 197 eP 09 08.50 -0.5
 0.4s 8.00nm 4.7mb
 CHG 34.30 309 eP 09 53.00 0.3
 CHTO 34.30 309 eP 09 53.00 0.3
 0.9s 1.92nm 4.0mb
 TIA 39.53 348 P 10 34.50 -2.0
 XAN 39.93 337 P 10 39.40 -0.5
 0.7s 6.10nm 4.6mb
 SHL 43.52 312 eP 11 09.50 0.0
 LZH 43.81 333 P 11 12.50 0.8
 1.3s 33.00nm 4.9mb
 GTA 48.36 332 P 11 47.90 0.2
 0.8s 9.00nm 4.8mb
 GUN 49.29 311 P 11 55.20 -0.1
 0.7s 28.00nm 5.4mb
 PKI 49.47 310 P 11 55.80 -0.9
 KKN 49.68 310 P 11 58.20 0.0
 0.7s 12.00nm 5.0mb
 DMN 49.72 310 P 11 58.60 0.1
 GKN 50.28 310 P 12 02.80 0.2
 0.7s 20.00nm 5.3mb
 HYB 51.10 295 eP 12 08.00 -0.8
 WMO 51.71 328 P 12 57.00 0.3
 0.6s 5.50nm 4.8mb
 QUE 65.26 305 eP 13 47.00 -0.9
 MAIO 73.05 309 eP 14 36.00 0.3
 INK 96.15 22 eP 16 33.00 1.0
 S.D. = 0.9 on 25 of 26 obs.

OCT 27, 1991 22h 05m 03.58 ± 0.18s

57.761 S ± 6.0km 25.370 W ± 5.1km						0.7s 7.53nm 4.9mb						MSU 120.00 295 ePKPc 23 52.10 0.3					
DEPTH = 33.0km (normal)						LIC 65.87 22 Pc 15 47.62 -0.3						SKP 27 28.30					
5.4mb (19 obs.) 5.5msz (13 obs.)						Z 20s 2.00um 5.3msz						HFS 121.50 22 ePKP 23 51.50 -2.1					
SOUTH SANDWICH ISLANDS REGION (153)						KIC 66.06 23 Pc 15 48.68 -0.4						0.4s 0.90nm					
CENTROID, MOMENT TENSOR (HRV)						0.8s 18.00nm 5.2mb						Z 18s 0.88um 5.4msz					
Data Used: GDSN						TIC 66.28 22 Pc 15 50.16 -0.4						LR 03 54.00					
L.P.B.: 26S, 58C						LKO 69.00 21 Pc 16 07.38 -0.2						DUG 121.63 296 ePKP 23 54.80 0.1					
Centroid Location:						0.9s 61.00nm 5.7mb						SKP 27 30.50					
Origin Time 22:05:11.7 0.2						CUMC 71.81 303 iPc 16 25.60 0.3						NB2 121.87 20 PKP 23 53.70 -0.7					
Lat 57.65S 0.03 Lon 24.26W 0.05						MBO 72.22 9 iPd 16 28.80 1.8						1.1s 8.10nm					
Dep 24.0 1.8 Half-duration 3.4						PURC 72.35 305 iPc 16 29.00 0.5						UPP 122.07 24 iPKP 23 53.50 -1.2					
Moment Tensor: Scale 10**17 Nm						SALC 73.08 305 iPc 16 31.20 -1.2						PRI 122.39 287 ePKP 23 57.24 1.0					
Mrr= 5.22 0.14 Mtt=-0.03 0.20						DIAC 73.15 306 iPc 16 32.50 -0.3						BDT 122.54 111 ePKP 23 56.00 -0.8					
Mff=-5.19 0.16 Mrt= 0.54 0.26						BOG 73.44 309 eP 16 36.00 1.4						FRI 122.56 289 iPKPc 23 56.56 0.2					
Mrf= 1.69 0.35 Mtf= 1.97 0.16						HOOC 73.50 306 eP 16 33.90 -1.0						HVU 122.83 297 ePKP 23 57.00 0.0					
Principal Axes:						ANCC 73.64 306 iPc 16 35.05 -0.4						OBN 123.10 37 ePKP 23 56.00 -0.8					
T Vol= 5.62 Plg=76 Azm=311						BUGC 73.71 306 eP 16 34.90 -1.1						Z 22s 0.80um 5.3msz					
N 0.42 12 164						CLMC 73.84 306 eP 16 35.00 -1.8						N 22s 0.60um					
P -6.04 7 73						TPP 73.97 323 eP 16 38.24 1.0						e 25 27.00					
Best Double Couple: Mo=5.8*10**17						TBH 74.01 323 eP 16 41.17 3.7X						e 26 00.00					
NP1:Strike=149 Dip=39 Slip= 71						HOBC 74.07 307 iPc 16 36.10 -2.0						e 35 40.00					
NP2: 353 53 104						NAI 74.41 67 eP+ 16 48.00 7.9X						e 37 04.00					
						Z 24s 0.78um 4.9mszX						LR 05 20.00					
						PS 26 32.00						PTI 123.48 298 (PKP) 23 58.80 0.6					
AIA 19.72 232 eP 09 36.00 3.2X						TCE 74.43 323 eP 16 40.19 0.3						CMB 123.71 289 iPKPc 23 59.19 0.5					
BMA 37.58 331 eP 12 18.10 1.6						CUM 75.02 320 iP 16 25.00 -18.3X						ARN 123.77 288 ePKPd 24 00.00 1.2					
						GRW 75.77 323 eP 16 48.22 0.5						CHG 123.84 110 ePKP 24 02.50 3.1X					
						SDV 75.92 314 iPc 16 48.60 -0.1						CHTO 123.84 110 ePKP 24 02.10 2.7X					
VAO 38.07 327 ePc 12 22.50 1.8						TOV 76.42 315 eP 16 50.30 -1.1						1.0s 3.75nm					
						MORO 76.87 317 iP 16 54.30 0.4						NUR 124.28 27 ePKP 23 58.10 -0.9					
						BBL 78.88 325 eP 17 05.80 1.0						PCC 124.32 287 iPKPc 23 59.11 -0.7					
						KHZ 78.94 194 eP 17 06.60 1.8						HPI 124.46 298 ePKP 24 01.10 0.8					
						MGG 79.20 325 eP 17 07.00 0.5						SKP 27 35.40					
MAW 38.18 142 eP 12 22.00 1.0						PAG 79.42 325 eP 17 08.70 0.9						BGMT 125.12 300 ePKP 24 02.50 1.1					
1.1s 177.00nm 5.8mb						DEG 79.49 325 eP 17 08.70 0.6						ORV 125.43 289 iPKPc 24 02.97 1.1					
TUH 38.62 70 eP 12 25.00 -0.1						THZ 79.67 194 eP 17 10.20 1.3						SHL 125.73 98 ePKP 24 02.60 -0.6					
CER 38.64 70 iPc 12 24.00 -1.3						UPA 79.68 306 iPd+ 17 09.20 0.0						KAF 126.07 27 iPKP 24 01.30 -1.1					
1.0s 60.00nm 5.3mb						0.6s 40.00nm 5.6mb						0.6s 8.40nm					
PCH 38.67 289 eP 12 23.00 -2.7X						Z 20s 1.06um 5.2msz						WDC 126.73 289 iPKPc 24 03.76 -0.6					
ITB 38.85 316 e(P) 12 28.50 1.4						SEG 79.71 325 eP 17 10.10 0.9						LBFM 126.97 291 PKP 24 04.20 -0.9					
LNV 38.87 288 eP 12 26.00 -1.1						MRW 79.95 195 e(P) 17 11.00 0.7						FFC 128.00 314 ePKP 24 07.00 0.7					
PEL 39.14 289 eP 12 29.00 -0.5						MGH 80.23 324 eP 17 15.00 2.9X						0.8s 14.00nm					
CFA 39.15 293 e(P) 12 27.00 -2.6X						RUZ 81.92 196 eP 17 21.20 0.4						SES 128.52 305 ePKP 24 08.00 0.5					
RTLL 39.49 293 ePd 12 30.30 -2.2						LPR 82.90 322 P 17 26.00 0.0						1.2s 61.00nm					
RTCB 39.53 293 ePd 12 32.80 0.0						PORP 82.92 321 P 17 25.30 -0.7						LSA 128.64 95 PKP 24 09.40 0.4					
PPD 40.35 321 iPc 12 40.10 0.5						CLLP 82.92 321 P 17 25.50 -0.5						SOD 130.60 24 iPKP 24 10.50 -0.4					
						MGP 83.03 320 P 17 25.80 -0.8						iSKP 27 32.30					
						BFD 84.88 170 iPc 17 33.00 -2.9X						LON 130.87 295 ePKP 24 12.30 0.2					
						1.0s 30.00nm 5.4mb						SKP 27 33.00					
RTRS 40.93 293 e(P) 12 44.90 0.7						MUN 84.95 148 eP 17 36.30 0.0						KMI 131.02 109 PKP 24 14.50 1.2					
HVD 44.00 74 iPd 13 10.60 1.1						ADE 86.66 167 eP 17 45.00 0.2						BMW 131.36 294 ePKP 24 12.90 -0.2					
0.7s 17.12nm 5.0mb						CNB 87.17 176 eP 17 35.00 -12.4X						SKP 27 35.00					
FRS 44.60 73 iPc 13 13.20 -0.9						TIO 89.65 15 iP 18 00.90 1.9						PNT 131.63 299 ePKP 24 14.00 0.5					
0.8s 82.09nm 5.6mb						i 18 13.00						GMW 131.90 296 ePKPc 24 17.20 3.2X					
BAO 45.35 329 iPc 13 21.60 1.2						ARMA 92.13 177 eP 18 14.70 4.0X						SKP 27 36.60					
BLF 45.56 74 iPc 13 23.50 1.5						1.0s 16.00nm 5.4mb						MCW 132.71 297 PKP 24 14.30 -1.3					
1.0s 50.00nm 5.4mb						WARB 93.14 155 eP 18 15.40 0.0						GYA 134.09 112 PKP 24 19.40 0.4					
PDCR 46.34 341 iPc 13 28.30 0.3						ASPA 97.05 161 iPc 18 32.50 -0.8						DAG 134.34 2 iPKPc 24 17.40 -0.4					
						1.3s 12.20nm 5.3mb						0.6s 7.33nm					
						Z 21s 0.30um 4.8msz						CD2 136.24 105 ePKP 24 22.30 -0.5					
WIN 46.56 59 iPd 13 36.00 6.0X						ePP 22 28.50						YKA 138.10 316 ePKP 24 15.40 -9.9X					
1.0s 15.00nm 4.9mb						iSKS 29 03.90						0.4s 5.20nm					
Z 22s 7.78um 5.6msz						TOL 98.91 16 eP 18 49.00 8.1X						LZH 140.31 101 ePKP 24 29.00 -1.3					
SEK 46.93 75 iPd 13 34.20 1.4						ePP 22 48.00						Z 25s 1.33um 5.6mszX					
1.0s 50.00nm 5.5mb						eS 30 20.00						PKS 28 03.00					
KSP 48.56 72 iPd 13 45.00 -0.6						WR2 100.76 161 ePd iff 18 49.30 -0.6						XAN 141.37 108 ePKP 24 28.40 -3.7X					
1.0s 43.00nm 5.4mb						0.5s 2.20nm 5.0mb						NJ2 144.60 121 PKPc 24 36.40 -1.2					
SLR 49.38 73 iPd 13 49.00 -2.8X						FVM 109.80 310 ePKP 23 30.00 -2.0						SSE 144.84 125 PKP 24 37.00 -1.1					
1.2s 70.31nm 5.6mb						e 24 03.00						Z 20s 1.93um 5.9msz					
Z 20s 7.09um 5.7msz						TUL 110.31 305 Pd iff 19 39.00 7.0X						MBC 145.95 335 iPKPc 24 39.80 1.1					
SOB1 49.90 340 iPc 13 56.40 0.6						GEC2 111.03 26 ePKPd 23 32.10 -2.1						0.9s 107.00nm					
CNCB 51.65 304 P 14 09.30 -0.4						0.9s 1.39nm						TIY 146.01 108 PKPd 24 40.70 0.7					
						GRF 111.25 25 e(Pd iff 19 32.00 -3.9X						Z 22s 1.70um 5.8msz					
						Z 22s 1.00um 5.4msz						BTO 146.91 102 PKP 24 43.20 1.8					
CSY 51.94 159 eP 14 11.20 0.5						e 24 23.00						TIA 147.19 115 PKPc 24 43.80 2.0					
0.8s 27.30nm 5.3mb						e 33 56.00						INK 147.75 319 ePKP 24 44.00 2.3					
LPB 51.94 304 P 14 11.00 -0.8						KHC 111.27 26 ePKP 23 16.50 -18.0X						0.6s 109.00nm					
Z 24s 3.88um 5.4mszX						Z 22s 1.20um 5.4msz						HHC 147.90 103 iPKPc 24 46.00 3.0X					
BUL 54.19 70 iPd 14 26.50 -1.5						N 22s 0.50um						BALM 148.85 303 PKP 24 40.30 -3.6X					
1.0s 35.00nm 5.3mb						E 22s 1.10um						BJI 149.68 109 ePKP 24 50.50 4.9X					
						e 23 48.00						Z 24s 0.64um 5.3mszX					
						e 24 24.50						KLU 150.62 303 PKP 24 52.80 6.3X					
DRV 55.41 173 eP 14 35.80 -0.4						HYB 111.98 92 ePKP 23 36.00 -0.7						TOA 150.94 304 iPKPc 24 41.40 -5.5X					
						ALO 114.40 297 ePKP 23 40.00 -1.2						PMR 152.11 302 PKP 24 55.40 6.9X					
						Z 18s 1.29um 5.6msz						SLKM 152.27 299 PKP 24 56.00 7.1X					
LSZ 58.11 66 iPc 14 55.10 -1.1						QUE 116.18 75 ePKP 23 45.60 0.9						KDC 152.38 293 PKP 24 56.80 7.8X					
PT10 59.92 298 e(P) 15 15.30 6.7X						MAIO 117.31 65 ePKP 23 46.00 -0.6						FBA 152.39 309 PKP 24 48.60 -0.3X					
NNA 59.94 298 eP 15 08.00 -0.8																	

27d 22h

RND 152.49 306 PKP 24 56.50 7.3X
 RSO 153.45 298 PKP 24 58.70 7.9X
 PDB 153.93 296 PKP 24 58.60 7.4X
 IMA 155.00 311 PKP 24 56.40 3.8X
 SDN 155.49 284 ePKP 24 49.80 -3.5X
 TTA 155.56 303 PKP 25 04.00 10.6X
 MAT 156.14 146 ePKP 24 38.00 -16.9X
 CN2 157.09 115 ePKP 24 59.00 3.1X

Z 20s 2.08um 6.0Msz
 ePKP 25 06.00
 ePKPob25 25.00
 ePP 29 03.00

S.D. = 1.0 on 117 of 155 obs.

% OCT 27, 1991 22h 45m 20.88 ± 0.83s
 39.604 N ± 7.1km 28.524 E ± 6.6km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

DST 0.08 89 iPg 45 22.70 -0.7
 KCT 0.66 349 iPg 45 24.70 0.1
 BNT 0.88 328 ePg 45 37.60 -0.2
 EDC 0.90 326 iPg 45 37.00 -1.1
 IZI 1.03 45 iPn 45 39.90 -0.5
 YLV 1.16 34 ePn 45 42.80 0.2
 HRT 1.50 35 ePn 45 48.60 0.7
 CTT 1.54 357 iPn 45 49.60 1.2
 IZM 1.55 220 ePn 45 49.00 0.3

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

OCT 27, 1991 23h 06m 04.61 ± 0.34s
 0.008 S ± 6.3km 16.659 W ± 6.7km
 DEPTH = 10.0km (geophysicist)
 4.8mb (22 obs.) 4.5Msz (2 obs.)
 NORTH OF ASCENSION ISLAND (407)

LIC 13.16 62 P 09 12.34 -1.9
 Z 20s 2.50um
 TIC 13.36 60 P 09 15.50 -1.5
 KIC 13.47 62 P 09 16.34 -2.1
 MBO 14.31 359 eP 09 25.60 -3.8X
 LKO 14.54 49 P 09 29.20 -3.3X
 PDCR 25.52 240 (P) 11 34.00 -1.2
 SOB1 25.80 249 eP 11 37.40 -0.4
 TIO 32.03 15 iP 12 33.00 -0.8
 IFR 35.07 17 iPc 13 02.00 1.9
 EPRU 38.28 15 iPd 13 28.90 1.9
 ECOG 39.03 17 iPc 13 34.50 1.1
 EHOR 39.09 14 iPc 13 35.00 1.3
 WIN 39.78 127 iPd 13 49.60 9.7X
 1.0s 20.00nm 4.7mb

EBAN 39.79 16 iPc 13 39.60 0.0
 PPD 40.24 235 eP 13 43.60 0.1
 GUD 42.03 14 iPd 14 00.00 1.9
 LSZ 46.82 111 iP 14 39.00 2.0
 LFF 47.34 17 eP 14 42.60 2.1
 1.0s 16.00nm 5.1mb

CER 47.35 138 e(P) 14 39.50 -1.3
 1.0s 46.00nm 5.5mb
 KRI 48.55 113 iPd 14 50.00 -0.5
 BUL 48.60 117 iPc 14 51.50 0.6
 1.0s 10.00nm 4.8mb
 MAF 49.04 18 eP 14 54.90 1.2
 1.2s 20.85nm 5.0mb

KSR 49.23 125 iPd 14 56.50 0.8
 0.8s 10.63nm 4.9mb
 FRS 49.72 130 iPc 14 59.10 -0.1
 0.5s 14.08nm 5.2mb
 LPG 49.81 21 eP 14 59.40 -0.6
 1.2s 13.40nm 4.8mb

LPL 49.82 21 eP 14 59.80 -0.2
 1.0s 8.00nm 4.7mb
 BLF 50.09 129 eP 15 02.00 -0.2
 LBF 50.16 18 eP 15 02.80 0.4
 1.0s 8.00nm 4.6mb
 HVD 50.27 131 iPd 15 04.80 1.2
 0.8s 7.46nm 4.7mb

SLR 50.32 124 iPd 15 03.50 -0.6
 0.9s 42.02nm 5.4mb
 LOR 50.38 18 eP 15 04.20 0.2
 1.2s 16.35nm 4.9mb
 Z 20s 0.52um 4.5Msz

SEK 50.86 127 eP 15 07.50 -0.6
 1.0s 20.00nm 5.0mb

BSF 51.83 20 eP 15 14.80 -0.3
 0.8s 5.35nm 4.5mb
 HAU 51.83 20 eP 15 15.00 0.0
 0.8s 5.35nm 4.5mb
 Z 20s 0.38um 4.4Msz
 CDF 52.49 20 eP 15 19.60 -0.5
 0.8s 5.35nm 4.5mb
 WTTA 53.16 24 e(P) 15 24.00 -1.2
 CNCB 53.23 249 P 15 25.40 -1.2
 LPB 53.28 249 P 15 29.00 2.2
 SKO 54.07 35 eP 15 32.50 0.8
 ENN 54.11 18 e(P) 15 34.00 2.2
 GEC2 55.26 24 ePc 15 38.80 -1.6
 0.7s 1.34nm 4.1mb

BEO 55.43 31 eP 15 40.00 -1.5
 KHC 55.43 24 eP 15 42.60 1.0
 e 15 53.20
 e 17 15.00
 WTS 55.46 17 e(P) 15 42.00 0.4
 ZST 56.21 27 eP 15 50.80 3.7X
 CLL 56.95 22 eP 16 09.00 16.6X
 BRG 56.96 23 e(P) 16 09.80 17.3X
 SPC 58.36 28 e(P) 16 14.50 11.9X
 MLR 58.82 34 eP 16 05.00 -0.8
 VRI 59.49 34 eP 16 10.00 -0.3
 HFS 64.42 16 eP 16 41.90 -1.2
 0.4s 0.90nm 4.3mb
 NB2 64.52 15 P 16 43.20 -0.6
 1.3s 12.30nm 4.9mb

AIA 73.50 199 eP 17 41.70 2.7
 MAIO 78.86 53 eP 18 11.00 1.0
 RLO 80.61 307 eP 18 17.80 -1.5
 VVO 81.09 306 eP 18 20.80 -1.0
 TUL 81.20 306 eP 18 21.10 -1.3
 0.8s 8.70nm 4.8mb
 SIO 81.60 306 eP 18 22.40 -2.1
 MEO 83.37 305 iPc 18 33.00 -0.7
 QUE 84.47 60 eP 18 40.80 1.2
 MAW 86.00 158 eP 18 49.00 2.8X
 1.0s 18.00nm 5.2mb

ALO 89.84 305 eP 19 05.20 -0.4
 ASPA 142.98 132 ePKP 25 36.90 -4.4X
 1.0s 6.00nm
 WR2 145.38 127 iPKPd 25 45.10 -0.3
 1.4s 5.50nm
 ARMA 147.75 161 ePKP 25 52.30 3.2X
 1.0s 25.00nm

OIS 149.07 133 iPKPd 25 56.00 4.7X
 0.8s 21.00nm
 RMO 150.14 153 ePKP 25 59.00 6.2X
 S.D. = 1.3 on 55 of 67 obs.

? OCT 27, 1991 23h 06m 11.79 ± 4.78s
 31.436 S ± 31.0km 71.629 W ± 31.6km
 DEPTH = 33.0km (normal)
 NEAR COAST OF CENTRAL CHILE (135)

JACH 1.52 145 iP 06 36.50 -0.6
 ROCH 1.62 161 eP 06 39.00 0.4
 iS 06 59.50
 PEL 1.88 155 eP 06 42.00 -0.2
 iS 07 05.50
 LCCH 2.03 179 eP 06 44.50 0.1
 TACH 2.29 165 iPd 06 48.50 0.5
 PCH 2.37 157 eP 06 49.50 0.2
 iS 07 17.80

LNK 2.52 176 iPc 06 50.50 -0.8
 iS 07 23.00
 CHCH 2.62 162 iPd 06 53.00 0.2
 CFA 2.90 94 eP 06 56.80 0.1
 S.D. = 0.5 on 9 of 9 obs.

? OCT 27, 1991 23h 17m 38.84 ± 0.97s
 64.860 N ± 10.0km 148.752 W ± 10.4km
 DEPTH = 33.0km (normal)
 CENTRAL ALASKA (1)
 ML 3.0 (PMR).

FBA 0.41 84 iPc 17 48.14 0.0
 RND 1.46 182 eP 18 03.38 0.2
 IMA 2.39 303 ePn 18 16.60 0.0
 PMR 3.29 183 eP 18 29.00 -0.1
 TTA 3.75 242 ePn 18 44.39 8.6X
 eS 19 31.23

S.D. = 0.2 on 4 of 5 obs.

OCT 28, 1991 00h 21m 32.46 ± 0.19s
 44.265 N ± 2.0km 21.456 E ± 1.8km
 DEPTH = 67.1 ± 7.0 km
 4.8mb (23 obs.)
 NORTHWESTERN BALKAN REGION (383)
 MD 4.4 (TTG). Felt in the
 Belgrade area.

BEO 0.91 308 iPg 21 48.50 -1.4
 iSg 22 01.50
 SRE 1.31 72 eP 21 54.00 -1.2
 BZS 1.36 5 iPd 21 53.50 -2.3
 TIM 1.48 354 iPc 21 58.00 0.5
 PLE 1.76 239 iPnd 22 02.28 0.8
 iSn 22 28.01
 IVA 1.79 220 iPnc 22 02.80 0.9
 iSn 22 28.00
 DEV 1.92 32 iPd 22 04.00 0.5
 PVY 1.99 213 iPnd 22 05.64 1.1
 iSn 22 32.52
 DRA 2.05 77 eP 22 08.00 2.7X
 SKO 2.29 180 iPnc 22 09.00 0.3
 1.3s 3635.00nm
 Z 18s 11.94um
 N 10s 11.73um

iPg 22 14.00
 iSn 22 39.50
 iSn 22 40.00
 i 22 42.50
 iSg 22 45.00
 NKY 2.30 232 iPnd 22 09.68 0.7
 iSn 22 41.00
 COZ 2.31 62 eP 22 10.00 0.9
 TTG 2.43 222 iPnd 22 11.48 0.8
 iSn 22 43.50
 BRY 2.52 238 iPnd 22 12.60 0.6
 iSn 22 45.84
 CMP 2.74 67 iP 22 53.00 38.0X
 MTUR 2.74 68 eP 22 15.50 0.4
 BDV 2.76 225 iPnd 22 16.76 1.5
 iSn 22 51.20

ULC 2.81 216 iPnc 22 16.90 0.9
 iSn 22 52.50
 HCY 2.82 231 iPnc 22 17.06 1.0
 iSn 22 53.02
 VAY 3.05 164 iPnc 22 19.20 -0.2
 iSg 23 04.40
 UZD 3.08 320 iPnd 22 19.70 -0.1
 OHR 3.19 189 iPnc 22 22.50 1.2
 KNT 3.28 161 ePc 22 22.16 -0.4
 BUC 3.33 86 eP 22 35.00 11.7X
 GRG 3.38 168 eP 22 24.26 0.3
 MLR 3.42 67 iPd 22 25.50 0.9
 CEI 3.49 11 eP 22 40.00 14.5X
 SRS 3.52 153 ePc 22 25.46 -0.4
 BUD 3.64 333 iPnd 22 26.90 -0.6
 CVO 3.69 63 eP 22 32.50 4.2X
 BMR 3.69 22 iPd 22 28.00 -0.3
 SOH 3.72 157 ePc 22 28.30 -0.4
 ISR 3.73 75 ePd 22 30.50 1.6

HVAR 3.79 255 iPnc 22 31.20 1.5
 THE 3.80 162 ePc 22 29.40 -0.4
 PSZ 3.81 344 iPnd 22 28.60 -1.5
 KZN 3.96 177 eP 22 32.70 0.5
 VRI 4.06 65 iPd 22 35.00 1.4
 BRD 4.17 71 eP 22 43.50 8.5X
 SRO 4.17 329 iPnc 22 34.90 -0.1
 i 22 45.30
 i 22 54.60
 i 23 07.50
 i(Sn) 23 28.00
 Lg 24 15.00

ZAG 4.18 294 ePn 22 35.40 0.3
 iPg 22 49.00
 iSn 23 22.00
 iSg 23 41.30
 ZAG 4.18 294 ePn 22 35.80 0.7
 ePg 22 38.40
 iSg 23 03.60

PTJ 4.22 295 iPn 22 35.70 -0.2
 i(Sn) 23 19.80
 LIT 4.23 169 eP 22 35.78 -0.2
 RDO 4.33 135 eP 22 36.80 -0.5
 OUR 4.35 154 eP 22 36.72 -0.9
 PTT 4.37 51 eP 22 59.00 21.1X
 VBY 4.58 288 ePnc 22 41.30 0.5
 iSn 23 30.60

BRT	4.62	224	P	22 40.70	-0.6		e	24 51.50		LRG	10.93	271	eP	24 07.70	-0.7
			eSn	23 32.70			e	25 30.50			0.7s	33.05nm		5.4mb	
BAI	4.62	229	P	22 41.00	-0.3	I ZM	7.31 141 iP	23 18.90	0.1	Z	22s	0.73um		4.6msz	
PAIG	4.64	158	eP	22 40.58	-1.0	SCE	7.37 296 eP	23 21.40	1.6	HAU	11.13	295 eP	24 11.30	0.3	
LCI	4.71	215	P	22 40.90	-1.7	SOI	7.41 215 P	23 20.00	-0.1		0.6s	10.80nm		5.0mb	
KEK	4.71	196	eP	22 42.70	0.0	PRU	7.42 323 P	23 18.10	-2.1	Z	22s	0.63um		6.1msz	
TLB	4.72	84	iPc	22 43.00	0.2		10s	2.10um		BSD	11.65	341 iP	24 19.30	1.5	
PPE	4.77	64	ePd	22 49.00	5.5X		10s	3.30um			0.6s	8.00nm		4.9mb X	
ALN	4.78	133	ePd	22 43.56	0.0		12s	3.90um					24 25.70		
IGT	4.80	190	ePd	22 45.46	1.5			e	23 29.40		WLF	11.76	303 iPc	24 21.63	2.2
ZST	4.96	324	ePn	22 45.00	-1.1			S	23 42.70		SSB	12.07	281 P	24 22.57	-1.0
			i	22 51.90				i	24 54.20		MEM	12.22	307 iP	24 28.00	2.5
			i	23 02.50		KSP	7.45 334 ePn	23 19.00	-1.7			iS	26 31.30		
			i	23 41.00		WTTA	7.49 297 iPnc	23 23.90	2.4	ENN	12.34	307 eP	24 29.50	2.5	
			i	24 04.30			iPg	24 00.90			0.9s	15.00nm		4.9mb	
SPC	5.00	351	iPn	22 46.90	0.1		iSn	24 45.80		WTS	12.46	314 eP	24 35.00	6.5X	
			i	23 04.60			iSg	25 38.60			0.5s	4.00nm		4.6mb	
			i(Sn)	23 57.80		WET	7.65 313 eP	23 23.40	-0.2	LBF	12.54	289 eP	24 29.80	0.1	
RIY	5.15	285	iPnd	22 49.60	0.9	GPA	7.67 118 eP	23 25.40	1.5		0.8s	14.80nm		4.9mb	
			iSn	23 46.60		MME	7.73 273 P	23 25.10	0.3	SMF	12.60	287 eP	24 30.50	0.0	
CEY	5.20	289	ePn	22 49.90	0.4	OGA	7.77 293 eP	23 26.80	1.4		0.8s	20.15nm		5.0mb	
			e	23 07.40		BDI	7.81 272 P	23 25.10	-0.7	LOR	12.65	290 eP	24 31.40	0.2	
			eSn	23 45.90		SAL	7.87 284 P	23 26.00	-0.6		0.6s	9.90nm		4.8mb	
LJU	5.21	292	ePn	22 50.50	0.9	FUR	8.06 303 eP	23 30.80	1.5	Z	20s	0.43um		5.2msz	
			ePg	23 09.90		ALT	8.31 126 iP	23 32.90	0.2	PLDF	12.72	284 P	24 31.20	-0.9	
			eSn	23 46.00		OSS	8.31 291 ePc	23 34.20	1.4	DOU	12.86	303 iP	24 38.20	4.3X	
DMK	5.22	116	iP	22 49.30	-0.5	BRG	8.33 325 ePn	23 30.50	-2.4	Z	10s	0.70um			
AGG	5.28	173	eP	22 50.38	-0.3		e	23 46.00				i	24 53.10		
VKA	5.36	320	iPnc	22 50.70	-1.0	CIN	8.33 141 eP	23 33.00	0.1	SSF	12.86	289 eP	24 34.60	0.6	
			i	22 54.20		GRB1	8.45 311 iPnc	23 33.60	-1.0		0.8s	8.05nm		4.6mb	
			iSn	23 55.30			1.1s	48.00nm	5.2mb X	AVF	12.94	288 eP	24 35.80	0.8	
VOY	5.63	291	ePn	22 55.60	-0.1	BOB	8.60 278 P	23 36.30	-0.3		0.8s	14.80nm		4.8mb	
			ePg	23 14.80		VDL	8.73 289 ePd	23 40.10	1.6	LBL	12.98	281 P	24 34.59	-1.1	
			eSn	23 57.20		YER	8.81 142 eP	23 38.00	-1.5	PYM	13.14	283 P	24 36.59	-1.1	
TRI	5.64	288	iPnd	22 56.70	1.0	HOF	8.88 316 eP	23 39.30	-1.2	SNF	13.19	304 eP	24 51.00	12.7X	
			iSn	23 57.00		CLL	9.05 324 ePn	23 40.00	-2.8X	BGF	13.28	286 eP	24 40.30	0.9	
			i	24 30.20			i	26 25.10			0.6s	14.00nm		4.8mb	
EZN	5.73	139	iP	22 56.90	0.1	TMA	9.08 286 ePc	23 43.30	0.0	MAF	13.46	285 eP	24 42.00	0.2	
DUI	5.76	246	P	22 57.70	0.4	LLS	9.12 291 ePd	23 45.10	1.2		0.7s	8.80nm		4.5mb	
KRA	5.89	350	iP	22 58.70	-0.3	VAI	9.12 285 P	23 42.60	-1.1	TCF	13.70	285 eP	24 46.10	1.1	
	0.7s	198.00nm		5.6mb X		MOX	9.22 317 ePn	23 43.60	-1.5		0.6s	7.65nm		4.4mb	
			i	23 04.70			1.4s	41.00nm	5.2mb X	LSF	14.18	285 eP	24 52.20	1.0	
CSI	5.91	222	P	22 58.20	-1.2	Z	13s	1.30um	4.4msz X		0.8s	8.05nm		4.2mb	
			eSg	24 01.50		N	17s	2.90um		OBN	14.58	37 eP	24 54.00	-2.3X	
ROI	5.94	220	P	22 59.10	-0.7	E	15s	1.70um				ePP	24 59.00		
			eSn	24 08.80		PGF	9.23 264 eP	23 45.00	-0.3			e	25 06.00		
MMN	5.97	225	P	23 00.80	0.6		0.8s	34.90nm	5.3mb			e	25 11.00		
			eSn	24 09.20		PCP	9.25 276 P	23 44.46	-1.1			eS	27 32.00		
CTT	6.01	119	iP	23 00.10	-0.7	CKI	9.44 276 P	23 46.60	-1.6			i	27 52.00		
MGR	6.02	229	P	23 00.00	-0.9	KAS	9.50 103 eP	23 50.00	1.0			i	29 17.00		
			eSn	24 06.70		FIN	9.51 274 P	23 47.23	-1.9			LR	30 22.00		
EDC	6.15	127	iP	23 02.00	-0.8	ORO	9.65 283 P	23 48.50	-2.6X	UPP	15.79	353 eP	25 11.00	-0.8	
SDI	6.16	248	P	23 02.60	-0.3	ORX	9.65 283 P	23 48.87	-2.3			i	25 17.60		
PRK	6.17	143	eP	23 02.70	-0.3	ZLA	9.67 294 ePc	23 51.50	0.3	NUR	16.38	6 eP	25 20.00	0.7	
AOU	6.18	255	P	23 03.10	-0.1	SLE	9.67 296 ePd	23 50.80	-0.5		0.7s	16.00nm		4.3mb	
BNT	6.18	127	iP	23 02.50	-0.7	BCK	9.69 131 eP	23 47.50	-4.1X			i	25 23.20		
ARV	6.20	266	P	23 02.60	-0.9	MMK	9.70 285 ePd	23 52.70	0.8	HFS	16.57	346 eP	25 22.80	1.2	
ACI	6.28	220	P	23 07.20	2.6X	ROB	9.75 275 P	23 50.30	-2.1		1.1s	20.60nm		4.2mb	
			eSn	24 23.40		IMI	9.77 273 P	23 50.82	-1.9	Z	15s	0.74um		5.7msz X	
AZI	6.29	252	P	23 05.42	0.7	FEL	10.02 296 eP	23 55.64	-0.4			LR	30 41.00		
KBA	6.34	299	iPnd	23 05.10	-0.5	ENR	10.08 275 P	23 55.33	-1.5	NB2	17.88	344 P	25 39.90	2.1	
			i	23 07.40		DIX	10.09 285 ePc	23 59.00	1.8		0.7s	4.10nm		3.7mb X	
			iSn	24 14.60		S8F	10.10 273 eP	23 55.80	-1.4	KAF	18.11	7 iP	25 39.80	-0.8	
CZI	6.42	220	P	23 06.50	0.0		0.6s	48.70nm	5.7mb		1.0s	13.10nm		4.1mb	
			eSn	24 21.20		STV	10.14 275 P	23 56.05	-1.7	EKA	19.26	314 Pd	25 58.50	4.5X	
ISK	6.45	117	eP	23 06.60	-0.3	RSP	10.15 280 P	23 54.10	-3.8X		0.7s	5.90nm		4.0mb	
ASS	6.49	262	P	23 07.20	-0.3	BHB	10.15 278 P	23 54.20	-3.6X	TOL	19.40	266 eP	25 57.00	1.2	
KCT	6.50	126	iPn	23 17.40	9.7X	DOI	10.18 276 P	23 57.40	-0.9	TAB	19.68	100 eP	26 06.00	7.1X	
FVI	6.53	294	P	23 08.40	0.4	PZZ	10.28 276 P	23 57.07	-2.6X	IFR	23.21	252 eP	26 48.00	13.7X	
			eSn	24 18.20		EMS	10.42 285 ePd	24 02.70	1.1	SOD	23.33	5 iP	26 40.40	5.5X	
VVI	6.62	288	P	23 09.90	0.6	RRL	10.49 279 P	24 00.46	-2.2	MAIO	29.88	92 eP	27 42.00	6.2X	
MNS	6.67	257	P	23 09.60	-0.4	LPG	10.51 282 eP	24 01.20	-1.8	LKO	41.78	222 P	29 21.60	4.8X	
RDP	6.88	252	P	23 12.90	0.0		0.8s	125.95nm	6.0mb X	TIC	44.04	220 P	29 39.40	4.1X	
CRE	6.89	268	P	23 13.70	0.6	LPL	10.53 282 eP	24 01.80	-1.3	KIC	44.17	219 P	29 40.40	4.1X	
BHG	6.90	303	iPc	23 14.40	1.2	BNI	10.56 279 P	24 02.50	-1.0	SES	77.07	331 eP	33 27.00	7.3X	
SFI	6.92	270	P	23 13.60	0.2	RSL	10.61 283 P	24 04.39	0.3						
YLV	6.93	120	eP	23 11.60	-2.0	CDF	10.64 298 eP	24 05.40	0.8						
HRT	6.97	117	eP	23 13.60	-0.6		0.6s	5.40nm	4.7mb						
PGD	7.02	270	P	23 15.00	0.0	TNS	10.66 309 ePd	24 03.90	-0.8		%	OCT 28, 1991 01h 04m	44.45±0.67s		
DST	7.09	129	iP	23 16.00	0.2		eS	25 59.10				42.270 N ± 5.6km	18.881 E ± 4.4km		
IZI	7.12	121	eP	23 15.60	-0.7	FRF	10.71 271 eP	24 04.20	-1.2			DEPTH = 10.0km (geophysicist)			
CTI	7.16	288	P	23 17.00	0.2		0.6s	45.10nm	5.7mb			NORTHWESTERN BALKAN REGION	(383)		
KHC	7.28	315	iPc	23 18.00	-0.4	BSF	10.80 294 eP	24 06.10	-0.6			ML 1.8 (TTG).			
							0.6s	14.45nm	5.2mb	BDV	0.04	288 iPgd	04 46.62	0.1	
Z	20s	0.80um					10.85	270 eP	24 05.80			iSg	04 47.60		
N	18s	2.20um				LMR	0.8s	21.50nm	5.2mb	TTG	0.32	60 iPgd	04 51.28	0.1	
E	18s	3.20um													

28d 01h

HCY 0.33 302 iSg 04 56.26
 iPgD 04 51.52 0.1
 iSg 04 56.22
 ULC 0.41 138 iPgD 04 52.80 -0.1
 iSg 04 58.68
 NKY 0.55 9 iPgC 04 55.28 -0.3
 iSg 05 03.54
 BRY 0.68 339 iPgD 04 57.64 -0.3
 iSg 05 08.02
 PVY 0.87 68 iPgC 05 01.18 -0.1
 iSg 05 14.50
 IVA 0.96 51 iPgD 05 02.76 0.0
 iSg 05 17.42
 PLE 1.12 19 iPgD 05 06.12 0.5
 iSg 05 22.78
 S.D. = 0.3 on 9 of 9 obs.

OCT 28, 1991 01h 09m 10.86±0.23s
 33.827 N ± 4.2km 131.222 E ± 3.8km
 DEPTH = 17.0km (13 depth phases)
 5.1mb (61 obs.) 4.9MsZ (4 obs.)
 KYUSHU, JAPAN (235)

One person slightly injured in
 Yamaguchi Prefecture, Honshu.
 Felt (IV JMA) at Fukuoka, Kyushu
 and (III JMA) in southwestern
 Honshu. Also felt on Shikoku.
 Felt (III) at Iwokuni, Honshu.
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 20C
 Centroid Location:
 Origin Time 01:09:15.0 0.6
 Lat 34.07N 0.07 Lon 130.98E 0.09
 Dep 17.3 7.1 Half-duration 1.5
 Moment Tensor; Scale 10**16 Nm
 Mrr=0.92 0.41 Mtt=4.96 0.47
 Mff=-5.88 0.44 Mrt=-1.00 1.53
 Mrf=-1.65 1.35 Mtf=-4.85 0.49
 Principal Axes:
 T Vol= 6.83 Plg= 3 Azm=200
 N 1.30 78 94
 P -8.13 12 291
 Best Double Couple: Mo=7.5*10**16
 NP1:Strike=335 Dip=79 Slip= -6
 NP2: 66 84 -169

SHNJ 0.31 342 iP+ 09 17.90 0.3
 KUMJ 1.33 194 iP+ 09 36.80 2.2
 eS 09 56.10
 SHK 1.40 59 ePd 09 37.00 1.4
 0.4s 1864.41nm
 YONJ 2.30 53 P 09 50.70 2.2
 S 10 18.30
 TKSJ 2.36 85 P 09 50.80 1.4
 S 10 19.20
 KAGJ 2.65 186 iP+ 09 55.40 1.8
 SSE 8.91 255 eP 11 26.20 4.6X
 Z 20s 6.90um
 N 10s 19.00um
 E 11s 8.70um
 pP 11 30.00
 sP 11 32.00
 eS 13 02.00
 SNY 10.01 325 iPc 11 39.40 2.5
 Z 12s 8.46um
 NJ2 10.54 264 Pc 11 46.00 1.8
 1.0s 60.00nm 5.9mb
 Z 14s 3.20um 4.2MsZ
 pP 11 55.00
 MDJ 10.85 354 Pd 11 50.00 1.7
 1.2s 190.00nm 6.3mb X
 Z 12s 2.71um 4.0MsZ
 N 10s 2.40um
 E 10s 7.72um
 CN2 10.93 337 Pc 11 50.00 0.6
 1.0s 36.00nm 5.6mb
 Z 12s 16.00um 4.3MsZ
 N 10s 6.65um
 E 10s 12.20um
 epP 11 55.00
 eS 13 55.00
 TIA 11.80 286 eP 11 59.70 -1.7
 Z 14s 6.43um
 E 11s 4.75um
 BJ 13.53 302 eP 12 24.50 0.1
 1.0s 52.00nm 5.4mb

Z 14s 5.59um 4.9MsZ
 E 14s 4.72um
 WHN 14.66 262 eP 12 39.50 0.3
 pP 12 44.50
 TIY 15.73 290 Pd 12 54.40 1.1
 Z 14s 6.55um
 E 11s 3.40um
 HHC 17.11 300 P 13 12.00 1.2
 1.0s 31.00nm 4.4mb
 Z 14s 7.19um 4.7MsZ
 N 13s 1.99um
 E 14s 4.44um
 BTO 18.17 298 eP 13 25.50 1.5
 1.0s 58.00nm 4.7mb
 N 11s 1.46um
 E 11s 2.26um
 sP 13 33.00
 XAN 18.51 277 Pc 13 29.00 0.9
 N 10s 2.22um
 pP 13 33.10
 sP 13 35.50
 PP 13 44.50
 GYA 22.44 257 P 14 10.40 0.0
 1.0s 58.00nm 5.0mb
 Z 16s 5.50um 5.1MsZ
 LZH 22.53 284 eP 14 10.50 -0.8
 1.6s 160.00nm 5.3mb
 Z 13s 1.58um 4.6MsZ
 PP 14 45.00
 eS 18 16.00
 CD2 23.35 270 eP 14 19.00 -0.3
 Z 12s 4.26um 5.1MsZ
 QIZ 24.09 238 P 14 28.40 2.0
 GTA 25.74 292 Pd 14 42.00 -0.2
 1.0s 22.00nm 4.8mb
 Z 15s 4.07um 5.1MsZ
 E 24s 15.90um
 pP 14 47.10 18km
 PP 15 29.40
 KMI 26.20 258 eP 14 47.50 0.8
 1.5s 70.00nm 5.1mb
 Z 14s 5.20um 5.2MsZ
 pP 14 52.50 18km
 CHG 32.40 251 eP 15 42.40 0.4
 CHTO 32.40 251 eP 15 42.00 0.0
 1.1s 12.37nm 4.8mb
 NST 33.34 245 eP 15 55.00 4.9X
 LSA 34.17 274 P 16 02.80 5.0X
 SHL 34.98 267 iP 16 03.50 -1.0
 WMQ 35.00 300 P 16 04.50 0.2
 1.5s 72.00nm 5.3mb
 Z 16s 1.48um 4.8MsZ
 sP 16 17.20
 SNG 38.77 234 eP 16 31.60 -4.6X
 KKN 39.66 274 P 16 44.20 0.3
 IPM 40.43 231 ePc 16 51.10 1.0
 ADK 41.25 48 P 16 56.00 -0.4
 1.0s 68.00nm 5.3mb
 KHKI 44.50 202 eP 17 27.40 4.2X
 e 19 13.00 595kmX
 NDI 46.02 279 eP 17 35.50 0.3
 MTN 46.41 180 eP 17 36.50 -1.8
 0.7s 102.00nm 5.9mb
 HYB 49.70 264 eP 18 05.90 1.8
 SVW 53.02 36 P 18 30.50 1.7
 1.0s 20.00nm 5.0mb
 POO 53.06 269 eP 18 28.00 -1.6
 WR2 53.56 176 iPc 18 31.30 -1.7
 0.7s 4.70nm 4.6mb
 QUE 53.84 285 eP 18 37.90 2.6X
 RSO 54.49 36 P 18 38.00 -1.7
 OIS 54.67 170 eP 18 39.00 -2.1
 PMR 56.07 35 P 18 50.00 -0.9
 1.0s 60.00nm 5.6mb
 FBA 56.16 30 P 18 51.20 -0.4
 1.3s 27.36nm 5.1mb
 ASPA 57.23 177 eP 18 58.90 -0.7
 0.6s 6.10nm 4.8mb
 BALM 59.39 34 P 19 15.00 0.6
 WARB 59.84 185 eP 19 17.00 -0.7
 INK 60.92 25 eP 19 23.50 -1.1
 MBC 61.85 15 eP 19 30.00 -0.9
 0.9s 32.00nm 5.5mb
 KEV 63.37 338 iP 19 57.50 16.5X
 0.9s 30.40nm
 SOD 64.55 335 iP 19 46.20 -2.5X
 DZM 64.93 144 iPc 19 52.00 0.2

OBN 65.49 321 iPd 19 59.00 4.1X
 1.0s *****nm 8.5mb X
 Z 16s 1.80um 5.4MsZ
 N 14s 1.60um
 ePcP 20 49.00
 ePP 22 23.00
 ePPP 23 30.00
 LR 45 40.00
 SHI 65.50 290 eP 19 55.00 -0.6
 CMS 66.41 166 eP 20 06.70 5.7X
 TAB 66.50 301 eP 20 06.00 4.1X
 KAF 67.15 330 iP 20 03.90 -1.6
 0.7s 29.30nm 5.6mb
 DAG 68.09 353 iPc 20 09.80 -1.4
 0.9s 17.65nm 5.2mb
 NUR 68.65 329 iP 20 13.50 -1.3
 ADE 68.79 173 e(P) 20 23.00 7.0X
 BHD 70.06 297 eP 20 29.00 5.1X
 YKA 70.58 27 eP 20 26.20 -0.4
 1.0s 7.80nm 4.8mb
 UPP 71.93 331 iP 20 33.20 -1.5
 HFS 73.31 332 eP 20 41.40 -1.5
 0.6s 31.80nm 5.5mb
 Z 16s 0.63um 5.0MsZ
 LR 48 48.00
 NB2 73.65 334 P 20 43.60 -1.4
 0.8s 32.80nm 5.4mb
 VRI 75.47 316 eP 21 00.00 4.3X
 BSD 76.03 328 eP 20 57.00 -1.6
 0.7s 14.00nm 5.1mb
 PNT 76.10 40 eP 21 02.00 2.8X
 0.7s 8.00nm 4.9mb
 KRA 76.77 322 eP 21 02.80 -0.1
 1.0s 75.00nm 5.7mb
 e 21 08.00 17km
 SPC 77.14 321 eP 21 06.40 1.2
 i 21 10.90 14km
 PSZ 78.09 320 e(P) 21 11.00 0.7
 KSP 78.11 324 ePc 21 10.00 -0.3
 1.1s 29.00nm 5.2mb
 id 21 15.80 19km
 BZS 78.54 318 eP 20 54.00 -18.7X
 SRO 78.99 321 eP 21 13.50 -1.6
 BRG 79.22 325 eP 21 16.20 -0.1
 e 21 21.00 15km
 CLL 79.38 326 iPd 21 17.00 -0.2
 1.1s 39.00nm 5.3mb
 ZST 79.39 322 eP 21 19.10 1.8
 i 21 23.10 13km
 e 36 04.00
 PRU 79.52 324 eP 21 18.00 0.1
 1.3s 20.90nm 5.0mb
 N 19s 3.80um
 E 20s 3.00um
 e 21 23.40 17km
 UZD 79.61 320 e(P) 21 24.00 5.5X
 VKA 79.75 322 e(P) 21 19.00 -0.2
 e 21 25.00 19km
 SES 79.76 35 eP 21 20.00 0.7
 MOX 80.48 326 eP 21 23.50 0.4
 1.5s 17.00nm 4.8mb
 Z 17s 0.90um 5.2MsZ
 N 22s 1.20um
 E 23s 1.60um
 KHC 80.55 324 P 21 23.70 0.1
 e 21 29.40 18km
 VAY 80.56 314 eP 21 23.30 -0.4
 FFC 80.67 28 iPd 21 24.70 0.7
 0.6s 8.00nm 4.9mb
 GEC2 80.68 324 ePc 21 23.00 -1.3
 0.8s 1.73nm 4.2mb
 epPd 21 28.80 18km
 ORV 80.78 48 P 21 24.50 -0.4
 SKO 80.85 315 eP 21 24.00 -1.2
 GRF 81.31 325 iPc 21 28.00 0.5
 1.0s 10.00nm 4.8mb
 Z 22s 0.60um 4.9MsZ
 e 21 33.50 17km
 PTJ 81.46 320 eP 21 27.00 -1.4
 WTS 81.69 329 eP 21 29.50 0.2
 0.5s 4.00nm 4.7mb
 OHR 81.75 314 eP 21 28.00 -2.0
 CMB 82.38 49 P 21 34.20 0.8
 1.0s 16.50nm 5.1mb
 BGMT 82.68 40 eP 21 49.20 14.2X
 WTTA 82.77 323 e(P) 21 35.00 -0.4
 1.2s 10.00nm 4.8mb

ENN	82.96	329	eP	21	36.00	0.0	INK	20.78	33	eP	24	11.00	-4.2X		0.8s	8.05nm	4.8mb			
	0.9s	9.00nm			4.9mb			0.5s	34.00nm			5.0mb								
EKA	82.99	336	Pd	21	42.40	6.3X	YKA	27.26	51	eP	25	17.80	0.1	SKO	84.74	356	eP	32	08.00	1.3
	1.1s	14.30nm			5.0mb			0.7s	4.90nm			4.3mb		QUE	85.44	317	eP	32	11.70	1.1
MEM	83.04	328	iPc	21	41.09	4.7X	MBC	28.40	21	eP	25	27.50	-0.4	OHR	85.62	356	eP	32	04.00	-7.2X
WLF	83.66	328	Pc	21	41.00	1.4		0.6s	10.00nm			4.7mb		HYB	91.11	302	eP	32	36.50	-1.2
SNF	83.85	329	iPc	21	45.94	5.4X	ALQ	44.21	91	eP	27	36.00	-6.8X	BUL	145.17	338	iPKPd	39	10.60	-0.2
OSS	83.91	324	ePd	21	41.10	-0.1		1.2s	5.08nm			4.2mb		SLR	150.63	336	iPKPc	39	24.00	4.7X
SLE	83.95	325	ePd	21	40.70	-0.5	CN2	45.49	287	eP	27	52.00	-0.6		0.9s	25.21nm				
DOU	84.03	329	P	21	47.70	6.2X		1.0s	11.00nm			4.7mb		KSR	151.08	338	ePKP	39	20.00	0.0
CDF	84.06	326	eP	21	41.50	-0.3	DAG	48.17	10	iPc	28	00.00	27kmX		0.5s	4.05nm				
	0.8s	16.10nm			5.3mb			0.8s	11.94nm			5.0mb		SEK	153.27	336	ePKP	39	30.50	7.4X
LLS	84.35	324	ePd	21	43.10	-0.3	HHC	55.20	293	eP	29	06.80	0.0		0.7s	6.85nm				
VDL	84.38	324	ePd	21	43.70	0.1	BTO	56.21	294	eP	29	14.00	-0.1							
BSF	84.70	326	eP	21	44.70	-0.4	KEV	56.74	355	eP	29	16.00	-1.3	FRS	155.17	339	iPKPd	39	20.00	-5.3X
	0.8s	13.45nm			5.2mb		SOD	59.13	355	iP	29	33.00	-1.1		0.7s	10.27nm				
HAU	84.78	326	eP	21	44.60	-0.8	XAN	61.52	289	eP	29	50.50	-0.4							
	0.8s	6.70nm			4.9mb		GTA	62.50	300	Pc	29	56.80	-0.8	HVD	155.96	338	ePKP	39	50.50	23.8X
Z	20s	0.43um			4.8msz			0.8s	9.00nm			5.0mb			S.D. = 0.8 on 58 of 67 obs.					
TMA	84.95	324	ePd	21	45.80	-0.6	KAF	64.39	354	iP	30	08.80	-0.6	* OCT 28, 1991 02h 34m 56.47±0.87s						
SFI	84.95	321	P	21	49.10	2.9X		0.5s	7.80nm			5.1mb		44.160 N ± 7.4km 21.277 E ± 14.7km						
PGD	85.05	321	P	21	47.70	0.7	WMO	65.06	311	P	30	14.10	-0.1	DEPTH = 10.0km (geophysicist)						
ASS	85.10	320	P	21	48.50	1.4		1.0s	9.80nm			4.9mb		NORTHWESTERN BALKAN REGION (383)						
VAI	85.17	324	P	21	45.90	-1.3	NB2	65.73	2	P	30	17.10	-1.0	MG 3.0 (BEO).						
AQU	85.18	319	P	21	48.20	0.7		1.1s	7.60nm			4.7mb		BEO	0.89	319	ePg	35	13.20	-0.2
MMK	85.43	324	ePd	21	48.90	0.0	NUR	66.08	355	iP	30	19.50	-0.7							
BW06	85.66	40	P	21	50.00	-0.1	HFS	66.68	1	eP	30	22.60	-1.5	DEV	2.07	33	iPc	35	32.00	0.3
	0.9s	4.94nm			4.7mb			0.4s	4.30nm			4.9mb		SKO	2.19	177	ePn	35	34.50	1.1
DIX	85.68	325	ePd	21	50.10	-0.1	CD2	66.75	291	eP	30	25.40	0.3							
DCN	86.01	337	eP	21	51.60	0.3	EKA	70.42	11	Pd	30	47.60	0.3							
LPL	86.41	325	eP	21	53.30	-0.5		0.7s	8.10nm			4.9mb								
	1.0s	12.00nm			5.1mb		WTS	74.60	6	eP	31	12.50	0.5	VAY	2.99	161	ePn	35	43.60	-1.2
LPG	86.42	324	eP	21	53.50	-0.4		0.9s	10.00nm			4.8mb		OHR	3.07	187	ePn	35	46.00	0.1
	0.8s	12.10nm			5.2mb		ENN	75.77	6	ePd	31	19.80	1.1		S.D. = 1.2 on 5 of 5 obs.					
LOR	86.46	327	eP	21	53.70	0.0		0.8s	14.00nm			5.0mb		* OCT 28, 1991 03h 33m 33.17±1.05s						
Z	1.0s	21.00nm			5.3mb		MEM	75.93	6	P	31	20.30	0.7	5.883 N ± 9.8km 82.323 W ± 11.4km						
	20s	0.43um			4.8msz		MOX	76.15	3	ePc	31	21.30	0.4	DEPTH = 10.0km (geophysicist)						
LBF	86.62	327	eP	21	54.30	-0.3		1.1s	9.00nm			4.7mb		4.1mb (1 obs.)						
	0.8s	6.05nm			4.9mb		DOU	76.34	7	P	31	22.70	0.7	SOUTH OF PANAMA (83)						
SSF	86.78	327	eP	21	55.50	0.2	PRU	76.86	1	eP	31	25.30	0.5	UPA	4.14	42	eP	34	37.50	-0.3
	1.0s	14.00nm			5.1mb		WLF	76.88	6	iPc	31	23.27	-1.7	ANCC	5.92	113	iPc	35	03.26	0.1
SMF	86.94	327	eP	21	55.90	-0.2	GRF	77.09	3	iPc	31	27.20	1.0							
	1.0s	14.00nm			5.1mb			0.8s	8.00nm			4.8mb		CLMC	6.07	109	iPc	35	05.65	0.3
AVF	87.05	327	eP	21	56.80	0.2	LDF	77.40	11	eP	31	26.60	-1.3	HOOC	6.16	113	eP	35	06.33	-0.3
	1.1s	24.40nm			5.4mb			0.8s	9.40nm			4.9mb		SALC	6.31	117	eP	35	08.93	0.2
BGF	87.45	327	eP	21	58.60	0.1	SHL	77.43	296	eP	31	28.50	-0.2	HOBC	6.35	104	ePd	35	08.83	-0.4
	1.0s	11.00nm			5.1mb		GRR	77.52	11	eP	31	27.60	-0.9	BUGC	6.36	108	ePc	35	09.80	0.4
MAF	87.84	327	eP	22	00.60	0.2		0.8s	5.35nm			4.6mb		CUMC	6.61	138	eP	35	12.39	-0.9
	1.0s	12.00nm			5.2mb		SPC	77.58	357	eP	31	30.50	1.4	DIAC	6.63	113	eP	35	13.07	-0.2
TCF	87.95	327	eP	22	00.20	-0.7	KHC	77.70	1	eP	31	30.50	0.9	PURC	6.92	121	eP	35	18.52	0.9
	0.8s	10.05nm			5.2mb		GEC2	77.99	1	ePc	31	30.80	-0.5	ALQ	36.50	326	eP	40	41.00	0.2
LPF	88.00	330	eP	22	01.30	0.2		0.6s	2.15nm			4.3mb			1.0s	3.25nm				
	1.2s	26.80nm			5.4mb		CDF	78.20	6	eP	31	32.80	0.4		S.D. = 0.5 on 11 of 11 obs.					
LSF	88.28	328	eP	22	02.20	-0.3		0.8s	5.35nm			4.6mb		OCT 28, 1991 03h 35m 59.29±6.30s						
MFF	88.74	329	eP	22	04.90	0.2	HAU	78.55	6	eP	31	34.60	0.4							
	0.8s	8.05nm			5.1mb			0.8s	5.35nm			4.6mb								
RJF	89.01	327	eP	22	05.40	-0.6	Z	20s	0.08um			4.0msz			33.986 N ± 58.7km 26.687 E ± 11.5km					
	0.8s	9.40nm			5.1mb		ZST	78.64	359	i(P)	31	35.90	1.2		DEPTH = 10.0km (geophysicist)					
Z	20s	0.43um			4.9msz		BSF	78.75	6	eP	31	35.70	0.2		EASTERN MEDITERRANEAN SEA (371)					
CAF	89.05	327	eP	22	05.60	-0.7		0.8s	5.35nm			4.6mb			MD 3.8 (ATH).					
	0.8s	8.05nm			5.1mb		LOR	79.10	8	eP	31	37.50	0.2	NPS	1.55	325	ePg	36	23.80	-3.2X
LFF	89.64	327	eP	22	08.60	-0.4		0.8s	10.05nm			4.9mb		YER	3.40	22	iPn	36	53.40	-0.1
	0.8s	13.45nm			5.2mb		Z	20s	0.05um			3.8msz		CIN	3.78	17	ePn	36	59.00	0.1
GOL	90.06	40	P	22	15.00	3.6X	SSF	79.27	8	eP	31	38.50	0.3	VLI	4.10	313	ePn	37	03.40	0.1
ANMO	92.85	44	P	22	26.40	2.2		0.8s	12.10nm			4.9mb		ATH	4.65	330	ePn	37	11.10	-0.1
	1.0s	5.00nm			4.9mb		MFF	79.36	11	eP	31	39.10	0.4	BCK	4.70	41	ePn	37	12.00	0.0
ALQ	92.85	44	eP	22	26.00	1.7		1.0s	16.00nm			5.0mb			S.D. = 0.1 on 5 of 6 obs.					
	1.0s	3.50nm			4.7mb		LBF	79.39	8	eP	31	38.80	-0.1	* OCT 28, 1991 03h 42m 09.78±1.08s						
SOB1	154.45	342	ePKP	29	16.40	12.6X		0.8s	8.75nm			4.8mb		41.691 N ± 14.2km 13.954 E ± 7.1km						
LPB	155.53	50	PKP	29	16.00	10.3X</														

28c 03h

MNS 1.17 307 P 42 32.80 1.1
 ASS 1.68 326 P 42 40.50 1.1
 S.D. = 1.0 on 7 of 7 obs.

% OCT 28, 1991 04h 10m 39.26±1.17s
 16.062 N ±22.2km 94.285 W ±11.2km
 DEPTH = 33.0km (normal)
 OAXACA, MEXICO (60)

SCX 1.72 67 iP 11 07.50 0.2
 iS 11 30.00
 TPX 2.27 120 eP 11 15.00 -0.1
 iS 11 38.50
 OXX 2.55 294 eP 11 19.00 -0.4
 iS 11 46.00
 IISM 4.14 315 eP 11 40.00 -1.8
 IIT 4.84 308 (P) 11 53.00 1.1
 PPM 5.11 306 (P) 11 57.00 1.0
 III 5.46 296 (P) 12 03.00 2.3X
 S.D. = 1.4 on 6 of 7 obs.

* OCT 28, 1991 04h 48m 03.97±0.78s
 32.529 S ±9.9km 70.725 W ±10.0km
 DEPTH = 90.0km (geophysicist)
 CHILE-ARGENTINA BORDER REGION (127)

JACH 0.19 144 iPd 48 16.70 -0.7
 iS 48 26.50
 ROCH 0.50 209 iPd 48 19.00 -0.2
 iS 48 29.50
 PEL 0.61 177 iPd 48 20.00 0.0
 iS 48 32.00
 IHA 0.92 237 eP 48 23.20 0.2
 iS 48 36.80
 SAN 0.92 177 iP 48 23.30 0.2
 iS 48 38.40
 PCH 1.10 171 iPd 48 25.50 0.2
 iS 48 42.00
 TACH 1.14 189 iP 48 25.50 -0.1
 iS 48 42.00
 LCCH 1.18 217 iPd 48 26.50 0.4
 iS 48 43.50
 CHCH 1.40 178 iPd 48 28.90 0.0
 iS 48 48.30
 LNV 1.53 202 iPd 48 30.20 -0.3
 iS 48 51.00
 ZON 2.00 61 eP 48 37.00 0.3
 eS 49 13.00
 S.D. = 0.4 on 11 of 11 obs.

* OCT 28, 1991 05h 31m 35.50s
 40.263 N 128.318 W
 DEPTH = 5.0km
 3.5mb (1 obs.)
 OFF COAST OF NORTHERN CALIFORNIA (34)
 <BRK>. ML 4.2 (BRK).

FOX 3.31 84 iPd 32 26.34 -2.7
 FHC 3.35 79 iPd 32 26.84 -2.7
 iS 33 03.84
 WDC 4.42 84 iPd 32 41.73 -3.1
 eS 33 30.88
 MIN 5.13 87 iPd 32 51.49 -3.5
 ZSP 5.25 114 iP 32 53.43 -3.1
 ORV 5.29 95 eP 32 54.02 -3.1
 iS 33 54.00
 PCC 5.39 119 ePd 32 55.33 -3.2
 GCC 5.91 121 iPd 33 02.21 -3.6
 ARN 6.04 117 eP 33 04.39 -3.4
 SAO 6.42 121 eP 33 09.52 -3.6
 CMB 6.55 107 iPd 33 13.03 -2.0
 PRS 6.73 123 iPd 33 13.75 -3.6
 LLA 6.84 120 iPd 33 15.75 -3.2
 PRI 7.30 122 iPd 33 22.63 -2.8
 FRI 7.49 113 iPd 33 25.19 -2.8
 TNP 8.89 101 eP 33 45.79 -2.0
 ALO 18.10 100 eP 35 50.30 0.8
 1.0s 4.00nm 3.5mb
 17 obs. associated

? OCT 28, 1991 05h 50m 57.17±5.16s
 5.980 S ±86.1km 151.934 E ±147.7km
 DEPTH = 163.2 ±26.9 km
 4.6mb (2 obs.)
 NEW BRITAIN REGION, P.N.G. (192)

RAB 1.79 8 iPd 51 31.20 0.0

PMG 5.83 234 eP 52 15.50 -7.2X
 eS 53 23.00
 OIS 18.79 218 eP 55 06.00 -0.7
 WR2 22.01 229 eP 55 38.60 -0.4
 0.5s 10.80nm 4.6mb
 iS 55 40.90
 ASPA 24.70 223 eP 56 06.10 1.2
 0.6s 15.30nm 4.7mb
 GEC2 124.59 328 ePKPd 09 38.70 -0.1
 0.5s 0.57nm

S.D. = 1.5 on 5 of 6 obs.
 % OCT 28, 1991 06h 51m 49.05±0.86s
 39.295 N ±5.2km 15.669 E ±8.3km
 DEPTH = 10.0km (geophysicist)
 SOUTHERN ITALY (390)

CZI 0.37 102 P 51 57.40 0.8
 ACI 0.42 82 P 51 57.60 0.0
 MMN 0.64 23 P 52 01.80 -0.1
 CSI 0.68 45 P 52 01.60 -0.9
 eSg 52 11.20
 ROI 0.75 68 P 51 59.90 -3.9X
 MGR 0.85 354 P 52 06.00 0.6
 eSg 52 21.70
 ATN 1.14 188 P 52 10.50 0.0
 eSg 52 26.50
 SOI 1.26 166 P 52 12.00 -0.4
 eSn 52 28.00
 S.D. = 0.7 on 7 of 8 obs.

? OCT 28, 1991 07h 33m 12.74±4.44s
 34.286 S ±26.8km 70.310 W ±19.8km
 DEPTH = 10.0km (geophysicist)
 CHILE-ARGENTINA BORDER REGION (127)

CHCH 0.45 321 iPd 33 22.20 0.2
 iS 33 30.50
 PCH 0.68 346 iPd 33 25.60 -0.8
 TACH 0.82 320 iPd 33 29.20 0.6
 iS 33 42.00
 SAN 0.88 341 iPd 33 29.30 -0.4
 iS 33 43.60
 LNV 0.97 290 iPd 33 30.50 -0.7
 iS 33 45.50
 PEL 1.18 345 iPd 33 35.00 0.2
 iS 33 53.00
 LCCH 1.32 307 iPd 33 36.50 -0.7
 iS 33 56.50
 ROCH 1.43 336 iPd 33 38.50 -0.5
 iS 34 00.00
 JACH 1.62 352 iPd 33 41.60 0.1
 iS 34 04.50
 IHA 1.68 318 e(P) 33 44.00 1.8
 eS 34 09.00
 S.D. = 0.9 on 10 of 10 obs.

? OCT 28, 1991 08h 06m 07.67±2.14s
 5.599 S ±14.4km 152.121 E ±30.8km
 DEPTH = 49.3 ±14.4 km
 5.3mb (3 obs.) 3.9Msz (1 obs.)
 NEW BRITAIN REGION, P.N.G. (192)

RAB 1.40 2 iPd 06 31.20 0.0
 iS 06 51.00
 LAT 5.20 258 eP 07 15.00 -10.0X
 eS 08 00.00
 PMG 6.21 232 eP 07 39.50 0.4
 eS 08 50.00
 OIS 19.20 218 eP 10 29.00 -1.6
 GUA 20.32 339 eP 10 42.60 0.2
 1.0s 224.00nm 5.5mb
 RMO 21.02 188 eP 10 50.00 0.4X
 DZM 21.45 141 iPd 11 11.70 17.7X
 MTN 21.92 249 eP 10 59.50 0.9
 0.3s 37.00nm 5.3mb
 WR2 22.40 229 eP 10 55.90 -7.5X
 0.4s 1.90nm 3.9mb X
 i 11 03.60
 KNA 25.04 244 eP 11 29.00 0.0
 ASPA 25.11 222 iPd 11 30.70 1.1
 0.5s 26.50nm 5.0mb
 Z 21s 0.40um 3.9Msz
 eS 15 59.10
 WARB 31.80 227 eP 12 30.00 0.1
 MRWA 41.42 231 eP 13 55.00 3.8X

CHG 57.73 296 eP 15 54.90 -1.3
 GEC2 124.37 328 ePKPc 25 03.40 0.3
 0.5s 0.80nm
 S.D. = 1.0 on 10 of 15 obs.

? OCT 28, 1991 08h 38m 40.77±1.71s
 28.212 N ±23.6km 51.343 E ±24.9km
 DEPTH = 10.0km (geophysicist)
 4.0mb (2 obs.)
 SOUTHERN IRAN (353)

SHI 1.76 36 eP 39 12.00 0.3
 RYD 5.48 232 ePd 40 04.00 -0.6
 eS 41 08.00
 MJMA 5.89 248 ePd 40 11.00 0.8
 iS 41 23.00
 QASM 7.27 255 eP 40 42.00 12.3X
 eS 41 53.00
 AFIF 8.40 243 eP 40 48.00 2.5X
 eS 42 25.00
 HFS 40.81 332 eP 46 23.60 -0.1
 0.4s 2.20nm 4.2mb
 NB2 42.33 332 P 46 35.80 -0.5
 0.6s 1.20nm 3.8mb
 S.D. = 0.8 on 5 of 7 obs.

? OCT 28, 1991 10h 28m 43.30±13.17s
 4.817 S ±151.1km 143.826 E ±32.4km
 DEPTH = 140.4 ±21.9 km
 4.4mb (3 obs.)
 NEW GUINEA, PAPUA NEW GUINEA (202)

MNDI 1.34 187 eP 29 11.00 0.0
 eS 29 34.00
 PMG 5.63 144 eP 30 06.00 0.0
 WR2 17.64 211 eP 32 40.20 -1.7X
 0.3s 6.00nm 4.4mb
 ASPA 21.04 206 eP 33 17.50 -0.1
 0.4s 4.20nm 4.2mb
 WARB 26.87 216 eP 34 13.10 0.3
 COOL 33.58 217 eP 35 11.90 -0.2
 0.4s 6.00nm 4.7mb
 S.D. = 0.3 on 5 of 6 obs.

% OCT 28, 1991 10h 36m 24.15±1.11s
 44.052 N ±9.7km 12.106 E ±5.6km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)

SFI 0.23 234 P 36 29.00 0.0
 eSg 36 33.20
 RSM 0.28 116 P 36 29.80 -0.2
 eSg 36 33.70
 PGD 0.33 238 P 36 30.70 -0.3
 CRE 0.44 195 P 36 33.10 0.0
 MME 1.02 278 P 36 43.50 -0.1
 ASS 1.06 157 P 36 44.50 0.3
 BDI 1.09 271 P 36 45.00 0.4
 S.D. = 0.3 on 7 of 7 obs.

OCT 28, 1991 10h 36m 27.90±0.31s
 44.184 N ±2.8km 12.224 E ±3.4km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 3.5 (VIE), 3.4 (LDG).

RSM 0.30 147 P 36 35.30 1.1
 eSg 36 39.90
 SFI 0.38 226 P 36 35.00 -0.6
 eSg 36 40.70
 PGD 0.48 230 P 36 36.50 -1.1
 eSg 36 44.00
 CRE 0.59 200 P 36 39.00 -0.9
 eSg 36 48.50
 ARV 0.86 143 P 36 44.50 0.0
 eSg 36 58.50
 ASS 1.16 164 P 36 50.50 0.9
 eSg 37 06.00
 BDI 1.18 265 P 36 51.00 1.1
 eSg 37 07.80
 VVI 1.80 4 P 36 58.00 -1.3
 MNS 1.83 169 P 37 00.00 0.3
 SAL 1.87 320 P 37 00.10 0.0
 TRI 1.88 35 eP 36 59.80 -0.5
 i 37 23.80
 i 37 33.30
 CTI 1.91 348 P 37 00.00 -0.9

RIY	1.93	52	ePn	37	00.90	-0.1	HOBC	6.23	103	ePd	18	38.75	-0.7	OBN	22.15	344	eP	52	18.00	-0.7
AQU	2.02	154	P	37	03.00	0.5	CUMC	6.46	138	ePc	18	42.75	-0.3		0.9s	28.00nm			4.7mb	
VOY	2.19	32	iPnd	37	04.80	-0.2	DIAC	6.49	112	eP	18	43.49	0.2	Z	16s	0.20um			3.6MszX	
			eSg	37	42.00		PURC	6.78	120	eP	18	48.25	0.7				e	52	20.50	
FVI	2.44	9	P	37	08.40	0.0		S.D. = 0.5	on	8	of	8	obs.				i	52	37.00	
SDI	2.74	154	P	37	11.50	-1.2											ePP	52	45.00	
OGA	2.81	343	ePn	37	14.60	0.7											eS	56	16.00	
CKI	2.84	276	P	37	14.80	0.7											ePcP	56	25.00	
PGF	2.86	236	Pn	37	14.40	-0.1														
			Sn	37	48.00															
VAI	2.97	306	P	37	14.50	-1.4														
VDL	3.01	321	ePc	37	17.20	0.5														
TMA	3.05	310	ePd	37	16.90	-0.3														
WTTA	3.11	353	iPnc	37	19.60	1.6														
			iPg	37	28.30															
			iSn	37	56.80															
			iSg	38	11.20															
ORO	3.34	297	P	37	20.00	-1.3														
SBF	3.47	266	Pn	37	24.00	0.9														
			Sn	38	03.40															
LLS	3.51	321	ePc	37	25.00	1.2														
MMK	3.55	303	ePc	37	25.90	1.6														
DIX	3.90	301	ePd	37	30.90	1.5														
FRF	4.08	263	Pn	37	31.00	-0.7														
			Sn	38	18.00															
LPG	4.11	291	Pn	37	32.00	-0.3														
			Sn	38	16.00															
EMS	4.19	299	ePc	37	34.40	0.9														
LMR	4.23	260	Pn	37	33.60	-0.2														
LRG	4.31	262	Pn	37	35.00	0.1														
			Sn	38	22.00															
SLE	4.43	325	ePd	37	35.60	-1.0														
FEL	4.71	323	eP	37	39.69	-1.2														
KHC	5.04	10	ePn	37	43.60	-1.7X														
			e	37	53.00															
			e	38	06.50															
			Sg	38	40.30															
BSF	5.26	316	Pn	37	45.60	-2.9X														
			Sn	38	42.60															
CDF	5.44	323	Pn	37	49.60	-1.5X														
HAU	5.59	315	Pn	37	51.40	-1.8X														
			Sn	38	50.40															
PRU	6.02	14	eP	38	48.00	49.0X														
			Sg	39	02.00															
			e	39	23.50															
SMF	6.39	296	Pn	38	02.20	-2.2X														
LBF	6.43	299	Pn	38	02.40	-2.6X														
			Sn	39	12.80															
MOX	6.48	357	e(P)	38	38.00	32.4X														
LOR	6.62	301	Pn	38	05.30	-2.3X														
			Sn	39	17.00															
SSF	6.76	298	Pn	38	07.20	-2.3X														
			S.D. = 0.9	on	36	of	46	obs.												
%	OCT 28, 1991	10h	48m	40.82±	0.55s															
	43.993 N ± 5.1km		12.107 E ± 4.4km																	
	DEPTH = 5.0km		(geophysicist)																	
	CENTRAL ITALY																			
SFI	0.20	249	Pd	48	45.00	0.1														
			eSg	48	48.30															
RSM	0.26	105	P	48	46.10	0.1														
PGD	0.30	247	P	48	46.90	-0.1														
			eSg	48	53.00															
CRE	0.38	197	P	48	48.40	-0.1														
			eSg	48	57.00															
ARV	0.78	129	P	48	55.40	-1.1														
			eSg	49	08.00															
ASS	1.01	156	P	49	01.50	1.1														
			eSg	49	17.50															
BDI	1.09	274	P	49	01.50	-0.3														
			eSg	49	18.50															
CTI	2.08	351	P	49	17.00	0.1														
FVI	2.64	10	P	49	25.00	0.2														
			eSg	49	55.50															
			S.D. = 0.7	on	9	of	9	obs.												
?	OCT 28, 1991	11h	17m	05.09±	4.11s															
	5.774 N ±10.7km		82.223 W ±39.0km																	
	DEPTH = 10.0km		(geophysicist)																	
	SOUTH OF PANAMA																			
UPA	4.16	40	eP	18	10.00	0.0														
ANCC	5.79	113	iPc	18	33.09	-0.1														
			eS	19	40.90															
HOOC	6.02	112	eP	18	36.94	0.3														
SALC	6.17	117	eP	18	38.63	-0.1														
			S.D. = 0.7	on	9	of	9	obs.												
?	OCT 28, 1991	11h	17m	05.09±	4.11s															
	5.774 N ±10.7km		82.223 W ±39.0km																	
	DEPTH = 10.0km		(geophysicist)																	
	SOUTH OF PANAMA																			
MAIO	10.56	75	eP	50	07.00	10.3X														
			eS	52	36.00															
AYN	10.65	243	eP	50	15.00	17.1X														
			eS	52	00.00															
BADA	11.58	244	eP	50	12.00	1.5														
			eS	52	00.00															
VRI	19.31	313	eP	51	52.00	2.4														
MLR	19.61	312	eP	51	54.50	1.5														
OHR	21.74	296	eP	52	16.50	1.7														
			S.D. = 0.4	on	10	of	10	obs.												
?	OCT 28, 1991	12h	30m	39.72±	1.25s															
	3.446 N ±21.5km		76.245 W ±26.8km																	
	DEPTH = 120.0km		(geophysicist)																	
	COLOMBIA																			
DIAC	0.16	163	eP	30	58.02	0.1														

28d 12h

HOOC	0.39	273	eP	31	12.60	
			eS	30	57.59	0.0
CLMC	0.54	324	eP	30	58.95	0.6
ANCC	0.62	276	eP	30	58.47	-0.3
			eS	31	14.10	
HOBC	0.91	7	eP	31	01.02	-0.3
			eS	31	17.80	
S.D. = 0.5 on 5 of 5 obs.						

? OCT 28, 1991 12h 31m 20.31±4.55s
42.508 N ±40.8km 24.078 E ±10.2km
DEPTH = 10.0km (geophysicist)

BULGARIA (359)
MD 2.9 (THE).

SRS	1.44	195	ePb	31	46.06	-0.3
			eSb	32	07.82	
KNT	1.61	214	ePb	31	48.62	-0.2
			eSb	32	12.10	
VAY	1.63	224	ePn	31	48.60	-0.6
SOH	1.77	198	ePb	31	51.14	-0.1
			eSb	32	16.90	
GRG	1.99	220	ePn	31	54.90	0.4
THE	2.05	204	ePn	31	56.26	1.0
			eSn	32	26.78	
OUR	2.17	182	ePn	31	56.66	-0.3
			eSn	32	26.90	
ALN	2.18	137	ePn	31	57.22	0.1
			eSn	32	26.26	
S.D. = 0.6 on 8 of 8 obs.						

OCT 28, 1991 13h 14m 34.08±0.77s
59.938 N ±6.2km 6.058 E ±6.7km
DEPTH = 10.0km (geophysicist)

SOUTHERN NORWAY (535)
MD 3.0 (BER). Felt at Rosendal.

EGD	0.53	309	eP	14	44.18	-0.7
			eS	14	49.89	
BER	0.57	321	iP	14	45.25	-0.5
ASK	0.70	322	eP	14	47.19	-0.6
			eS	14	55.29	
KMY	0.84	210	eP	14	49.99	-0.2
			eS	15	00.19	
HYA	1.23	3	eP	14	57.49	0.5
			eS	15	14.13	
SUE	1.29	331	iP	14	57.35	-0.7
			eS	15	13.34	
OSG	1.68	291	eP	15	05.28	1.6
			Lg	15	28.15	
FOO	1.74	344	eP	15	05.48	1.0
			eS	15	26.58	
KONO	1.81	98	ePg	15	11.30	5.7X
			eS	15	32.10	
FRO	1.91	343	eP	15	06.71	-0.3
			eS	15	32.38	
MOL	2.74	15	eP	15	19.02	0.2
			eS	15	51.79	
HFS	3.84	84	eP	15	34.00	-0.4
	0.1s			1.00nm		
S.D. = 0.9 on 11 of 12 obs.						

* OCT 28, 1991 14h 15m 16.87±1.17s
38.764 N ±12.4km 21.781 E ±10.6km
DEPTH = 10.0km (geophysicist)

GREECE (364)
MD 3.0 (ATH).

AGG	0.50	59	ePd	15	27.40	0.4
			eS	15	36.50	
VLS	1.10	238	eP	15	37.50	-0.1
LIT	1.44	22	eP	15	43.20	0.1
			eS	16	03.60	
KZN	1.54	360	eP	15	43.20	-1.3
			eS	16	05.50	
KEK	1.81	302	eP	15	50.00	1.7X
OHR	2.46	342	ePn	15	59.00	1.3
KNT	2.54	19	eP	15	58.90	0.0
SRS	2.73	30	eP	16	01.10	-0.5
S.D. = 0.9 on 7 of 8 obs.						

? OCT 28, 1991 14h 21m 43.94±10.35s
7.114 S ±83.3km 129.096 E ±64.7km
DEPTH = 158.1 ±35.1 km
3.8mb (2 obs.)

BANDA SEA (280)

SLKI	2.35	112	iPd	22	24.00	0.0
MTN	6.04	161	eP	23	12.50	0.4
			eS	24	16.00	
KNA	8.59	182	eP	23	46.00	-0.2
			eS	25	15.00	
WR2	13.74	159	eP	24	52.60	-0.8
	0.3s			1.90nm		3.9mb
			eS	27	17.50	
ASPA	17.09	165	iPc	25	35.70	0.7
	0.8s			2.80nm		3.7mb
S.D. = 1.2 on 5 of 5 obs.						

? OCT 28, 1991 14h 59m 42.83±5.26s
3.593 S ±54.6km 141.495 E ±19.5km
DEPTH = 33.0km (normal)
4.0mb (2 obs.)

NEW GUINEA, PAPUA NEW GUINEA (202)

MNDI	3.33	140	eP	00	35.00	0.9
MDG	4.58	111	eP	00	50.90	-0.7
QIS	16.96	186	iPc	03	38.70	-0.7
			eS	06	33.00	
WR2	17.68	203	iPc	03	47.30	-1.1
	0.5s			11.20nm		4.3mb
			i	04	11.70	
			eS	06	57.60	
ASPA	21.26	200	eP	04	30.20	1.5
	1.0s			4.60nm		3.8mb
HFS	111.10	335	ePd	14	26.20	10.9X
	0.2s			1.40nm		
S.D. = 1.6 on 5 of 6 obs.						

% OCT 28, 1991 15h 09m 31.68±0.76s
60.709 N ±5.4km 5.572 E ±7.6km
DEPTH = 10.0km (geophysicist)

SOUTHERN NORWAY (535)
MD 1.5 (BER).

ASK	0.29	220	eP	09	37.94	0.1
EGD	0.47	201	eP	09	41.14	-0.1
			eS	09	48.82	
SUE	0.53	312	eP	09	42.31	-0.1
			eS	09	50.17	
HYA	0.55	33	eP	09	42.79	0.0
ODD1	0.96	146	eP	09	49.89	0.0
			eS	10	03.08	
S.D. = 0.1 on 5 of 5 obs.						

? OCT 28, 1991 15h 15m 34.20±2.68s
41.585 N ±23.2km 29.066 E ±21.8km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

ISK	0.52	181	ePg	15	45.10	0.4
GBZT	0.85	160	ePg	15	49.30	-1.2
			iSg	15	50.30	
HRT	0.89	149	iPg	15	52.10	0.8
DMK	1.01	284	iPg	15	53.30	0.0
			eSg	16	05.80	
S.D. = 1.5 on 4 of 4 obs.						

* OCT 28, 1991 15h 36m 51.00±1.55s
36.675 N ±16.9km 71.046 E ±9.0km
DEPTH = 174.9 ±18.1 km
4.8mb (4 obs.)

AFGHANISTAN-TAJIKISTAN BORD REG.(717)

QUE	7.32	209	iPd	38	35.60	-0.8
	0.7s			67.81nm		5.1mb
			eS	39	53.70	
MAIO	9.31	271	ePn	39	03.00	0.4
			eSn	40	33.00	
NDI	9.51	145	iPc	39	04.50	-0.6
GKN	14.37	123	P	40	07.40	-0.3
DMN	14.94	123	P	40	15.00	0.1
KKK	14.94	122	P	40	14.80	-0.1
PKI	15.17	123	P	40	17.80	0.0
GUN	15.27	121	P	40	20.00	0.8
HYB	20.30	159	eP	41	17.00	2.1
NB2	44.26	323	P	44	44.60	0.2
	0.8s			2.70nm		3.9mb
WR2	82.07	122	iPc	48	52.00	-1.1
	0.5s			9.00nm		4.8mb
ASPA	84.32	125	iPc	49	03.70	-0.8
	0.6s			9.60nm		4.8mb
S.D. = 1.0 on 12 of 12 obs.						

? OCT 28, 1991 17h 52m 12.06±1.46s
1.134 N ±17.5km 96.792 E ±22.4km
DEPTH = 33.0km (normal)
5.0mb (2 obs.)

OFF W COAST OF NORTHERN SUMATERA(705)

BSI	4.58	341	eP	53	21.00	0.1
IPM	5.44	51	ePc	53	55.80	22.8X
KGM	6.58	82	ePc	53	49.40	0.3
SNG	7.11	32	eP	54	50.50	54.0X
KSI	7.49	129	ePd	54	02.00	0.3
			e	54	41.50	
WARB	39.60	135	eP	59	44.00	1.7
WR2	42.37	122	iPc	00	03.20	-2.0
	0.4s			13.20nm		5.0mb
			i	00	30.20	
ASPA	43.68	127	iPc	00	15.00	-0.3
	0.5s			13.80nm		5.0mb
S.D. = 1.5 on 6 of 8 obs.						

? OCT 28, 1991 17h 54m 37.62±2.48s
47.688 N ±25.1km 7.486 E ±7.6km
DEPTH = 10.0km (geophysicist)

SWITZERLAND (544)
ML 2.2 (LDG).

FEL	0.40	62	ePg	54	45.92	0.0
BSF	0.49	287	Pg	54	48.20	0.6
			Sg	54	53.00	
CDF	0.74	349	Pg	54	52.20	0.0
			Sg	55	02.00	
HAU	0.83	293	Pg	54	53.00	-0.7
			Sg	55	04.00	
S.D. = 0.9 on 4 of 4 obs.						

& OCT 28, 1991 18h 11m 53.81s
60.027 N 152.934 W
DEPTH = 110.9km
SOUTHERN ALASKA (2)
<AEIC>.

INE	0.07	298	ePc	12	08.47	0.6
			eS	12	20.29	
RED	0.40	12	iPc	12	09.69	-0.8
			eS	12	21.75	
RS1	0.44	11	iPc	12	10.15	-0.7
RS2	0.45	11	iPc	12	10.21	-0.7
			iS	12	23.98	
RSO	0.45	12	iPc	12	10.18	-0.7
			eS	12	22.84	
REF	0.48	14	iPc	12	10.34	-0.7
RDN	0.50	10	iPc	12	10.40	-0.7
			eS	12	23.94	
RDT	0.61	25	iPc	12	11.07	-0.8
			iS	12	25.00	
PDB	0.68	250	eP	12	12.06	-0.3
AUL	0.69	202	ePc	12	11.79	-0.7
			eS	12	26.62	
AUE	0.71	199	eP	12	11.75	-0.8
AUP	0.71	201	eP	12	11.74	-1.0
			eS	12	27.23	
AUH	0.71	201	eP	12	12.06	-0.6
HOM	0.75	119	eP	12	12.55	-0.4
			eS	12	27.30	
NNL	0.82	88	eP	12	13.91	0.3
XLV	0.84	133	ePd	12	12.71	-1.1
			eS	12	28.50	
CNPM	1.00	120	iPd	12	14.61</	

SKT	2.08	19	ePc	12	27.45	-0.9
PWA	2.21	41	eP	12	30.04	0.0
PLRM	2.44	48	iPc	12	31.87	-1.1
LTI	2.55	87	ePc	12	32.94	-1.6
KNK	2.60	56	eP	12	33.28	-2.0
KNIM	2.62	81	eP	12	32.65	-2.8
GHO	2.63	46	ePc	12	34.38	-1.3
MTU	2.65	89	ePc	12	34.72	-1.2
CUT	2.71	27	eP	12	36.22	-0.4
SML	2.87	50	ePc	12	36.87	-2.0
GLI	3.02	71	eP	12	38.62	-2.2
TTA	3.27	334	eP	12	42.39	-1.8
SCM	3.28	54	eP	12	42.57	-1.9
FID	3.29	74	eP	12	41.65	-2.8
KLU	3.74	64	ePc	12	48.18	-2.5

46 obs. associated

OCT 28, 1991 18h 25m 39.21±0.63s
 40.851 N ± 9.7km 25.686 E ± 5.1km
 DEPTH = 10.0km (geophysicist)
 AEGEAN SEA (365)
 MD 2.9 (THE).

ALN	0.28	80	ePgc	25	44.48	-0.5
			eSg	25	48.40	
EZN	1.13	154	ePn	26	00.00	-0.4
OUR	1.40	249	ePb	26	05.57	0.9
			eSb	26	24.84	
SRS	1.61	280	ePb	26	06.84	-0.9
			eSb	26	29.60	
SOH	1.77	270	ePb	26	09.66	-0.5
			eSb	26	34.24	
PAIG	1.79	240	ePb	26	11.04	0.7
			eSb	26	36.84	
DMK	1.84	57	ePn	26	12.00	1.0
KNT	2.13	279	ePn	26	15.14	-0.2
			eSn	26	43.24	

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

* OCT 28, 1991 19h 48m 11.88±2.66s
 31.851 S ± 19.0km 71.339 W ± 18.4km
 DEPTH = 33.0km (normal)
 NEAR COAST OF CENTRAL CHILE (135)

JACH	1.04	143	iP	48	31.00	0.7
			iS	48	46.00	
ROCH	1.15	166	iPd	48	32.50	0.6
			iS	48	48.50	
IHA	1.20	192	eP	48	33.50	1.1
			iS	48	50.20	
PEL	1.40	157	iPd	48	35.60	0.2
			iS	48	54.00	
LCCH	1.63	187	iPc	48	38.50	-0.1
SAN	1.70	160	iPd	48	39.50	-0.1
			iS	49	01.00	
TACH	1.83	169	iPd	48	41.60	0.1
PCH	1.90	159	iPd	48	42.00	-0.6
			iS	49	06.00	
LVN	2.10	182	iP	48	44.00	-1.4
CHCH	2.16	165	iPd	48	46.00	-0.2
			iS	49	12.50	
ZON	2.29	83	eP	48	48.00	-0.1
			eS	49	14.00	

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

? OCT 28, 1991 19h 56m 29.74±5.04s
 4.903 N ± 53.0km 76.182 W ± 38.0km
 DEPTH = 100.0km (geophysicist)
 COLOMBIA (103)
 MD 2.9 (UVC).

HOBC	0.55	175	eP	56	46.09	-0.1
BUGC	1.01	184	eP	56	51.15	0.5
			eS	57	05.70	
HOOC	1.49	198	eP	56	56.62	0.0
			eS	57	15.40	
ANCC	1.54	206	eP	56	56.81	-0.1
DIAC	1.60	181	eP	56	57.56	-0.3
			eS	57	16.90	

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

? OCT 28, 1991 20h 16m 17.63±3.36s
 4.701 N ± 39.6km 76.112 W ± 39.6km
 DEPTH = 100.0km (geophysicist)
 COLOMBIA (103)
 MD 3.0 (UVC).

HOBC	0.34	184	iPd	16	32.81	0.0
			eS	16	44.70	
HOOC	1.33	203	eP	16	42.87	0.4
			eS	17	02.30	
ANCC	1.40	213	eP	16	42.78	-0.3
DIAC	1.40	184	eP	16	43.11	-0.1
			eS	17	03.20	

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

* OCT 28, 1991 20h 18m 14.68±0.94s
 29.816 N ± 8.3km 142.306 E ± 15.0km
 DEPTH = 33.0km (normal)
 4.3mb (8 obs.) 3.8Msz (1 obs.)
 SOUTH OF HONSHU, JAPAN (211)

KAKJ	6.62	345	eP	19	50.70	-1.4
IIDJ	6.75	328	P	19	57.30	3.2X
			S	21	16.00	
CHJJ	6.81	337	P	19	54.30	-0.5
			S	21	10.60	
MTMJ	7.73	332	P	20	08.50	0.7
NIJJ	7.90	340	P	20	06.80	-3.3X
MDJ	17.88	329	Pd	22	23.70	1.4
CN2	19.36	321	eP	22	39.60	-0.8

1.0s 10.00nm 4.0mb

Z 14s 1.17um 3.7Msz

ep 22 48.00 31kmX

Z 23.65 303 eP 23 25.00 1.2

18s 0.30um 3.8Msz

TIY 25.97 296 eP 23 47.10 1.0

BTO 28.35 301 eP 24 08.10 0.4

XAN 28.57 287 eP 24 09.00 -0.8

0.6s 4.90nm 4.4mb

pP 24 21.00 46kmX

LZH 32.72 291 eP 24 44.00 -2.6

2.0s 28.00nm 4.8mb

GTA 35.98 297 eP 25 14.50 0.0

0.8s 6.00nm 4.6mb

pP 25 26.40 43kmX

CHG 40.79 265 eP 25 54.50 -0.2

CHTO 40.79 265 eP 25 54.20 -0.5

0.6s 2.53nm 4.1mb

WMO 45.12 304 P 26 32.00 2.2

pP 26 43.00 38kmX

GUN 49.03 282 P 27 01.40 0.4

PKI 49.53 282 P 27 04.40 -0.4

KKN 49.57 282 P 27 05.00 0.0

DMN 49.77 282 P 27 06.40 -0.2

GKN 50.06 283 P 27 07.80 -0.8

WR2 50.06 190 iPc 27 07.20 -1.2

0.8s 1.70nm 4.1mb

ASPA 53.79 190 eP 27 37.90 1.6

1.2s 3.50nm 4.3mb

INK 60.53 25 eP 28 23.00 -0.5

NB2 81.13 338 P 30 28.80 0.9

1.2s 4.30nm 4.3mb

LPB 149.19 71 (PKP) 38 11.00 12.9X

CNCB 149.43 72 PKP 38 06.00 7.4X

S.D. = 1.2 on 23 of 27 obs.

% OCT 28, 1991 20h 34m 06.60±1.17s
 18.189 N ± 9.4km 67.130 W ± 10.5km
 DEPTH = 33.0km (normal)
 MONA PASSAGE (89)

MGP	0.18	168	P	34	13.00	0.0
MCP	0.23	5	(P)	34	13.50	0.0
			S	34	18.00	
APR	0.46	55	P	34	17.00	0.4
			S	34	20.50	
PORP	0.49	106	P	34	17.40	0.4
			S	34	22.00	
CLLP	0.54	102	(P)	34	18.00	0.3
			S	34	22.00	
SJG	0.93	95	P	34	23.50	0.1
CPD	1.16	97	P	34	26.50	-0.2
			S	34	28.00	
LPR	1.20	84	P	34	26.40	-0.8

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

& OCT 28, 1991 20h 58m 26.10s
 41.070 N 73.578 W
 DEPTH = 10.0km (geophysicist)
 NEW YORK (472)
 <WES-P>. mbLg 3.0 (WES). Felt
 (IV) at Riverside and Stamford,
 Connecticut. Felt (III) at Cos

Cob and Old Greenwich,
Connecticut.

TBR	0.49	279	eP	58	34.70	-1.4
			eS	58	41.42	
LVNJ	0.94	254	eP	58	42.00	-2.0
			eS	58	53.84	

2 obs. associated

OCT 28, 1991 21h 06m 01.83±0.59s
 44.159 N ± 4.7km 12.212 E ± 5.6km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)

RSM	0.29	143	P	06	08.70	0.8
			eSg	06	14.20	
SFI	0.35	228	P	06	08.50	-0.6
			eSg	06	14.70	
PGD	0.45	231	P	06	10.00	-1.1
			eSg	06	17.60	
CRE	0.56	200	P	06	12.50	-0.8
			eSg	06	22.00	
ARV	0.85	141	P	06	18.40	0.2
			eSg	06	32.00	
MME	1.09	272	P	06	24.00	1.5
			eSg	06	40.00	
ASS	1.14	163	P	06	23.30	0.2
			eSg	06	40.50	
BDI	1.17	266	P	06	24.60	0.9
			eSg	06	41.00	
CTI	1.93	348	P	06	34.50	-0.6
			eSg	06	58.00	
FVI	2.47	9	P	06	41.80	-0.9
			eSn	07	10.00	
WTTA	3.13	353	iPnd	06	52.60	0.3
	0.6s		7.40nm			
			i	07	32.10	
			i	07	44.70	
			i	07	53.50	

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

% OCT 28, 1991 21h 22m 30.30±0.99s
 44.132 N ± 7.6km 12.189 E ± 7.5km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)

RSM	0.28	137	P	22	37.10	1.0
SFI	0.32	229	P	22	36.50	-0.5
			eSg	22	42.30	
PGD	0.42	233	P	22	38.00	-1.0
			eSg	22	45.00	
CRE	0.53	199	P	22	40.60	-0.5
			eSg	22	49.40	
MME	1.07	274	P	22	52.00	1.3
			eSg	23	06.00	
BDI	1.15	267	P	22	52.60	0.8
			eSg	23	08.50	
FVI	2.50	9	P	23	10.50	-1.0
			eSn	23	40.00	

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

OCT 28, 1991 21h 50m 34.91±1.10s
 37.629 N ± 6.1km 72.214 E ± 3.4km
 DEPTH = 86.4 ± 12.1 km
 5.1mb (56 obs.)

TAJIKISTAN (715)

KSH	3.47	57	Pg	51	36.00	8.2X
			Sg	52	16.50	
QUE	8.61	212	iPc	52	40.80	1.8
	0.6s		1030.00nm			6.8mb X
			eS	54	14.30	
NDI	9.85	153	iPd	52	57.00	1.3
	0.5s		169.01nm			6.3mb X
MAIO	10.27	266	iPd	52	59.60	-1.7
	0.8s		49.41nm			5.5mb
			eS	54	34.80	
WMO	13.26	57	P	53	42.50	1.5
	1.0s		81.00nm			5.3mb
GKN	14.17	129	P	53	51.10	-1.9
KKN	14.72	128	P	53	57.80	-2.3
DMN	14.74	129	P	53	58.50	-1.9
PKI	14.96	128	P	54	01.00	-2.3
GUN	15.02	126	P	54	01.70	-2.3
LSA	17.62	111	Pd	54	38.20	1.6
SHI	18.20	250	eP	54	44.00	0.5
BOM	18.67	178	iPc	54	49.60	0.7

28d 21h

POO	19.08	175	eS	58	13.70		LJU	42.95	300	eP	58	28.00	1.3	Z	20s	0.03um	3.2Msz			
	1.0s	272	iPc	54	52.20	-1.2	CEY	43.08	300	e(P)	58	28.90	1.1	LBF	49.86	304	eP	59	19.80	-1.3
			0.0nm		5.0mb		GEC2	43.08	304	ePc	58	27.10	-0.7		1.1s	14.65nm				4.9mb
			iS	58	18.80			0.6s	2.63nm				4.2mb	LOR	49.86	304	eP	59	20.20	-0.9
TAB	20.43	279	eP	55	09.00	1.5			e	00	10.40				0.7s	8.80nm				4.9mb
SHL	20.58	120	iP	55	09.50	0.5	KHC	43.13	305	iPd	58	28.70	0.6	Z	18s	0.05um				3.6Msz
			eS	58	47.00				e	58	39.20			SSB	49.95	301	P	59	21.67	-0.1
HYB	20.89	163	iPc	55	12.70	0.5			e	59	13.50			SMF	50.04	303	iPd	59	21.80	-0.6
	0.8s	84.60nm			5.1mb		CLL	43.25	308	iPd	58	29.10	0.1		0.9s	25.40nm				5.3mb
			i	55	45.00			1.1s	32.00nm				5.1mb	SSF	50.15	304	eP	59	22.60	-0.6
			iS	58	55.50				e	00	08.00				0.7s	9.35nm				4.9mb
GTA	21.64	77	P	55	21.60	2.0	ACI	43.27	290	P	58	30.50	1.1	AVF	50.32	304	iPd	59	23.80	-0.7
	1.0s	23.00nm			4.5mb		MMN	43.28	291	P	58	31.00	1.6		0.7s	29.20nm				5.4mb
LZH	25.30	84	eP	56	07.50	12.5X	CZI	43.36	290	P	58	31.00	1.0	PLDF	50.37	303	P	59	24.00	-1.0
	2.0s	25.00nm					VOY	43.40	300	eP	58	30.70	0.3	COLF	50.45	302	P	59	25.43	-0.2
QBN	29.72	318	iPc	56	34.30	-0.3	WET	43.58	305	iPc	58	32.80	1.1	BGF	50.72	303	iPd	59	26.70	-0.9
	0.7s	*****nm			8.5mb X			1.4s	26.00nm				4.9mb		0.8s	13.45nm				5.0mb
Z	14s	0.10um			3.6MszX		BHG	43.79	303	eP	58	34.00	0.5	LBL	50.84	302	P	59	28.90	0.3
			e	56	43.00			0.8s	16.00nm				4.9mb	MAF	51.00	303	iPd	59	29.60	-0.2
			e	57	18.00		FVI	44.05	301	P	58	35.10	-0.4		0.8s	26.85nm				5.3mb
			ePPP	57	42.00		NB2	44.07	322	P	58	35.00	-0.6	TCF	51.22	303	iPd	59	31.10	-0.3
			eSS	02	27.50			0.7s	38.90nm				5.3mb		0.8s	22.15nm				5.2mb
XAN	29.85	86	P	56	36.40	0.3	MOX	44.19	307	iPd	58	37.40	0.7	LSF	51.68	303	iPd	59	34.00	-0.9
CHG	29.94	121	eP	56	38.50	1.5		1.5s	29.00nm				4.9mb		0.8s	19.50nm				5.2mb
CHTO	29.94	121	eP	56	38.50	1.6			e	00	14.00			CAF	51.73	302	iPd	59	35.10	-0.2
	0.9s	2.56nm			3.9mb X		SDI	44.40	294	P	58	38.30	-0.2		0.8s	15.45nm				5.1mb
GYA	31.09	101	P	56	48.20	1.0	GRF	44.57	306	iPd	58	41.30	1.5	RJF	51.98	302	iPd	59	37.10	-0.1
	1.0s	25.00nm			4.9mb			1.1s	35.00nm				5.1mb		0.8s	10.75nm				4.9mb
TIY	31.67	77	eP	56	53.20	1.1	WTTA	44.70	302	iPd	58	40.50	-0.5	MTHF	52.04	299	P	59	37.25	-0.4
PPE	33.89	299	eP	57	06.00	-5.2X		0.9s	28.90nm				5.1mb	LDF	52.08	307	iPd	59	36.80	-1.0
CLI	34.12	300	eP	57	03.50	-9.7X			ic	58	40.90				1.0s	28.00nm				5.2mb
VRI	34.53	298	ePd	57	17.50	0.8			i	00	26.80			FLN	52.26	307	eP	59	38.00	-1.2
NNT	35.01	128	iPc	57	22.30	1.3			i	00	52.20				0.9s	21.30nm				5.2mb
MLR	35.10	298	ePd	57	23.50	1.8	FUR	44.78	304	iPd	58	42.40	1.0	Z	18s	0.05um				3.6Msz
TIA	35.68	78	eP	57	28.30	1.8	ASS	44.89	296	P	58	43.70	1.3	LPO	52.40	302	eP	59	39.90	-0.4
CMP	35.75	298	ePc	57	33.00	5.9X	CTI	44.93	301	P	58	42.40	-0.3		0.8s	10.75nm				4.9mb
KAF	37.22	326	iP	57	39.10	0.0	SFI	45.25	298	P	58	46.20	1.1	GRR	52.61	307	eP	59	40.60	-1.2
	0.5s	13.70nm			5.1mb		PGD	45.36	298	P	58	47.10	0.9	LFF	52.62	302	iPd	59	41.60	-0.3
SRS	37.36	291	eP	57	41.17	0.5	OSS	45.82	302	ePd	58	49.60	-0.2		0.6s	15.35nm				5.2mb
NUR	37.49	323	iP	57	41.50	0.1	VDL	46.31	302	ePd	58	53.30	-0.5	MFF	52.68	304	iPd	59	41.40	-0.9
PAIG	37.54	289	eP	57	42.93	0.8	LLS	46.55	302	ePd	58	55.00	-0.6		1.0s	16.00nm				5.0mb
SOH	37.60	290	eP	57	43.12	0.5	SLE	46.69	304	ePd	58	56.00	-0.5	LPF	52.83	306	eP	59	41.90	-1.5
KNT	37.87	291	eP	57	45.53	0.7	BOB	46.72	300	P	58	57.50	0.6		0.9s	11.45nm				4.9mb
VAY	38.08	291	iP	57	47.00	0.4	TMA	46.80	301	ePd	58	56.60	-1.0	LESF	52.87	300	P	59	43.25	-0.6
LIT	38.39	290	eP	57	49.17	-0.1	ZLA	46.82	303	ePd	58	56.80	-0.8	MLS	53.04	300	P	59	43.83	-1.2
SPC	38.76	304	iP	57	54.30	1.8	VAI	46.93	301	P	58	56.80	-1.5	EPF	53.52	300	eP	59	46.90	-1.7
			e	58	39.60		CDF	47.36	305	eP	59	01.30	-0.6		0.8s	5.35nm				4.6mb
AGG	38.76	288	eP	57	52.70	0.3	PCP	47.40	299	P	59	02.36	0.1	ENSF	53.60	300	P	59	49.16	-0.1
SKO	38.79	293	iP	57	52.90	0.3	ORX	47.52	301	P	59	01.54	-1.7	DAG	53.95	343	iPc	59	50.50	-0.8
KRA	38.93	306	iPd	57	54.00	0.4	PGF	47.62	297	eP	59	03.80	-0.2		0.9s	26.05nm				5.3mb
	0.7s	68.00nm			5.6mb			0.9s	47.50nm				5.4mb	DMU	54.64	315	eP	59	56.00	-0.6
PSZ	39.08	302	eP	57	56.00	1.0			e	59	03.80	-0.9	DCN	55.01	314	eP	59	58.60	-0.7	
SOD	39.14	334	iP	57	55.20	0.1	FIN	47.72	299	P	59	05.80	1.2	TOL	57.77	298	iPc	00	19.00	-0.1
PVY	39.74	294	iPd	58	01.24	0.7	MEM	47.73	308	P	59	05.20	-0.3	IFR	61.35	292	iPd	00	44.00	0.0
IVA	39.74	294	iPd	58	02.26	1.7	DIX	47.80	302	ePd	59	04.90	-0.4	MBC	66.16	3	ePd	01	14.50	-0.1
PLE	40.02	295	iPd	58	04.38	1.5	BSF	47.80	304	iPd	59				0.7s	66.00nm				5.7mb
UZD	40.10	300	e(P)	58	04.00	0.7		0.9s	37.65nm				5.3mb	IMA	70.75	18	(P)	01	42.20	-1.2
SRO	40.15	302	iP	58	05.10	1.5	WLF	47.82	307	iPd	59	05.92	0.6	INK	72.63	10	ePd	01	53.60	-0.7
	0.8s	52.80nm			5.5mb		ROB	47.94	299	P	59	05.54	-0.8		0.6s	18.00nm				5.1mb
TTG	40.29	294	iPd	58	05.20	0.3	IMI	48.03	299	P	59	05.23	-1.9	FBA	73.11	17	P	01	56.60	-0.6
ULC	40.39	293	iPd	58	05.66	-0.1	HAU	48.05	305	iPd	59	06.80	-0.4		0.8s	13.79nm				4.9mb
NKY	40.40	295	iPd	58	06.90	0.9		0.6s	9.00nm				4.8mb			e	02	30.90		
BDV	40.63	294	iPd	58	07.84	0.1	Z	18s	0.05um				3.5MszX	WR2	81.79	123	iPd	02	44.70	-1.0
BRY	40.71	295	iPd	58	09.42	0.9	EMS	48.12	302	ePd	59	07.70	-0.3		0.2s	9.30nm				5.3mb
UPP	40.80	321	iPd	58	08.70	-0.1	LSD	48.12	301	P	59	08.10	0.0		S.D. = 1.0	on 157 of 163 obs.				
			i	59	44.70		RSP	48.13	301	P	59	05.44	-2.5X		OCT	28, 1991	21h 54m	52.23±	0.45s	
ZST	40.91	303	eP	58	10.50	0.5	BHB	48.21	300	P	59	06.56	-1.9		5.758	N ± 6.4km	82.479	W ± 6.1km		
			e	59	46.10		ENR	48.27	299	P	59	08.31	-0.6		DEPTH =	33.0km	(normal)			
KSP	41.22	307	iPd	58	12.80	0.4	STV	48.33	299	P	59	08.41	-1.0		4.5mb	(5 obs.)				
	0.8s	20.00nm			5.0mb		SBF	48.35	299	iPd	59	09.80	0.2		SOUTH OF PANAMA				(83)	
			e	59	45.50			0.9s	63.90nm				5.5mb	UPA	4.33	42	ePd	55	57.60	0.1
PTJ	42.00	300	iPd	58	19.70	0.7	LPG	48.39	301	iPd	59	10.00	-0.1			S		56	48.00	
BRT	42.13	292	P	58	19.80	-0.3		0.6s	16.70nm				5.1mb	ANCC	6.02	111	iPc	56	20.43	-1.0
HVAR	42.16	296	iPc	58	20.00	-0.3	LPL	48.40	301	iPd	59	10.10	0.0			eS		57	30.00	
PRU	42.40	306	iPd	58	23.20	1.0		0.5s	21.50nm				5.3mb	CLMC	6.18	107	ePc	56	23.79	-0.1
	1.1s	16.50nm			4.8mb		PZZ	48.41	300	P	59	08.51	-1.6	HOOC	6.25	111	ePc	56	24.12	-0.8
			e	59	11.20		RRL	48.52	300	P	59	10.87	-0.2	SALC	6.40	115	ePc	56	26.37	-0.5
			e	00	02.10		BNI	48.56	301	P	59	10.50	-0.7	BUG	6.47	106	ePc	56	27.75	-0.1
VBY	42.55	299	e(P)	58	24.50	1.1	DOU	48.72	308	Pc	59	12.70	0.5	HOBC	6.47	102	ePc	56	26.52	-1.3
BRG	42.70	307	iPd	58	25.00	0.5														

BMG	9.44	82	iPd	58	43.00	
SDV	12.15	74	eP	57	10.00	0.9
TOV	13.19	72	eP	58	01.40	1.5
NNA	18.50	162	iPc	59	07.50	-0.4
	1.0s	21.00nm			4.3mb	
ARE	24.61	154	eP	00	13.00	1.7
LPB	26.32	148	P	00	28.80	1.3
CNCB	26.61	148	P	00	31.00	0.6
FVM	32.88	348	ePc	01	24.40	-1.0
	0.8s	18.94nm			5.0mb	
ALO	36.51	326	eP	01	56.80	0.0
	1.1s	7.28nm			4.5mb	
ANMO	36.52	326	eP	01	57.20	0.4
	0.9s	6.25nm			4.5mb	
BW06	43.97	331	eP	02	58.00	-0.3
	1.4s	12.16nm			4.5mb	
INK	71.03	342	eP	06	09.00	0.5
GKN	144.21	20	PKP	14	26.60	-0.8
KKN	144.62	19	PKP	14	29.40	1.3
GUN	144.69	18	PKP	14	27.40	-1.0
	0.9s	36.00nm				
DMN	144.73	19	PKP	14	28.40	0.0
PKI	144.86	19	PKP	14	27.50	-1.2
	S.D. = 1.0	on 28	of 29	obs.		

? OCT 28, 1991 22h 36m 06.21±3.58s
 4.403 N ±24.7km 76.430 W ±15.3km
 DEPTH = 10.0km (geophysicist)
 COLOMBIA (103)
 MD 2.5 (UVC).

HOBC	0.30	99	iPc	36	12.58	0.1
			eS	36	17.30	
BUGC	0.53	161	eP	36	16.77	-0.3
			eS	36	24.80	
CLMC	0.53	194	eP	36	17.67	0.6
ANCC	0.98	206	eP	36	24.52	-0.4
			eS	36	38.20	
	S.D. = 0.8	on 4	of 4	obs.		

OCT 28, 1991 22h 50m 39.47±0.57s
 16.327 S ±7.4km 178.005 E ±5.9km
 DEPTH = 10.0km (geophysicist)
 4.8mb (4 obs.) 4.1msz (1 obs.)
 FIJI ISLANDS (182)
 ML 4.5 (SVA).

YSA	0.55	228	iP	50	50.10	-0.6
			eS	51	01.60	
MBU	0.94	133	iPc	50	58.90	1.5
			iS	51	13.20	
SGE	1.26	184	eP	51	02.50	-0.4
			eS	51	18.50	
NDE	1.29	102	iP	51	03.10	-0.3
			eS	51	19.50	
NDF	1.52	200	eP	50	57.00	-9.6X
			eS	51	18.80	
KRO	1.65	127	iPc	51	08.30	-0.4
			eS	51	28.20	
VUN	1.73	165	iPc	51	10.10	0.4
			eS	51	32.30	
SVA	1.83	166	iPc	51	11.60	0.4
			eS	51	35.70	
UDU	1.94	85	eP	51	11.20	-1.5
			eS	51	34.50	
TVI	1.97	108	eP	51	12.80	-0.5
			eS	51	37.90	
BRS	25.82	240	iPc	56	15.20	2.4X
	1.0s	15.20nm			4.6mb	
ASPA	41.95	253	iPc	58	31.20	-1.2
	1.0s	10.60nm			4.5mb	
Z	22s	0.30um			4.1msz	
SPA	73.78	180	iPd	02	15.20	-0.5
	1.0s	15.00nm			5.0mb	
LZH	87.22	309	Pc	03	36.50	8.8X
	1.8s	54.00nm			5.5mb	
ZST	144.56	338	e(PKP)	10	17.90	0.0
			e	10	24.60	
KHC	144.91	342	ePKP	10	19.00	0.5
			e	10	25.50	
GRF	145.04	345	ePKP	10	19.60	0.9
	1.3s	8.00nm				
GEC2	145.12	342	ePKPd	10	18.50	-0.4
	0.9s	1.81nm				
CDF	147.11	349	ePKP	10	24.20	2.0

SKO	147.47	327	ePKP	10	25.80	2.9X
OHR	148.42	326	ePKP	10	35.00	10.5X
LOR	148.77	352	ePKP	10	29.70	4.9X
SSF	149.02	353	ePKP	10	30.50	5.3X
	1.1s	9.75nm				
LBF	149.03	352	ePKP	10	30.30	5.0X
	1.2s	13.40nm				
LPL	149.99	348	ePKP	10	30.40	3.4X
	1.1s	8.55nm				
	S.D. = 1.0	on 16	of 25	obs.		

* OCT 28, 1991 23h 12m 19.75±1.16s
 7.495 S ±9.2km 154.360 E ±14.0km
 DEPTH = 171.9 ±13.9 km
 4.4mb (6 obs.)
 SOLOMON ISLANDS (193)

RAB	3.94	326	e(P)	13	20.00	-0.5
			eS	14	08.00	
HNR	5.85	110	eP	13	46.00	0.5
PMG	7.38	255	eP	14	00.00	-5.8X
			eS	15	33.00	
CTAO	14.78	211	iPc	15	43.20	1.5
			eS	19	30.00	
OIS	19.30	226	iPd	16	32.80	-1.1
			i	16	46.50	
RMO	19.63	195	e(P)	16	35.00	-2.2
WR2	23.00	235	iPd	17	10.70	0.2
	0.6s	5.10nm			4.2mb	
CMS	25.16	197	eP	17	31.10	0.3
	1.1s	18.00nm			4.6mb	
ASPA	25.37	228	iPd	17	32.90	0.0
	0.7s	4.30nm			4.2mb	
Z	23s	0.40um			3.9mszX	
XAN	59.63	317	eP	22	05.70	-2.4
CHG	60.56	296	eP	22	16.20	1.6
CHTO	60.56	296	eP	22	16.10	1.6
	1.1s	3.83nm			4.2mb	
CD2	61.66	311	eP	22	18.30	-3.6X
LZH	64.23	316	eP	22	38.20	-0.6
	2.0s	39.00nm			4.9mb	
GTA	68.68	317	Pd	23	06.20	-0.5
	1.0s	9.00nm			4.5mb	
GUN	74.84	301	P	23	44.90	1.1
KKN	75.31	301	P	23	46.60	0.3
WMO	78.76	317	eP	24	05.00	0.2
	S.D. = 1.3	on 16	of 18	obs.		

? OCT 29, 1991 00h 08m 34.58±1.72s
 41.038 N ±11.3km 23.714 E ±14.2km
 DEPTH = 10.0km (geophysicist)
 GREECE-BULGARIA BORDER REGION (363)
 MD 1.7 (THE).

SRS	0.12	311	ePg	08	37.91	0.3
			eSg	08	41.72	
SOH	0.35	232	ePg	08	42.00	0.2
			eSg	08	50.20	
KNT	0.63	282	ePg	08	46.80	-0.4
			eSg	08	56.88	
OUR	0.73	164	ePg	08	48.84	-0.1
			eSg	08	59.76	
	S.D. = 0.6	on 4	of 4	obs.		

OCT 29, 1991 00h 47m 14.89±0.38s
 36.381 N ±3.9km 4.558 W ±3.8km
 DEPTH = 103.8 ±6.8 km
 STRAIT OF GIBRALTAR (385)
 MD 3.2 (RBA).

EJIF	0.74	276	iP	47	33.20	0.0
			eS	47	47.20	
EPRU	0.80	317	iP	47	33.90	0.1
			eS	47	42.90	
LIJA	0.86	307	eP	47	34.00	-0.5
ALJ	0.89	289	eP	47	34.00	-0.9
EGUA	0.92	60	iP	47	33.50	-1.5
			eS	47	45.40	
MOMI	0.94	267	eP	47	36.00	0.8
PLAT	1.00	255	eP	47	36.00	0.1
AFC	1.19	43	iP	47	38.80	0.6
			eS	47	52.70	
ECOG	1.20	41	iP	47	38.80	0.6
			eS	47	52.70	
GIBL	1.21	292	eP	47	38.00	-0.2
SFS	1.33	274	eP	47	40.50	0.9

EHOR	1.54	339	iP	47	41.80	-0.4
			eS	47	59.40	
EBAN	1.88	19	iP	47	46.60	0.0
			eS	48	07.00	
ENIJ	1.98	72	iP	47	48.20	0.3
EHUE	2.13	47	iP	47	50.80	0.9
			eS	48	14.30	
FIG	2.72	286	iPc	47	58.00	0.3
			eS	48	27.50	
EVIA	2.78	35	iP	47	58.70	0.0
			eS	48	27.10	
IFR	2.90	189	iPn	48	00.50	0.3
			iSn	48	32.00	
TOL	3.52	6	e(Pn)	48	15.00	6.4X
			iSn	48	45.40	
			e(Sg)	49	00.00	
EPLA	3.87	342	iP	48	13.50	0.1
			eS	48	53.40	
AVE	3.87	218	iPn	48	13.50	0.2
			i	48	55.80	
			iSn	48	57.50	
GUD	4.27	4	iP	48	18.90	0.0
			eS	49	02.50	
ECHE	4.28	40	iP	48	18.90	-0.1
MTE	4.65	331	eP	49	04.00	39.9X
			i	49	13.50	
ETOR	4.85	23	iP	48	26.60	-0.2
			eS	49	15.80	
TIO	5.89	203	iPn	48	40.50	-0.8
			i	49	30.50	
			iSn	49	42.60	
EROD	5.90	40	iP	48	41.40	0.1
ENSF	7.44	29	P	49	02.14	-0.4
EPF	7.64	28	Pn	49	05.00	-0.2
			Sn	50	22.00	
GRBF	7.98	34	P	49	09.92	0.0
	S.D. = 0.6	on 28	of 30	obs.		

OCT 29, 1991 00h 53m 20.20±0.37s
 45.895 N ±3.0km 2.970 E ±3.5km
 DEPTH = 5.0km (geophysicist)
 FRANCE (538)
 ML 2.6 (LDG).

PYM	0.15	170	Pg	53	22.89	-0.4
			Sg	53	24.98	
AGO	0.19	35	Pg	53	24.46	0.3
			Sg	53	27.67	
MAF	0.43	319	Pg	53	28.40	-0.5
			Sg	53	34.00	
PLDF	0.46	80	Pg	53	29.45	0.0
			Sg	53	36.03	
COLF	0.63	126	Pg	53	32.40	-0.5
			Sg	53	41.90	
TCF	0.66	307	Pg	53	32.70	-0.7
			Sg	53	41.20	
BGF	0.67	353	Pg	53	33.20	-0.4
			Sg	53	42.40	
LBL	0.69	164	Pg	53	33.18	-0.8
AVF	0.93	16	Pg	53	38.20	-0.3
			Sg	53	50.60	
SMF	0.96	39	Pg	53	39.00	0.0
			Sg	53	51.80	
LSF	1.06	290	Pg	53	40.00	-0.7
			Sg	53	54.00	
CAF	1.16	214	Pg	53	42.20	-0.2
			Sg	53	56.80	
RJF	1.18	240	Pg	53	42.00	-0.7
			Sg	53	57.20	
SSF	1.22	17	Pg	53	43.60	0.2
			Sg	53	59.60	
LBF	1.29	32	Pg	53	45.00	0.3
			Sg	54	02.00	
LOR	1.50	24	Pg	53	48.80	0.9
			Sg	54	08.40	
LPO	1.75	227	Pg	53	53.00	1.7
			Sg	54	14.00	
LFF	1.84	239	Pg	53	54.40	1.7

KNT	0.24	9	ePg	33	31.60	0.3
			eSg	33	34.68	
THE	0.30	163	ePg	33	32.41	0.0
			eSg	33	36.60	
GRG	0.34	276	ePg	33	32.92	-0.2
			eSg	33	37.64	
SOM	0.40	105	ePg	33	33.87	-0.4
			eSg	33	39.92	
SRS	0.60	71	ePg	33	37.84	-0.3
			eSg	33	46.72	
LIT	0.87	198	ePg	33	42.80	0.0
			eSg	33	54.56	
OUR	1.04	124	ePg	33	46.34	0.5

S.D. = 0.4 on 7 of 7 obs.
 OCT 29, 1991 05h 23m 02.81± 0.70s
 38.420 N ± 6.6km 21.982 E ± 6.5km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 MD 3.1 (ATH), 3.0 (THE).

AGG	0.66	24	ePg	23	15.61	-0.4
			eSg	23	26.42	
VLS	1.12	258	ePg	23	23.00	-0.8
IGT	1.70	311	ePb	23	34.34	1.7
			eSb	23	57.46	
LIT	1.72	13	ePb	23	33.22	0.2
			eSb	23	57.46	
VLI	1.86	156	ePn	23	35.50	0.5
KZN	1.89	355	ePn	23	36.00	0.5
			eSg	24	03.70	
PAIG	2.00	41	ePn	23	36.42	-0.6
KEK	2.13	308	ePn	23	38.00	-1.0
OUR	2.46	38	ePn	23	43.30	-0.3
SOH	2.62	23	ePn	23	46.10	0.1
			eSn	24	19.18	
KNT	2.83	14	ePn	23	48.78	-0.1
			eSn	24	22.90	

S.D. = 0.8 on 11 of 11 obs.
 OCT 29, 1991 05h 28m 18.00± 0.50s
 44.871 N ± 3.9km 11.322 E ± 6.0km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 3.2 (VIE).

MME	0.81	214	P	28	34.00	0.1
			eSg	28	47.00	
SAL	0.93	323	P	28	35.60	-0.1
			eSg	28	51.20	
BDI	0.96	213	P	28	36.30	0.0
			eSg	28	51.50	
SFI	1.02	158	P	28	37.20	-0.1
			eSg	28	53.70	
PGD	1.04	164	P	28	38.00	0.3
			eSg	28	53.50	
CTI	1.20	11	P	28	39.60	-0.8
			eSg	28	57.00	
CRE	1.32	160	P	28	42.30	-0.2
			eSg	29	01.50	
BOB	1.34	266	P	28	42.50	-0.2
			eSg	29	02.00	
FVI	2.00	30	P	28	51.50	-0.7
			eSn	29	16.50	
WTTA	2.40	5	i(Pn)	29	00.00	1.8
			iPg	29	02.40	
			iSg	29	34.20	
ORO	2.48	289	P	28	59.00	-0.1

S.D. = 0.8 on 11 of 11 obs.
 OCT 29, 1991 06h 21m 55.44± 0.58s
 40.764 N ± 6.6km 27.494 E ± 4.7km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

MFT	0.16	278	ePg	21	59.60	0.4
BNT	0.52	141	iPg	22	07.00	1.0
			iSg	22	14.50	
KCT	0.83	128	iPn	22	11.60	0.0
DMK	1.08	11	iPg	22	16.00	0.3
			iSg	22	30.50	
ALN	1.11	277	ePc	22	16.20	0.0
EZN	1.30	224	iPn	22	18.70	-0.7
IZI	1.57	185	ePn	22	23.00	-0.4
HRT	1.65	87	ePn	22	24.00	-0.6

S.D. = 0.7 on 8 of 8 obs.
 OCT 29, 1991 06h 46m 48.91± 9.58s
 5.067 N ± 81.4km 76.682 W ± 44.7km
 DEPTH = 90.0km (geophysicist)
 COLOMBIA (103)
 MD 3.4 (UVC).

HOBC	0.89	142	iPc	47	07.85	0.0
			eS	47	19.20	
CLMC	1.18	174	iPd	47	11.55	0.3
			eS	47	25.70	
BUGC	1.24	160	eP	47	11.98	0.1
			eS	47	26.50	
ANCC	1.55	187	eP	47	15.52	-0.3

HOOC	1.59	178	iPd	47	15.88	-0.6
			eS	47	33.40	
DIAC	1.83	165	ePd	47	19.31	-0.2
			eS	47	39.40	
SALC	2.08	180	eP	47	23.68	0.8
			eS	47	46.90	

S.D. = 0.5 on 7 of 7 obs.
 OCT 29, 1991 06h 49m 33.94± 0.36s
 40.821 N ± 3.0km 22.942 E ± 3.7km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 MD 2.8 (THE), ML 2.7 (SKO).

THE	0.19	175	ePg	49	38.38	0.2
			eSg	49	41.16	
SOH	0.31	90	ePgc	49	40.77	0.3
			eSg	49	43.32	
KNT	0.34	354	ePgc	49	40.96	0.0
			eSg	49	44.88	
GRG	0.43	288	ePg	49	42.64	-0.1
			eSg	49	48.48	
VAY	0.57	331	iPg	49	45.00	-0.5
			iSg	49	53.20	
SRS	0.57	59	ePgc	49	44.93	-0.7
			eSg	49	52.56	
LIT	0.80	206	ePgc	49	49.33	-0.1
			eSg	50	02.00	
OUR	0.93	121	ePg	49	51.88	0.2
			eSg	50	04.28	
MMB	0.97	37	iPgc	49	52.00	-0.4
KKB	1.05	6	iPg	49	53.00	-0.7
PAIG	1.06	148	ePg	49	53.56	-0.3
			eSg	50	08.28	
RZN	1.59	57	iPd	50	03.00	0.6
SKO	1.61	316	ePn	50	03.50	1.0
VTS	1.78	6	eP	50	06.00	0.9
AGG	1.86	195	ePb	50	05.68	-0.4

S.D. = 0.6 on 15 of 15 obs.
 OCT 29, 1991 08h 21m 05.73± 1.20s
 23.824 N ± 8.3km 120.741 E ± 12.3km
 DEPTH = 10.0km (geophysicist)
 TAIWAN (244)

TWK	0.60	203	iPd	21	17.90	0.0
			eS	21	27.10	
TWF1	0.69	133	iPd	21	19.50	0.0
			eS	21	29.30	
TWD	0.82	72	iPc	21	21.40	-0.2
			eS	21	33.40	
TWC	1.28	52	ePd	21	29.70	0.3
TATO	1.33	31	iP	21	30.20	-0.1
			eS	21	48.00	
SSE	7.25	3	eP	23	02.00	7.7X
			eS	24	07.00	

S.D. = 0.3 on 5 of 6 obs.
 OCT 29, 1991 08h 55m 04.96± 0.71s
 40.354 N ± 6.9km 29.877 E ± 5.4km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

IZI	0.31	267	iPg	55	10.50	-0.9
GPA	0.34	101	ePg	55	11.30	-0.6
YLV	0.44	299	iPg	55	13.50	-0.4
GBZT	0.54	323	iPgc	55	16.80	0.8
			iSg	55	24.10	
KCT	1.17	265	iPn	55	26.50	-0.3
DST	1.22	232	iPn	55	27.70	0.1
			eSg	55	45.40	
ALT	1.31	172	iPn	55	30.00	0.7
BNT	1.50	271	ePn	55	32.00	0.1
EDC	1.54	270	ePn	55	33.00	0.5

S.D. = 0.7 on 9 of 9 obs.
 OCT 29, 1991 09h 24m 40.07± 1.55s
 44.012 N ± 12.6km 148.245 E ± 12.3km
 DEPTH = 79.0 ± 12.6 km
 5.2mb (4 obs.)
 KURIL ISLANDS (221)

KUSJ	2.73	252	eP	25	20.90	-1.6
			eS	25	50.40	
HOOU	3.97	248	eP	25	40.30	0.5
			eS	26	25.50	
ASAJ	4.04	273	eP	25	41.20	0.4

MRRJ	5.48	256	eP	26	01.90	1.1
			eS	27	02.30	
AOMJ	6.78	242	eP	26	19.40	0.5
OFUJ	6.97	227	eP	26	20.70	-0.8
			eS	27	36.80	
YAMJ	8.51	230	eP	26	42.60	-0.1
KAKJ	9.95	221	eP	27	02.90	0.7
			eS	28	45.40	
MTMJ	10.88	231	eP	27	14.50	-0.5
CHG	48.12	255	eP	33	15.00	1.2
GUN	51.79	274	P	33	42.10	-0.1
	0.8s	26.00nm			5.3mb	
KKN	52.29	274	P	33	45.40	-0.4
	0.7s	13.00nm			5.1mb	
PKI	52.32	274	P	33	46.20	0.0
DMN	52.52	274	P	33	47.40	-0.2
	0.7s	19.00nm			5.2mb	
GKN	52.63	275	P	33	47.60	-0.7
FFC	65.02	37	eP	35	13.00	-0.5
	1.0s	23.00nm			5.1mb	
BGMT	66.18	50	eP	35	22.10	0.7
			e	35	35.70	

S.D. = 0.8 on 17 of 17 obs.
 OCT 29, 1991 10h 03m 33.99± 0.55s
 40.826 N ± 4.4km 22.924 E ± 5.2km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)
 MD 2.2 (THE).

THE	0.20	171	ePg	03	38.21	-0.1
			eSg	03	40.54	
SOH	0.33	91	ePgc	03	40.57	-0.2
			eSg	03	43.70	
KNT	0.34	357	ePgc	03	40.80	-0.1
			eSg	03	45.30	
GRG	0.42	288	ePg	03	42.58	0.1
			eSg	03	48.50	
VAY	0.56	332	iPg	03	44.80	-0.6
			iSg	03	53.20	
SRS	0.58	60	ePg	03	44.82	-1.0
			eSg	03	52.54	
LIT	0.80	205	ePg	03	49.18	-0.3
			eSg	04	01.14	
OUR	0.94	121	ePg	03	53.22	1.3
			eSg	04	04.78	
MMB	0.97	38	iPg	03	52.00	-0.5
KKB	1.05	7	iPd	03	57.00	3.3X
PAIG	1.07	147	ePg	03	53.70	-0.4
			eSg	04	08.30	
VTS	1.78	7	eP	04	07.00	1.9

S.D. = 0.9 on 11 of 12 obs.
 OCT 29, 1991 10h 37m 30.61± 1.13s
 40.542 N ± 10.7km 21.389 E ± 11.2km
 DEPTH = 10.0km (geophysicist)
 GREECE (364)

OHR	0.72	322	iPg	37	44.70	-0.2
			iSg	37	56.40	
LIT	0.95	117	eP	37	48.00	-0.7
			eS	38	02.90	
KNT	1.30	61	eP	37	55.10	0.4
			eS	38		

* OCT 29, 1991 11h 27m 35.61±1.15s
3.940 S ±10.9km 131.368 E ±14.3km
DEPTH = 33.0km (normal)
4.5mb (4 obs.)
IRIAN JAYA REGION, INDONESIA (196)

AAI 3.18 274 ePd 28 25.10 0.7
eS 29 03.50
MTN 8.85 182 eP 29 45.00 0.7
eS 31 13.00
KNA 12.01 192 eP 30 26.50 -1.0
0.2s 24.00nm 6.0mb X
eS 32 37.00
WR2 16.18 170 iPc 31 19.30 -2.9X
0.2s 12.60nm 4.7mb
i 31 22.10
iS 34 14.10
TRT 19.01 258 iPc 31 57.60 0.2
ASPA 19.76 173 iPd 32 07.30 1.3
0.5s 40.80nm 5.0mb
eS 35 40.60
MBL 20.46 212 eP 32 11.50 -1.8
0.3s 5.00nm 4.4mb
WARB 22.58 191 eP 32 37.00 2.4X
0.3s 4.00nm 4.4mb
eS 36 43.00
MRWA 29.06 208 eP 33 35.50 0.3
CHG 39.12 306 eP 35 10.00 8.0X
MAT 40.78 8 (P) 35 15.00 -0.4
CNCB 151.88 138 PKP 47 31.80 8.1X
S.D. = 1.2 on 8 of 12 obs.

OCT 29, 1991 12h 23m 16.92±0.81s
46.133 N ± 7.7km 12.327 E ± 6.7km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
MD 2.4 (LJU).

VVI 0.16 156 P 23 20.50 -0.2
eSg 23 23.60
CTI 0.48 260 P 23 26.20 -0.5
eSg 23 34.00
FVI 0.56 34 P 23 26.80 -1.4
eSg 23 34.30
TRI 1.09 112 ePg 23 38.00 0.6
iSg 23 53.70
VOY 1.10 95 ePg 23 37.80 0.2
eSg 23 53.90
WTTA 1.23 337 iPg 23 41.10 1.2
iSg 23 57.00
S.D. = 1.2 on 6 of 6 obs.

* OCT 29, 1991 12h 26m 04.26±1.65s
45.328 N ±15.3km 14.724 E ± 6.1km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
MD 3.1 (LJU).

RIY 0.24 274 iPg 26 08.70 -0.7
iSg 26 12.80
VBY 0.41 65 e(Pg) 26 12.40 -0.3
iSg 26 16.50
CEY 0.46 333 ePg 26 12.90 -0.7
eSg 26 20.50
LJU 0.73 349 ePg 26 19.30 0.7
e 26 22.60
eSg 26 29.50
TRI 0.78 300 ePg 26 20.00 0.6
iSg 26 30.50
VOY 0.91 321 ePg 26 20.40 -1.4
eSn 26 35.80
PTJ 1.04 56 ePg 26 24.00 0.1
iSg 26 38.50
FVI 1.85 314 P 26 38.00 1.7
eSg 26 44.00
S.D. = 1.2 on 8 of 8 obs.

% OCT 29, 1991 12h 36m 09.10±0.89s
11.305 N ± 5.3km 60.817 W ±10.4km
DEPTH = 10.0km (geophysicist)
WINDWARD ISLANDS (95)
MD 3.8 (TRN).

TPR 0.12 161 iP 36 11.78 -0.4
PIG 0.14 189 iP 36 12.57 0.1
eS 36 16.35

TBH 0.85 197 iP 36 25.93 0.4
eS 36 34.16
TRN 0.87 221 eP 36 25.67 -0.1
eS 36 38.84
TCE 1.10 237 eP 36 29.68 -0.1
eS 36 45.21
TPP 1.16 212 eP 36 32.32 1.5X
eS 36 51.93
GRW 1.19 316 eP 36 31.08 -0.2
SVB 2.00 348 eP 36 43.57 0.2
eS 37 08.29
S.D. = 0.3 on 7 of 8 obs.

% OCT 29, 1991 12h 49m 26.06±0.58s
43.995 N ± 5.5km 12.137 E ± 4.8km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

SFI 0.22 250 P 49 30.50 -0.3
eSg 49 34.50
RSM 0.24 106 P 49 30.90 -0.2
eSg 49 35.50
PGD 0.32 248 P 49 32.50 -0.3
eSg 49 38.50
CRE 0.39 200 P 49 34.50 0.4
eSg 49 41.50
ARV 0.77 130 P 49 40.00 -1.0
eSg 49 54.00
ASS 1.00 157 P 49 46.20 1.1
eSg 50 02.00
BDI 1.11 274 P 49 46.70 -0.3
eSg 50 03.40
CTI 2.08 351 P 50 02.50 1.0
FVI 2.64 10 P 50 09.00 -0.3
S.D. = 0.8 on 9 of 9 obs.

OCT 29, 1991 12h 50m 00.25±0.75s
43.448 N ± 4.6km 5.407 E ± 5.5km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
ML 2.6 (STR).

GELF 0.07 167 Pg 50 10.18 -0.4
TREF 0.18 354 Pg 50 11.91 -0.3
PUYF 0.23 68 Pg 50 12.29 -0.9
BERF 0.25 123 Pg 50 13.49 -0.1
CDR 0.35 49 ePg 50 14.70 -0.7
i(Sg) 50 19.90
PRAF 0.40 334 Pg 50 16.57 0.2
VILF 0.46 29 Pg 50 17.32 -0.3
TAVF 0.50 70 Pg 50 17.91 -0.5
CALN 1.12 74 Pg 50 29.89 0.6
MVIF 1.34 70 Pn 50 33.49 0.4
Sg 50 52.34
TOUF 1.45 66 Pg 50 35.00 0.3
Sg 50 56.37
AURF 1.46 72 Pn 50 34.99 0.2
AUTN 1.56 69 Pn 50 36.57 0.2
SAOF 1.65 70 Pn 50 37.48 0.1
DOI 1.70 51 P 50 39.20 1.1
eSn 51 02.00
BNI 1.84 29 P 50 43.70 3.4X
S.D. = 0.6 on 15 of 16 obs.

% OCT 29, 1991 13h 39m 20.99±1.93s
2.742 N ± 7.2km 76.065 W ±18.4km
DEPTH = 20.0km (geophysicist)
COLOMBIA (103)
MD 3.2 (UVC).

PURC 0.51 215 iPd 39 31.59 0.0
DIAC 0.56 346 ePd 39 32.28 0.1
eS 39 39.00
SALC 0.67 290 ePc 39 33.87 -0.1
HOQC 0.92 322 ePc 39 38.23 -0.1
eS 39 49.40
ANCC 1.11 314 iPc 39 41.64 0.3
CLMC 1.24 336 ePd 39 43.11 -0.2
eS 39 57.90
S.D. = 0.2 on 6 of 6 obs.

OCT 29, 1991 14h 44m 08.44±0.59s
39.988 N ± 5.0km 23.313 E ± 4.6km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
MD 2.2 (THE).

PAIG 0.29 102 ePg 44 14.52 0.0
eSg 44 18.72
OUR 0.62 56 ePg 44 20.72 -0.2
eSg 44 29.64
LIT 0.64 280 ePg 44 20.85 -0.5
eSg 44 30.80
THE 0.70 338 ePg 44 22.24 0.1
eSg 44 30.96
SOH 0.83 2 ePg 44 24.28 -0.3
eSg 44 36.40
SRS 1.15 11 ePg 44 29.94 0.0
eSg 44 46.92
GRG 1.19 325 ePb 44 31.00 0.3
eSb 44 47.24
KNT 1.21 345 ePb 44 31.30 0.3
eSb 44 47.60
AGG 1.23 219 ePb 44 31.48 0.2
eSb 44 50.04
S.D. = 0.3 on 9 of 9 obs.

% OCT 29, 1991 15h 05m 45.28±0.70s
42.752 N ± 6.2km 12.978 E ±10.1km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

ASS 0.39 324 P 05 53.30 -0.1
eSg 06 00.20
MNS 0.43 211 Pc 05 53.50 -0.5
eSg 06 00.50
AQU 0.51 142 P 05 54.80 -0.8
eSg 06 03.40
ARV 0.75 358 P 05 59.40 -0.5
eSg 06 11.20
CRE 1.15 320 P 06 08.40 1.5
eSn 06 24.90
SDI 1.22 149 P 06 09.30 1.3
eSn 06 26.40
SFI 1.43 325 P 06 10.50 -0.7
PGD 1.45 321 P 06 11.50 -0.2
S.D. = 1.1 on 8 of 8 obs.

% OCT 29, 1991 15h 26m 24.61±1.24s
11.285 N ± 7.5km 60.768 W ±10.3km
DEPTH = 10.0km (geophysicist)
WINDWARD ISLANDS (95)
MD 3.1 (TRN). Felt on Tobago.

TPR 0.10 185 iP 26 27.19 -0.1
BOT 0.13 157 iP 26 27.43 -0.2
PIG 0.14 210 iP 26 28.00 0.1
eS 26 33.04
TBH 0.85 200 eP 26 41.41 0.4
eS 26 55.22
TRN 0.89 225 eP 26 41.06 -0.6
eS 26 54.43
TCE 1.13 239 eP 26 45.36 -0.4
eS 27 06.61
TPP 1.17 215 eP 26 47.11 0.6
eS 27 07.76
GRW 1.23 315 eP 26 47.75 0.2
eS 27 09.91
S.D. = 0.5 on 8 of 8 obs.

OCT 29, 1991 15h 35m 50.94±0.76s
41.977 N ± 8.0km 20.100 E ± 7.8km
DEPTH = 10.0km (geophysicist)
ALBANIA (391)
ML 2.6 (TTG).

PVY 0.62 351 iPg 36 02.80 -0.8
iSg 36 11.88
ULC 0.63 269 iPg 36 04.30 0.6
iSg 36 14.74
TTG 0.77 306 iPg 36 05.38 -0.6
iSg 36 18.36
IVA 0.91 351 iPg 36 07.84 -0.5
iSg 36 21.18
BDV 0.99 288 iPg 36 10.32 0.5
iSg 36 26.00
OHR 1.01 149 ePg 36 08.20 -1.9
iSg 36 24.00
NKY 1.17 316 iPg 36 12.64 -0.2
iSg 36 31.02
PLE 1.45 339 iPg 36 17.74 0.5
iSg 36 38.56
BRY 1.48 309 iPg 36 18.00 0.3
iSg 36 40.70

VAY 1.96 109 ePn 36 26.70 2.1
S.D. = 1.2 on 10 of 10 obs.

OCT 29, 1991 15h 49m 35.07±0.28s
42.037 N ± 3.4km 20.170 E ± 2.7km
DEPTH = 9.9 ± 2.3 km

NORTHWESTERN BALKAN REGION (383)
ML 3.4 (SKO), 3.2 (TTG), MD
3.4 (ATH), 3.2 (THE).

PVY 0.58 345 iPg 49 47.30 0.5
iSg 49 56.62
ULC 0.69 264 iPg 49 48.22 -0.5
iSg 49 59.38
TTG 0.78 300 iPg 49 49.94 -0.3
iSg 50 03.52
IVA 0.86 347 iPg 49 52.10 0.4
iSg 50 05.92
SKO 0.95 93 iPg 49 52.60 -0.6
iSg 50 05.60
BDV 1.03 284 iPg 49 54.72 0.2
iSg 50 11.24
OHR 1.04 153 iPg 49 53.90 -0.8
iSg 50 07.50
NKY 1.16 312 iPg 49 57.50 0.6
iSg 50 15.68
HCY 1.31 289 iPg 49 59.50 0.2
iSg 50 19.60
PLE 1.41 336 iPg 50 01.82 0.9
iSg 50 22.76
BRY 1.48 306 iPg 50 02.38 0.5
iSg 50 24.06
VAY 1.94 111 iPn 50 10.00 1.7
GRG 1.99 122 ePb 50 09.98 0.8
eSb 50 34.70
KZN 2.11 145 ePn 50 11.50 0.6
eSn 50 36.00
KNT 2.23 112 ePn 50 12.55 0.0
eSn 50 38.98
KEK 2.34 187 ePn 50 16.00 1.8
IGT 2.50 177 ePn 50 17.62 1.1
BRT 2.51 244 P 50 17.50 0.9
eSn 50 46.50
THE 2.53 123 ePn 50 16.92 0.1
LIT 2.61 137 ePn 50 18.22 0.2
SRS 2.73 109 ePn 50 19.42 -0.3
eSn 50 51.06
HVAR 2.97 294 iPn 50 24.80 1.6
OUR 3.34 119 ePn 50 29.14 0.7
PAIG 3.39 127 ePn 50 28.78 -0.3
AGG 3.43 151 ePn 50 30.22 0.5
eSn 51 08.42
ROI 3.68 229 P 50 33.20 -0.1
CSI 3.71 234 P 50 33.40 -0.3
BZS 3.73 16 ePc 50 32.00 -1.9
MGR 3.97 243 P 50 35.50 -1.8
CZI 4.17 229 P 50 39.70 -0.4
eSn 51 28.20
DUI 4.28 267 P 50 41.50 -0.4
ALN 4.56 103 ePn 50 44.76 -0.9
SDI 4.76 268 P 50 48.80 0.2
PTJ 4.91 323 eP 50 51.10 0.3
VBY 4.97 316 e(Pn) 50 56.00 4.6X
eSn 52 13.40
ASS 5.64 283 P 51 00.20 -0.9
VOY 6.03 314 e(Pn) 50 07.70 -58.9X
S.D. = 0.9 on 35 of 37 obs.

OCT 29, 1991 16h 30m 20.26±0.41s
37.273 N ± 5.8km 106.032 E ± 5.3km
DEPTH = 33.0km (normol)
4.6mb (13 obs.)

WESTERN NEI MONGOL, CHINA (323)
ML 4.6 (BJI).

LZH 2.12 237 iPg 30 56.50 2.3
iSg 31 24.00
XAN 3.99 143 Pnc 31 19.50 -1.2
Pg 31 27.00
Sn 32 07.50
Sg 32 20.50
BTO 4.55 42 Pn 31 29.40 0.7
Pg 31 44.20
Sg 32 42.30
TIY 5.11 83 ePn 31 34.60 -2.0
iPg 31 51.60

GTA 5.33 295 Pn 32 34.40
Sg 32 54.00
Z 11s 1.24um
Pg 31 59.00
Sn 32 39.40
Sg 33 06.00

HHC 5.59 49 Pn 31 45.00 1.6
Pg 32 01.60
Sg 33 15.00

CD2 6.62 197 Pn 31 56.40 -1.4
Z 10s 1.43um
Sg 33 43.60

BJI 8.40 68 eP 32 22.50 -0.2
Z 14s 0.59um
WHN 9.63 132 eP 32 40.00 0.4
GYA 10.80 177 iPc 32 56.60 0.9

KMI 12.43 194 eP 33 19.00 1.0
SNY 14.28 66 eP 33 39.40 -2.6
WMO 15.38 301 P 33 56.00 -0.5

1.0s 25.00nm 5.4mb
12.43 194 eP 33 19.00 1.0
SNY 14.28 66 eP 33 39.40 -2.6
WMO 15.38 301 P 33 56.00 -0.5

1.0s 8.40nm 3.9mb
CN2 16.12 60 eP 34 09.20 3.3X
1.0s 11.00nm 3.9mb

Z 14s 0.93um 4.8msz
eP 34 16.00
eS 37 05.00

MDJ 19.21 60 eP 34 46.50 2.4
GUN 19.35 247 P 34 44.20 -2.0
CHG 19.41 201 eP 34 47.00 0.3

CHTO 19.41 201 eP 34 47.00 0.3
1.0s 3.75nm 3.6mb
KKN 19.85 248 P 34 51.60 0.0

0.7s 26.00nm 4.7mb
PKI 19.88 247 P 34 51.00 -1.0
0.6s 16.00nm 4.5mb

DMN 20.08 247 P 34 53.20 -0.8
1.0s 37.00nm 4.7mb
LOE 20.15 192 eP 34 56.00 1.5

GKN 20.21 249 P 34 54.20 -1.1
0.7s 21.00nm 4.6mb
OUE 33.09 269 eP 37 03.60 8.3X

SOD 52.21 331 iP 39 30.40 0.8
KAF 53.19 325 iP 39 37.40 0.3
0.5s 2.30nm 4.4mb

NUR 54.32 323 eP 39 45.90 0.5
HFS 59.62 325 eP 40 22.00 -1.0
0.5s 2.40nm 4.6mb

Z 17s 0.08um 3.9mszX
LR 04 02.00
NB2 60.38 326 P 40 27.60 -0.7

0.7s 4.00nm 4.7mb
WR2 62.87 150 eP 40 46.10 0.8
0.9s 6.20nm 4.7mb

ASPA 66.05 152 iPc 41 10.80 4.8X
0.5s 5.70nm 4.9mb
S.D. = 1.3 on 28 of 31 obs.

* OCT 29, 1991 16h 50m 35.93±1.13s
6.600 S ±10.4km 130.806 E ±18.7km
DEPTH = 104.5 ± 11.7 km

5.2mb (2 obs.)
BANDA SEA (280)

SLKI 1.46 160 iPd 51 04.00 1.7
iS 51 21.90
AAI 3.89 318 eP 51 33.50 -1.2

MTN 6.22 177 iPc 52 06.40 -0.3
0.3s 313.00nm 6.1mb X
eS 53 13.00

KNA 9.31 192 iPc 52 48.30 -0.7
0.2s 58.00nm 6.1mb X
eS 54 28.00

WR2 13.71 166 eP 53 43.40 -3.8X
0.3s 38.50nm 5.2mb
eS 56 07.60

OIS 16.29 149 eP 54 19.00 -0.9
eS 57 09.00
ASPA 17.23 170 iPd 54 30.80 -0.8

0.3s 36.70nm 5.1mb
eS 57 34.10
MBL 17.95 215 eP 54 41.00 0.6

0.4s 3.00nm 3.9mb X
eS 57 52.00
WARB 19.88 191 eP 55 05.40 4.0X

GUN 55.30 311 P 00 01.00 -0.5
PKI 55.48 310 P 00 03.00 0.2

KKN 55.69 310 P 00 04.00 -0.2
DMN 55.73 310 P 00 06.00 1.5
GKN 56.29 310 P 00 08.80 0.4
S.D. = 1.1 on 12 of 14 obs.

& OCT 29, 1991 16h 53m 19.80s
31.900 N 115.880 W
DEPTH = 6.0km (geophysicist)

BAJA CALIFORNIA, MEXICO (48)
<PAS-P>. ML 3.4 (PAS).

IKP 0.77 346 iPd 53 34.00 -1.2
BAR 1.03 319 iPd 53 38.50 -1.1
GLA 1.45 37 eP 53 44.30 -2.4

eS 54 01.51
PLM 1.67 331 iPd 53 49.44 -0.4
eS 54 10.92

PEC 2.26 332 eP 53 59.28 1.0
eS 54 28.20
SSK 2.76 327 ePn 54 05.33 -0.3

ePg 54 07.93
eSg 54 44.65
ABL 4.06 317 ePn 54 21.37 -2.6

ePg 54 24.42
BONR 6.36 342 ePg 55 17.71 21.0
MSU 7.26 24 e(Pn) 55 10.70 1.5

DAU 9.28 22 eP 55 57.31 19.9
10 obs. associated

% OCT 29, 1991 17h 21m 01.21±0.99s
42.341 N ± 5.9km 18.814 E ±10.3km
DEPTH = 10.0km (geophysicist)

NORTHWESTERN BALKAN REGION (383)
ML 1.2 (TTG).

BDV 0.06 170 iPg 21 03.36 -0.1
iSg 21 04.12
TTG 0.34 75 iPg 21 08.36 0.1

iSg 21 13.02
NKY 0.49 16 iPg 21 11.00 -0.2
iSg 21 18.80

ULC 0.50 139 iPg 21 11.34 0.0
iSg 21 18.54
BRY 0.59 340 iPg 21 13.48 0.2

iSg 21 22.96
S.D. = 0.2 on 5 of 5 obs.

OCT 29, 1991 17h 49m 32.42±0.48s
39.711 N ± 3.8km 29.238 E ± 4.2km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
MD 3.8 (ATH).

DST 0.48 258 iPg 49 42.00 -0.2
IZI 0.65 16 iPg 49 44.70 -0.8
YLV 0.86 7 iPg 49 48.50 -0.5

GPA 1.01 55 iPg 49 50.10 -1.4
GBZT 1.09 8 ePg 49 53.30 0.4
iSg 50 07.00

HRT 1.16 16 ePg 49 54.00 -0.1
EDC 1.23 301 ePn 49 55.00 -0.3
ISK 1.36 354 ePn 49 57.70 0.3

ITU 1.40 353 ePg 50 00.00 2.0
iSg 50 18.00
KHL 1.40 171 iPn 49 58.50 0.4

MFT 1.84 306 ePn 50 04.50 0.1
IZM 2.02 230 ePn 50 06.70 -0.3
CIN 2.29 204 eP 51 11.00 60.2X

PRK 2.34 260 ePn 50 11.70 0.1
eSn 50 52.50
DMK 2.39 332 ePn 50 13.00 0.8

YER 2.68 197 ePn 50 17.00 0.6
ALN 2.71 297 eP 50 22.01 5.2X
eS 50 58.56

BBTK 2.72 86 eP 50 23.00 6.0X
iS 51 01.00
RDO 3.17 298 ePn 50 23.50 0.3

KDZ 3.49 305 iP 50 28.00 0.1
KAS 3.83 63 eP 50 43.00 10.2X
RZN 3.96 301 iP 50 34.00 -0.8

OUR 4.08 280 eP 50 35.56 -0.7
SRS 4.53 290 eP 50 42.76 0.1
PVL 4.57 321 eP 50 43.00 -0.1

MMB 4.59 296 eP 50 42.00 -1.5
KNT 5.05 289 eP 50 50.52 0.5
KKB 5.14 297 eP 50 56.00 4.7X

VTS 5.38 304 eP 50 55.00 0.1

29d 17h

S.D. = 0.8 on 24 of 29 obs.
 ? OCT 29, 1991 18h 18m 45.70±5.77s
 7.700 S ±66.4km 158.941 E ±37.6km
 DEPTH = 33.0km (normal)
 4.7mb (3 obs.)

SOLOMON ISLANDS (193)

HNR 1.99 150 eP 19 18.00 0.3
 eS 19 38.00
 RMD 21.05 206 eP 23 29.80 0.5
 OIS 22.66 234 eP 23 47.00 1.5
 ARMA 23.62 196 iPc 23 55.20 0.3
 CMS 26.64 206 eP 24 21.30 -2.0
 WR2 26.74 240 iPd 24 24.80 0.4
 0.3s 5.40nm 4.6mb
 ipP 24 49.60 115kmX
 iPCp 27 47.80
 ASPA 28.78 234 iPc 24 41.90 -1.0
 0.5s 11.40nm 4.8mb
 WARB 35.79 235 eP 25 44.00 -0.1
 COOL 42.16 232 eP 26 37.00 0.0
 0.2s 3.00nm 4.7mb

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

OCT 29, 1991 18h 48m 44.17±0.48s
 41.179 N ±5.2km 19.870 E ±4.7km
 DEPTH = 5.0km (geophysicist)
 ALBANIA (391)
 ML 2.8 (TTG). MD 3.2 (ATH).

OHR 0.70 95 iPg 48 57.00 -1.3
 iSg 49 07.00
 ULC 0.91 329 iPg 49 02.68 0.6
 iSg 49 16.00
 TTG 1.33 340 iPg 49 09.46 0.3
 iSg 49 28.50
 BDV 1.35 325 iPg 49 10.28 0.7
 iSg 49 30.56
 PVY 1.42 3 iPg 49 09.62 -1.1
 iSg 49 29.22
 SKO 1.42 56 ePn 49 09.50 -1.2
 i 49 10.60
 iSg 49 28.90
 KEK 1.47 182 ePn 49 12.90 1.6
 eSn 49 34.70
 HCY 1.63 321 iPnc 49 15.22 1.6
 iSg 49 37.48
 LCI 1.68 241 P 49 12.10 -2.3
 KZN 1.69 120 ePn 49 16.40 1.9
 IVA 1.69 1 iPg 49 14.50 -0.1
 iSg 49 36.48
 NKY 1.76 339 iPnd 49 16.20 0.6
 iSn 49 39.66
 BRY 1.98 331 iPnc 49 19.72 0.9
 iSn 49 45.64
 BRT 2.04 262 P 49 19.30 -0.3
 VAY 2.04 85 ePn 49 18.70 -0.9
 PLE 2.18 351 ePn 49 21.36 -0.3
 iSn 49 48.92
 KNT 2.29 89 eP 49 23.00 -0.2
 AGG 2.86 138 eP 49 32.50 1.1
 MGR 3.44 254 P 49 38.50 -1.1
 SDI 4.58 279 P 49 55.00 -0.8

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

& OCT 29, 1991 19h 08m 13.30s
 60.740 N 151.003 W
 DEPTH = 17.0km
 KENAI PENINSULA, ALASKA (14)
 <AEIC>. ML 3.3 (AEIC). 3.4
 (PMR).

NKA 0.12 272 iPc 08 19.15 2.1
 SLKM 0.45 121 iPd 08 21.92 -0.5
 eS 08 28.79
 SPU 0.68 311 iPd 08 25.69 -0.6
 eS 08 34.68
 RDT 0.71 257 iPd 08 26.13 -0.8
 eS 08 36.27
 >NNL 0.72 192 iPd 08 27.41 0.5
 SUA 0.74 10 iPd 08 26.93 -0.5
 eS 08 36.87
 CGLM 0.75 320 iPd 08 26.97 -0.6
 CRP 0.77 314 iPd 08 27.60 -0.4
 CKL 0.80 306 iPd 08 27.54 -0.9
 BGL 0.86 308 iPd 08 28.64 -0.8

PMS 0.87 54 iPc 08 28.34 -1.2
 NCG 0.87 320 iPd 08 28.80 -0.9
 REF 0.87 254 iPd 08 28.88 -0.9
 RDN 0.90 256 iPd 08 28.90 -1.2
 RSO 0.91 253 iPd 08 29.39 -1.0
 iS 08 41.32
 RS2 0.91 253 iPd 08 29.46 -0.9
 RS1 0.91 253 iPd 08 29.47 -0.9
 RED 0.93 251 iPd 08 29.65 -1.0
 SEW 1.00 129 iPc 08 30.83 -0.9
 S 08 44.17
 PWA 1.06 30 iPc 08 32.03 -0.8
 HOM 1.13 197 eP 08 32.11 -1.9
 CNPM 1.22 186 iPd 08 34.04 -1.5
 eS 08 49.61
 INE 1.23 237 ePd 08 34.34 -1.4
 eS 08 50.16
 PLRM 1.25 46 ePc 08 33.83 -2.0
 eS 08 50.62
 PMR 1.25 46 eP 08 33.78 -2.1
 SKT 1.27 349 iPd 08 35.51 -0.7
 eS 08 51.95
 XLV 1.34 196 eP 08 35.73 -1.5
 KNK 1.41 60 ePc 08 37.23 -1.0
 S 08 54.14

GHO 1.44 43 ePc 08 37.57 -1.2
 KNIM 1.66 102 eP 08 41.24 -0.6
 SML 1.68 49 ePc 08 41.31 -0.8
 CUT 1.71 12 eP 08 41.95 -0.5
 AUL 1.83 223 eP 08 42.60 -1.6
 AUP 1.84 222 eP 08 44.67 0.2
 AGU 1.84 222 eP 08 44.62 0.1
 PDB 1.85 240 eP 08 44.00 -0.6
 GLI 1.92 84 ePc 08 44.55 -1.0
 SCM 2.09 57 ePc 08 48.14 0.1
 VZW 2.20 80 eP 08 48.87 -0.8
 FID 2.22 88 ePc 08 48.25 -1.7
 SYI 2.25 199 eP 08 49.12 -1.2
 CDD 2.25 217 eP 08 49.85 -0.5
 SVW 2.29 281 eP 08 49.07 -1.8
 VLZ 2.31 78 eP 08 50.65 -0.5
 HUR 2.34 15 eP 08 51.64 0.1
 KLU 2.58 71 iPc 08 54.60 -0.5
 TOA 2.70 57 eP 08 56.51 -0.2
 TRF 2.74 7 eP 08 57.66 0.2
 RND 2.86 20 eP 08 58.30 -0.8
 TZL 2.99 62 eP 08 59.50 -1.2
 SDG 3.16 53 eP 09 02.86 -0.4
 TTA 3.24 315 eP 09 03.09 -1.3
 PAX 3.45 47 eP 09 05.25 -2.1
 GLB 3.56 75 ePc 09 07.83 -1.2
 CROM 3.86 86 ePc 09 11.24 -2.1
 TGL 4.01 86 eP 09 13.26 -2.1
 HDA 4.13 25 eP 09 15.56 -1.4
 CCB 4.19 19 eP 09 17.12 -0.7
 BALM 4.24 82 ePc 09 16.70 -2.0
 MDM 4.42 15 eP 09 18.28 -2.9
 FBA 4.43 18 eP 09 20.55 -0.6
 CTGM 4.74 83 eP 09 24.02 -1.7
 IMA 5.48 349 eP 09 34.25 -2.0
 INK 10.65 37 eP 10 46.00 -1.9

64 obs. associated

* OCT 29, 1991 19h 52m 14.26±2.19s
 34.099 N ±18.8km 36.719 E ±7.9km
 DEPTH = 10.0km (geophysicist)
 JORDAN - SYRIA REGION (374)

BHL 0.91 258 Pg 52 32.00 0.3
 Sg 52 46.00
 SHMJ 1.58 211 Pc 52 41.96 -0.5
 SHBJ 1.93 158 Pc 52 48.79 1.3
 JARJ 1.97 199 Pc 52 47.54 -0.5
 BURJ 2.00 203 P 52 48.12 -0.5
 HLBJ 2.05 190 Pd 52 49.01 -0.2
 SALJ 2.26 203 Pd 52 52.60 0.3
 OTFJ 2.36 164 Pd 52 54.01 0.3
 KFNJ 2.40 202 Pd 52 54.74 0.6
 RUWJ 2.40 132 Pd 52 53.45 -0.8
 MASJ 2.51 200 Pc 52 55.36 -0.4

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

% OCT 29, 1991 20h 04m 28.34±0.57s
 42.291 N ±4.8km 19.072 E ±4.1km
 DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION (383)
 ML 1.8 (TTG).

PMS 2.32 49 iPd 23 35.15 -0.7
 SKT 2.36 19 ePd 23 35.50 -0.8
 PWA 2.48 39 eP 23 37.02 -0.9
 PLRM 2.70 46 eP 23 39.02 -1.7
 PMR 2.70 46 eP 23 38.88 -1.9
 KNIM 2.78 76 eP 23 40.13 -1.8
 MTU 2.79 83 eP 23 41.07 -1.0

BDV 0.18 268 iPg 04 32.72 0.3
 iSg 04 35.98
 TTG 0.20 45 iPg 04 33.16 0.5
 iSg 04 36.68
 ULC 0.35 158 iPg 04 35.58 0.0
 iSg 04 41.28
 HCY 0.45 290 iPg 04 37.30 -0.3
 iSg 04 44.06
 NKY 0.52 354 iPg 04 38.82 -0.2
 iSg 04 47.40
 BRY 0.72 328 iPg 04 42.64 0.0
 iSg 04 53.54
 PVY 0.73 65 iPg 04 42.38 -0.4
 iSg 04 54.00
 IVA 0.84 46 iPg 04 44.76 0.1
 iSg 04 57.74
 PLE 1.07 13 iPg 04 48.48 0.0
 iSg 05 04.98

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

& OCT 29, 1991 20h 22m 58.00s
 59.772 N 153.167 W
 DEPTH = 115.1km
 SOUTHERN ALASKA (2)
 <AEIC>.

INE 0.29 10 iPc 23 13.95 0.8
 eS 23 26.52
 INW 0.30 3 eP 23 13.75 0.6
 AUL 0.41 199 iPc 23 14.46 -0.7
 eS 23 27.17
 AUE 0.43 194 iPc 23 14.39 -0.8
 S 23 26.40
 AUP 0.43 198 iPc 23 14.56 -0.8
 eS 23 27.66
 AUH 0.43 199 ePc 23 14.55 -0.8
 AGU 0.43 198 ePc 23 14.62 -0.8
 AUI 0.46 197 iPc 23 14.56 -0.8
 iS 23 26.89
 PDB 0.52 272 iPc 23 14.73 -1.0
 eS 23 27.11
 RED 0.68 17 iPd 23 16.32 -0.7
 iS 23 30.15
 RS1 0.72 16 iPd 23 16.83 -0.7
 iS 23 30.50
 RS2 0.72 16 iPd 23 16.90 -0.7
 iS 23 31.04
 RSO 0.72 16 iPd 23 16.90 -0.7
 iS 23 30.89
 REF 0.76 18 iPd 23 17.09 -0.7
 eS 23 31.61
 RDN 0.77 15 iPd 23 17.24 -0.7
 eS 23 31.62
 HOM 0.78 98 eP 23 17.17 -0.6
 eS 23 32.03
 XLV 0.80 113 ePc 23 17.19 -0.8
 iS 23 32.23
 MCNL 0.84 226 ePc 23 17.21 -1.1
 CDD 0.88 196 iPc 23 17.82 -0.9
 eS 23 32.41
 RDT 0.89 25 iPd 23 18.13 -0.8
 iS 23 33.06
 >NNL 0.98 73 iPc 23 20.04 0.3
 CNPM 1.01 103 iPc 23 19.18 -0.9
 eS 23 35.24
 SYI 1.23 161 ePc 23 21.65 -0.7
 NKA 1.37 44 eP 23 25.06 1.1
 CKL 1.49 16 iPd 23 24.96 -0.5
 SPU 1.52 21 iPd 23 25.05 -0.7
 BGL 1.55 14 iPd 23 25.84 -0.3
 CRP 1.58 18 iPd 23 26.20 -0.5
 CGLM 1.64 20 iPd 23 26.80 -0.5
 SLKM 1.65 62 eP 23 26.53 -0.8
 eS 23 47.33
 NCG 1.71 17 ePd 23 27.72 -0.5
 SVW 1.81 319 ePd 23 28.08 -1.3
 SEW 1.90 78 eP 23 29.42 -1.0
 KDC 2.06 170 ePd 23 30.40 -2.0
 SUA 2.08 34 iPd 23 32.42 -0.4
 eS 23 58.03

KNK	2.85	53	ePd	23	41.03	-1.8
GHO	2.89	44	ePd	23	41.72	-1.7
SML	3.13	47	iPd	23	44.74	-1.9
GLI	3.22	67	eP	23	46.28	-1.5
TTA	3.45	338	eP	23	49.09	-1.9
FID	3.47	71	eP	23	48.83	-2.4
VZW	3.52	66	eP	23	49.77	-2.2
SCM	3.53	52	eP	23	50.26	-1.8
VLZ	3.65	65	eP	23	52.25	-1.3
TRF	3.94	19	eP	23	56.18	-1.5
KLU	3.96	61	iPd	23	55.84	-2.1
TOA	4.14	53	eP	23	58.93	-1.3
RND	4.19	28	ePd	23	59.55	-1.4
MCK	4.45	25	eP	24	03.88	-0.7
SDG	4.61	50	eP	24	04.75	-2.0
PAX	4.90	46	eP	24	09.03	-1.7
GLB	4.91	66	eP	24	08.60	-2.1
WRH	5.28	25	eP	24	13.53	-2.3
FBA	5.72	24	eP	24	19.41	-2.4

61 obs. associated

% OCT 29, 1991 20h 58m 45.78±2.56s
 41.272 N ±20.1km 23.311 E ±7.8km
 DEPTH = 10.0km (geophysicist)
 GREECE-BULGARIA BORDER REGION (363)
 MD 1.9 (THE).

SRS	0.26	126	ePgc	58	50.99	-0.3
			eSg	58	54.56	
KNT	0.33	251	ePg	58	52.68	0.1
			eSg	58	57.40	
SDH	0.45	176	ePgc	58	54.82	-0.2
			eSg	59	01.24	
THE	0.69	202	ePg	58	59.24	-0.2
			eSg	59	08.68	
OUR	1.07	151	ePg	59	06.48	0.7
			eSg	59	19.88	

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

* OCT 29, 1991 21h 46m 18.77±1.02s
 7.014 S ±14.4km 129.480 E ±18.6km
 DEPTH = 156.3 ±23.0 km
 4.5mb (5 obs.)

BANDA SEA (280)

SLKI	2.04	118	iPc	46	56.00	0.9
			iS	47	20.30	
AAI	3.54	339	ePd	47	13.50	-0.4
MTN	6.02	164	eP	47	47.00	0.3
	0.3s	378.00nm			6.1mb X	
			eS	48	51.00	
KUPT	6.59	241	eP	48	02.00	7.6X
			eS	49	14.00	
KNA	8.71	185	iPc	48	22.00	-0.7
	0.2s	85.00nm			6.0mb X	
			eS	49	54.00	
WR2	13.70	160	iPc	49	25.30	-2.5
	0.2s	31.90nm			5.3mb	
			eS	51	51.60	
OIS	16.66	145	iPd	50	05.00	0.4
	0.2s	4.00nm			4.4mb	
			iS	52	59.00	
MBL	16.88	213	eP	50	08.00	0.7
	0.3s	3.00nm			4.1mb	
			eS	53	06.00	
ASPA	17.09	166	iPd	50	10.50	0.6
	0.6s	40.50nm			4.9mb	
			eS	53	14.90	
WARB	19.25	188	eP	50	34.40	0.8
	0.4s	5.00nm			4.2mb	
			eS	54	03.00	

S.D. = 1.4 on 9 of 10 obs.

% OCT 29, 1991 22h 45m 27.80±0.82s
 38.161 N ±13.9km 15.050 E ±6.7km
 DEPTH = 10.0km (geophysicist)
 SICILY (398)

ATN	0.33	90	Pc	45	35.30	0.7
			eSg	45	40.30	
MNO	0.36	231	P	45	35.40	0.1
			eSg	45	40.80	
SOI	0.80	96	P	45	42.50	-0.8
			eSg	45	54.00	
GIB	0.83	258	Pd	45	43.80	0.0
			eSg	45	55.80	
CZI	1.35	38	P	45	52.60	0.0

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

OCT 29, 1991 23h 13m 57.43±0.12s
 16.184 S ±2.7km 167.990 E ±3.7km
 DEPTH = 177.0km (5 depth phases)
 5.3mb (35 obs.)
 VANUATU ISLANDS (186)
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 17S, 31C
 Centroid Location:
 Origin Time 23:14: 7.3 0.6
 Lat 15.40S 0.07 Lon 167.66E 0.05
 Dep 195.8 2.9 Half-duration 2.4
 Moment Tensor: Scale 10**17 Nm
 Mrr=-1.01 0.13 Mtt=0.81 0.19
 Mff=-1.82 0.17 Mrt=-1.41 0.14
 Mrf=-0.69 0.13 Mtf=1.93 0.19
 Principal Axes:
 T Val= 3.05 Plg=38 Azm=153
 N -0.21 52 331
 P -2.84 1 62
 Best Double Couple: Mo=2.9*10**17
 NP1: Strike=191 Dip=64 Slip=152
 NP2: 294 65 29

DZM	6.04	194	iPd	15	26.90	1.1
			iS	16	37.00	
NDF	9.19	101	eP	16	01.00	-6.3X
BRS	17.98	229	iPc	17	58.10	0.8
	1.0s	65.00nm			5.0mb	
			i(sP)	18	29.00	
			iS	21	15.00	
			i(PcP)	22	22.00	
			i(ScP)	25	33.00	
WCZ	20.48	165	eP	18	25.10	2.2
ARMA	20.62	224	iPd	18	26.00	1.5
	1.0s	164.00nm			5.5mb	
			iPP	18	41.80	
			iPcP	18	49.20	
			eScP	22	28.50	
			eS	25	49.70	
RMQ	20.62	237	iPd	18	26.00	1.6
	1.2s	838.00nm			6.1mb	
PMG	21.39	286	iPd	18	33.80	1.7
	1.0s	470.00nm			5.9mb	
LAT	22.63	292	ePd	18	46.30	2.2
MOZ	23.03	166	eP	18	48.20	0.4
HBZ	23.20	159	eP	18	49.50	0.1
	0.4s	83.00nm			5.6mb	
URZ	23.41	162	P	18	52.70	1.2
PUZ	23.61	159	P	18	53.60	0.1
RUZ	23.75	166	P	18	56.50	1.7
NGZ	23.86	165	P	18	57.90	1.9
CNZ	23.87	165	eP	18	58.00	2.0
PAHZ	23.95	162	P	18	57.90	1.2
NOZ	24.03	160	P	18	57.50	0.1
MDG	24.35	294	iPd	19	02.30	1.7
QLP	24.38	241	iPd	19	01.50	0.7
	0.9s	1014.00nm			6.4mb X	
WAHZ	24.54	164	P	19	02.50	0.2
TEHZ	24.93	164	P	19	05.50	-0.3
MNG	25.20	167	P	19	07.80	-0.5
	0.5s	70.00nm			5.5mb	
CMS	25.28	229	iPd	19	09.30	0.2
	0.8s	62.00nm			5.3mb	
CNB	25.30	218	iPd	19	10.20	0.8
	1.1s	78.00nm			5.2mb	
			e	26	00.00	
KIW	25.31	168	eP	19	08.90	-0.4
PGZ	25.39	165	P	19	09.10	-0.9
	0.5s	124.00nm			5.8mb	
CAW	25.58	168	P	19	11.20	-0.6
MRW	25.63	168	eP	19	11.60	-0.5
WDW	25.72	168	P	19	12.20	-0.8
MTW	25.72	167	P	19	12.10	-1.0
MNDI	25.84	290	eP	19	16.50	1.9
THZ	25.84	172	P	19	14.30	0.1
BLW	25.92	167	P	19	14.10	-0.7
KHZ	26.58	171	P	19	19.50	-1.3
OIS	27.27	256	iPd	19	27.20	-0.1
			i	22	41.60	
			e	26	06.00	
			i	29	57.60	
EWZ	27.35	175	P	19	28.10	0.4
MQZ	27.72	173	P	19	30.40	-0.7
BWZ	28.30	177	P	19	35.30	-1.0

MMCZ	28.75	178	P	19	40.00	-0.4
MHZ	28.81	178	P	19	40.40	-0.6
LRCZ	28.81	178	eP	19	40.30	-0.8
ODZ	28.86	176	P	19	40.50	-0.8
LSCZ	28.87	178	P	19	40.70	-0.7
CMCZ	28.90	178	P	19	41.10	-0.6
TOO	29.13	219	eP	19	44.00	0.2
			i	26	13.20	
TUZ	29.71	178	P	19	49.10	0.3
MENI	30.35	294	iPd	19	52.00	-2.8X
WR2	32.16	258	iPc	20	09.10	-1.4
	0.6s	125.10nm			5.8mb	
			iPcP	22	55.20	
			eS	25	12.70	
			eScP	26	22.70	
			iScS	30	20.50	
ADE	32.18	229	iPd	20	10.20	-0.4
ASPA	32.84	251	iPd	20	15.90	-0.5
	0.7s	997.10nm			6.6mb X	
Z	19s	1.30um			4.7MsZ	
			eS	25	18.00	
			iScP	26	24.90	
			iScS	30	22.10	
MTN	35.81	270	eP	20	41.00	-0.7
	0.4s	50.00nm			5.5mb	
KNA	37.67	265	iPd	20	57.00	-0.4
	0.4s	165.00nm			6.1mb	
WARB	39.67	248	iPd	21	14.10	0.3
	0.5s	41.00nm			5.3mb	
KUPT	43.57	272	eP	21	54.00	8.3X
	0.6s	258.40nm			6.0mb	
COOL	45.05	242	iPd	21	56.80	-0.6
	0.4s	20.00nm			5.0mb	
MBL	45.76	256	iPd	22	03.40	0.4
	0.4s	118.00nm			5.8mb	
NWAO	48.62	240	eP	22	24.40	-0.8
	0.8s	53.00nm			5.2mb	
Z	20s	0.40um			4.4MsZ	
RKG	49.03	238	eP	22	28.00	-0.3
MRWA	49.33	245	iPd	22	30.30	-0.4
	0.7s	33.00nm			5.0mb	
MUN	49.37	242	eP	22	30.00	-1.0
PCI	49.81	283	ePc	22	39.00	4.5X
KEDI	51.29	273	iPd	22	43.90	-1.9
KHKI	51.66	272	ePd	22	47.30	-1.2
			e	25	52.50	
SRDI	53.04	271	iPd	22	57.40	-1.3
TRT	54.67	272	iPd	23	11.00	0.4
	0.6s	93.20nm			5.7mb	
CHJJ	58.75	333	P	23	38.30	-0.7
IIDJ	58.76	331	P	23	38.50	-0.6
MAT	59.51	332	iPd	23	43.00	-1.2
TSRJ	59.72	330	iPd	23	45.30	-0.3
MTMJ	59.72	332	iPd	23	45.10	-0.6
PACI	60.45	272	iPd	23	50.20	-1.0
PASI	61.69	271	iPd	23	57.90	-1.5
PENI	62.38	272	iPd	24	01.90	-2.1
CSY	62.46	203	iPd	24	03.80	0.2
	0.9s	42.70nm			5.3mb	
IPM	69.34	281	ePc	24	48.00	-0.1
MDJ	69.88	332	iPc	24	51.20	0.4
	0.8s	32.00nm			5.1mb	
SNY	70.79	326	eP	24	56.20	-0.2
CN2	71.24	329	Pd	24	59.00	0.0
	0.8s	24.00nm			5.0mb	
Z	20s	1.48um			5.2MsZ	
GYA	73.11	305	P	25	11.20	0.7
LOE	73.32	294	eP	25	12.00	0.3
BJI	73.83	321	eP	25	17.00	2.8X
	24s	0.96um			5.0MsZ X	
TIY	74.79	317	eP	25	21.00	1.0
Z	22s	0.92um			5.0MsZ	
XAN	75.18	313	P	25	22.40	0.2
	0.6s	8.00nm			4.6mb	
KMI	75.66	302	Pd	25	26.00	0.7
	1.2s	60.00nm			5.2mb	
Z	24s	1.50um			5.2MsZ X	
CHG	76.31	294	ePd	25	29.50	0.7
	0.9s	17.86nm			4.8mb	
CHTO	76.31	294	iP	25	29.80	1.0
	0.8s	15.01nm			4.8mb	
			i	26	11.80	172km
HHC	77.14	320	eP	25	33.80	0.8
CD2	77.44	308	eP	25	35.20	0.3
LZH	79.81	312	eP	25	49.00	1.3
	1.5s	37.00nm			4.9mb	
Z	19s	0.74um			5.0MsZ	

OCT 30, 1991 00h 47m 06.19 ± 0.32s
44.985 N ± 3.1km 9.900 E ± 3.3km
DEPTH = 11.8 ± 2.4 km
NORTHERN ITALY (545)
ML 2.8 (LDG).

ORO	1.50	296	P	47 50.88	-0.5	CZI	3.85	288	P	02 33.70	1.5		0.6s	2.70nm	3.9mb
			eSn	47 32.50		SKO	3.89	7	iPg	02 32.70	0.0	KAF	24.27	6 iP	06 47.10 0.3
ORX	1.50	296	P	47 32.74	-0.3					02 44.10			0.4s	2.50nm	4.1mb
			S	47 51.03		CSI	3.93	297	P	02 35.70	2.4		S.D. = 1.1 on 76 of 84 obs.		
VDL	1.53	349	ePc	47 34.20	0.6				eSn	03 11.50					
ROB	1.60	245	P	47 35.31	0.8	BRT	3.95	316	P	02 34.40	0.8		OCT 30, 1991	01h 02m	43.45 ± 0.31s
CTI	1.63	49	P	47 33.50	-1.3				eSn	03 19.00			7.106 S ± 5.6km	154.855 E ± 6.6km	
			eSn	47 55.00		ULC	4.04	343	iPnc	02 34.14	-0.8		DEPTH = 30.9km	(7 depth phases)	
OSS	1.71	6	ePc	47 37.00	0.9				iSn	03 10.81			5.2mb (17 obs.)		
MMK	1.73	309	ePc	47 39.30	2.8X	MMB	4.12	32	iPg	02 36.00	-0.1		SOLOMON ISLANDS (193)		
SFI	1.76	127	P	47 36.00	-0.6	KKB	4.13	24	iPd	02 36.00	-0.1				
JMI	1.80	234	P	47 37.57	0.3	MMN	4.18	297	P	02 39.50	2.6	RAB	3.94	317 e(P)	03 44.00 0.7
RSP	1.88	276	P	47 37.73	-0.8				eSn	03 21.00				iS	04 44.00
DOI	1.95	257	P	47 40.00	0.4	ATN	4.25	272	P	02 36.50	-1.3	HNR	5.54	115 eP	04 13.00 7.0X
LLS	1.99	342	ePc	47 41.60	1.4	BAI	4.30	316	P	02 39.00	0.5			eS	05 26.00
CRE	2.00	132	P	47 40.30	0.0	PRK	4.39	73	ePn	02 41.20	1.4	PMG	7.96	253 eP	04 40.00 0.1
PZZ	2.05	257	P	47 40.75	-0.3	BDV	4.45	340	iPnc	02 39.48	-1.1		0.9s	65.55nm	5.8mb X
DIX	2.06	303	ePc	47 45.20	3.8X				iSn	03 20.25				eS	06 14.00
SBF	2.09	238	Pn	47 41.60	0.0	TTG	4.49	345	iPnd	02 40.26	-0.8	DZM	18.61	144 iPc	07 03.00 2.3
			Sn	48 09.40					iSn	03 22.01		QIS	19.92	226 eP	07 14.50 -1.3
LPG	2.28	284	Pn	47 44.40	-0.1	PVY	4.53	352	iPnc	02 42.34	0.5	RMO	20.13	196 iPc	07 17.00 -0.9
EMS	2.35	299	ePd	47 48.80	3.4X				iSn	03 24.95		BRS	20.27	185 iPd	07 13.10 -6.3X
PGF	2.52	195	Pn	47 46.40	-1.3	RZN	4.65	39	iPc	02 44.00	0.4		1.5s	4.80nm	3.6mb X
			Sn	48 16.00		HCY	4.69	338	iPnd	02 42.44	-1.6	QLP	21.85	206 eP	07 35.00 -0.4
FVI	2.58	50	P	47 49.00	0.6	RDO	4.73	49	ePn	02 43.60	-0.9	ARMA	23.39	187 iPc	07 51.20 0.6
WTTA	2.58	27	iPnc	47 49.70	1.1	MEU	4.81	260	Pc	02 43.70	-2.1		1.0s	20.00nm	4.6mb
	0.4s	6.00nm				IVA	4.82	352	iPnd	02 45.94	0.1	WR2	23.62	235 iPc	07 53.10 0.2
			i	48 20.80					iSn	03 31.67			0.9s	12.50nm	4.4mb
			i	48 23.50		PZI	4.83	259	P	02 43.06	-3.1X	MTN	24.04	254 eP	07 58.00 1.0
FRF	2.74	240	Pn	47 51.60	0.9	MNO	4.86	270	P	02 46.20	-0.5	CMS	25.68	198 iPc	08 11.70 -0.8
SLE	2.95	341	ePd	47 52.70	-1.0	ALN	4.89	54	ePn	02 45.36	-1.5		1.1s	42.00nm	5.0mb
CDF	3.87	333	Pn	48 05.40	-1.5	NKY	4.91	344	iPnd	02 46.20	-1.0	ASPA	26.00	228 iPc	08 14.70 -0.9
			Sn	48 49.50					iSn	03 31.79			1.6s	16.50nm	4.4mb
HAU	3.89	322	Pn	48 06.50	-0.6	PLD	4.97	35	eP	02 48.00	0.1	Z	17s	1.80um	4.7MsZx
			Sn	48 51.40		KDZ	4.99	43	iP	02 47.00	-1.3	TP1	47.21	273 ePd	11 14.00 -1.7
SMF	4.55	294	Pn	48 16.60	0.2	I2M	5.06	85	eP	02 48.40	-0.9			e	12 00.00 211kmX
			Sn	49 07.60		BRY	5.10	341	iPnc	02 48.24	-1.7	OZH	47.55	313 eP	11 19.50 1.2
LBF	4.59	298	Pn	48 16.60	-0.4				iSn	03 35.89		WHN	53.92	316 Pd	12 07.00 0.5
			Sn	49 09.40		PGB	5.11	29	eP	02 49.00	-1.0			sP	12 21.50
LOR	4.78	301	Pn	48 19.00	-0.8	PLE	5.33	349	iPnd	02 52.56	-0.6	TIA	55.77	323 eP	12 18.70 -1.2
			Sn	49 12.40					iSn	03 43.61		CN2	57.23	335 eP	12 28.50 -1.7
	S.D. = 0.8 on 32 of 36 obs.					GIB	5.39	271	P	02 52.00	-1.9	Z	16s	0.87um	5.0MsZx
	OCT 30, 1991 01h 01m 34.10 ± 0.56s					US1	6.05	278	P	03 02.50	-0.7			epP	12 36.00 24km
	38.106 N ± 6.1km 20.848 E ± 2.8km					DUI	6.06	308	P	03 04.40	1.0	GYA	57.41	308 P	12 33.60 1.6
	DEPTH = 55.8 ± 7.9 km					HVAR	6.07	328	iPn	03 01.70	-1.7	NST	58.73	293 eP	12 47.00 5.9X
	4.1mb (4 obs.)								iSn	04 07.40		XAN	59.69	316 P	12 47.00 -0.6
GREECE	(364)					SDI	6.49	306	P	03 09.50	0.2	KMI	59.96	304 Pd	12 51.00 -1.1
	MD 3.8 (ATH), 4.0 (THE).					AZI	6.88	307	P	03 16.20	1.5		1.6s	80.00nm	5.6mb
VLS	0.22	289	iPbc	01 42.50	-0.8	AQU	7.10	309	P	03 19.00	1.2			pP	13 01.50 35km
AGG	1.48	51	ePb	02 00.30	1.5	BZS	7.53	4	eP	03 19.50	-4.2X	CHG	60.82	296 eP	12 57.00 1.4
			eSb	02 18.32		MNS	7.57	307	P	03 24.60	0.3		1.2s	27.34nm	5.3mb
IGT	1.48	344	ePb	01 59.72	0.9	GPA	7.66	71	ePn	03 27.10	1.4	CD2	61.78	311 P	13 01.50 -0.4
			eSb	02 19.80		ASS	7.96	311	P	03 31.00	1.3			eS	21 29.00
KEK	1.80	333	ePn	02 04.70	1.4	ARV	8.06	314	P	03 30.50	-0.5	HHC	62.10	324 eP	13 03.70 -0.3
VLI	2.16	129	ePn	02 13.00	4.6X	MLR	8.30	26	ePd	03 37.50	3.0X	BTO	62.86	323 eP	13 07.00 -2.0
ATH	2.27	92	ePn	02 10.10	0.3	VBV	8.49	332	ePn	03 35.40	-1.5	LZH	64.30	316 Pd	13 19.50 0.9
KZN	2.31	18	ePn	02 12.00	1.5				eSn	05 05.00			1.5s	85.00nm	5.6mb
LIT	2.37	32	ePnd	02 11.67	0.4	RIY	8.69	328	ePn	03 37.90	-1.8			pP	13 28.20 28km
			eSn	02 39.64		CRE	8.71	312	P	03 41.30	1.2	GTA	68.73	317 P	13 46.40 -0.3
PAIG	2.86	50	ePn	02 18.20	0.0	VRI	8.90	28	eP	03 45.00	2.3		1.0s	32.00nm	5.4mb
			eSn	02 50.08		SFI	8.94	313	P	03 44.30	1.2			pP	13 57.00 34km
OHR	3.00	359	iPn	02 27.00	6.7X	CEY	9.00	330	ePn	03 42.50	-1.5	LSA	71.22	305 eP	14 02.90 0.4
THE	3.01	32	ePnc	02 20.07	-0.3				eSn	05 19.50		GUN	75.06	301 P	14 25.80 0.9
			ePn	02 53.08		LJU	9.21	331	e(Pn)	03 45.50	-1.4	PKI	75.36	301 P	14 27.40 0.8
GRG	3.09	22	ePn	02 21.52	0.0	VOY	9.45	329	ePn	03 49.90	-0.4	KKN	75.53	301 P	14 27.60 0.1
			eSn	02 55.40					eSn	05 21.80			0.8s	46.00nm	5.5mb
LCI	3.16	316	P	02 22.20	-0.3	FVI	10.37	327	P	04 02.50	-0.1	DMN	75.63	301 P	14 28.40 0.3
OUR	3.30	47	ePn	02 24.41	0.0	CTI	10.47	322	P	04 04.30	0.1	GKN	76.14	301 P	14 31.20 0.4
SOH	3.33	35	ePnc	02 25.48	0.5	KBA	10.53	331	iPd	04 04.70	-0.4		0.8s	40.00nm	5.5mb
			eSn	03 02.04					i	04 12.00		PDB	77.87	24 P	14 35.40 -4.1X
KNT	3.44	27	ePn	02 26.54	0.1				iS	05 57.10		WMO	78.81	317 P	14 45.00 -0.2
			eSn	03 04.68		WTTA	11.38	326	iPc	04 13.40	-3.2X		1.5s	14.00nm	4.8mb
VAY	3.47	22	iPnd	02 21.80	-5.1X				i	04 16.90				pP	14 49.50 14kmX
	0.8s	577.00nm							i	04 24.30		HYB	79.18	289 eP	14 49.80 2.2
			i	03 28.50		VAI	11.86	315	P	04 24.50	1.7	TTA	79.17	21 P	14 46.60 -0.2
			i	03 29.00		ORO	12.17	312	P	04 27.00	-0.1	SLKM	79.90	24 P	14 50.50 -0.1
GR1	3.55	283	P	02 28.31	0.3	UPP	21.87	356	iP	06 22.90	-0.5	PMR	80.95	24 P	14 55.00 -1.1
ROI	3.65	295	P	02 29.90	0.5	HFS	22.51	351	eP	06 29.00	-0.8		0.9s	41.67nm	5.4mb
			eSn	03 05.00			0.5s	3.50nm		4.0mb		IMA	81.95	19 P	15 02.00 0.5
SRS	3.68	34	ePn	02 29.56	-0.2	NUR	22.55	5	eP	06 30.60	0.4	RND	82.06	22 P	15 01.10 -0.9
			eSn	03 09.60		EKA	23.64	325	P	06 44.00	3.3X	FBA	83.27	21 P	15 06.90 -1.2
SOI	3.78	271	P	02 30.00	-1.2		1.1s	12.50nm		4.3mb			1.0s	25.00nm	5.3mb
ACI	3.84	290	P	02 34.00	1.9	NB2	23.74	348	P	06 42.20	0.4	BALM	83.48	26 P	15 17.40 33km
												INK	89.87	21 eP	15 40.00 -0.3

30d 01h

CMB	90.22	52	P	15	56.00	55kmx
	1.0s	13.50nm		15	44.00	1.4
QUE	91.72	300	Pd	15	49.90	0.0
TNP	92.70	52	P	15	55.50	1.2
			pP	16	04.80	29km
NEW	93.93	42	P	15	59.40	-0.1
	0.7s	8.80nm				5.3mb
MBC	95.85	14	eP	16	07.50	-0.2
	1.0s	7.00nm				5.1mb
YKA	96.50	28	eP	16	10.00	-0.8
	1.0s	7.40nm				5.1mb
NB2	119.76	341	PKP	21	40.40	8.5X
	0.9s	1.50nm				
BRG	125.67	331	e(PKP)	21	43.80	0.3
KHC	126.96	329	ePKP	21	47.00	0.9
			e	21	56.50	
GEC2	127.07	329	ePKPd	21	45.80	-0.7
	0.7s	1.08nm				
VAO	143.24	145	(PKP)	22	24.00	6.7X
LIJA	145.32	332	ePKP	22	19.00	-1.4
ALJ	145.59	332	ePKP	22	20.00	-0.9
MOMI	145.93	331	ePKP	22	16.00	-5.4X
CNLI	146.05	332	ePKP	22	20.00	-1.5
IFR	147.84	328	iPKPc	22	29.00	4.3X
BAO	148.02	135	ePKPd	22	29.30	3.9X
AVE	149.19	330	ePKP	22	30.00	3.4X
TIO	150.98	327	iPKPd	22	36.20	6.6X
			i	22	46.00	

S.D. = 1.0 on 53 of 64 obs.

& OCT 30, 1991 01h 04m 02.48s
59.900 N 152.391 W
DEPTH = 95.2km
SOUTHERN ALASKA (2)
<AEIC>.

INE	0.37	296	eP	04	16.83	-0.5
			eS	04	28.05	
HOM	0.45	122	eP	04	17.48	-0.1
			eS	04	29.06	
RED	0.55	340	eP	04	17.76	-0.8
			eS	04	29.64	
XLV	0.56	142	eP	04	17.70	-0.8
			eS	04	29.90	
NNL	0.57	75	iP	04	18.86	0.3
RS1	0.59	342	iP	04	18.34	-0.6
			eS	04	30.58	
RSO	0.59	342	iP	04	18.33	-0.6
			iS	04	30.59	
RS2	0.59	342	eP	04	18.35	-0.6
			eS	04	31.16	
REF	0.61	345	iP	04	18.45	-0.7
			eS	04	30.79	
RDT	0.68	359	iP	04	18.63	-0.9
			eS	04	31.04	
CNPM	0.70	122	iP	04	19.10	-0.6
			eS	04	32.01	
AUL	0.74	226	eP	04	19.81	-0.3
			eS	04	32.49	
AUP	0.75	225	eP	04	19.87	-0.4
BRK	0.77	100	eP	04	19.75	-0.7
AUI	0.77	223	eP	04	19.85	-0.6
			eS	04	32.64	
PDB	0.92	264	iP	04	21.02	-0.9
			iS	04	35.20	
NKA	1.02	34	eP	04	24.28	1.2
CDD	1.16	214	eP	04	23.76	-1.0
			eS	04	40.24	
MCNL	1.22	235	eP	04	24.84	-0.6
			eS	04	40.65	
SLKM	1.24	60	eP	04	24.69	-1.0
SYI	1.29	180	iP	04	25.57	-0.7
SPU	1.30	7	iP	04	25.78	-0.6
			eS	04	44.16	
CKL	1.30	1	iP	04	25.94	-0.6
			eS	04	42.61	
BGL	1.37	0	iP	04	26.84	-0.5
CRP	1.38	5	eP	04	27.01	-0.5
CGLM	1.43	7	iP	04	27.53	-0.5
			eS	04	45.64	
SEW	1.49	81	eP	04	27.46	-1.3
NCG	1.51	4	iP	04	28.59	-0.6
SUA	1.77	27	eP	04	31.93	-0.5
PMS	1.94	45	eP	04	33.89	-0.8
SVW	2.01	309	eP	04	34.30	-1.2
SKT	2.13	11	eP	04	36.07	-1.1

LTI	2.29	85	eP	04	38.31	-0.9
KNIM	2.37	77	eP	04	38.13	-2.3
MTU	2.39	86	eP	04	39.77	-0.8
KNK	2.46	50	eP	04	40.30	-1.3
CUT	2.72	21	eP	04	43.76	-1.2
GLI	2.81	67	eP	04	44.59	-1.7
FID	3.06	71	eP	04	46.65	-3.1

39 obs. associated

OCT 30, 1991 01h 50m 54.67±0.47s
44.994 N ± 5.0km 9.916 E ± 4.3km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.7 (LDG).

BOB	0.40	236	P	51	03.00	0.1
			eSg	51	10.00	
SAL	0.75	35	P	51	09.90	0.6
			eSg	51	22.00	
BDI	1.05	152	P	51	14.90	0.4
			eSg	51	30.80	
VAI	1.19	318	P	51	17.40	0.6
			eSg	51	34.30	
CKI	1.30	245	P	51	19.10	0.4
ORO	1.50	295	P	51	21.70	-0.1
CTI	1.61	49	P	51	23.00	-0.3
			eSn	51	44.50	
SFI	1.75	127	P	51	24.00	-1.2
SBF	2.11	238	Pn	51	31.40	0.9
			Sn	51	57.60	
LPL	2.31	284	Pn	51	34.00	0.4
FVI	2.56	50	P	51	37.10	0.2
WTTA	2.57	27	iPnc	51	38.00	0.9
	0.4s					

HAU 3.89 322 Pn 51 55.00 -0.8
Sn 52 40.00
LBF 4.59 298 Pn 52 03.90 -1.9
S.D. = 0.9 on 14 of 14 obs.

? OCT 30, 1991 01h 58m 17.29±0.88s
44.988 N ± 7.3km 9.891 E ± 8.4km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

BOB	0.38	235	P	58	25.10	-0.1
			eSg	58	32.10	
SAL	0.76	36	P	58	32.10	-0.1
			eSg	58	44.50	
BDI	1.05	151	P	58	37.30	0.1
			eSg	58	53.20	
VAI	1.18	318	P	58	39.40	0.1

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

OCT 30, 1991 02h 33m 42.84±0.35s
44.988 N ± 3.2km 9.929 E ± 3.3km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.8 (LDG).

BOB	0.41	237	P	33	51.10	-0.1
			eSg	33	58.00	
SAL	0.75	34	P	33	57.80	0.3
			eSn	34	08.90	
BDI	1.04	152	P	34	03.00	0.5
			eSn	34	19.10	
PCP	1.08	246	P	34	04.42	1.2
			S	34	20.05	
VAI	1.20	318	P	34	05.10	0.0
			eSn	34	22.40	
CKI	1.30	245	P	34	07.90	0.9
			eSn	34	27.00	
TMA	1.34	327	ePc	34	08.10	0.4
FIN	1.45	238	P	34	09.54	0.4
			S	34	27.79	
ORO	1.52	296	P	34	09.70	-0.4
			eSn	34	30.30	
ORX	1.52	296	P	34	10.12	0.0
			S	34	28.52	
VDL	1.53	348	ePc	34	11.20	0.7
CTI	1.61	48	P	34	10.50	-1.0
			eSn	34	32.60	
ROB	1.62	245	P	34	12.31	0.7
			S	34	32.47	
OSS	1.71	5	ePd	34	14.00	1.1
SFI	1.74	127	P	34	12.50	-0.8
MMK	1.74	308	ePd	34	16.70	3.2X

IMI	1.81	234	P	34	14.21	-0.2
			S	34	35.39	
DOI	1.97	257	P	34	17.00	0.3
LLS	1.99	341	ePd	34	20.30	3.2X
PZZ	2.07	258	P	34	17.71	-0.5
SBF	2.11	239	Pn	34	19.40	0.7
			Sn	34	46.00	
LPG	2.30	284	Pn	34	21.40	-0.3
PGF	2.53	196	Pn	34	23.40	-1.3
			Sn	34	53.00	
FVI	2.56	50	P	34	25.00	0.0
WTTA	2.57	27	ePn	34	27.00	1.7
			i(Sg)	34	58.50	
FRF	2.76	240	Pn	34	27.60	-0.3
			Sn	35	01.50	
CDF	3.88	333	Pn	34	42.40	-1.5
			Sn	35	26.00	
HAU	3.90	322	Pn	34	43.20	-0.9
			Sn	35	28.00	
SMF	4.57	293	Pn	34	53.50	-0.1
			Sn	35	45.60	
LBF	4.60	298	Pn	34	53.60	-0.5
			Sn	35	46.40	
LOR	4.80	301	Pn	34	56.00	-0.9

S.D. = 0.8 on 29 of 31 obs.

* OCT 30, 1991 03h 17m 13.96±1.38s
31.928 S ± 7.0km 72.219 W ± 16.2km
DEPTH = 27.5 ± 5.4 km
OFF COAST OF CENTRAL CHILE (134)
MD 4.5 (SAN). Felt (II) in the
Santiago area.

IHA	1.20	156	eP	17	35.00	0.1
			i(S)	17	47.30	
ROCH	1.46	136	iPd	17	37.60	-1.3
JACH	1.57	119	iPd	17	39.60	-0.8
			iS	17	56.10	
LCCH	1.64	161	iP	17	41.60	0.3
PEL	1.77	134	iPd	17	43.10	-0.2
SAN	2.01	140	iP	17	46.50	-0.2
			iS	18	09.70	
TACH	2.03	148	iPc	17	47.10	0.1
LNV	2.13	162	iP	17	49.50	1.1
PCH	2.22	140	iPd	17	49.20	

Lat 5.95S 0.04 Lon 153.81E 0.04	KIW 39.79 155 eP 10 10.30 -0.1	0.8s 280.00nm 6.4mb
Dep 48.0 2.9 Half-duration 2.2	MNG 39.83 154 P 10 10.40 -0.4	pP 13 03.00 64km
Moment Tensor: Scale 10**17 Nm	0.6s 38.00nm 5.5mb	sP 13 08.00
Mrr=2.09 0.06 Mtt=-1.21 0.13	MRW 40.01 155 eP 10 11.60 -0.6	HHC 60.38 324 P 12 47.00 0.0
Mff=-0.88 0.13 Mrt=0.89 0.13	CAW 40.06 155 eP 10 12.10 -0.5	1.0s 47.00nm 5.6mb
Mrf=-0.24 0.14 Mtf=1.14 0.08	WEL 40.08 155 (P) 10 12.10 -0.7	Z 22s 1.29um 5.0msz
Principal Axes:	WDW 40.16 155 eP 10 12.80 -0.6	E 10s 0.34um
T Val=2.32 Plg=75 Azm=356	PGZ 40.18 153 eP 10 13.10 -0.5	pP 13 00.00 46kmX
N 0.04 10 127	0.5s 91.00nm 5.9mb	sP 13 09.00
P -2.35 11 219	40.28 155 P 10 13.70 -0.8	BTO 61.14 323 eP 12 52.00 -0.2
Best Double Couple: Mo=2.3*10**17	MOW 40.39 155 P 10 14.70 -0.7	pP 13 05.00 46kmX
NP1:Strike=321 Dip=35 Slip=107	BLW 40.44 155 P 10 15.20 -0.6	ePP 15 03.00
NP2: 121 57 78	KHZ 40.55 157 P 10 15.70 -0.9	DRV 61.66 186 eP 12 56.20 1.0
	0.8s 133.00nm 5.8mb	ADK 62.58 20 P 13 01.30 -0.2
RAB 2.26 310 iPc+ 03 18.00 -0.3	EWZ 40.56 161 P 10 17.70 1.0	1.0s 120.00nm 5.9mb
0.8s 895.52nm	e 10 25.80 27kmX	LZH 62.60 316 iPc 13 03.50 1.3
iS 03 32.00	e 10 33.80	1.5s 690.00nm 6.5mb
LAT 6.93 261 iPd 04 21.50 -2.2	TRT 41.02 265 iPd 10 22.30 1.4	Z 22s 1.28um 5.0msz
HNR 7.07 122 eP 04 27.00 1.4	BWZ 41.17 163 eP 10 21.10 -0.6	E 15s 0.76um
eS 05 52.00	MOZ 41.34 159 eP 10 22.60 -0.5	PcP 13 37.00
PMG 7.66 240 iPd- 04 31.00 -2.7X	TUZ 42.40 164 P 10 31.40 -0.4	PP 15 23.00
eS 05 59.50	e 10 49.50 73km	PcS 17 39.00
YYYY 7.91 265 iPd 04 37.90 0.5	KLB 42.53 228 eP 10 32.00 -1.1	eS 21 28.50
MDG 8.09 272 eP 04 41.00 1.3	KAGJ 42.73 330 eP 10 34.90 0.3	ScS 22 43.00
MNDI 10.20 267 eP 05 08.00 -0.8	MRWA 42.78 232 iPd 10 34.80 -0.3	GTA 67.02 317 iPc 13 32.00 1.3
OIS 20.30 222 iPd 07 14.00 -1.4	BAL 42.85 230 eP 10 35.00 -0.7	1.0s 280.00nm 6.2mb
0.7s 62.00nm 5.0mb	KAKJ 43.59 344 eP 10 41.90 0.4	Z 18s 1.16um 5.1msz
i 07 35.00 110kmX	IIDJ 43.59 341 eP 10 43.60 1.9	E 15s 0.77um
DZM 20.33 145 Pc 07 14.70 -1.1	CHJJ 43.78 342 P 10 41.40 -1.7	sP 13 47.00
iS 10 59.90	KUMJ 43.86 331 P 10 43.80 0.0	PcP 13 58.00
GUA 21.05 335 e(P) 07 23.50 0.4	TSRJ 44.30 339 P 10 46.20 -1.1	S 22 22.00
1.0s 608.00nm 5.9mb	MAT 44.48 342 (P) 10 46.00 -2.8X	sS 22 39.00
GUMO 21.12 335 eP 07 21.50 -2.2	RKG 44.59 225 eP 10 50.00 0.3	CSY 67.54 197 iPc 13 33.10 -0.2
1.0s 341.90nm 5.6mb	MTMJ 44.64 341 P 10 48.40 -1.8	0.6s 37.90nm 5.5mb
Z 27s 2.34um 4.4mszX	NIJJ 44.88 343 P 10 51.10 -0.9	SHL 67.68 300 iP 13 35.50 0.3
PJG 21.12 335 eP 07 21.70 -2.0	SHNJ 45.05 333 P 10 52.30 -1.0	iS 22 30.40
RMQ 21.29 193 iPd 07 25.30 -0.1	OZH 45.88 313 Pd 11 00.50 0.5	LSA 69.62 304 iPc 13 48.20 0.8
0.9s 151.00nm 5.4mb	0.7s 98.00nm 5.8mb	RKT 70.45 112 iP 13 51.10 -0.9
i 07 36.00 42kmX	OFUJ 45.93 347 eP 11 01.00 0.8	0.8s 80.00nm 5.7mb
i 11 25.00	TPI 46.20 272 ePc 11 03.50 0.7	GUN 73.50 301 P 14 11.20 0.7
BRS 21.64 183 eP 07 28.00 -0.9	e 14 00.00	PKI 73.81 301 P 14 12.00 0.6
i 07 37.00 33kmX	SSE 48.09 321 Pc 11 18.00 0.7	KKN 73.98 301 P 14 13.80 0.7
i 08 10.00	1.6s 160.00nm 5.7mb	DMN 74.08 301 P 14 14.80 1.1
iS 11 24.00	Z 20s 1.10um 4.8msz	GKN 74.58 301 P 14 17.80 1.3
OLP 22.76 203 iPd 07 40.00 0.1	sS 18 32.00	PDB 76.94 24 ePd 14 28.50 -0.4
i 07 53.50 57kmX	GZH 48.84 307 iPc 11 25.00 1.8	ipP 14 47.30 69km
i 11 33.00	1.2s 140.00nm 5.9mb	WMQ 77.11 317 iPc 14 31.50 1.2
MTN 23.57 251 eP 07 46.00 -1.8	Z 20s 1.87um 5.1msz	1.5s 110.00nm 5.6mb
e 07 56.00 37kmX	MCQ 48.87 176 iPc 11 24.30 1.4	Z 22s 0.72um 4.9msz
WR2 23.72 231 eP 07 47.30 -2.0	0.7s 50.20nm 5.6mb	PP 17 30.00
0.7s 24.00nm 4.8mb	OIZ 49.84 301 P 11 32.60 1.6	S 24 18.00
ARMA 24.72 185 iPc 08 00.50 1.5	NJ2 50.20 321 Pc 11 34.00 0.5	SKS 24 35.50
i 08 19.00 83kmX	1.0s 96.00nm 5.8mb	SVW 77.18 23 eP 14 31.40 1.1
e 11 33.80	Z 24s 0.88um 4.7mszX	0.9s 87.50nm 5.7mb
ASPA 26.29 225 iPd 08 13.40 -0.2	KGM 51.09 277 ePd 11 41.20 0.6	ipP 14 50.40 70km
0.8s 83.60nm 5.3mb	WHN 52.23 316 iPc 11 49.50 0.6	HYB 77.81 289 iPc 14 35.00 0.4
Z 21s 5.80um 5.1msz	1.2s 250.00nm 6.1mb	0.8s 76.90nm 5.7mb
iPcP 11 38.40	DL2 53.47 329 eP 11 56.00 -1.8	i 14 48.50 46kmX
eS 12 45.50	IPM 53.77 280 ePc 12 00.00 -0.6	RSO 77.92 24 e(P) 14 33.00 -1.6
eScS 19 07.40	e 13 07.90 318kmX	TTA 78.17 21 ePc 14 35.70 -0.1
KNA 26.62 246 eP 08 16.70 0.1	TIA 54.05 323 eP 12 01.80 -0.4	ipP 14 55.20 72km
e 08 33.00 69km	SNG 54.67 283 eP 12 07.00 -0.2	eP 14 39.40 -0.8
CNB 29.81 187 iPc 08 47.00 1.7	1.2s 196.88nm 6.0mb	ipP 14 59.10 73km
0.5s 11.00nm 4.8mb	SNY 54.76 332 Pc 12 06.00 -1.3	PMR 80.01 24 ePc 14 45.40 -0.3
ADE 32.37 204 e(P) 09 07.00 -0.7	CN2 55.53 335 Pc 12 11.60 -1.3	0.9s 154.17nm 5.9mb
TOO 32.68 192 e(P) 09 03.00 -7.3X	1.0s 29.00nm 5.3mb	ipP 15 03.70 67km
e 09 18.00 61km	Z 20s 1.78um 5.1msz	IMA 80.90 19 iPc 14 50.30 -0.2
i 11 55.00	eP 12 23.00 39kmX	ipP 15 10.10 73km
BFD 33.04 197 eP 09 10.60 -2.9X	GYA 55.78 307 iPc 12 15.80 0.6	RND 81.09 23 iPc 14 50.50 -1.0
i 11 52.30	1.4s 110.00nm 5.7mb	ipP 15 09.20 68km
WARB 33.08 229 eP 09 13.70 -0.3	Z 20s 2.00um 5.2msz	NDI 81.10 300 iPc 14 52.00 -0.1
0.6s 19.00nm 5.1mb	LOE 56.38 295 iPc 12 20.00 0.5	1.0s 140.00nm 5.8mb
MBL 36.42 242 eP 09 42.00 -0.6	BJI 57.21 326 eP 12 23.50 -1.4	KLK 81.29 25 eP 14 52.60 0.1
0.8s 15.00nm 5.0mb	1.4s 39.00nm 5.3mb	eP 15 11.60 69km
KUZ 36.83 150 P 09 46.30 0.6	Z 19s 0.83um 4.9msz	FBA 82.27 21 ePd 14 56.00 -1.5
e 10 03.00 67km	NST 57.29 293 iPc 12 30.50 4.6X	0.8s 74.14nm 5.7mb
MOZ 37.80 153 P 09 55.00 1.1	XAN 57.99 316 iPc 12 30.40 -0.2	ipP 15 15.80 73km
KHKI 38.09 264 eP 09 54.50 -2.1	0.9s 160.00nm 6.1mb	POO 82.40 289 iPc 14 58.60 -0.5
e 13 06.40	KMI 58.37 304 Pc 12 35.00 1.4	KSH 84.30 310 P 15 12.00 3.5X
RUZ 38.55 153 eP 10 01.10 0.9	1.5s 380.00nm 6.3mb	SPA 84.38 180 iPc 15 09.00 0.6
URZ 38.70 150 P 10 01.90 0.5	Z 24s 1.90um 5.1mszX	1.0s 156.00nm 6.0mb
HBZ 38.80 148 eP 10 02.70 0.5	pP 12 49.00 51kmX	INK 88.86 21 eP 15 29.00 -1.0
0.8s 151.00nm 6.0mb	KHT 58.46 291 iPc 12 35.40 1.3	GMW 89.63 42 e(P) 15 52.10 18.0X
PUZ 39.14 149 P 10 05.10 0.0	CHG 59.34 296 iPc 12 41.00 0.8	LON 90.17 43 P 15 54.60 17.9X
KKM 39.37 287 ePc 10 07.00 -0.5	1.0s 187.50nm 6.2mb	QUE 90.18 300 iPc 15 38.10 0.9
NOZ 39.44 150 P 10 07.70 0.2	CD2 60.12 310 iPc 12 46.00 0.6	0.9s 516.81nm 6.8mb X
THZ 39.74 158 P 10 09.80 -0.3		PNT 91.95 41 eP 15 48.00 3.2X

30d 04h

TNP	92.57	52 eP	15 48.30	0.2
NEW	93.50	42 P	15 51.00	-0.9
	1.0s	17.50nm		5.4mb
YKA	95.67	28 eP	16 00.70	-0.8
	0.7s	2.60nm		4.8mb
MAIO	96.86	306 iPc	16 07.00	-0.6
	0.9s	22.17nm		5.7mb
SES	97.55	40 eP	16 13.00	2.6X
ALO	101.12	56 e(Pd)P	16 28.30	1.2
OBN	110.03	327 ePKP	21 27.00	19.4X
	1.5s	35.00nm		
Z	20s	0.50um		5.1MsZ
E	20s	0.30um		
		e	21 41.00	
BFT	117.26	237 iPKPd	21 25.00	2.3X
	0.6s	15.33nm		
NB2	118.08	340 PKP	21 21.10	-1.8
	0.8s	1.50nm		
SEK	118.22	234 ePKP	21 24.60	0.2
	0.9s	46.22nm		
SLR	118.71	237 iPKPd	21 23.00	-2.3
	0.9s	29.41nm		
MTD	118.79	247 iPKPc	21 27.00	1.4
HYD	118.91	231 e(PKP)	21 28.00	2.4X
BLF	119.03	232 iPKPc	21 26.00	0.1
FRS	119.43	231 iPKPd	21 25.90	-0.5
	0.6s	60.00nm		
BUL	120.44	243 iPKPd	21 28.90	0.1
	0.9s	62.60nm		
KRI	120.58	247 iPKPd	21 27.00	-2.1
SPC	121.64	326 e(PKP)	21 32.30	2.1
CER	122.09	225 iPKPd	21 30.00	-1.4
	0.9s	92.31nm		
TUH	122.23	225 iPKPd	21 33.00	1.4
	0.8s	52.24nm		
LSZ	122.34	248 iPKPd	21 33.00	0.6
BZS	122.66	322 ePKP	21 31.50	-0.5
KSP	122.80	329 ePKP	21 33.00	0.9
		e	22 54.00	
ZST	123.93	326 ePKP	21 35.00	0.6
		e	21 51.20	
		e	21 54.60	
BRG	123.95	331 ePKP	21 33.40	-1.0
CLL	124.12	331 ePKP	21 34.00	-0.7
	0.9s	10.00nm		
SKO	124.49	318 ePKP	21 37.00	1.2
KHC	125.24	329 PKP	21 38.00	1.0
		e	21 48.50	
GEC2	125.35	329 ePKPd	21 35.80	-1.5
	0.5s	0.46nm		
GRB5	126.21	330 ePKP	21 39.70	0.8
Z	19s	0.40um		5.1MsZ
WTTA	127.43	328 iPKPd	21 41.10	-0.4
	1.2s	15.70nm		
		i	21 48.50	
WIN	129.29	235 ePKP	21 47.00	1.2
	0.6s	21.33nm		
BSF	129.45	332 ePKP	21 46.30	1.1
	1.0s	12.00nm		
LPL	131.12	330 ePKP	21 49.40	0.8
	0.6s	2.25nm		
LPG	131.12	330 ePKP	21 49.40	0.7
	0.7s	3.85nm		
SSF	131.53	333 ePKP	21 50.40	1.3
	0.8s	9.40nm		
CCH	134.30	121 PKP	21 56.00	0.4
LIJA	143.60	331 ePKP	22 00.00	-3.7X
ALJ	143.87	331 ePKP	22 09.00	-3.2X
MOMI	144.21	331 ePKP	22 09.00	-3.6X
VAO	144.97	145 ePKP	22 13.50	-0.9
		e	22 17.30	
		e	22 31.60	
IFR	146.11	328 iPKPc	22 18.00	1.8
AVE	147.46	330 iPKP	22 19.00	0.9
		i	22 40.50	
TIO	149.26	327 iPKP	22 25.50	4.3X
		i	22 45.00	
BAO	149.71	135 ePKPc	22 23.00	0.8
PDCR	157.77	144 ePKP	22 34.20	1.0
KIC	158.75	273 PKP	22 35.64	1.2
LIC	159.03	273 PKP	22 35.90	1.2
SOB1	159.13	135 ePKP	22 34.70	-0.1
		e	23 11.40	

S.D. = 1.0 on 159 of 176 obs.

? OCT 30, 1991 04h 22m 10.07±1.40s
14.296 S ±12.8km 166.413 E ±33.4km

DEPTH = 33.0km (normal)
4.7mb (1 obs.)
VANUATU ISLANDS (186)

DZM	7.73	180 iPc	24 03.30	0.0
		iS	25 38.90	
ASPA	32.06	248 iPc	28 36.30	0.0
	0.6s	7.20nm		4.7mb
GUN	88.46	299 P	35 01.60	0.4
PKI	88.76	299 P	35 02.60	0.0
KKN	88.93	299 P	35 03.40	0.1
DMN	89.03	299 P	35 03.60	-0.2
GKN	89.54	299 P	35 05.80	-0.3
NB2	129.99	345 PKP	41 16.20	-1.6X
	0.7s	0.80nm		
	S.D. = 0.3	on 7 of 8 obs.		
* OCT 30, 1991 04h 56m 21.90±0.35s 16.284 S ±11.0km 173.478 W ±14.2km DEPTH = 33.0km (normal) 5.0mb (8 obs.)				
TONGA ISLANDS (173)				
DZM	19.81	250 iPc	00 55.20	2.4
KUZ	22.52	203 eP	01 20.60	0.5
URZ	23.41	199 eP	01 28.30	-0.4
MNG	26.07	199 eP	01 53.00	-1.2
THZ	27.97	202 eP	02 11.00	-0.6
KHZ	28.32	201 eP	02 15.10	0.4
	0.6s	24.00nm		5.1mb
		e	02 18.80	
EWZ	30.24	203 eP	02 31.70	-0.1
		e	02 36.70	
CMS	39.92	240 iPd	03 54.70	-0.1
	0.8s	41.00nm		5.2mb
TOO	41.85	231 eP	04 10.00	-0.6
WR2	49.55	257 eP	05 10.80	-1.2
	0.5s	7.50nm		5.0mb
		i	06 33.90	
ASPA	49.77	253 iPc	05 12.70	-1.0
	0.7s	35.00nm		5.5mb
Z	23s	0.30um		4.2MsZ
WARB	56.27	249 eP	06 00.60	-1.3
MBL	62.95	254 iPd	06 47.20	-0.7
	0.4s	4.00nm		4.9mb
ANMO	81.42	50 eP	08 37.20	-0.3
	1.1s	9.49nm		4.7mb
LRM	82.75	38 eP	08 43.20	-1.0
BW06	82.98	42 ePc	08 44.20	-1.2
	0.6s	3.49nm		4.6mb
		e	08 56.60	
FBA	83.27	11 ePd	08 44.90	-1.3
	0.6s	12.32nm		5.2mb
SES	85.97	35 eP	08 59.00	-1.0
		pP	09 10.00	35kmX
MAW	86.94	199 eP	09 06.00	1.5
HFS	135.90	355 ePKP	15 41.10	0.4
	0.5s	1.40nm		
KRA	144.61	345 ePKP	15 54.80	-1.8
KSP	144.64	349 iPKP	15 55.40	-1.3
CLL	144.68	353 iPKPd	15 54.70	-2.0
	0.8s	14.00nm		
BRG	144.98	352 e(PKP)	15 56.20	-1.1
SPC	145.33	344 iPKP	15 58.40	0.2
MOX	145.48	354 iPKPd	15 58.10	-0.1
ENN	145.60	1 ePKP	15 58.00	-0.3
	1.0s	11.00nm		
MEM	145.76	1 PKP	15 59.30	0.7
PRU	145.76	351 PKP	15 58.60	0.0
		e	16 13.10	
HOF	145.78	354 iPKPd	15 59.00	0.3
VR1	146.01	334 iPKPd	16 00.00	0.8
DOU	146.24	2 PKP	15 59.80	0.4
GRF	146.46	354 ePKP	16 01.40	1.6
		e	16 02.20	
		e	16 15.80	
MLR	146.63	335 ePKPd	16 02.00	1.6
WLF	146.71	0 PKP	16 02.00	1.9
KHC	146.74	352 iPKPc	16 02.10	1.8
		e	16 10.60	
GEC2	147.00	351 ePKPc	16 00.70	-0.1
	0.6s	5.64nm		
ZST	147.01	347 ePKP	16 02.70	2.0X
SRO	147.09	345 ePKP	16 03.50	2.7X
FLN	147.11	9 ePKP	16 02.00	1.2
	1.0s	16.00nm		
LDF	147.32	8 ePKP	16 02.60	1.4

0.6s 3.60nm
GRR 147.42 9 ePKP 16 03.00 1.7
0.7s 8.80nm
LPF 147.73 10 ePKP 16 04.10 2.3X
0.6s 13.55nm
CDF 147.95 359 ePKP 16 05.30 3.0X
1.0s 20.00nm
FUR 147.97 354 iPKPd 16 05.90 3.6X
0.7s 40.00nm
BHG 148.22 352 iPKPd 16 06.60 3.9X
0.9s 24.00nm
HAU 148.37 0 ePKP 16 06.40 3.5X
1.0s 20.00nm
BSF 148.54 360 ePKP 16 06.60 3.3X
0.8s 5.35nm
KBA 148.78 351 iPKPd 16 07.30 3.5X
0.7s 7.40nm
ic 16 07.70
WTTA 148.82 353 iPKPc 16 07.70 3.8X
0.7s 18.30nm
id 16 07.90
i 16 24.50
LOR 149.03 4 ePKP 16 08.10 4.1X
0.6s 4.95nm
SSF 149.21 4 ePKP 16 08.60 4.3X
0.8s 8.05nm
LBF 149.32 3 ePKP 16 08.80 4.3X
1.0s 16.00nm
AVF 149.47 4 ePKP 16 09.00 4.4X
0.8s 5.35nm
SMF 149.65 4 ePKP 16 09.40 4.5X
0.8s 5.35nm
BGF 149.66 5 ePKP 16 09.60 4.6X
0.8s 5.35nm
LSF 149.83 7 ePKP 16 09.30 4.1X
1.0s 19.60nm
TCF 149.87 6 ePKP 16 09.80 4.5X
1.0s 10.00nm
VBY 149.96 348 e(PKP) 16 10.50 5.1X
e 16 24.00
MAF 149.97 5 ePKP 16 10.30 4.9X
1.0s 18.00nm
LPL 150.86 360 ePKP 16 13.70 6.6X
1.0s 8.00nm
LPG 150.88 360 ePKP 16 13.90 6.7X
1.0s 13.00nm
LFF 151.02 8 ePKP 16 12.80 5.8X
0.8s 9.40nm
LPO 151.33 8 ePKP 16 13.40 5.9X
0.6s 5.40nm
SKO 151.37 336 ePKP 16 13.60 5.9X
OHR 152.35 336 ePKP 16 16.00 6.8X
S.D. = 1.2 on 40 of 66 obs.

? OCT 30, 1991 04h 57m 38.98±1.78s
3.432 N ±19.4km 75.978 W ±32.5km
DEPTH = 140.0km (geophysicist)
COLOMBIA (103)
MD 2.7 (UVC).

DIAC 0.26 237 ePc 57 59.79 -0.1
eS 58 15.10
HOOC 0.66 273 ePc 58 00.54 -0.1
eS 58 16.00
CLWC 0.73 307 eP 58 01.31 0.2
eS 58 17.70
SALC 0.85 238 ePc 58 02.21 0.2
eS 58 19.10
ANCC 0.89 275 eP 58 02.01 -0.2
eS 58 18.90
HOBC 0.93 350 eP 58 02.63 0.0
S.D. = 0.2 on 6 of 6 obs.

? OCT 30, 1991 06h 47m 51.16±2.19s
31.664 S ±28.0km 70.123 W ±22.6km
DEPTH = 120.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)

ZON 1.24 85 eP 48 16.00 0.0
ROCH 1.50 210 iPd 48 19.70 0.4
iS 48 40.00
PEL 1.55 198 iPd 48 19.50 -0.1
iS 48 39.50
SAN 1.84 194 (P) 48 23.00 -0.1
iS 48 46.00
PCH 1.98 189 iPd 48 25.00 0.1
iS 48 48.50

TACH 2.10 199 iPd 48 26.40 0.0
 LCCH 2.18 214 eP 48 27.50 0.1
 CHCH 2.31 191 iP 48 29.40 0.4
 LNV 2.53 205 iP 48 31.00 -0.9
 S.D. = 0.4 on 9 of 9 obs.

OCT 30, 1991 06h 57m 03.58 ± 2.27s
 4.862 N ± 9.2km 126.366 E ± 16.0km
 DEPTH = 104.2 ± 20.8 km
 4.7mb (7 obs.)

TALAUD ISLANDS, INDONESIA (263)

MNI 3.72 204 ePd 58 00.00 -0.1
 TPI 20.17 248 ePd 01 33.50 1.4
 MBL 26.64 194 iPd 02 34.30 -0.1
 QIS 28.41 153 eP 02 51.00 0.6
 ASPA 29.29 166 iPd 02 57.40 -1.0
 CHG 30.14 300 eP 03 04.00 -1.9
 WARB 30.86 180 eP 03 12.20 0.1
 XAN 33.25 333 P 03 32.00 -0.9
 MRWA 35.32 196 iPd 03 50.40 -0.2
 SNY 36.89 357 eP 04 04.60 0.9
 LZH 37.35 329 Pc 04 08.40 0.6
 GTA 41.95 329 P 04 45.60 -0.2
 GUN 44.77 305 P 05 09.20 0.1
 PKI 45.03 305 P 05 12.20 1.1
 KKN 45.22 305 P 05 10.80 -1.7
 DMN 45.29 305 P 05 14.40 1.3
 GKN 45.82 305 P 05 16.80 -0.4
 KAF 00.43 332 iP 09 55.20 0.9
 NB2 97.62 334 P 10 26.80 -0.5
 S.D. = 1.0 on 19 of 19 obs.

OCT 30, 1991 09h 01m 58.49 ± 0.52s
 9.696 N ± 8.6km 82.197 W ± 7.2km
 DEPTH = 10.0km (geophysicist)
 4.6mb (11 obs.)

PANAMA-COSTA RICA BORDER REGION (80)

UPA 2.72 105 iPd 02 42.90 -0.2
 SALC 8.63 140 eP 04 07.30 0.7
 DIAC 8.72 136 eP 04 08.79 1.0
 PURC 9.34 141 eP 04 16.24 -0.5
 BMG 9.39 105 eP 04 19.00 1.9
 BOG 9.51 121 e(P) 05 09.00 50.1X
 CUMC 9.69 153 eP 04 17.84 -3.6X
 PSO 9.74 150 eP 04 24.50 2.4X
 SDV 11.44 93 eP 04 44.60 -0.6
 TOV 12.23 89 eP 04 56.30 0.5
 PORP 17.23 59 (P) 06 00.50 -0.5
 CLLP 17.29 60 P 06 04.50 2.8X
 CPD 17.84 61 P 06 05.60 -3.0X
 LPR 18.00 60 P 06 13.80 3.2X
 GRW 20.31 81 eP 06 38.67 1.0
 TRN 20.49 86 eP 06 39.00 -0.4
 PAG 20.96 70 eP 06 44.00 -0.3
 BPA 21.08 68 eP 06 45.00 -0.5
 MGG 21.27 71 eP 06 48.00 0.6
 NNA 22.19 166 eP 07 01.50 4.8X
 CCH 31.23 149 P 08 19.00 -2.0
 ALO 33.51 322 e(P) 08 35.00 -5.6X
 GOL 36.32 329 eP 09 06.10 1.4
 S.D. = 0.4 on 9 of 9 obs.

BW06 40.72 329 eP 09 42.00 0.7
 BGMT 43.73 329 eP 10 04.60 -1.3
 ORV 45.90 317 eP 10 24.30 1.2
 SES 47.06 335 eP 10 33.00 0.9
 NEW 48.35 329 eP 10 42.40 0.1
 PNT 50.29 329 eP 10 58.00 0.9
 YKA 57.68 343 eP 11 46.20 -5.1X
 INK 67.39 342 eP 12 53.00 -2.9X
 FBA 71.03 336 eP 13 16.50 -1.8
 RSO 72.06 331 eP 13 25.00 0.2
 TOL 74.77 51 eP 13 45.00 4.2X
 KIC 76.63 86 P 13 51.40 -0.4
 NB2 83.25 29 P 14 25.40 -1.0
 CLL 85.75 39 eP 14 42.00 2.9X
 BRG 86.41 39 iP 14 45.80 3.4X
 GEC2 86.64 41 ePc 14 42.00 -1.7
 ZST 88.98 41 e(P) 14 58.40 3.5X
 WR2 143.29 250 ePKP 21 29.40 -6.3X
 S.D. = 1.1 on 26 of 41 obs.

OCT 30, 1991 09h 23m 26.91 ± 0.59s
 40.830 N ± 7.1km 27.788 E ± 5.0km
 DEPTH = 10.0km (geophysicist)

TURKEY (366)

DMK 0.99 359 iPg 23 46.00 0.3
 ISK 0.99 76 ePg 23 46.10 0.4
 YLV 1.23 102 ePn 23 49.70 -0.2
 ALN 1.32 273 eP 23 51.00 -0.3
 IZI 1.37 110 iPn 23 51.40 -0.8
 DST 1.38 152 iPn 23 53.10 0.8
 HRT 1.43 90 ePn 23 52.60 -0.3
 EZN 1.50 229 ePn 23 53.90 0.0
 S.D. = 0.6 on 8 of 8 obs.

OCT 30, 1991 10h 35m 41.44 ± 0.11s
 15.310 S ± 3.2km 173.187 W ± 3.4km
 DEPTH = 17.8km (geophysicist)
 5.8mb (64 obs.) 6.4Msz (36 obs.)

TONGA ISLANDS (173)

Mo=2.0*10**18 Nm (PPT). Felt at
 Apia, Western Samoa. Depth from
 broadband displacement
 seismograms.
 FAULT PLANE SOLUTION: P-Waves
 NP1:Strike=275 Dip=80 Slip= 90
 NP2: 95 10 90
 Principal Axes:
 T Plg=55 Azm=185
 P 35 5

Comment: The focal mechanism is
 moderately well controlled and
 corresponds to reverse
 faulting. The preferred fault
 plane is NP2.

MOMENT TENSOR SOLUTION
 Dep 12 No. of sta: 19
 Moment Tensor: Scale 10**18 Nm
 Mrr= 0.93 Mtt=-1.05
 Mff= 0.12 Mrt=-1.73
 Mrf= 0.35 Mtf=-0.71
 Principal axes:
 T Val= 2.15 Plg=54 Azm=212
 N -0.01 22 89
 P -2.14 28 347
 Best Double Couple:Mo=2.1*10**18
 NP1:Strike= 35 Dip=26 Slip= 33
 NP2: 275 76 113

CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 25S, 71C
 Centroid Location:
 Origin Time 10:35:51.9 0.2
 Lat 15.11S 0.03 Lon 173.07W 0.02
 Dep 48.1 1.9 Half-duration 5.0
 Moment Tensor: Scale 10**18 Nm

Mrr= 0.82 0.03 Mtt=-0.38 0.05
 Mff=-0.43 0.05 Mrt=-2.26 0.06
 Mrf= 0.46 0.04 Mtf=-0.01 0.03
 Principal Axes:
 T Val= 2.60 Plg=52 Azm=191
 N -0.43 0 281
 P -2.17 38 12
 Best Double Couple:Mo=2.4*10**18
 NP1:Strike=102 Dip= 7 Slip= 91
 NP2: 281 83 90

API 2.03 43 P 36 09.00 -6.2X
 VUN 8.44 250 ePc 37 54.10 8.3X
 SVA 8.48 250 ePc 37 54.60 8.3X
 SGE 8.82 254 eP 38 00.80 9.6X
 RAR 14.02 117 P 38 56.00 -5.5X
 PVC 17.90 260 iPc 39 55.30 4.1X
 DZM 20.42 248 iPc 40 20.10 -0.5
 AFR 22.56 99 iP 40 43.80 1.7
 PAE 22.75 99 iP 40 45.70 1.7
 PPT 22.75 99 iP 40 45.90 1.8
 PPN 22.89 99 iP 40 47.10 1.7
 TVO 23.07 99 iP 40 49.10 1.9
 WCZ 23.38 206 eP 40 51.70 1.8
 HBZ 23.45 197 eP 40 50.00 -0.6
 KUZ 23.52 203 eP 40 53.20 1.8
 PUZ 23.90 197 eP 40 57.20 2.1
 PMO 24.41 93 iP 41 00.40 0.3
 URZ 24.41 199 P 41 00.50 0.5
 NOZ 24.47 197 P 41 03.90 3.3X
 TAZ 24.58 200 eP 41 03.30 1.7
 VAH 24.65 93 iP 41 02.10 -0.4
 TPT 24.68 93 iP 41 02.70 0.0
 PAHZ 24.98 198 P 41 06.30 0.8
 WHH 25.18 199 eP 41 07.40 -0.1
 MOZ 25.42 202 eP 41 10.90 1.3
 NGZ 25.73 200 eP 41 11.70 -1.1
 RUZ 25.78 201 P 41 12.50 -0.5
 WAHZ 25.97 199 eP 41 16.20 1.4
 PGZ 26.83 198 P 41 23.10 0.4
 HNR 26.87 279 eP 41 29.00 5.8X
 MNG 27.08 199 eP 41 24.10 -0.8
 KIW 27.48 200 eP 41 27.30 -1.3
 CAW 27.65 199 eP 41 28.60 -1.6
 MRW 27.88 200 P 41 31.30 -0.9
 WEL 27.91 200 P 41 31.00 -1.5
 Z 20s 99.29um 6.4Msz
 N 21s 74.55um
 THZ 28.97 202 eP 41 41.50 -0.6
 KHZ 29.33 200 eP 41 43.80 -1.4
 MQZ 30.77 200 P 41 57.00 -1.0
 WVZ 30.91 203 eP 41 57.10 -2.2
 EWZ 31.24 203 P 42 00.10 -2.0
 BWZ 32.47 203 eP 42 10.30 -2.6X
 ODZ 32.64 201 P 42 13.60 -0.8
 MSCZ 33.13 203 P 42 16.90 -1.8
 LSCZ 33.16 203 P 42 17.80 -1.2
 SBCZ 33.16 203 P 42 17.70 -1.4
 CMCZ 33.23 203 eP 42 17.60 -2.0
 MSZ 33.36 205 eP 42 19.50 -1.1
 TUZ 33.78 202 P 42 24.10 -0.2
 BRS 33.79 243 iPc 42 23.00 -1.7
 SIJ 35.11 202 P 42 36.10 0.4
 ARMA 35.56 239 iPc 42 39.10 -0.9
 0.7s 48.00nm 5.5mb
 e 43 00.00 87kmX
 e 45 22.80

PPM	80.92	67	(P)	47	58.50	1.2			1.4s	180.00nm	6.2mb	E	21s	11.50um			
CN2	81.15	320	Pd	47	58.00	0.7			Z	28s	7.03um			sP	49	33.60	
	1.0s								N	20s	1.89um			PP	53	17.00	
	Z	24s	74.00nm			5.7mb			E	20s	2.89um			SKS	59	50.00	
	N	18s	30.00um			6.6MsZ		SNG	88.23	278	eP	48	31.00	SS	07	18.00	
	E	18s	2.38um								eS	59	20.00	ePc	49	15.60	
IIT	81.19	68	(P)	48	13.00	14.6X		XAN	88.75	306	P	48	37.00	eP	49	28.00	
DL2	81.26	314	P	48	00.00	2.0			1.4s	130.00nm	6.0mb			eS	01	08.00	
GZH	81.34	297	P	48	01.30	2.5X			N	20s	4.73um			ePdiff	49	34.00	
	Z	38s	7.69um			5.8MsZ			E	21s	4.23um			eS	00	10.50	
	N	24s	4.90um								sP	48	55.00	ePdiff	49	32.00	
	E	21s	3.61um								sS	59	46.00	eS	00	06.00	
			pP	48	19.00	64kmX		TUL	88.98	52	eP	48	36.00	eSKS	00	06.00	
			S	58	08.00				1.0s	60.30nm	5.9mb			(Pdiff	49	40.00	
SNY	81.35	318	Pd	48	00.60	2.2			Z	18s	10.32um	6.3MsZ		WMO	106.96	312	
	1.2s		93.00nm			5.7mb			N	18s	3.03um			Pdiff	49	59.90	
	Z	29s	8.99um			6.0MsZ			E	18s	6.88um			5.81um		6.1MsZ	
	N	16s	2.70um								eS	59	15.00	3.60um			
	E	20s	3.39um								e	05	15.00	PP	54	25.30	
			PcP	48	08.00			HHC	89.12	313	Pc	48	39.40	25.00nm	54	17.30	
			sP	48	16.80				1.2s	260.00nm	6.4mb			ePKP	54	22.00	
BGMT	81.76	39	iPd	48	00.80	0.0			N	18s	1.60um			eS	04	54.00	
OXX	81.99	70	(P)	48	04.50	2.0			E	18s	2.40um			ePKP	54	19.00	
IISM	82.01	68	(P)	48	04.00	1.7								8.80um		-5.6X	
BW06	82.07	42	P	48	01.80	-0.7					sP	48	55.00	iPKPd	54	25.40	
	1.6s		138.16nm			5.8mb					PP	52	05.00	ePKP+	54	25.00	
											SKS	59	04.00	10.00nm		-1.3	
COL	82.27	11	iPd	48	02.26	-0.5					SS	50	20.00	14.37um		6.5MsZ	
			ipPd	48	09.05	22kmX		YKA	89.93	23	P	48	40.50	12.12um			
			iS	58	11.61				1.1s	34.00nm	5.5mb			ePKP	54	40.50	
			esS	58	20.39			LOE	89.95	288	eP	48	42.60	677.22nm		1.0	
			i	58	42.90				90.13	312	P	48	44.00	ePP	54	59.60	
			i	58	58.79			BTO						e(S)	01	47.20	
FBA	82.27	11	iPc	48	01.80	-0.9			N	18s	2.07um			ePKP	54	40.00	
	0.8s		131.03nm			6.1mb			E	20s	5.05um			24.00nm		0.1	
IMA	82.45	8	iPd	48	03.70	-0.1					ePP	52	18.50	10.20um		6.4MsZ	
OIZ	83.06	292	P	48	10.00	2.2					eP	48	46.80	ePP	56	20.00	
	N	16s	1.30um					NNT	90.51	283	eP	48	53.00	eSKS	01	40.00	
	E	23s	5.95um					NST	90.95	286	eP	48	47.50	e	03	20.00	
			S	58	26.00			LNv	91.02	126	ePc	48	48.00	LR	47	56.00	
			sS	58	49.00			LCCH	91.05	125	ePc	48	49.50	e	56	21.60	
			SS	03	54.00			KMI	91.17	296	iPc	48	49.50	e	56	21.60	
LVMV	83.08	67	(P)	48	08.50	0.7			2.0s	200.00nm	6.1mb			ePKP	54	44.00	
WHN	83.21	304	Pc	48	08.00	-0.3			Z	38s	12.60um	6.1MsZ		ePKP	54	45.70	
	1.5s		76.00nm			5.6mb					ec	48	51.82	epPKP	55	03.40	
	Z	24s	6.49um			5.9MsZ		TACH	91.49	125	eP	48	55.29	e	56	40.20	
			pP	48	26.50	67kmX		CHCH	91.62	126	eP	48	50.00	e	54	53.90	
TIA	83.31	310	Pc	48	10.30	1.6			ROCH	91.66	125	eP	48	51.00	e	55	04.70
	1.2s		160.00nm			6.1mb		PCH	91.84	125	eP	48	50.00	e	56	21.60	
	Z	23s	8.32um			6.0MsZ		PEL	91.86	125	iPc	48	52.10	10.70nm		1.3	
	N	22s	4.17um						1.2s	164.06nm	6.3mb			CER	130.16	194	
	E	22s	7.95um						91.92	33	eP	48	49.00	HVD	130.94	201	
			S	58	30.00				1.5s	100.00nm	6.0mb			KAF	131.25	348	
GOL	83.44	46	P	48	09.80	0.1								0.6s	54	53.80	
	1.5s		86.48nm			5.7mb		CD2	91.94	301	P	48	52.80	10.70nm		-1.1	
GLD	83.57	46	P	48	10.80	0.6			Z	30s	6.36um	5.9MsZ		FRS	131.78	202	
	1.5s		125.00nm			5.9mb			N	22s	9.84um			0.7s	54	54.60	
	Z	20s	15.00um			6.4MsZ					pP	49	10.20	65.07nm		1.2	
AIA	83.90	156	eP	48	12.00	0.8		KHT	92.15	285	eP	48	54.50	18.66nm		-3.1X	
SES	85.01	35	ePd	48	17.00	0.0		OLY	92.19	54	iPc	48	51.80	ePKP	54	54.00	
	1.2s		511.00nm			6.6mb					eP	49	08.60	9.40um		6.4MsZ	
			pP	48	31.00	48kmX		CHG	92.87	289	eP	48	56.50	i	55	14.00	
TPX	85.41	73	(P)	48	23.50	3.9X			1.0s	15.00nm	5.4mb			ePP	57	28.00	
BJI	85.56	313	ePc	48	21.41	1.5					eS	59	24.00	eSKP	58	24.00	
	1.2s		180.00nm			6.2mb		CHTO	92.87	289	iPc	48	56.42	ePKS	59	04.00	
	Z	26s	10.00um			6.1MsZ					isPd	49	04.20	eSKS	02	08.00	
	N	18s	1.90um								eP	48	58.00	e	17	12.00	
	E	20s	2.80um					NNA	92.88	103	eP	48	58.00	LR	46	48.00	
			epPd	48	26.71	17kmX			1.1s	18.99nm	5.4mb						
			esPd	48	28.86			LZH	93.34	306	ePc	48	58.92	45.00nm		1.8	
			eSS	04	28.00				1.5s	220.00nm	6.4mb			48.00nm		-1.3	
MEO	86.45	53	iPd	48	24.00	-0.5			Z	38s	12.90um	6.1MsZ		SLR	134.16	207	
ACO	86.73	51	iPd	48	26.50	0.7			E	17s	2.68um			0.6s	55	00.20	
IPM	87.14	276	ePd	48	30.00	1.7					ec	49	00.57	26.67nm		-0.4	
	1.2s		48.60nm			5.6mb					epPd	49	04.22	8.87um		6.5MsZ	
TIIY	87.35	310	iPc	48	31.00	2.1					esPd	49	06.53	1.2s	54	58.40	
	1.1s		270.00nm			6.4mb					PP	52	45.00	1.2s	54	58.40	
	Z	12s	8.67um			6.4MsZ		FVM	93.71	52	ePd	48	58.30	13.30nm		-5.5X	
	N	19s	3.51um								epP	49	14.50	i	58	32.00	
	E	18s	3.05um					RTCB	93.93	124	iPc	49	02.00	ePKP	54	49.60	
			pP	48	40.00	28kmX			94.36	177	iPc	49	03.00	0.90nm		-11.2X	
MAW	87.94	199	iPc	48	33.40	2.3				1.4s	320.93nm	6.5mb		Z	20s	8.42um	
	1.1s		189.00nm			6.3mb		ELC	94.43	53	iPd	49	01.70	8.42um		6.5MsZ	
	Z	18s	15.00um			6.4MsZ		PWLA	94.73	55	eP	49	02.80	LR	39	45.00	
INK	88.13	14	ePd	48	30.80	-1.1			UPA	95.82	82	eP+	49	09.00	ePKPc	55	00.00
	1.3s		175.00nm			6.2mb			Z	20s	2.73um	5.7MsZ		0.6s	55	09.70	
			pP	48	48.00	61kmX		GTA	97.28	309	iPc	49	16.20	1.2s	55	14.00	
GYA	88.18	298	iPc	48	35.00	1.8				1.0s	57.00nm	6.1mb		COP	139.48	355	
									Z	21s	12.30um	6.4MsZ		0.4s	55	14.00	
														1.1s	30.00nm	4.1X	

30d 10h																	
MTD	139.82	218	iPKPd	55 06.50	-4.8X	ISR	145.92	335	ePKP	55 32.00	11.0X	ZAG	148.63	348	iPKP	55 28.00	2.8X
			ipP	55 13.50		NAI	146.07	244	ePKP+	55 25.00	2.6X	SMF	148.66	4	ePKP	55 25.50	0.2
DCN	140.46	13	ePKP	55 13.30	2.1X	Z 20s			1.42um		5.7msz	BGF	148.67	5	ePKP	55 26.10	0.8
KRI	140.93	216	iPKPc	55 08.20	-5.2X	GEC2	146.08	352	ePKPc	55 37.70	16.5X	LJU	148.68	350	ePKP	55 29.00	3.6X
			ipP	55 16.80			0.9s		64.40nm			ALT	148.73	324	iPKP	55 31.10	5.3X
WIN	141.03	195	ePKP	55 08.00	-5.5X	GEC2	146.08	352	ePKPc	55 18.90	-2.3	VOY	148.80	350	ePKP	55 28.70	3.0X
	1.0s		45.00nm				0.9s		79.22nm			LSF	148.84	7	ePKP	55 25.80	0.2
Z 22s			25.19um		6.9msz	FLN	146.11	9	ePKP	55 18.50	-2.6X	TCF	148.88	6	ePKP	55 26.10	0.4
MSL	141.47	310	ePKPc	55 08.00	-5.6X		1.2s		325.40nm			SALJ	148.90	307	PKPc	55 27.48	1.2
			ePP	58 26.50		Z 20s			42.50um		7.2msz	QTRJ	148.95	306	PKPc	55 31.40	5.0X
			eSKKS	05 06.00		ZST	146.13	348	ePKP	55 23.50	2.3	MAF	148.98	6	ePKP	55 27.10	1.3
RYD	141.57	291	ePKPc	55 10.00	-4.2X				i	55 30.80		CEY	149.00	350	ePKPc	55 30.00	4.1X
BHD	141.63	305	ePKPc	55 09.00	-5.0X	VKA	146.22	349	iPKPc	55 22.80	1.5	MASJ	149.00	307	PKP	55 27.69	1.3
			iPP	58 53.00			7.0s		7157.00nm			VBY	149.07	348	ePKP	55 31.10	5.1X
			e	04 35.00		Z 19s			5.00um		6.3msz	CTI	149.09	353	PKP	55 29.84	3.7X
			eSKKS	05 08.00					i	55 31.20		MKRJ	149.13	307	PKP	55 28.15	1.5
MJMA	142.61	293	iPKPc	55 12.00	-4.0X				i	57 30.30		TRI	149.14	350	iPKPd	55 30.50	4.5X
LSZ	142.99	216	iPKP	55 15.00	-2.0	SRO	146.22	346	iPKP	55 23.00	1.7	DST	149.17	326	iPKP	55 29.00	2.6X
DBN	143.27	2	ePKP	55 22.00	5.8X				i	55 30.40		AGO	149.20	5	PKP	55 30.95	4.8X
			ePP	58 20.00					e	06 32.00		PLDF	149.32	4	PKP	55 31.56	5.1X
WTS	143.40	0	ePKP	55 14.00	-2.4	LDF	146.32	8	ePKP	55 19.00	-2.5	LISJ	149.39	306	PKP	55 28.19	1.4
KRA	143.74	346	iPKPc	55 14.40	-2.7	BUD	146.36	345	iPKPc	55 23.30	1.7	RIY	149.39	349	iPKP	55 30.40	4.0X
			e	55 22.30		TNR	146.38	338	ePKPc	55 28.00	6.3X	EMON	149.47	21	ePKP	55 31.55	4.8X
			e	58 53.00		CMP	146.41	336	iPKPd	55 23.00	1.2	PYM	149.49	5	PKP	55 32.16	5.4X
KSP	143.74	350	iPKPc	55 15.30	-1.8	GRR	146.41	9	ePKP	55 19.40	-2.2	VAI	149.49	357	PKP	55 26.89	0.3
	1.2s		68.00nm			GWf	146.42	359	PKP	55 23.28	1.6	VAI	149.49	357	PKP	55 30.30	3.7X
			i	55 34.80		MTUR	146.44	336	ePKP	55 28.00	6.1X	BCK	149.50	321	ePKP	55 22.00	-5.0X
CLL	143.75	353	iPKP	55 15.30	-1.7	COZ	146.63	337	iPKPc	55 22.00	-0.3	ALN	149.52	331	ePKP	55 32.10	5.3X
	1.1s		42.00nm			DEV	146.66	339	ePKPc	55 25.00	2.9X	STS	149.52	23	ePKP	55 31.88	5.2X
Z 18s			3.50um		6.2msz	BBTK	146.67	322	iPKP	55 26.00	3.5X	SAL	149.64	355	PKP	55 31.39	4.6X
			i	55 33.80		LPF	146.73	10	ePKP	55 20.50	-1.6	ORX	149.76	358	PKP	55 31.26	4.1X
KVT	143.93	321	ePKP	55 01.00	-16.8X	CDF	146.99	359	ePKP	55 21.30	-1.4	ORO	149.76	358	PKP	55 31.30	4.1X
BRG	144.06	352	iPKP	55 16.00	-1.6	CDF	146.99	359	PKP	55 25.13	2.4X	RJF	149.77	7	ePKP	55 28.90	1.9
Z 21s			8.00um		6.5msz	FUR	147.03	355	iPKPd	55 25.40	2.7X		1.2s		148.75nm		
N 22s			2.00um				1.0s		212.00nm			Z 20s			12.50um		6.7msz
E 22s			4.00um			Z 21s			10.00um		6.6msz	COLF	149.77	4	PKP	55 32.56	5.5X
			i	55 17.80		VITF	147.18	1	PKP	55 25.59	2.7X	LPL	149.89	0	ePKP	55 30.40	2.9X
			i	55 35.20		ECH	147.19	360	PKP	55 25.18	2.3X	LPG	149.91	0	ePKP	55 30.70	3.1X
			eSKKS	05 25.00		DRA	147.21	337	ePKPd	55 27.00	4.0X		1.0s		125.00nm		
QASM	144.13	293	ePKPc	55 17.00	-1.6	LIBD	147.25	359	ePKP	55 25.77	2.8X	LSJ	149.95	360	PKP	55 33.73	6.1X
CLI	144.47	335	ePKP	55 17.50	-1.0	BHG	147.29	352	ePKP	55 25.60	2.5X	LBL	150.02	5	PKP	55 33.65	6.1X
SPC	144.47	345	ePKP	55 18.10	-0.5		1.4s		279.00nm		LFF	150.02	9	ePKP	55 29.60	2.2X	
			i	55 38.70		TIM	147.34	341	ePKPd	55 30.00	6.8X		1.2s		208.25nm		
MOX	144.54	355	iPKPc	55 17.70	-0.7	HAU	147.40	1	ePKP	55 22.60	-0.7	SSB	150.06	3	PKP	55 33.43	5.9X
	1.4s		104.00nm				1.0s		234.40nm		PLE	150.07	341	iPKPd	55 27.70	0.0	
Z 24s			10.00um		6.5msz	FEL	147.51	358	PKP	55 26.45	2.9X	CAF	150.21	7	ePKP	55 30.20	2.5X
N 25s			11.00um			MOF	147.55	360	PKP	55 26.50	2.9X	EZN	150.21	329	ePKP	55 32.40	4.6X
E 26s			3.50um			BSF	147.57	0	ePKP	55 23.30	-0.4	WAJH	150.22	296	iPKPc	55 22.00	-6.3X
UCC	144.55	3	PKP	55 18.30	-0.1	GPA	147.77	325	iPKP	55 28.00	3.9X	RSP	150.25	359	PKP	55 32.49	4.6X
ENN	144.63	1	ePKP	55 18.00	-0.5	WATA	147.82	354	iPKPc	55 26.80	2.7X	IVA	150.33	340	iPKPd	55 27.86	-0.2
	1.1s		152.00nm				1.2s		212.00nm		LPO	150.34	8	ePKP	55 30.10	2.2X	
AFIF	144.75	290	iPKPc	55 20.00	0.3				i	55 35.40			1.2s		124.95nm		
MEM	144.79	1	iPKPd	55 17.71	-1.1	KBA	147.86	352	iPKPc	55 26.60	2.3X	BNI	150.35	0	PKP	55 30.30	2.2X
SNF	144.83	3	iPKPd	55 18.21	-0.7		0.9s		84.40nm		SRS	150.45	334	ePKP	55 32.62	4.4X	
HOF	144.85	354	iPKPc	55 18.80	-0.2				i	55 31.10		ERUA	150.46	21	ePKP	55 24.48	-3.7X
	1.2s		97.00nm			ITU	147.89	328	iPKPc	55 24.00	-0.2	RRL	150.49	0	PKP	55 34.44	6.0X
Z 19s			9.00um		6.6msz	GBZT	147.89	327	ePKPc	55 27.00	2.8X	HQL	150.51	303	iPKPc	55 28.50	-0.1
BMR	144.90	340	ePKPd	55 19.00	-0.1	WTTA	147.89	354	iPKPc	55 27.30	3.0X	PVY	150.55	340	iPKPd	55 28.42	0.0
KAS	145.10	323	iPKPc	55 20.70	0.9		1.1s		160.00nm		BOB	150.55	356	PKP	55 33.80	5.5X	
TNS	145.15	358	ePKPd	55 19.40	-0.2				i	55 35.10		BHB	150.56	359	PKP	55 33.32	5.0X
UQSK	145.22	293	iPKPc	55 21.00	0.5				i	55 44.40		SKO	150.58	337	iPKP	55 28.20	-0.2
VRI	145.25	335	ePKP	55 20.00	0.2				i	55 47.50			1.3s		364.00nm		
DOU	145.26	3	PKP+	55 19.80	0.2	BBS	147.94	359	PKP	55 27.65	3.5X	Z 20s			7.12um		6.5msz
			e	55 37.20		GRC	147.96	5	PKP	55 27.81	3.7X	N 20s			58.00um		
BRD	145.40	335	ePKP	55 23.00	2.9X	LOR	148.04	4	ePKP	55 24.60	0.3	E 20s			4.26um		
CVO	145.51	336	ePKPd	55 21.00	0.7		1.0s		125.00nm						i	55 34.00	
GRF	145.52	355	iPKPd	55 20.70	0.5		Z 20s		22.50um						i	55 41.70	
Z 21s			7.00um		6.4msz	LOMF	148.05	360	PKP	55 27.99	3.6X				i	55 49.10	
			e	55 29.10		BHL	148.07	311	PKP	55 24.00	-0.9				i	55 52.20	
GRFO	145.52	355	ePKPc	55 18.45	-1.7				PP	58 44.00					i	59 10.00	
			epP'df	55 23.75					S	05 48.00					iPP	59 20.20	
TLB	145.72	333	ePKPd	55 21.50	0.9	AAE	148.17	262	ePKP	55 27.00	1.1				iSKS	06 02.50	
WLF	145.73	1	iPKPd	55 21.60	1.2	IZI	148.20	326	ePKP	55 28.60	3.7X				iSP	09 02.00	
KHC	145.82	352	iPKPd	55 22.00	1.3	SSF	148.22	4	ePKP	55 25.00	0.4				iSSS	18 16.00	
	1.1s		187.40nm			MFF	148.27	9	ePKP	55 24.90	0.2	NKY	150.66	342	iPKPd	55 28.76	0.2
Z 26s			9.40um		6.5msz	LBf	148.33	4	ePKP	55 24.90	0.1	PRK	150.67	328	ePKP	55 24.00	-4.6X
N 26s			2.80um			OGA	148.34	354	ePKP	55 29.00	3.9X	KNT	150.70	335	ePKP	55 33.46	4.9X
E 22s			8.40um			BEO	148.40	341	ePKP	55 26.50	1.6	VAY	150.71	335	iPKP	55 34.00	5.5X
			e	55 28.40		FVI	148.42	352	PKP	55 26.20	1.4		1.3s		279.00nm		
			e	55 37.50		AVF	148.48	5	ePKP	55 25.10	0.1				i	55 41.00	
			S	05 36.00		CSTJ	148.50	305	PKPc	55 26.94	1.3				i	55 51.40	
MLR	145.87	336	iPKPd	55 22.00	1.0	SHMJ	148.53	309	PKPd	55 25.80	0.2	BRY	150.72	342	iPKPd	55 28.82	0.1
WET	145.89	353	iPKPd	55 22.00	1.2	PTJ	148.55	348	ePKP	55 28.10	2.8X	IZM	150.				

PZ2	150.90	360	PKP	55	33.21	4.5X	EPRU	155.92	24	ePKP	55	37.59	1.5	GUN	47.33	276	P	50	38.80	-0.2	
DOI	150.90	359	PKP	55	32.60	3.7X	EJIF	156.27	25	ePKP	55	39.57	3.1X	PKI	47.85	276	P	50	42.40	-0.7	
OUR	150.92	332	ePKP	55	34.98	6.1X	MBO	157.01	89	iPKPd	55	41.40	3.4X	KKN	47.86	276	P	50	42.40	-0.7	
TTG	150.93	341	iPKPc	55	29.00	0.2	AVE	157.94	33	ePKP	55	39.50	0.8	GKN	48.28	277	P	50	46.00	-0.3	
CKI	150.95	358	PKP	55	33.50	4.7X				i	55	58.40		WRA	56.55	188	P	51	48.00	0.3	
PTO	151.00	24	ePKP	55	35.53	6.6X				i	56	29.00			0.7s		0.40nm			3.6mb	
HVAR	151.03	345	iPKP	55	34.00	5.0X	IFR	158.90	29	iPKP	55	43.00	3.0X	NB2	74.73	337	P	53	44.70	0.7	
RSM	151.08	352	PKP	55	44.10	15.1X				i	56	01.00			0.9s		4.10nm			4.4mb	
YER	151.09	323	ePKP	55	35.20	5.8X	TIO	159.81	37	iPKP	55	42.50	1.5		S.D. = 0.8 on 7 of 7 obs.						
ROB	151.10	358	PKP	55	34.03	4.9X	LIC	165.28	127	PKPc	55	46.56	-0.1		? OCT 30, 1991 12h 49m 20.16±10.15s						
HCY	151.15	342	iPKPd	55	29.42	0.2		1.6s		79.00nm					14.660 N ±35.0km 60.102 W ±87.1km						
STV	151.16	359	PKP	55	37.01	7.7X		Z 20s		4.00um					DEPTH = 31.4 ± 15.1 km						
BDI	151.16	354	PKP	55	35.52	6.3X	TIC	165.55	125	PKP	55	46.92	0.1		WINDWARD ISLANDS (95)						
SFI	151.16	352	PKP	55	35.30	6.2X		1.2s		24.00nm					ML 2.9 (FDF).						
FIN	151.17	358	PKP	55	34.96	5.7X	KIC	165.59	127	PKPc	55	46.84	0.0								
ENR	151.17	359	PKP	55	36.19	6.9X		1.5s		78.00nm											
BDV	151.20	341	iPKPd	55	29.50	0.2		S.D. = 1.2 on 335 of 520 obs.						MVM	0.78	262	iPc	49	35.16	0.4	
PGD	151.22	353	PKP	55	35.60	6.1X									S			49	43.00		
ULC	151.35	340	iPKPd	55	29.86	0.3								CRM	0.79	277	iPc	49	35.22	0.2	
PAIG	151.39	332	ePKP	55	37.06	7.5X		DCT 30, 1991 11h 05m 00.26± 4.00s							S			49	44.00		
TOUF	151.39	359	PKP	55	35.87	6.1X		43.364 N ±28.8km 19.377 E ± 7.2km						BIM	0.95	262	eP	49	37.12	-0.2	
ARV	151.42	351	PKP	55	36.10	6.5X		DEPTH = 5.0km (geophysicist)							S			49	47.20		
CRE	151.44	352	PKP	55	35.10	5.4X		NORTHWESTERN BALKAN REGION (383)						FDF	1.02	274	iPc	49	37.60	-0.7	
IMI	151.48	358	PKP	55	35.98	6.2X		ML 1.9 (TTG).							S			49	48.40		
SBF	151.54	359	ePKP	55	33.00	3.2X	PLE	0.04	159	iPgd	05	00.80	-0.8		BBL	1.58	303	eP	49	47.10	0.7
OHR	151.57	337	iPKP	55	33.00	3.0X				iSg	05	01.50			MGG	1.71	317	eP	49	47.12	-1.1
	1.2s	882.00nm					NKY	0.62	207	iPgc	05	12.06	-0.6			S			50	03.50	
										iSg	05	21.64			DEG	1.89	331	eP	49	50.90	0.1
ECRI	151.64	15	ePKP	55	37.03	7.0X				iSg	05	21.64				S			50	10.17	
CDR	151.72	2	ePKPd	55	37.50	7.5X	IVA	0.62	142	iPgd	05	12.78	0.1		DOG	2.00	313	eP	49	52.60	0.1
										iSg	05	22.56			PAG	2.04	312	eP	49	53.10	0.0
LIT	151.76	334	ePKP	55	33.26	3.0X	BRY	0.77	233	iPgd	05	15.28	-0.4			S			50	15.40	
FRF	151.84	0	ePKP	55	33.80	3.6X	PVY	0.88	150	iPgd	05	17.72	-0.1		SEG	2.20	322	eP	49	55.50	0.3
	1.0s	52.00nm								iSg	05	31.20				S			50	21.60	
ASS	151.88	351	PKP	55	44.30	13.9X	TTG	0.94	185	iPgd	05	18.34	-0.2		S.D. = 0.7 on 10 of 10 obs.						
KZN	151.89	335	ePKP	55	37.00	6.5X				iSg	05	32.44			% OCT 30, 1991 12h 53m 43.72± 0.81s						
LRG	151.95	1	ePKP	55	34.50	4.2X	HCY	1.12	215	iPgd	05	22.06	0.3		45.382 N ±15.2km 25.284 E ± 7.5km						
	1.2s	130.90nm								iSg	05	38.08			DEPTH = 10.0km (geophysicist)						
Z 20s		22.50um			7.0msz		BDV	1.15	201	iPgc	05	22.54	0.3		ROMANIA (358)						
MTE	152.04	24	iPKPc	55	37.50	6.8X				iSg	05	39.54									
							ULC	1.40	184	iPgd	05	27.54	1.0		CMP	0.21	237	iPc	53	48.00	-0.3
LMR	152.07	0	ePKP	55	34.60	4.1X				iSg	05	48.24			MLR	0.48	76	ePc	53	51.50	-2.0
	1.3s	158.85nm					HVAR	2.15	266	i(Pn)	05	42.60	5.4X		COZ	0.67	265	ePd	53	57.00	-0.1
AOU	152.46	349	PKP	55	48.08	16.9X		S.D. = 0.6 on 9 of 10 obs.						TNR	0.76	291	ePd	54	04.00	5.4X	
EGRA	152.51	12	ePKP	55	36.48	5.3X								CVO	0.76	54	ePd	53	58.50	-0.2	
MNS	152.55	351	PKP	55	37.36	6.1X		? OCT 30, 1991 12h 35m 45.75± 0.89s						ISR	0.92	105	eP	54	02.50	1.1	
MTH	152.61	28	ePKP	55	46.50	15.0X		43.204 N ± 6.6km 12.695 E ±11.7km						VRI	1.12	64	iPc	54	05.00	0.2	
								DEPTH = 10.0km (geophysicist)						DEV	1.74	288	eP	54	43.50	29.3X	
FG2	152.63	346	PKP	55	49.47	18.1X		CENTRAL ITALY (381)						CLI	1.82	49	ePc	54	16.50	1.2	
AGG	152.72	333	ePKP	55	39.02	7.4X	ASS	0.14	190	P	35	49.30	0.3		S.D. = 1.3 on 7 of 9 obs.						
MAO	152.73	353	PKP	55	45.80	14.3X				eSg	35	51.70			* OCT 30, 1991 13h 05m 21.51± 3.15s						
LIS	152.78	28	ePKP	55	38.00	6.4X	ARV	0.35	31	Pc	35	52.90	0.0		33.235 S ± 8.4km 71.757 W ±23.8km						
PGF	152.79	356	ePKP	55	37.40	5.7X				eSg	35	58.50			DEPTH = 10.0km (geophysicist)						
	1.2s	130.90nm					CRE	0.69	308	P	35	59.40	0.0		NEAR COAST OF CENTRAL CHILE (135)						
AZI	152.81	349	PKP	55	39.11	7.6X				eSg	36	08.50			IHA	0.23	25	eP	05	18.00	-8.4X
EPLA	152.89	22	ePKP	55	38.21	6.4X	MNS	0.82	181	P	36	01.40	-0.2			iS			05	26.10	
ETER	152.89	6	ePKP	55	40.58	8.9X		S.D. = 0.4 on 4 of 4 obs.						LCCH	0.29	147	iP	05	28.70	1.2	
DUI	152.92	347	PKP	55	39.72	7.8X								ROCH	0.68	67	iPd	05	34.50	-0.6	
ATH	152.93	330	ePKP	55	32.00	0.1		? OCT 30, 1991 12h 40m 52.21± 6.93s							iS			05	47.70		
								41.448 N ±38.7km 22.445 E ±27.5km						LNv	0.78	158	iPd	05	35.60	-1.0	
SDI	153.01	348	PKP	55	36.90	4.9X		DEPTH = 10.0km (geophysicist)							iS			05	50.50		
GUD	153.01	19	ePKP	55	33.46	1.3		NORTHWESTERN BALKAN REGION (383)						TACH	0.80	122	iPd	05	37.00	-0.1	
RMP	153.11	350	PKP	55	40.70	8.7X		MD 2.1 (THE). ML 1.7 (SKO).							iS			05	51.50		
HLW	153.20	307	ePKP	55	32.50	0.0				eSg	40	56.00	0.1		PEL	0.90	85	iPd	05	39.10	0.2
							VAY	0.16	143	iPgd	41	02.00			SAN	0.94	104	eP	05	40.00	0.5
										iSg	41	01.16	-0.1			iS			05	55.50	
ETOR	153.44	15	ePKP	55	34.48	1.8		S.D. = 0.1 on 5 of 5 obs.						PCH	1.11	111	ePd	05	42.20	-0.2	
TOL	153.74	19	ePKP	55	41.50	8.5X	KNT	0.45	130	ePg	41	01.16	-0.1			iS			06	03.00	
										eSg	41	10.00			JACH	1.12	61	iP	05	41.50	-1.1
NPS	153.94	323	ePKP	55	31.00	-2.4	GRG	0.49	184	ePg	41	02.12	-0.1			iS			06	00.00	
EROQ	153.98	11	ePKP	55	37.45	4.2X	SRS	0.93	111	ePg	41	09.88	0.0		CHCH	1.16	127	ePd	05	42.70	-0.5
EBR	154.00	11	(PKP)	55	32.00	-1.3				eSg	41	23.72				iS			06	03.00	
MGR	154.11	345	PKP	55	48.90	15.4X	SOH	0.93	132	ePg	41	10.00	0.0		ZON	3.10	58	eP	06	13.00	1.6
CSI	154.25	343	PKP	55	43.60	9.9X		S.D. = 0.1 on 5 of 5 obs.						S.D. = 1.0 on 10 of 11 obs.							
ROI	154.36	342	PKP	55	44.50	10.6X		? OCT 30, 1991 12h 42m 06.07± 1.27s						? OCT 30, 1991 13h 10m 15.62± 3.61s							
FIG	154.70	28	ePKP	55	39.50	5.2X		36.497 N ±21.2km 141.558 E ±17.9km						42.368 N ±31.1km 23.876 E ±11.7km							
								DEPTH = 33.0km (normol)						DEPTH = 10.0km (geophysicist)							
ECHE	154.87	14	ePKP	55	43.76	9.2X		4.0mb (2 obs.)						BULGARIA (359)							
GRI	155.10	342	PKP	55	44.08	9.2X		NEAR EAST COAST OF HONSHU. JAPAN(228)							MD 2.8 (THE).						
EHOR	155.16	23	ePKP	55	41.01	6.1X				eP	42	49.00	0.9		SRS	1.27	190	ePb	10	38.74	-0.4
EVIA	155.35	18	ePKP	55	37.07	1.8	MAT	2.70	272	eS	43	20.00				eSb			10	59.58	
EBAN	155.39	20	ePKP	55	37.41	2.1X									KNT	1.41	212	ePb	10	41.26	-0.1
ESEL	155.39	7	ePKP	55	48.03	12.9X															

30d 13h

VAY 1.43 223 eSb 11 02.98
 SOH 1.59 194 ePn 10 41.70 0.1
 eSb 10 43.62 -0.4
 OUR 2.03 178 ePn 11 10.54
 eSb 10 51.30 1.0
 ALN 2.19 131 ePn 11 20.86
 eSb 10 52.34 -0.2
 S.D. = 0.7 on 6 of 6 obs.

? OCT 30, 1991 13h 13m 58.05±1.39s
 26.377 N ±90.4km 88.758 E ±33.8km
 DEPTH = 33.0km (normol)
 INDIA-BANGLADESH BORDER REGION (315)

SHL 2.93 105 eP 14 43.50 0.0
 eS 15 15.50
 GUN 2.98 301 P 14 44.80 0.3
 PKI 3.22 292 P 14 48.40 0.7
 KKN 3.40 295 P 14 50.20 -0.2
 DMN 3.48 291 P 14 51.60 0.1
 GKN 4.01 295 P 14 58.00 -0.9
 S.D. = 0.7 on 6 of 6 obs.

OCT 30, 1991 13h 43m 32.98±0.57s
 6.689 N ± 4.6km 72.890 W ± 8.4km
 DEPTH = 166.4 ± 6.0 km
 4.7mb (12 obs.)
 NORTHERN COLOMBIA (99)

BMG 0.42 334 iPc 43 56.00 -1.5
 BOG 2.36 210 iPc 44 16.00 1.9
 iS 44 46.50
 HOBC 3.98 234 iPc 44 33.06 -1.1
 eS 45 07.40
 BUGC 4.35 231 eP 44 37.90 -1.2
 CLMC 4.60 233 eP 44 41.91 -0.4
 DIAC 4.72 224 eP 44 43.99 0.1
 HODC 4.91 230 eP 44 46.61 0.0
 SALC 5.29 226 eP 44 51.32 -0.2
 PURC 5.55 219 eP 44 56.26 1.0
 UPA 6.96 290 iPc 45 08.80 -4.8X
 0.9s 84.03nm 5.1mb

PSO 7.03 219 eP 45 16.00 1.2
 CUMC 7.55 221 eP 45 21.39 -0.6
 YHJ 11.68 343 eP 46 16.74 1.1
 TCE 11.71 69 eP 46 25.81 9.7X
 TPP 11.87 72 eP 46 29.47 11.3X
 STH 11.95 342 eP 46 19.70 0.5
 TRN 12.02 70 eP 46 28.60 8.5X
 SPJ 12.13 338 eP 46 22.00 0.4
 TBH 12.28 71 eP 46 33.07 9.5X
 GRW 12.34 63 eP 46 32.71 8.4X
 BBJ 12.38 340 iP 46 25.65 0.8
 JSC 28.52 345 iP 49 15.40 0.5
 GBTN 30.66 342 eP 49 33.00 -0.8
 FVM 34.98 335 iP 50 11.00 -0.1
 1.0s 23.00nm 4.8mb

GOL 43.94 323 iP 51 25.20 -0.2
 0.8s 3.87nm 4.1mb
 BW06 48.32 324 iP 51 59.10 -0.6
 1.0s 8.00nm 4.3mb

PNT 57.79 326 eP 53 09.00 0.1
 0.5s 4.00nm 4.5mb
 YKA 63.47 340 eP 53 45.70 -1.3
 0.5s 10.90nm 5.0mb

TIC 67.36 86 P 54 12.44 -0.3
 0.7s 7.00nm 4.6mb
 LIC 67.38 86 Pc 54 12.84 0.0
 0.6s 14.00nm 4.9mb

KIC 67.66 86 Pc 54 14.62 0.0
 0.6s 12.50nm 4.9mb
 INK 73.23 340 eP 54 47.00 -0.1
 MBC 73.97 350 ePc 54 51.50 0.2
 0.7s 16.00nm 4.9mb

NAO 81.14 30 P 55 31.60 0.8
 0.7s 2.50nm 4.1mb
 GEC2 82.77 42 ePc 55 39.10 -0.6
 0.7s 1.53nm 3.9mb

OIS 145.64 243 iPKPc 02 54.20 0.4
 0.7s 13.00nm
 ASPA 149.22 234 iPKPc 03 03.90 4.4X
 0.7s 15.20nm
 WR2 150.45 241 iPKPd 03 06.90 5.5X
 0.4s 17.40nm

S.D. = 0.8 on 30 of 38 obs.

? OCT 30, 1991 14h 10m 03.86±4.86s
 33.133 S ±12.8km 72.163 W ±35.4km
 DEPTH = 10.0km (geophysicist)
 OFF COAST OF CENTRAL CHILE (134)

LCCH 0.60 125 iPd 10 16.50 0.5
 iS 10 23.80
 ROCH 0.98 81 iP 10 22.10 -0.5
 iS 10 33.50
 LNV 1.03 143 iPd 10 23.00 -0.3
 iS 10 37.50
 TACH 1.15 117 iPd 10 24.60 -0.8
 PEL 1.24 91 iPc 10 27.00 0.1
 iS 10 43.00
 JACH 1.40 72 iP 10 29.50 0.1
 iS 10 48.00
 PCH 1.46 110 iP 10 30.50 0.1
 iS 10 49.70
 CHCH 1.49 123 iP 10 30.50 -0.3
 iS 10 51.70
 S.D. = 0.5 on 8 of 8 obs.

% OCT 30, 1991 14h 22m 31.00±0.68s
 38.739 N ± 6.7km 27.680 E ± 7.3km
 DEPTH = 10.0km (geophysicist)
 TURKEY (366)

IZM 0.47 224 iPg 22 40.10 -0.5
 eSg 22 49.10
 DST 1.14 40 iPn 22 51.90 -0.4
 KHL 1.50 105 ePn 22 58.00 -0.1
 EZN 1.51 316 ePn 22 58.50 0.4
 YER 1.67 163 ePn 23 01.00 0.5
 IZI 2.11 40 ePn 23 07.00 0.1
 S.D. = 0.5 on 6 of 6 obs.

OCT 30, 1991 14h 48m 36.75±0.37s
 44.194 N ± 3.2km 12.192 E ± 4.1km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 3.3 (VIE).

RSM 0.33 145 P 48 44.30 0.8
 eSg 48 50.40
 SFI 0.37 222 Pc 48 44.10 -0.2
 eSg 48 48.20
 PGD 0.47 227 P 48 45.70 -0.6
 eSg 48 51.50
 CRE 0.59 197 P 48 48.00 -0.8
 eSg 48 55.20
 ARV 0.88 142 P 48 53.60 -0.1
 eSg 49 07.00
 MME 1.07 271 P 48 57.00 -0.1
 BDI 1.16 264 P 48 59.70 1.3
 eSg 49 14.50
 ASS 1.17 163 P 48 58.80 0.1
 eSg 49 14.50

MNS 1.84 169 P 49 08.00 -0.7X
 SAL 1.84 321 P 49 08.50 -0.1
 TRI 1.88 36 P 49 10.50 1.3
 CTI 1.89 349 P 49 09.20 -0.3
 eSg 49 34.50

RIY 1.94 53 ePn 49 09.70 -0.4
 iSn 49 37.60
 VOY 2.20 33 ePn 49 13.30 -0.6
 eSn 49 41.00
 CEY 2.21 45 eP 49 22.00 7.9X
 eSg 49 50.30

FVI 2.44 10 P 49 17.40 0.3
 LJU 2.48 41 e(Pn) 49 25.50 7.6X
 eSn 49 47.50

VBY 2.54 58 e(Pn) 49 27.60 8.9X
 e(Sn) 49 50.00
 e 50 08.20

VAI 2.95 306 P 49 24.60 0.2
 WTTA 3.10 353 iPnc 49 27.40 0.7
 iPg 49 36.40
 iSn 50 05.00
 iSg 50 19.70

KHC 5.03 10 eP 49 52.50 -1.5
 e 50 14.50
 e 50 36.50
 Sg 50 50.00
 S.D. = 0.8 on 17 of 21 obs.

* OCT 30, 1991 15h 24m 52.14±1.75s

32.585 S ±10.9km 70.376 W ±11.4km
 DEPTH = 114.3 ± 20.2 km
 CHILE-ARGENTINA BORDER REGION (127)

JACH 0.21 242 iPd 25 08.50 -0.1
 iS 25 20.50
 PEL 0.62 205 iPd 25 10.50 -0.1
 ROCH 0.66 234 iPd 25 11.10 0.0
 iS 25 25.10
 SAN 0.90 195 iPd 25 13.00 0.0
 iS 25 28.50
 PCH 1.04 186 iPd 25 14.60 0.1
 iS 25 32.00
 IHA 1.15 247 eP 25 16.00 0.4
 iS 25 33.10
 TACH 1.17 204 iPd 25 15.70 -0.1
 iS 25 33.10
 LCCH 1.34 228 iPd 25 17.60 -0.1
 iS 25 37.00
 CHCH 1.36 190 iP 25 18.50 0.5
 iS 25 38.00
 LNV 1.62 212 iPd 25 20.40 -0.6
 iS 25 41.50
 ZON 1.77 55 eP 25 23.00 0.0
 eS 25 48.00
 S.D. = 0.3 on 11 of 11 obs.

OCT 30, 1991 15h 35m 33.65±0.38s
 44.990 N ± 4.4km 9.933 E ± 3.2km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 2.6 (GEN).

BOB 0.41 237 P 35 42.10 0.0
 eSg 35 47.90
 SAL 0.75 34 P 35 49.20 1.0
 eSg 36 00.50
 BDI 1.04 153 P 35 54.20 0.8
 eSg 36 08.30
 PCP 1.08 246 P 35 55.09 1.0
 VAI 1.20 317 P 35 56.40 0.4
 CKI 1.31 245 P 35 58.60 0.8
 FIN 1.46 238 P 35 59.72 -0.3
 ORX 1.52 296 P 36 00.25 -0.7
 CTI 1.61 48 P 36 01.80 -0.4
 ROB 1.63 245 P 36 02.64 0.1
 PGD 1.70 130 P 36 03.70 0.1
 SFI 1.74 127 P 36 04.20 0.1
 IMI 1.82 234 P 36 04.78 -0.5
 BHB 1.90 266 P 36 06.16 -0.3
 ENR 1.95 248 P 36 07.48 0.3
 CRE 1.99 132 P 36 08.50 -1.3
 STV 2.01 249 P 36 07.97 0.0
 PZZ 2.07 257 P 36 09.17 0.1
 RRL 2.24 269 P 36 10.42 -1.1
 S.D. = 0.7 on 19 of 19 obs.

OCT 30, 1991 15h 35m 51.49±0.34s
 45.014 N ± 3.8km 9.951 E ± 3.2km
 DEPTH = 10.0km (geophysicist)
 NORTHERN ITALY (545)
 ML 3.1 (LDG).

BOB 0.43 235 P 36 00.60 0.2
 eSg 36 07.70
 SAL 0.72 34 P 36 07.70 2.1
 eSg 36 18.70
 MME 0.98 147 P 36 10.10 -0.2
 eSg 36 26.70
 BDI 1.06 154 P 36 11.90 0.4
 eSg 36 26.80
 PCP 1.11 245 P 36 14.88 2.6
 S 36 29.90
 VAI 1.19 316 P 36 14.50 0.9
 eSg 36 31.70
 CKI 1.33 244 P 36 16.00 0.0
 eSg 36 34.00
 FIN 1.48 238 P 36 18.00 -0.2
 ORO 1.52 294 P 36 19.00 0.2
 eSg 36 41.00
 ORX 1.52 295 P 36 20.35 1.5
 CTI 1.58 49 P 36 19.50 -0.2
 eSg 36 42.20
 ROB 1.65 245 P 36 20.98 0.3
 PGD 1.70 131 P 36 22.00 0.4
 eSg 36 43.30
 SFI 1.75 128 P 36 22.60 0.6

IMI	47.92	299	P	10	00.85	0.0
LSD	48.06	302	P	10	02.28	0.1
HAU	48.06	305	iPc	10	02.00	0.2
	0.6s		28.85nm			5.0mb
RSP	48.06	301	P	09	58.69	-3.3X
BHB	48.13	301	P	10	00.64	-1.7
ENR	48.17	300	P	10	01.97	-0.8
DOI	48.22	300	P	10	01.90	-1.3
STV	48.23	300	P	10	02.49	-0.8
SBF	48.25	299	iPc	10	03.70	0.3
	0.8s		64.50nm			5.3mb
VITF	48.26	305	P	10	03.52	0.2
PZZ	48.32	300	P	10	00.23	-3.8X
LPG	48.33	302	iPc	10	04.50	0.3

	0.6 s	27.05 nm			5.0 mb
LPL	48.34	302 iPc	10	04.60	0.4
	0.8 s	33.60 nm			5.0 mb
RSL	48.37	302 P	10	04.75	0.3
RRL	48.44	301 P	10	04.95	-0.1
BNI	48.48	301 P	10	05.40	0.1
DOU	48.79	308 Pc	10	07.80	0.4
	0.9 s	50.00 nm			5.1 mb
FRF	48.88	299 iPc	10	08.20	0.1
	0.6 s	25.25 nm			5.0 mb
SNF	48.91	309 P	10	09.00	0.7
LMR	49.03	299 eP	10	10.20	0.9
	0.8 s	10.75 nm			4.5 mb
LRG	49.11	299 eP	10	10.10	0.3
	0.6 s	16.25 nm			4.8 mb
LBF	49.85	304 iPc	10	15.20	-0.4
	0.6 s	14.90 nm			4.8 mb
LOR	49.86	305 eP	10	15.40	-0.2
	0.8 s	10.75 nm			4.5 mb
SMF	50.02	304 iPc	10	16.80	0.0
SSF	50.15	304 iPc	10	17.60	-0.1
	0.8 s	19.50 nm			4.8 mb
AVF	50.32	304 iPc	10	18.90	-0.1
PLDF	50.34	303 P	10	19.37	0.0
GRC	50.38	305 P	10	19.50	0.0

1.0s 28.00nm 4.8mb

	1.0s	26.30nm		4.8mb
		ic	09 27.00	
BHG	43.77	304 iPc	09 28.70	0.6
	0.8s	40.00nm		5.1mb

FVI 44.00 302 P 09 30.20 0.3

TCF	51.21	304	iPc	10	26.00	-0.2
LSF	51.67	304	iPc	10	28.90	-0.4
	0.6s	27.95nm			5.1mb	
CAF	51.68	302	iPc	10	29.70	-0.3
	0.8s	30.90nm			5.0mb	
PERF	51.83	299	P	10	29.98	-0.6
MTHF	51.93	300	P	10	31.38	-0.0
RJF	51.94	303	iPc	10	31.70	-0.4
	0.8s	21.50nm			4.9mb	
LDF	52.13	307	iPc	10	32.10	-0.6
	0.6s	25.25nm			5.1mb	
FLN	52.32	307	iPc	10	33.30	-0.7
	0.6s	28.85nm			5.2mb	
LPO	52.34	302	iPc	10	34.20	-0.1
	0.6s	12.65nm			4.8mb	
EKA	52.40	316	Pd	10	34.00	-0.5
	1.2s	41.60nm			5.0mb	
TRGS	52.47	299	P	10	35.30	-0.1
LFF	52.57	302	iPc	10	36.10	-0.2
	0.6s	34.25nm			5.2mb	
GRR	52.66	307	iPc	10	35.80	-0.7
	0.8s	55.05nm			5.3mb	
MFF	52.69	305	iPc	10	36.30	-0.4
	0.8s	24.20nm			5.0mb	
LESF	52.78	300	P	10	37.29	-0.2

LPF	52.87	307 eP	10	37.30	-0.8
	0.8 s	16.10 nm			4.8 mb
MLS	52.94	300 P	10	38.40	-0.3
EPF	53.44	300 iPc	10	41.30	-1.1
	0.7 s	17.65 nm			4.9 mb
ENSF	53.51	300 P	10	43.30	0.3
DAG	54.72	344 iPd	10	50.80	-0.4
	0.6 s	24.67 nm			5.2 mb
TOL	57.64	298 iPc	11	17.30	4.9 X
	1.1 s	37.97 nm			5.1 mb
MTD	65.05	223 iPc	12	02.70	0.5
LSZ	65.75	226 iP	12	06.00	-0.8
KRI	66.17	224 iPd	12	10.00	0.5
MBC	67.20	3 ePc	12	15.00	-0.1
	0.5 s	17.00 nm			5.1 mb
BUL	69.40	223 iPd	12	28.40	-1.1

30d 16h

IMA	71.92	18 eP	12 43.40	-0.7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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4.7mb (11 obs.)
NEAR COAST OF GUATEMALA (71)

TPX	2.21	307	eP	55	41.50	-2.1
			iS	56	12.50	
SCX	3.80	326	(P)	56	52.00	45.9X
OXX	7.00	301	eP	56	52.00	0.4
			iS	58	17.50	
IISM	8.57	310	(P)	57	15.50	2.2
PPM	9.57	306	eP	57	28.00	0.3
III	9.91	300	(P)	57	30.50	-1.6
MRX	11.97	302	(P)	58	04.00	4.1X
SDV	19.97	101	iP	59	41.40	0.1
TOV	20.56	98	eP	59	47.70	0.4
MEO	22.37	342	iPd	00	05.00	-0.4
GOL	29.16	336	eP	01	10.50	1.2
	1.0s		4.00nm			4.1mb
PLM	31.08	314	eP	01	26.90	0.7
LRM	37.14	334	eP	02	19.20	0.9
NEW	41.06	333	eP	02	51.00	0.4
	1.0s		3.00nm			4.0mb
FFC	42.05	350	iPc	02	58.90	0.4
	0.5s		11.00nm			4.6mb
PNT	42.95	332	iP	03	07.00	0.9
	0.6s		18.00nm			5.0mb
YKA	51.80	346	eP	04	14.10	-1.0
	0.9s		4.00nm			4.4mb
SOB1	54.13	112	eP	04	33.50	0.4
PDCR	57.09	115	iPd	04	52.70	-1.8
			i	04	54.90	
INK	61.28	343	ePc	05	21.30	-1.4
MBC	64.53	353	eP	05	43.00	-1.1
	0.8s		6.00nm			4.7mb
DAG	72.70	13	iPd	06	33.80	-0.9
	0.7s		8.22nm			4.8mb
TIC	84.03	85	P	07	38.22	0.4
	0.6s		8.00nm			5.0mb
LIC	84.12	85	Pc	07	38.80	0.6
	0.7s		11.50nm			5.2mb
KIC	84.36	85	Pc	07	40.16	0.7
	0.6s		14.50nm			5.3mb
GEC2	88.96	40	ePKPc	08	00.30	-1.1
	0.6s		0.42nm			3.9mb
CHG	146.52	344	ePKP	14	48.00	0.5
CHTO	146.52	344	iPKP	14	48.20	0.7
	1.2s		11.46nm			
HYB	147.35	20	iPKPd	14	51.40	2.5X
	1.2s		35.70nm			
KHT	150.44	342	ePKP	14	59.40	5.7X
	S.D. = 1.1	on	26	of	30	obs.

OCT 30, 1991 17h 56m 56.81±0.26s
23.384 N ± 4.2km 142.786 E ± 5.0km
DEPTH = 55.0km (6 depth phases)
4.9mb (25 obs.)

VOLCANO ISLANDS REGION (213)

GUMO	9.94	168	eP	59	19.00	-0.7
	1.3s		344.70nm			6.3mb X
			e	00	10.00	
PJG	9.94	168	eP	59	19.10	-0.6
GUA	10.00	168	eP	59	19.90	-0.6
	0.8s		220.90nm			6.3mb X
IIDJ	12.78	342	P	59	57.50	-0.3
KAKJ	12.98	351	eP	59	59.20	-1.2
			eS	02	16.90	
CHJJ	13.04	346	eP	59	59.10	-2.2
			eS	02	18.70	
TSRJ	13.48	336	eP	00	08.30	1.3
MAT	13.70	344	iPc	00	07.80	-2.1
MTMJ	13.84	343	eP	00	10.50	-1.4
NIJJ	14.19	348	eP	00	14.50	-1.8
YAMJ	14.93	352	eP	00	23.60	-2.4
			eS	03	06.10	
OFUJ	15.68	357	P	00	34.90	-0.7
			eS	03	24.40	
AOMJ	17.25	354	eP	00	55.60	0.3
HOOJ	18.95	1	eP	01	21.20	5.0X
MRRJ	19.04	356	eP	01	18.60	1.4
KUSJ	19.73	4	eP	01	26.10	1.5
SSE	20.66	296	Pd	01	35.20	0.8
	0.7s		6.00nm			4.0mb
	Z 20s		0.60um			4.0msz
			eS	05	23.00	
ASAJ	20.68	360	eP	01	38.50	4.0X
NJ2	22.84	297	Pc	01	58.00	1.9
	0.8s		57.00nm			5.1mb

MDJ	23.78	336	Pd	02	09.40	4.3X
	1.5s		60.00nm			4.9mb
SNY	24.40	323	Pd	02	10.40	-0.7
	0.8s		29.00nm			4.8mb
CN2	24.87	329	eP	02	16.00	0.4
	1.0s		17.00nm			4.5mb
Z	20s		1.19um			4.4msz
			eP	02	26.00	37kmX
TIY	29.63	306	eP	03	01.00	1.7
	Z 20s		0.63um			4.2msz
XAN	31.41	297	P	03	14.50	-0.5
	0.7s		8.30nm			4.6mb
HHC	31.44	311	eP	03	14.80	-0.4
BTO	32.42	310	eP	03	21.70	-2.1
CD2	35.39	291	P	03	49.50	0.1
LZH	35.87	300	iPc	03	54.50	0.9
	1.0s		57.00nm			5.5mb
			pP	04	07.40	48km
GTA	39.61	304	eP	04	25.20	0.4
	0.8s		9.00nm			4.7mb
Z	20s		0.30um			4.1msz
			pP	04	38.60	51km
CHG	41.04	272	eP	04	37.00	0.3
			e	06	23.90	
CHTO	41.04	272	eP	04	37.00	0.4
	1.0s		4.50nm			4.2mb
OIS	43.78	184	eP	04	56.00	-2.9
WR2	43.85	191	iPc	04	55.40	-4.0X
	0.4s		21.40nm			5.2mb
			eP	05	12.70	69kmX
			e	07	45.70	
LSA	46.31	289	P	05	21.10	1.5
ASPA	47.56	191	iPd	05	26.70	-2.2
	0.7s		8.70nm			4.8mb
SVW	56.13	31	eP	06	32.20	-0.6
TTA	56.40	29	eP	06	35.50	0.7
KDC	57.08	35	P	06	39.00	-0.5
RSO	58.38	32	P	06	42.30	0.4
IMA	58.17	25	eP	06	48.50	1.2
	0.9s		11.30nm			5.0mb
SLKM	58.62	32	P	06	48.40	-2.0
PMR	59.30	31	eP	06	55.00	0.1
	0.9s		51.20nm			5.7mb
RND	59.67	29	P	06	56.60	-1.0
FBA	60.35	27	eP	07	02.60	0.5
KLU	60.81	31	P	07	05.40	0.0
BALM	62.52	32	P	07	16.60	-0.3
INK	66.18	24	ePc	07	40.00	-0.4
QUE	66.91	294	eP	07	47.10	1.1
MAIO	71.38	302	eP	08	15.00	1.7
YKA	75.14	28	eP	08	34.70	0.1
	0.6s		18.60nm			5.2mb
PGC	75.20	43	eP	08	36.00	0.8
GMW	75.98	44	P	08	40.40	0.7
BMW	76.05	45	P	08	40.50	0.3
RMW	76.64	44	P	08	44.30	0.8
LON	76.88	45	P	08	44.80	0.0
PNT	77.36	42	eP	08	48.00	0.7
SOD	78.04	339	iP	08	51.70	1.0
LBFM	78.72	50	P	08	55.00	-0.3
DPW	78.76	43	P	08	55.20	0.0
NEW	79.28	42	P	08	58.00	0.1
	1.0s		32.50nm			5.2mb
			pP	09	15.00	61km
ORV	79.65	51	P	08	59.30	-0.8
ARN	80.45	54	P	09	04.60	0.2
CMB	81.03	53	P	09	07.50	0.0
	1.0s		33.33nm			5.2mb
KAF	81.05	335	iP	09	07.00	0.1
	0.5s		3.40nm			4.5mb
PHAM	81.87	55	P	09	12.60	0.8
KVN	82.28	51	P	09	14.50	0.3
NUR	82.61	334	eP	09	14.90	-0.2
LRM	83.20	43	eP	09	19.20	0.4
TNP	83.31	51	P	09	19.60	0.1
	0.7s		7.41nm			4.8mb
HPI	83.73	45	P	09	22.50	0.9
PTI	84.58	46	P	09	27.30	1.6
FFC	84.59	32	iPc	09	26.20	0.9
	0.8s		40.00nm			5.5mb
HVU	84.80	47	P	09	27.40	0.5
DUM	85.49	48	P	09	30.40	0.1
PLM	85.54	56	P	09	30.00	-0.8
ARUT	86.13	50	P	09	34.00	0.4
DAU	86.45	47	P	09	35.30	0.0
BW06	86.46	45	iP	09	35.10	-0.1
	1.0s		8.75nm			4.9mb

MSU	86.69	49	P	09	36.60	0.2
			pP	09	53.00	58km
EMUT	87.03	48	P	09	55.30	17.3X
HFS	87.04	337	eP	09	55.90	-1.4
	0.5s		1.70nm			4.5mb
GLA	87.21	55	P	09	39.00	0.2
NB2	87.25	339	P	09	37.00	-1.4
	1.0s		5.60nm			4.7mb
GOL	90.73	46	P	09	55.30	-0.2
	1.0s		5.00nm			4.9mb
KSP	92.36	329	eP	10	17.00	14.5X
ANMO	92.44	50	P	10	04.00	0.6
	1.1s		54.59nm			5.9mb
			pP	10	20.00	55km
ALO	92.44	50	eP	10	03.50	0.1
	1.2s		19.53nm			5.4mb
			eP	10	20.00	57km
SLR	120.94	253	ePKP	15	41.20	-4.1X
KIC	136.64	309	PKP	16	16.00	0.5
ARE	147.10	84	ePKP	16	36.00	1.9
CCH	152.26	83	ePKP	16	47.00	5.0X
	S.D. = 1.1	on	83	of	91	obs.

* OCT 30, 1991 20h 00m 15.30±0.79s
9.687 S ± 6.8km 74.855 W ± 13.5km
DEPTH = 33.0km (normal)

CENTRAL PERU (116)

NNA	3.01	220	iP	01	01.70	-0.1
	0.4s		26.27nm			
			iS	01	32.70	
PT10	3.15	221	eP	01	04.00	0.2
			iS	01	35.30	
CUMC	11.00	344	eP	02	52.57	-1.4
PURC	12.02	353	eP	03	07.68	-0.2
SALC	12.71	352	eP	03	16.95	0.2
DIAC	12.96	354	eP	03	20.64	0.5
HOBC	14.01	355	eP	03	34.79	0.9
SOB1	33.50	92	eP	06	53.90	-0.2
	S.D. = 0.8	on	8	of	8	obs.

OCT 30, 1991 21h 52m 57.43±0.28s
17.704 S ± 8.1km 174.802 W ± 8.3km
DEPTH = 201.0km (4 depth phases)
4.7mb (15 obs.)

TONGA ISLANDS (173)

DZM	18.16	253	iPc	56	57.00	-0.6
MNG	24.33	198	eP	57	57.00	-1.1
	0.2s		6.00nm			4.9mb
THZ	26.19	201	eP	58	16.00	0.7
KHZ	26.56	200	eP	58	19.00	0.4
	0.2s		13.00nm			5.3mb
EWZ	28.45	202	P	58	35.20	-0.3
BRS	31.38	246	iPd	59	02.00	0.5
	0.6s		11.50nm			4.7mb
ARMA	33.03	241	iPc	59	16.20	0.3
	0.3s		18.00nm			5.2mb
RMO	34.78	249	eP	59	31.00	0.2
CMS	38.13	241	iPd	59	58.60	-0.2
	0.9s		67.00nm			5.3mb
OIS	43.07	259	eP	00	39.00	-0.3
ASPA	48.15	254	iPd	01	18.90	-0.5
	0.6s		278.90nm			5.9mb X
MTN	52.24	267	eP	01	49.00	-1.4
KNA	53.91	263	eP	02	01.20	-1.4
WARB	54.59	250	eP	02	06.50	-1.0
	0.4s		7.00nm			4.7mb
MBL	61.36	255	eP	02	53.00	-1.5
	0.4s		4.00nm			4.5mb
KLB	61.99	243	eP	02	57.40	-1.2
BAL	62.97	244	eP	03	04.00	-1.1
MAT	69.85	321	eP	03	46.00	-2.2
PLM	75.04	47	P	04	18.00	-1.0
CMB	75.37	42	P	04	20.00	-0.6
	1.0s		10.50nm			4.5mb
BONR	76.66	43	P	04	27.50	-0.5
KDC	77.42	12	P	04	31.00	-0.4
TNP	77.43	43	P	04	31.40	-0.8
	0.8s		11.52nm			4.7mb
			pP	05	19.00	197km
MSU	81.00	45	P	04	51.20	-0.2
			pP	05	40.00	200km
PMR	81.64	12	P	04	52.80	-1.0
TTA	81.71	9	P	04	54.00	-0.3
CN2	82.00	321	eP	04	57.00	0.9
	0.8s		6.80nm			4.4mb

36d 22h

WHN	83.28	305	eP	05	04.00	1.1	HAU	149.76	358	ePKP	12	24.70	5.0X	PCA	2.29	34	iP	53	51.26	-5.3
ALO	83.30	50	eP	05	03.00	-0.2		1.0s	28.00nm								eS	54	17.00	
	1.0s	6.75nm			4.3mb		FEL	149.82	356	PKP	12	24.81	4.9X	RAGM	2.37	337	iP	53	52.26	-5.4
		e		05	55.00	214kmX	MOF	149.89	357	PKP	12	24.88	4.9X				eS	54	18.13	
TIA	83.68	311	eP	05	06.10	1.3	SLE	149.90	356	ePKPc	12	25.10	5.2X	BCPM	2.39	42	eP	53	52.28	-5.5
FBA	84.90	11	P	05	09.50	-0.8	BSF	149.92	358	ePKP	12	25.00	4.9X	HQN	2.39	57	iP	53	52.14	-5.7
	0.7s	47.97nm			5.3mb			0.8s	14.80nm								eS	54	20.69	
IMA	85.02	8	P	05	10.80	-0.3	KBA	149.95	349	iPKPc	12	19.60	-0.6	TGL	2.54	360	iP	53	54.71	-5.4
	0.9s	8.33nm			4.5mb			0.7s	9.20nm								eS	54	22.43	
		pP	06	00.00	206km		WTTA	150.05	351	ePKP	12	21.00	0.6	CROM	2.55	356	iP	53	54.75	-5.5
MAW	85.19	199	iPc	05	13.00	1.1		0.6s	24.40nm					BALM	2.83	5	iP	53	58.95	-5.3
TIY	87.71	311	eP	05	26.00	1.3			i	12	25.60						eS	54	30.73	
XAN	88.89	306	P	05	31.90	1.6			e	13	20.00			CTGM	2.85	15	iP	53	59.12	-5.4
HHC	89.61	313	eP	05	35.00	1.4	BBS	150.26	357	PKP	12	25.64	5.1X	MTU	3.06	307	iP	54	01.58	-5.8
INK	90.82	14	ePd	05	37.80	-0.6	RMN	150.37	301	iPKPd	12	27.20	5.9X	FID	3.15	325	eP	54	02.94	-5.7
CHG	92.17	289	eP	05	47.00	1.3	LOMF	150.40	358	PKP	12	26.41	5.6X	LTJ	3.18	307	iP	54	03.03	-5.9
CHTO	92.17	289	iP	05	47.20	1.5	PTJ	150.49	345	ePKP	12	26.10	5.1X	GLB	3.27	352	iP	54	04.63	-5.8
	1.0s	7.00nm			4.7mb		LOR	150.50	2	ePKP	12	26.50	5.7X				eS	54	40.92	
YKA	92.73	24	eP	05	46.80	-0.5		0.9s	27.85nm					KNIM	3.31	312	iP	54	04.51	-6.4
	0.8s	1.50nm			4.1mb		SSF	150.69	2	ePKP	12	27.00	5.9X				eS	54	41.80	
QUE	122.81	295	ePKP	11	32.20	0.6		1.0s	40.00nm					VLZ	3.42	336	iP	54	06.27	-6.2
KAF	133.23	347	iPKP	11	49.20	-1.1	LJU	150.70	347	e(PKP)	12	22.20	1.0	GLI	3.44	323	iP	54	06.53	-6.3
	0.5s	3.40nm					LLS	150.75	355	ePKP	12	27.50	6.0X	PLBC	3.57	67	Pd	54	08.70	-5.9
NUR	135.02	347	iPKP	11	53.10	-0.6	LBF	150.78	2	ePKP	12	27.10	5.8X				S	54	47.80	
NB2	136.50	356	PKP	11	55.40	-1.2		0.9s	22.95nm					KLU	3.64	336	iP	54	09.82	-5.8
	0.9s	3.40nm					OSS	150.81	353	ePKPc	12	27.70	6.2X	HYT	3.76	44	P	54	12.00	-5.4
HFS	137.18	354	ePKP	11	46.00	-11.9X	VOY	150.84	348	ePKP	12	26.60	5.1X				S	54	30.00	
	0.4s	0.60nm					MFF	150.85	8	ePKP	12	27.10	5.8X	SEW	3.90	302	eP	54	12.72	-6.6
LSZ	140.15	216	iPKP	12	07.00	2.3		1.0s	24.00nm								eS	54	55.82	
NAI	143.61	242	ePKPd	12	10.50	-0.5	AVF	150.95	3	ePKP	12	27.20	5.7X	TZL	4.05	342	eP	54	16.50	-4.9
KRA	145.62	343	ePKP	12	13.20	0.2		0.8s	12.10nm					SIT	4.19	103	eP	54	13.68	-9.6
WTS	145.76	358	iPKPc	12	14.10	0.9	VBY	151.04	345	e(PKP)	12	28.00	6.3X	TOA	4.24	338	iP	54	18.95	-5.2
	0.9s	67.00nm					VDL	151.08	354	ePKPc	12	28.20	6.2X	SCM	4.27	330	eP	54	18.55	-6.1
KSP	145.77	347	iPKP	12	13.40	0.1	SMF	151.12	2	ePKP	12	27.70	5.9X	KNK	4.29	321	eP	54	18.91	-5.9
	0.9s	49.00nm						1.0s	14.00nm					SLKM	4.43	304	eP	54	20.51	-6.3
CLL	145.90	351	iPKPd	12	14.20	0.7	BGF	151.16	3	ePKP	12	27.90	6.1X	SDG	4.53	344	eP	54	22.47	-5.7
	1.2s	83.00nm					LSF	151.37	5	ePKP	12	28.10	5.9X	SML	4.54	325	eP	54	22.12	-6.3
KAS	146.01	320	ePKP	12	16.00	1.9		0.8s	25.50nm					CNPM	4.57	290	eP	54	23.20	-5.5
BRG	146.18	350	iPKPd	12	14.70	0.8	TCF	151.39	4	ePKP	12	28.20	6.0X	PMS	4.57	314	eP	54	22.41	-6.4
	1.3s	40.00nm						0.8s	12.10nm					PLRM	4.64	319	eP	54	23.75	-6.0
		e	13	08.00			MAF	151.48	4	ePKP	12	28.70	6.4X	PMR	4.64	319	eP	54	23.27	-6.5
SPC	146.31	342	ePKP	12	15.90	1.4		0.8s	20.15nm								eS	55	15.62	
VRI	146.70	332	ePKP	12	17.50	2.5X	TMA	151.52	355	ePKPc	12	29.00	6.4X	WHC	4.67	54	P	54	24.00	-6.3
MOX	146.74	353	iPKPc	12	17.20	2.3X	MMK	151.64	356	ePKPc	12	30.10	7.2X	GHO	4.70	322	eP	54	24.88	-5.9
	1.3s	29.00nm					DIX	151.65	357	ePKPc	12	30.10	7.2X	XLV	4.79	289	eP	54	26.69	-5.3
PRU	146.93	349	PKPd	12	17.60	2.4X	EMS	151.68	357	ePKPc	12	30.20	7.3X	PAX	4.94	346	eP	54	27.82	-6.3
	0.9s	16.40nm					LPL	152.24	358	ePKP	12	31.40	7.7X	SYI	5.05	278	eP	54	31.43	-4.2
		e	13	10.70				0.8s	6.70nm					SUA	5.15	312	eP	54	30.43	-6.7
UCC	146.98	1	PKP	12	18.60	3.4X	LPG	152.26	358	ePKP	12	31.30	7.4X	KDC	5.18	269	eP	54	33.02	-4.3
ENN	147.01	359	ePKP	12	18.00	2.8X		1.0s	8.00nm					RDT	5.44	300	eP	54	35.13	-6.1
HOF	147.03	352	iPKPc	12	18.00	2.6X	RJF	152.31	6	ePKP	12	30.30	6.7X	SPU	5.54	306	eP	54	35.62	-7.0
	1.0s	20.00nm						0.8s	8.05nm				REF	5.55	298	eP	54	35.79	-7.0	
MEM	147.17	359	iPKPc	12	18.31	2.8X	LFF	152.59	7	ePKP	12	30.80	6.9X	RSO	5.56	298	eP	54	37.34	-5.7
SNF	147.26	1	iPKPd	12	18.28	2.6X		0.8s	5.35nm					RSI	5.56	298	eP	54	37.73	-5.3
MLR	147.34	333	ePKPd	12	16.50	0.3	CAF	152.73	5	ePKP	12	31.50	7.3X	CGLM	5.58	308	eP	54	36.40	-6.8
DOU	147.68	1	PKP	12	19.70	3.3X		1.0s	11.00nm					CUT	5.60	322	eP	54	38.65	-4.6
GRF	147.72	353	iPKP	12	20.00	3.5X	LPO	152.89	6	ePKP	12	31.60	7.2X	CKL	5.67	306	eP	54	37.58	-6.9
		e	12	22.50				0.8s	8.05nm					NCG	5.69	308	eP	54	37.84	-6.9
KHC	147.92	350	iPKPd	12	20.50	3.6X	LIC	164.84	138	PKP	12	38.90	0.0	CDD	5.71	282	eP	54	40.38	-4.6
	1.2s	17.50nm					KIC	165.12	138	PKP	12	39.00	-0.1	BGL	5.72	306	eP	54	38.79	-6.4
		e	13	14.30				S.D. = 1.0 on 60 of 121 obs.					SKT	5.76	315	eP	54	38.72	-6.9	
ZST	148.07	345	iPKP	12	21.50	4.5X							HUR	5.84	328	eP	54	41.15	-5.5	
		e	40	05.20			& OCT 30, 1991 21h 53m 18.03s						RND	5.98	333	eP	54	42.56	-6.2	
WLF	148.11	359	iPKPc	12	21.48	4.5X		58.222 N					PDB	6.09	290	eP	54	44.41	-5.8	
GEC2	148.18	349	ePKPc	12	16.90	-0.5		142.808 W					MCK	6.28	334	eP	54	47.10	-5.8	
	0.7s	6.87nm					DEPTH = 10.0km (geophysicist)					TRF	6.39	328	eP	54	48.26	-6.4		
HRI	148.52	305	iPKPd	12	23.00	4.6X		3.9mb (1 obs.)					HDA	6.52	344	eP	54	49.12	-7.2	
FLN	148.68	7	ePKP	12	21.50	3.5X		GULF OF ALASKA					WRH	6.76	340	eP	54	53.82	-5.9	
	1.0s	46.00nm					<AEIC>. ML 3.6 (AEIC). 3.9						BWN	6.78	335	eP	54	53.81	-6.1	
							(PMR).						NEA	7.05	337	eP	54	55.98	-7.7	
GWF	148.74	357	PKP	12	22.60	4.5X							FBA	7.11	343	ePn	54	55.85	-8.7	
LDF	148.89	7	ePKP	12	22.00	3.7X	WRG	1.87	12	iP	53	45.24	-5.1	GLM	7.13	344	eP	54	57.20	-7.7
	1.0s	26.00nm											SKB	7.87	125	P	55	07.00	-8.2	
BZS	148.99	337	ePKPc	12	17.50	-1.1X	CYK	1.87	5	iP	53	45.71	-4.6	IMA	9.36	332	eP	55	28.67	-7.3
GRR	149.00	8	ePKP	12	22.50	4.0X								YKA	14.53	61	eP	56	46.70	1.4
	0.8s	29.55nm													0.6s	2.10nm		3.9mb		
FUR	149.22	352	iPKPc	12	24.20	5.3X	KAIM	1.90	335	iP	53	46.02	-4.8			73 obs. associated				
CDF	149.33	357	PKP	12	23.62	4.5X	SNH	1.96	360	iP	53	46.83	-4.9							
LPF	149.32	8	ePKP	12	23.30	4.3X	YKU	2.08</												

ROCH 0.71 70 iPd 15 38.90 -0.4
 iS 15 51.50
 LNV 0.81 156 iPd 15 40.00 -0.8
 iS 15 53.00
 TACH 0.85 121 iPd 15 41.70 0.2
 iS 15 56.00
 PEL 0.95 86 iPd 15 43.50 0.4
 SAN 0.99 104 iPd 15 43.00 -0.9
 iS 16 00.50
 JACH 1.15 63 iP 15 45.00 -1.7
 iS 16 03.00
 PCH 1.16 111 iPd 15 46.70 -0.1
 iS 16 05.00
 CHCH 1.20 127 iPd 15 47.50 0.0
 iS 16 07.00
 RTCB 3.08 57 iPd 16 15.50 0.8
 ZON 3.13 59 eP 16 18.00 2.6X
 eS 17 00.00
 RTLL 3.40 57 eP 16 20.10 0.9
 S 17 11.80
 CFA 3.42 63 e(P) 16 21.00 1.5
 RTRS 3.64 34 ePd 16 21.30 -1.2
 S.D. = 1.0 on 14 of 15 obs.

OCT 30, 1991 22h 37m 13.10±0.39s
 44.696 N ± 2.5km 6.790 E ± 4.3km
 DEPTH = 10.0km (geophysicist)
 FRANCE (538)
 ML 2.4 (LDG), 2.2 (GEN).

RRL 0.22 359 P 37 17.95 -0.1
 S 37 22.35
 PZZ 0.29 131 P 37 18.97 -0.3
 S 37 23.79
 BNI 0.37 347 P 37 20.70 0.0
 eSg 37 27.00
 BHB 0.37 66 P 37 20.82 0.2
 S 37 26.97
 DOI 0.38 120 P 37 21.10 0.2
 eSg 37 26.40
 RSP 0.56 36 P 37 24.61 0.0
 S 37 33.43
 STV 0.59 140 P 37 24.20 -0.9
 S 37 32.92
 ENR 0.65 136 P 37 25.53 -0.6
 S 37 34.66
 LPG 0.80 358 Pg 37 28.80 -0.1
 Sg 37 40.00
 LPL 0.82 357 Pg 37 29.10 -0.1
 ROB 0.87 117 P 37 30.05 0.2
 SBF 0.95 151 Pg 37 31.60 0.3
 Sg 37 46.00
 IMI 1.11 134 P 37 34.46 0.4
 FIN 1.13 115 P 37 34.66 0.4
 FRF 1.14 185 Pg 37 34.20 -0.2
 LRG 1.28 194 Pg 37 36.60 -0.2
 LMR 1.38 189 Pg 37 39.20 0.9
 Sg 37 56.40
 S.D. = 0.5 on 17 of 17 obs.

? OCT 30, 1991 23h 18m 13.51±4.83s
 33.077 S ±12.3km 72.314 W ±35.3km
 DEPTH = 10.0km (geophysicist)
 OFF COAST OF CENTRAL CHILE (134)

IHA 0.57 85 iPc 18 25.40 0.4
 iS 18 31.50
 LCCH 0.74 123 iPd 18 28.10 0.1
 iS 18 35.50
 ROCH 1.10 85 iPd 18 34.00 -0.3
 iS 18 47.00
 LNV 1.16 140 iPd 18 35.10 0.0
 iS 18 50.00
 TACH 1.29 117 iPd 18 36.70 -0.7
 iS 18 51.00
 PEL 1.37 93 iPd 18 38.50 -0.2
 iS 18 55.00
 SAN 1.43 106 iPd 18 40.20 0.6
 JACH 1.50 75 iPd 18 40.50 -0.1
 PCH 1.60 110 iPc 18 42.00 0.0
 iS 19 01.50
 CHCH 1.63 122 iPc 18 42.40 0.0
 iS 19 02.20
 S.D. = 0.4 on 10 of 10 obs.

? OCT 30, 1991 23h 37m 35.58±0.56s
 13.365 S ±14.3km 166.802 E ±20.7km

DEPTH = 33.0km (normal)
 4.9mb (4 obs.)
 VANUATU ISLANDS (186)

DZM 8.67 182 iPc 39 41.70 -0.1
 iS 41 07.70
 RMO 21.37 230 iPd 42 24.20 1.7
 0.7s 83.00nm 5.3mb
 CMS 26.39 223 iPc 43 10.00 -0.9
 0.7s 21.00nm 4.9mb
 ASPA 32.76 247 iPd 44 06.80 -1.1
 0.6s 5.10nm 4.6mb
 KUPT 42.37 270 iPd 45 29.00 0.2
 LZH 77.07 312 eP 49 32.00 4.4X
 1.5s 20.00nm 4.9mb
 GEC2 138.23 333 ePKPc 57 00.30 0.9
 0.6s 0.36nm
 SSF 143.60 341 ePKP 57 07.00 -1.8
 0.9s 6.55nm
 LPL 143.77 336 ePKP 57 07.80 -1.6
 0.7s 2.75nm
 LPG 143.78 336 ePKP 57 08.10 -1.4
 0.8s 4.70nm
 SMF 143.86 340 ePKP 57 07.60 -1.7
 0.9s 5.75nm
 AVF 143.89 341 ePKP 57 07.70 -1.6
 0.9s 8.20nm
 BGF 144.26 341 ePKP 57 08.90 -1.0
 0.9s 11.45nm
 MAF 144.65 341 ePKP 57 10.40 -0.2
 0.9s 5.75nm
 TCF 144.70 341 ePKP 57 10.50 -0.2
 0.9s 7.35nm
 PGF 145.15 331 ePKP 57 11.90 0.2
 0.9s 22.95nm
 FRF 145.41 334 ePKP 57 12.40 0.4
 0.7s 13.25nm
 LRG 145.62 334 ePKP 57 13.30 1.0
 0.8s 9.40nm
 LMR 145.65 334 ePKP 57 13.40 1.0
 0.6s 6.30nm
 RJF 145.80 341 ePKP 57 13.90 1.3
 CAF 145.96 340 ePKP 57 13.90 1.0
 LFF 146.36 342 ePKP 57 15.50 2.0
 LPO 146.46 341 ePKP 57 15.60 1.9
 S.D. = 1.3 on 22 of 23 obs.

OCT 30, 1991 23h 40m 15.57±0.56s
 43.361 N ± 3.8km 0.746 W ± 6.3km
 DEPTH = 10.0km (geophysicist)
 PYRENEES (378)
 ML 2.5 (LDG).

MADF 0.22 194 Pg 40 21.17 0.8
 Sg 40 23.83
 ELYF 0.26 223 Pg 40 21.97 0.8
 ATE 0.28 173 Pg 40 21.01 -0.4
 Sg 40 24.31
 OGE 0.28 134 Pg 40 22.49 1.1
 ESCF 0.31 156 Pg 40 22.36 0.3
 BOH 0.32 217 Pg 40 22.40 0.1
 ISSF 0.34 186 Pg 40 21.75 -0.8
 JAU 0.42 139 Pg 40 24.09 -0.2
 LHE 0.46 168 Pg 40 23.03 -1.9
 EPF 0.86 112 Pg 40 33.00 0.8
 Sg 40 44.00
 LFF 1.91 34 Pn 40 50.00 1.6
 Sn 41 12.30
 LPO 1.92 46 Pg 40 54.00 5.4X
 Sn 41 28.10
 RJF 2.53 39 Pn 40 57.60 0.2
 Sn 41 58.00
 CAF 2.56 51 Pn 41 27.60 0.2
 Sn 41 08.60
 LSF 3.31 28 Pn 41 46.40 0.1
 Sn 41 53.00
 TCF 3.60 35 Pn 41 11.40 -1.2
 Sn 41 13.20
 MAF 3.71 38 Pn 41 56.20 -0.9
 Sn 41 18.60
 BGF 4.09 37 Pn 41 18.60 -0.8
 S.D. = 1.0 on 17 of 18 obs.

? OCT 30, 1991 23h 59m 43.70±11.71s
 32.609 S ±25.2km 73.120 W ±95.9km
 DEPTH = 33.0km (normal)
 OFF COAST OF CENTRAL CHILE (134)

LCCH 1.56 124 iPc 00 09.00 -0.5
 iS 00 27.50
 LNV 1.96 134 iPd 00 15.00 -0.3
 iS 00 38.00
 TACH 2.11 120 iP 00 17.50 0.2
 PEL 2.12 105 iPc 00 17.00 -0.5
 iS 00 42.00
 PCH 2.41 115 iP 00 22.10 0.4
 eS 00 50.50
 CHCH 2.45 123 iPc 00 23.00 0.7
 eS 00 51.00
 RTCB 3.83 74 eP 00 42.00 0.1
 ZON 3.92 75 iPc 01 31.00 47.9X
 eS 01 46.00
 S.D. = 0.5 on 7 of 8 obs.

* OCT 31, 1991 00h 02m 09.16±3.31s
 32.253 S ±12.6km 69.016 W ±19.8km
 DEPTH = 133.7 ± 42.7 km
 MENDOZA PROVINCE, ARGENTINA (139)

CFA 0.92 46 iP 02 31.90 -0.1
 S 02 46.60
 RTLL 1.03 27 iPd 02 32.30 -0.7
 JACH 1.40 252 iP 02 37.00 0.1
 iS 02 57.50
 PEL 1.66 237 iPd 02 40.00 0.2
 iS 03 02.00
 ROCH 1.83 246 iPc 02 41.50 -0.4
 iS 03 04.60
 SAN 1.83 229 iP 02 42.20 0.5
 iS 03 06.00
 PCH 1.86 222 iPd 02 43.00 0.9
 iS 03 09.50
 RTRS 2.11 349 iPc 02 46.00 0.9
 TACH 2.14 229 iPd 02 45.50 0.1
 iS 03 12.50
 CHCH 2.17 219 iPd 02 46.90 1.0
 iS 03 15.00
 LCCH 2.47 240 iP 02 48.50 -1.1
 iS 03 17.00
 LNV 2.63 229 iP 02 50.50 -1.2
 CCH 15.03 11 P 05 41.30 5.1X
 S.D. = 0.9 on 12 of 13 obs.

? OCT 31, 1991 00h 42m 40.32±3.03s
 14.807 N ±23.6km 60.784 W ±27.2km
 DEPTH = 33.0km (normal)
 WINDWARD ISLANDS (95)
 ML 2.7 (FDF).

CRM 0.14 247 eP 42 46.43 0.1
 S 42 54.80
 MVM 0.27 203 iPc 42 47.63 -0.1
 S 42 57.20
 FDF 0.36 258 iPc 42 48.80 -0.2
 S 42 59.20
 BIM 0.40 224 iPc 42 49.66 0.2
 S 43 00.20
 S.D. = 0.3 on 4 of 4 obs.

% OCT 31, 1991 00h 42m 54.05±4.19s
 15.457 N ± 9.9km 61.172 W ±28.8km
 DEPTH = 161.9 ± 40.2 km
 LEEWARD ISLANDS (92)

MGG 0.48 343 eP 43 16.60 -0.3
 DOG 0.71 323 eP 43 18.30 0.1
 FDF 0.72 178 iPd 43 18.25 0.0
 S 43 34.60
 PAG 0.75 319 eP 43 18.41 -0.1
 SFG 0.79 358 eP 43 19.00 0.4
 DEG 0.86 7 eP 43 19.00 -0.2
 S 43 34.50
 MVM 0.94 163 eP 43 19.70 -0.1
 S 43 36.90
 BIM 0.94 174 eP 43 19.86 0.1
 SEG 0.99 341 eP 43 20.28 0.1
 S 43 38.80
 BPA 1.71 337 eP 43 27.00 -0.1
 S 43 49.50
 S.D. = 0.2 on 10 of 10 obs.

OCT 31, 1991 01h 11m 34.85±0.20s
 2.020 S ± 3.2km 134.307 E ± 4.3km
 DEPTH = 32.9km (2 depth phases)
 5.2mb (40 obs.) 5.0msz (8 obs.)

31d 01h

IRIAN JAYA REGION, INDONESIA (196)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 33C
Centroid Location:
Origin Time 01:11:38.5 0.4
Lat 1.74S 0.07 Lon 134.31E 0.06
Dep 16.8 2.4 Half-duration 2.2
Moment Tensor: Scale 10**17 Nm
Mrr=-1.78 0.09 Mtt= 0.60 0.11
Mff= 1.18 0.11 Mrt=-0.01 0.31
Mrf= 1.03 0.33 Mtf= 1.07 0.09
Principal Axes:
T Val= 2.17 Plg=12 Azm=304
N -0.03 17 210
P -2.15 69 68
Best Double Couple: Mo=2.2*10**17
NP1: Strike= 55 Dip=36 Slip= -61
NP2: 200 59 -110

AAI 6.33 255 eP 13 08.00 -0.3
JAY 6.41 95 ePd 13 10.20 0.7
MNI 10.07 290 ePd 14 02.50 2.1
MTN 11.21 196 eP 14 13.00 -2.9X
DAV 12.56 316 ePd- 14 36.00 1.9
KUPT 13.35 232 eP 14 51.00 6.4X
KNA 14.70 201 eP 14 58.80 -3.5X
PMG 14.73 120 eP 15 06.00 3.2X
MKS 15.14 257 ePd 15 16.00 7.9X
WR2 17.82 180 iPd 15 40.40 -1.7
RAB 17.97 97 iPc 15 48.00 4.1X
GUA 18.70 34 eP 15 53.00 0.1
GUMO 18.71 34 eP 15 52.00 -1.1
OIS 19.14 165 iPc 15 57.10 -1.1
KHKI 19.65 251 ePc 16 03.70 -0.3
KKM 19.76 294 ePc 16 06.00 0.7
ASPA 21.52 181 iPd 16 23.20 -0.2
TRT 22.31 255 iPc 16 34.10 2.9X
BAG 22.79 324 ePd- 16 36.00 -0.1
MBL 23.68 216 iPd 16 45.80 1.2
WARB 25.13 196 eP 17 00.00 1.5
QLP 26.22 160 eP 17 08.00 -0.6
RMO 28.01 152 eP 17 25.00 0.0
BRS 30.81 147 iPd 17 50.50 0.4
COOL 31.29 202 eP 17 53.70 -0.6
OIZ 31.87 312 eP 17 58.90 -0.5
MRWA 32.18 211 eP 18 02.80 0.8
ARMA 32.67 152 iPd 18 07.20 0.8
BAL 32.96 209 eP 18 08.80 0.0
ADE 33.03 173 e(P) 18 08.50 -0.9
KLB 33.30 206 eP 18 11.50 -0.3
IPM 33.89 281 ePc 18 17.00 -0.1
BWA 34.82 159 eP 18 25.40 0.5
SNG 34.84 286 eP 18 21.10 -4.1X
SSE 35.22 340 Pc 18 28.00 -0.2

Z 22s 3.30um 5.0Msz
N 16s 2.50um
E 14s 0.70um
BFD 35.80 169 iPd 18 29.40 -3.7X
CAN 35.84 159 eP 18 33.90 0.4
RKG 36.18 205 eP 18 37.00 0.7
NNT 37.27 294 P 18 45.60 -0.2
WHN 37.56 331 eP 18 48.50 0.6
E 12s 92.00nm 5.4mb
NST 38.09 299 eP 18 57.00 4.4X
GYA 38.91 319 P 19 00.20 0.6
Z 26s 3.57um 5.1MszX
N 18s 3.22um
E 18s 2.12um
BDT 39.73 300 eP 19 05.10 -1.2
CHG 40.47 302 ePd 19 12.50 0.1
KMI 40.79 313 eP 19 15.00 -0.2
TIA 41.27 339 eP 19 18.70 0.0
DL2 42.37 345 eP 19 30.00 2.4
XAN 43.09 329 Pd 19 33.40 -0.3
CD2 43.79 321 P 19 40.40 0.9
TIY 44.42 335 Pc 19 46.20 1.7
SNY 44.72 349 iPd 19 46.00 -0.7
BJI 45.03 340 eP 19 48.50 -0.7
CN2 46.30 351 P 19 58.00 -1.2
MDJ 46.62 355 Pc 20 01.80 0.1
LZH 47.37 326 iPd 20 08.80 0.8
HHC 47.44 337 P 20 09.00 0.6
BTO 47.86 335 eP 20 12.00 0.2
SHL 49.36 307 eP 20 22.50 -1.2
LSA 51.90 311 P 20 42.70 -0.6
GTA 51.98 326 iPd 20 43.40 0.1

Z 22s 43.00nm 5.4mb
E 12s 2.73um 5.2Msz
GUN 55.21 306 P 21 06.60 -1.0
PKI 55.45 306 P 21 08.60 -0.8
KKN 55.64 306 P 21 09.60 -1.0
DMN 55.71 306 P 21 10.20 -1.0
GKN 56.25 306 P 21 13.80 -1.1
HYB 58.23 292 ePc 21 27.50 -1.3
WMO 61.79 323 iPc 21 52.50 -0.4
Z 20s 62.00nm 6.0mb
QUE 71.60 303 eP 22 55.70 0.1
MAIO 79.00 307 iPd 23 38.30 0.8
MAW 81.13 202 eP 23 49.00 0.9
PMR 85.39 28 eP 24 09.80 -0.1
FBA 86.69 25 eP 24 16.80 0.4
BALM 88.52 29 eP 24 26.00 0.6
INK 92.67 22 eP 24 43.50 -0.8
SOD 98.61 338 iP 25 10.30 -1.1
NUR 101.35 332 ePdiff 25 24.00 0.2
HFS 106.56 333 ePdiff 25 46.50 -0.6
KRA 107.01 322 ePKP 30 03.00 4.0X
NB2 107.23 335 Pdiff 25 48.50 -1.6
GEC2 111.25 322 ePKPc 30 05.90 -1.3
ALQ 114.89 52 e(PKP) 30 15.70 0.9
KIC 138.94 277 PKP 31 00.40 -0.5
CUMC 147.81 91 ePKP 31 17.96 1.1
ARE 148.59 127 ePKP 31 24.00 6.3X
SALC 149.01 88 ePKPc 31 19.19 0.9
HOQC 149.06 87 ePKP 31 18.85 0.4
PURC 149.35 89 ePKP 31 19.80 0.6
DIAC 149.50 87 ePKP 31 19.43 0.4
CCH 152.10 135 PKP 31 31.00 8.1X
S.D. = 0.9 on 76 of 89 obs.
* OCT 31, 1991 02h 27m 34.85± 4.34s
33.154 S ±10.4km 72.009 W ±32.2km
DEPTH = 19.0 ± 9.4 km
OFF COAST OF CENTRAL CHILE (134)
IHA 0.33 68 iPc 27 42.50 0.5
LCCH 0.49 131 iPd 27 44.80 0.2
ROCH 0.86 78 iPd 27 50.70 -0.4
LNV 0.94 148 iP 27 52.00 -0.3
TACH 1.02 119 iPd 27 53.60 -0.2
PEL 1.11 90 iPd 27 55.30 0.0
SAN 1.17 105 iPd 27 56.00 -0.1
JACH 1.28 69 iP 27 57.50 -0.3
PCH 1.33 111 iPc 27 58.90 0.3
CHCH 1.37 125 iP 27 59.50 0.4
S.D. = 0.4 on 10 of 10 obs.
OCT 31, 1991 02h 29m 02.53± 0.16s
40.148 N ± 4.4km 72.841 E ± 2.8km
DEPTH = 21.2km (16 depth phases)
5.2mb (72 obs.) 5.0Msz (12 obs.)
KYRGYZSTAN (716)
KSH 2.52 105 Pg 29 48.00 4.9X
QUE 11.04 208 iPc 31 42.00 -0.5

MAIO	11.18	254	eS	33	40.40			Z	16s	1.67um	4.8MsZx			e	36	55.30	22km					
	0.9s		iPd	31	41.00	-3.3X		N	13s	0.50um				e	37	28.50						
			52.86nm			5.8mb		E	13s	0.95um			MDJ	41.44	64	eP	36	49.70	0.7			
WMO	11.65	67	eS	33	34.00			BDT	32.15	128	eP	35	29.80	-1.0								
	10s		4.39um	31	49.50	-1.1		BCK	32.81	279	eP	35	32.00	-4.6X		BRG	41.60	305	iPc	36	51.50	1.2
								IZI	32.86	285	eP	35	43.10	6.2X		1.6s	48.00nm	5.0mb				
NDI	11.99	161	iPd	31	53.00	-2.2		BJI	32.91	76	eP	35	37.50	0.3		Z	17s	4.00um	5.4MsZx			
	0.4s		381.36nm			7.0mb X			0.6s	5.00nm	4.6mb			N	17s	1.00um						
								Z	14s	1.53um	4.9MsZx			E	17s	2.50um						
GKN	15.55	138	P	32	37.20	-5.0X										e	36	57.50	20km			
	16.05	136	P	32	43.20	-5.6X		CFR	32.92	294	eP	35	37.00	-0.2		iScP	42	36.00				
	16.11	137	P	32	43.60	-6.0X		LOE	33.72	124	eP	35	47.00	2.4X		VBY	41.79	297	e(P)	36	53.00	1.1
DMN	16.28	135	P	32	47.00	-4.8X		VR1	33.83	295	ePc	35	46.50	1.3		GEC2	42.11	302	ePc	36	53.90	-0.7
	16.30	136	P	32	47.20	-4.8X		KHT	33.83	131	eP	35	46.70	1.2		0.7s	4.93nm	4.3mb				
	18.03	261	eP	33	14.50	1.0		NST	34.05	128	eP	35	52.30	5.0X			epPc	36	59.60	19km		
IR4	18.08	263	eP	33	15.50	1.4		ISR	34.05	294	eP	35	55.00	7.8X		CLL	42.12	306	iPd	36	54.90	0.3
	18.12	262	iPd	33	16.00	1.3		CVO	34.22	295	eP	35	52.00	3.4X		1.6s	40.00nm	4.9mb				
	18.24	119	P	33	17.30	0.8		MLR	34.42	295	iP	35	42.00	-8.5X		Z	18s	3.50um	5.3MsZ			
N	14s		1.66um					TJA	34.76	82	Pd	35	54.30	0.9		KHC	42.13	303	iPd	36	55.50	0.8
	18.28	261	eP	33	17.70	1.1			1.0s	9.00nm	4.6mb			Z	20s	1.70um	4.9MsZ					
	19.64	244	eP	33	33.00	0.0		Z	14s	1.00um	4.7MsZx			N	16s	1.00um						
SHI	20.66	273	eP	33	44.00	0.5		E	12s	0.82um				E	20s	1.80um						
	20.72	83	iPc	33	43.80	-0.4		WHN	34.92	93	eP	35	53.00	-1.7			e	37	00.00	15km		
	0.8s		150.00nm			5.4mb		1.5s	76.00nm	5.4mb					e	37	12.50					
GTA						4.8MsZx		E	12s	0.92um				LJU	42.16	298	e(P)	36	55.50	0.6		
														NB2	42.41	321	P	36	56.00	-0.9		
														0.7s	20.10nm	5.0mb						
			pP	33	47.50	14km		CMP	35.08	294	ePc	36	02.00	-6.0X		ROI	42.57	288	P	37	07.20	8.8X
			sP	33	53.00			KAF	35.44	324	iP	35	58.00	-0.8		WET	42.58	303	eP	36	58.00	-0.4
			PP	34	03.00				0.5s	8.50nm	4.9mb			VOY	42.59	298	e(P)	36	58.30	-0.3		
			S	37	33.00			TNR	35.56	295	ePc	36	08.00	7.9X		KBA	42.71	300	iPc	36	58.80	-0.9
			sS	37	43.00			NUR	35.81	321	iP	36	02.30	0.3		0.6s	13.70nm	4.9mb				
									0.8s	39.60nm	5.4mb				i	37	07.00	27km				
KER	21.25	262	eP	33	46.00	-3.6X								TRI	42.76	298	iP	37	00.70	0.9		
	21.56	177	iPd	33	51.60	-1.1		BMR	35.82	299	ePd	36	05.00	2.8		BHG	42.88	301	eP	37	01.80	1.0
	1.0s		78.00nm			5.1mb		NNT	36.25	132	eP	36	06.80	0.7		0.9s	26.00nm	5.0mb				
HYB	23.19	166	iPd	34	08.90	0.1		SOD	37.11	332	iP	36	13.20	0.4		MMN	42.88	289	P	37	08.20	7.3X
	0.6s		140.00nm			5.7mb		BZS	37.40	296	eP	36	15.50	0.0		CZI	43.01	288	P	37	06.90	5.0X
				i	34	32.50	112kmX		VAY	37.68	289	eP	36	25.00	7.1X		MOX	43.10	305	eP	37	03.20
MSL			iS	38	24.00			SPC	37.80	302	eP	36	19.80	0.7		1.7s	29.00nm	4.7mb				
	23.56	270	eP	34	10.50	-1.8		SNY	37.88	70	Pc	36	19.80	0.2		MGR	43.12	289	P	37	07.40	4.6X
			ePP	34	45.00				1.2s	29.00nm	5.0mb			FVI	43.21	299	P	37	03.30	-0.1		
BHD			eS	38	29.00			KRA	37.90	303	ePd	36	19.40	-0.3		GRF	43.53	304	eP	37	07.00	0.9
	23.76	262	ePd	34	14.00	-0.2			0.8s	75.00nm	5.6mb			1.2s	30.00nm	5.0mb						
			e	38	31.50									Z	21s	1.90um	5.0MsZ					
LZH	24.66	90	Pc	34	24.30	1.1		KEV	38.00	336	eP	36	27.00	6.7X		IPM	43.58	137	ePc	37	08.20	1.4
	2.0s		88.00nm			5.0mb		1.0s	36.00nm	5.1mb				1.0s	105.90nm	5.6mb						
	Z	22s	3.57um			4.8MsZ		QIZ	38.07	113	P	36	22.00	0.6		WTTA	43.80	300	iPc	37	08.40	-0.2
	N	13s	1.77um					GZH	38.08	104	P	36	23.00	1.5		1.0s	38.10nm	5.2mb				
	E	13s	1.55um												i	37	14.30	20km				
				pP	34	32.00	27km		SKO	38.33	290	eP	36	24.00	0.7			i	38	51.10		
			sP	34	38.50											i	42	44.40				
			PP	35	00.00				e	36	29.00	17km										
			S	38	40.00			BEO	38.36	295	eP	36	22.00	-1.6		FUR	43.83	302	iPc	37	09.80	1.3
			sS	38	55.00			CN2	38.74	67	eP	36	27.50	0.7		ARV	43.92	295	P	37	09.40	0.0
			ScP	41	37.50				0.7s	10.00nm	4.7mb			AQU	43.95	293	P	37	15.10	5.5X		
			PcS	41	42.00				Z	20s	4.75um	5.3MsZ			AZI	44.04	293	P	37	11.80	1.6	
CD2			ScS	45	24.50									CTI	44.10	299	P	37	11.00	0.1		
	26.69	100	Pd	34	43.40	1.4								ASS	44.25	294	P	37	14.00	2.0		
	Z	12s	1.85um			4.9MsZx								MNS	44.45	293	P	37	14.10	0.5		
OBN														SFI	44.56	296	P	37	15.90	1.5		
	28.25	314	iPd	34	55.50	-0.4		UPP	39.18	319	iP	36	08.30	0.1		CRE	44.57	295	P	37	16.40	1.7
	1.5s		120.00nm			5.4mb		UZD	39.30	298	eP	36	32.00	0.6		PGD	44.66	296	P	37	17.10	1.6
	Z	14s	1.50um			4.7MsZx		SSE	39.91	88	Pc	36	37.70	1.1		MME	45.27	296	P	37	21.90	1.4
	N	14s	1.40um						1.0s	30.00nm	5.0mb			BDI	45.38	296	P	37	22.40	1.3		
	E	14s	1.20um					Z	18s	1.30um	4.8MsZ			WTS	45.79	308	eP	37	29.00	4.9X		
			ePP	35	33.00				N	12s	1.30um			BOB	45.95	298	P	37	26.60	1.0		
			ePPP	35	42.00				E	14s	1.80um			VAI	46.08	299	P	37	25.70	-0.8		
			eScP	41	41.00									CDF	46.36	303	eP	37	27.90	-0.9		
KMI			e	46	32.00									0.8s	17.45nm	5.1mb						
	29.13	112	eP	35	04.50	0.1		ZST	40.00	301	eP	36	35.00	-2.2		MEM	46.60	306	Pd	37	37.00	6.5X
	1.9s		80.00nm			5.2mb		KSP	40.13	305	eP	36	38.00	-0.3		ENN	46.61	306	eP	37	31.00	0.4
XAN	Z	16s	2.40um			4.9MsZx								46.74	305	P	37	34.00	2.3			
	29.28	90	P	35	04.90	-0.5								BSF	46.83	302	eP	37	31.80	-0.7		
	0.6s		11.00nm			4.8mb								1.0s	28.00nm	5.2mb						
	N	11s	1.43um					VKA	40.51	301	eP	36	42.00	0.6		KGM	46.95	136	ePd	37	35.00	1.3
	E	11s	0.97um											HAU	47.06	303	eP	37	33.60	-0.7		
								HFS	41.17	319	eP	36	46.50	-0.1		1.0s	20.00nm	5.1mb				
BBTK	30.53	283	iPd	35	17.00	0.4			0.6s	36.30nm	5.3mb			Z	18s	3.73um	5.3MsZ					
	30.72	82	eP	35	18.80	0.5									LR	52	04.00					
	Z	18s	1.83um			4.8MsZ								SNG	41.18	135	iPd	36	58.50	11.4X		
TIY	N	11s	1.16um					PTJ	41.22	297	e(P)	36	47.80	0.4		LPL	47.55	299	eP	37	37.80	-0.6
				pP	35	22.00	11kmX		PRU	41.37	304	P	36	48.90	0.5		1.0s	50.00nm	5.5mb			
				eP	35	19.10	-1.0			1.0s	20.30nm	4.8mb			DOU	47.60	306	P	37	45.10	6.6X	
CHG	30.92	126	eP	35	19.10	-1.0			Z	16s	1.70um	5.0MsZx			0.7s	8.90nm	4.9mb					
			e	41	57.00				N	13s	1.00um					e	39	51.50	784kmX			
									E	15s	1.90um											

31d 02h

BNI 1.2s 136.85nm 5.9mb
 47.73 299 P 37 39.20 -0.6
 FRF 48.25 297 eP 37 42.60 -1.0
 1.0s 40.00nm 5.4mb
 LOR 48.89 302 eP 37 47.00 -1.5
 0.8s 10.75nm 4.9mb
 Z 18s 2.25um 5.2msz
 LBF 48.90 302 eP 37 47.40 -1.3
 1.0s 12.00nm 4.9mb
 SMF 49.10 302 eP 37 49.10 -1.1
 1.2s 38.70nm 5.3mb
 SSF 49.18 302 eP 37 49.30 -1.5
 1.0s 12.00nm 4.9mb
 AVF 49.37 302 eP 37 51.00 -1.2
 0.9s 37.65nm 5.4mb
 PLDF 49.47 301 P 37 54.40 1.3
 COLF 49.57 300 P 37 53.90 0.1
 BGF 49.78 302 eP 37 54.30 -1.1
 1.0s 19.00nm 5.1mb
 PYM 49.94 301 P 38 03.10 6.4X
 LBL 49.96 300 P 37 57.00 0.1
 MAF 50.07 302 eP 37 56.80 -0.8
 1.0s 40.00nm 5.4mb
 TCF 50.28 302 eP 37 58.50 -0.8
 1.2s 38.70nm 5.3mb
 MAT 50.36 72 (P) 37 58.00 -1.9
 EKA 50.73 314 P 38 02.00 -0.5
 1.1s 14.20nm 4.8mb
 LSF 50.74 302 eP 38 01.20 -1.5
 0.8s 13.45nm 4.9mb
 CAF 50.85 300 eP 38 03.00 -0.6
 0.8s 18.80nm 5.1mb
 LDF 51.00 305 eP 38 03.40 -1.2
 1.0s 42.00nm 5.3mb
 RJF 51.08 301 eP 38 04.70 -0.6
 0.8s 17.45nm 5.0mb
 Z 18s 1.25um 5.0msz
 LPO 51.52 300 eP 38 07.80 -0.9
 0.8s 13.45nm 4.9mb
 GRR 51.53 305 eP 38 07.10 -1.5
 1.0s 40.00nm 5.3mb
 KKM 51.59 119 ePd 38 11.00 1.4
 DAG 51.68 343 iPc 38 09.00 -0.5
 1.0s 40.00nm 5.3mb
 MFF 51.70 303 eP 38 08.60 -1.4
 1.0s 24.00nm 5.1mb
 LFF 51.73 301 eP 38 09.50 -0.7
 ESEL 52.28 294 eP 38 15.20 0.7
 EBR 53.52 296 eP 38 26.00 2.5
 ECHE 55.05 295 eP 38 36.00 1.0
 EVIA 56.55 295 eP 38 46.00 0.2
 EHUE 56.99 294 iP 38 48.80 -0.2
 TOL 57.05 297 iPc 38 48.70 -0.6
 1.2s 23.44nm 5.1mb
 ENIJ 57.11 293 eP 38 50.00 0.2
 AFC 57.92 294 eP 38 54.20 -1.4
 ECOG 57.93 294 eP 38 54.50 -1.1
 EGUA 58.14 293 eP 38 56.30 -0.6
 EPLA 58.35 298 eP 38 59.00 0.6
 EPRU 59.24 294 eP 39 04.00 -0.7
 EJIF 59.66 294 eP 39 06.50 -1.0
 IFR 60.89 291 iP 39 16.00 -0.2
 39 22.00 20km
 39 23.00
 AVE 62.64 292 eP 39 24.00 -3.7X
 39 34.50 34kmX
 40 18.00
 MBC 63.63 3 eP 39 33.00 -0.6
 1.0s 189.00nm 6.2mb X
 TIO 63.79 289 iP 39 34.50 -1.0
 39 50.50 59kmX
 MTD 68.42 223 iPd 40 05.00 -0.1
 40 15.30 33kmX
 46 25.70
 LSZ 69.02 227 iP 40 08.00 -0.8
 45 33.00
 KRI 69.51 224 iPd 40 12.50 0.7
 40 23.20 35kmX
 INK 70.07 10 eP 40 14.00 -0.4
 0.7s 32.00nm 5.6mb
 FBA 70.56 17 iP 40 16.60 -0.9
 1.0s 30.50nm 5.4mb
 BUL 72.77 223 iPc 40 30.30 -1.1
 40 40.50 33kmX
 PMR 73.05 20 eP 40 30.30 -2.0
 1.0s 35.00nm 5.4mb
 SLKM 73.68 21 eP 40 34.00 -2.1

MBL 75.08 135 eP 40 44.00 -0.6
 0.6s 14.00nm 5.2mb
 BALM 75.16 17 eP 40 47.00 2.2
 KIC 76.44 267 P 40 51.56 -1.0
 0.7s 22.00nm 5.3mb
 TIC 76.47 267 P 40 51.50 -1.3
 LIC 76.74 267 Pc 40 53.00 -1.3
 0.9s 26.00nm 5.3mb
 Z 20s 0.20um 4.4msz
 YKA 77.53 4 eP 40 57.50 -0.3
 0.8s 15.50nm 5.1mb
 WRA 82.74 124 P 41 25.00 -1.3
 0.5s 9.50nm 5.2mb
 WR2 82.76 124 iPc 41 25.30 -1.0
 0.6s 22.40nm 5.5mb
 ASPA 85.20 126 iPc 41 37.80 -0.8
 0.8s 19.90nm 5.4mb
 FFC 85.40 357 iPc 41 39.20 0.0
 1.1s 34.00nm 5.5mb
 QIS 86.61 120 eP 41 45.00 -0.6
 SES 89.77 2 eP 42 01.00 0.5
 PNT 90.24 8 eP 42 05.00 2.3
 0.8s 22.00nm 5.5mb
 NEW 91.53 7 eP 42 09.50 0.8
 1.0s 12.50nm 5.2mb
 LRM 94.28 4 eP 42 28.60 6.9X
 RSSD 96.07 358 eP 42 39.50 0.6
 1.1s 14.29nm 5.3mb
 RMQ 96.76 119 eP 42 34.00 1.3
 AIA 144.98 210 ePKP 48 39.70 1.1
 CFA 147.54 273 e(PKP) 48 46.00 2.0X
 PEL 150.07 272 ePKP 48 53.00 5.1X
 TACH 150.46 271 ePKP 48 57.20 8.8X
 LCCH 150.88 272 ePKP 48 52.00 3.0X
 LNV 150.94 271 ePKP 48 53.00 4.0X
 S.D. = 1.1 on 161 of 197 obs.

? OCT 31, 1991 02h 34m 18.74 ± 3.48s
 32.533 S ± 26.3km 71.247 W ± 16.5km
 DEPTH = 33.0km (normal)
 NEAR COAST OF CENTRAL CHILE (135)

ROCH 0.48 156 iP 34 29.50 0.2
 34 39.00
 JACH 0.57 105 iPc 34 30.50 0.0
 34 40.00
 PEL 0.77 142 iPc 34 33.10 -0.1
 34 45.30
 LCCH 0.98 196 iP 34 36.50 0.4
 34 49.50
 TACH 1.15 167 iPc 34 38.50 -0.1
 34 55.00
 PCH 1.25 151 iP 34 40.00 0.0
 34 57.10
 LNV 1.43 185 eP 34 42.00 -0.5
 35 02.00
 CHCH 1.48 161 iP 34 43.60 0.2
 35 03.40
 S.D. = 0.3 on 8 of 8 obs.

% OCT 31, 1991 03h 01m 08.99 ± 0.83s
 33.233 S ± 7.3km 71.172 W ± 9.2km
 DEPTH = 33.0km (normal)
 NEAR COAST OF CENTRAL CHILE (135)

ROCH 0.29 27 iP 01 18.00 1.1
 01 25.50
 LCCH 0.41 234 iPc 01 18.50 0.2
 01 27.50
 PEL 0.42 78 iPd 01 19.00 0.6
 01 26.50
 TACH 0.46 155 iPc 01 19.60 0.5
 01 28.40
 PCH 0.67 125 iPd 01 22.00 -0.1
 01 32.50
 JACH 0.73 42 iP 01 21.50 -1.5
 01 33.00
 LNV 0.75 195 iP 01 22.50 -0.5
 01 34.50
 CHCH 0.82 148 iPc 01 24.00 -0.2
 01 35.90
 S.D. = 0.9 on 8 of 8 obs.

* OCT 31, 1991 03h 04m 07.02 ± 0.81s
 36.486 N ± 9.7km 25.579 E ± 7.8km
 DEPTH = 33.0km (normal)

DODECANESE ISLANDS (369) ML 3.7 (ATH).

NPS 1.22 179 eP 04 28.50 0.6
 ATH 2.10 316 eP 04 41.00 0.5
 eS 05 09.50
 VLI 2.14 277 eP 04 40.20 -0.9
 YER 2.26 73 ePn 04 42.00 -0.9
 CIN 2.29 60 eP 04 43.00 -0.3
 IZM 2.33 35 ePn 04 44.90 1.0
 PRK 2.81 11 eP 04 46.50 -4.1X
 S.D. = 1.1 on 6 of 7 obs.

OCT 31, 1991 03h 13m 37.28 ± 0.60s
 45.583 N ± 3.8km 3.650 E ± 5.6km
 DEPTH = 10.0km (geophysicist)

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

COLF 0.07 154 Pg 13 39.30 -0.4
 Sg 13 40.91
 PLDF 0.39 357 Pg 13 44.58 -0.7
 Sg 13 49.82
 LBL 0.45 219 Pg 13 46.05 -0.4
 Sg 13 51.69
 PYM 0.48 291 Pg 13 46.67 -0.4
 Sg 13 53.44
 AGO 0.59 323 Pg 13 48.68 -0.6
 Sg 13 56.53
 MAF 0.99 311 Pg 13 56.00 -0.1
 Sg 14 08.80
 SMF 1.07 7 Pg 13 56.80 -0.6
 Sg 14 09.80
 BGF 1.12 330 Pg 13 58.20 -0.1
 Sg 14 12.80
 AVF 1.23 350 Pg 13 59.60 -0.5
 Sg 14 15.80
 TCF 1.23 306 Pg 14 00.40 0.3
 Sg 14 16.00
 CAF 1.30 240 Pg 14 01.20 -0.1
 Sg 14 18.40
 LBF 1.42 9 Pg 14 03.40 0.2
 Sg 14 21.20
 SSF 1.48 356 Pg 14 04.70 0.7
 Sg 14 23.20
 RJF 1.53 260 Pg 14 05.80 1.2
 LOR 1.69 5 Pg 14 08.40 1.4
 Sg 14 30.20
 S.D. = 0.7 on 15 of 15 obs.

% OCT 31, 1991 03h 21m 58.14 ± 1.67s
 17.755 N ± 13.7km 76.847 W ± 8.0km
 DEPTH = 10.0km (geophysicist)

JAMAICA REGION (86) MD 1.8 (HOJ).

PCJ 0.31 268 eP 22 04.04 -0.5
 S 22 07.87
 STH 0.32 6 iP 22 04.73 -0.1
 S 22 08.04
 GWJ 0.33 18 iP 22 04.09 -1.0
 S 22 06.72
 YHJ 0.36 68 eP 22 06.05 0.4
 BBJ 0.74 327 eP 22 13.90 1.2
 S 22 23.77
 S.D. = 1.2 on 5 of 5 obs.

* OCT 31, 1991 04h 20m 32.56 ± 2.79s
 45.731 N ± 15.5km 26.796 E ± 8.8km
 DEPTH = 128.4 ± 26.3 km

ROMANIA (358)

VRI 0.15 340 iPc 20 49.00 -0.7
 BRD 0.28 140 eP 20 50.50 0.5
 CVO 0.44 282 iPd 20 51.50 0.1
 ISR 0.62 197 iPd 20 52.80 0.3
 MLR 0.64 249 ePd 20 52.50 -0.3
 PPE 0.75 49 ePd 20 53.50 0.1
 CFR 1.10 119 iPc 20 57.00 0.5
 MTUR 1.32 248 eP 21 18.00 19.0X
 TLB 1.44 142 iPc 20 59.50 -0.7
 COZ 1.77 257 ePc 21 04.50 0.2
 S.D. = 0.6 on 9 of 10 obs.

* OCT 31, 1991 04h 51m 47.38s
 60.555 N 152.727 W
 DEPTH = 114.0km

SOUTHERN ALASKA <AEIC>						(2)	DJE 4.79 40 eP 52 56.99 -1.5						MME 0.94 151 P 31 36.40 0.9					
REF	0.07	169	iPd	52 02.60	0.7	TGL	4.87	83	eP	52 57.70	-2.1	BDI	1.02	158	P	31 37.80	1.0	
RED	0.14	189	iPd	52 02.57	0.7	MDM	4.88	23	ePd	52 57.69	-2.0							
RDT	0.16	83	iPd	52 02.72	0.9	FBA	4.92	25	ePn	52 57.77	-2.4	PCP	1.18	247	P	31 52.80	0.5	
			eS	52 15.00		SNH	4.92	90	eP	52 58.85	-1.5							
INE	0.52	199	ePd	52 04.60	-0.7	GLM	5.08	27	ePd	53 00.19	-2.3	VAI	1.25	314	Pd	31 42.00	1.5	
			eS	52 18.90		BALM	5.11	80	eP	52 59.68	-3.3							
CKL	0.67	16	iPd	52 05.55	-0.8	CYK	5.11	91	eP	53 01.30	-1.6	TMA	1.38	323	ePd	31 44.20	1.4	
SPU	0.71	27	iPd	52 05.58	-1.0	DOT	5.12	49	eP	53 00.74	-2.3	CKI	1.40	246	P	31 44.00	1.1	
			iS	52 20.77		WRG	5.35	91	eP	53 04.33	-1.8							
BGL	0.73	13	iPd	52 06.21	-0.6	TMW	5.37	55	eP	53 04.52	-1.9	CTI	1.53	47	Pd	31 46.60	1.8	
CRP	0.77	21	iPd	52 06.43	-0.7	YAH	5.44	87	ePc	53 05.86	-1.7							
CGLM	0.83	25	iPd	52 06.76	-0.9	IMA	5.55	356	eP	53 06.00	-3.0	VDL	1.53	345	ePd	31 47.30	2.3	
			eS	52 22.79		CTGM	5.60	81	eP	53 07.91	-1.8	FIN	1.55	239	Pd	31 44.96	-0.1	
NNL	0.88	125	iPc	52 08.45	0.4	76 obs. associated												
NCG	0.90	18	iPd	52 07.53	-0.8	% OCT 31, 1991 05h 15m 37.97±1.34s						ORO	1.59	293	P	31 45.50	-0.3	
HOM	1.05	148	ePc	52 09.63	-0.1	41.689 N ±12.5km 13.569 E ± 7.2km												
			eS	52 26.32		DEPTH = 10.0km (geophysicist)						ORX	1.59	294	P	31 45.84	0.0	
PDB	1.06	224	eP	52 07.97	-1.9	SOUTHERN ITALY (390)						PGD	1.65	133	P	31 48.70	2.1	
XLV	1.21	155	ePc	52 10.71	-0.8	SDI	0.18	85	Pc	15 42.10	0.0							
			eS	52 28.65					eSg	15 45.40		OSS	1.68	2	ePd	31 50.30	3.2x	
AUL	1.23	197	eP	52 11.88	0.2	AZI	0.32	342	Pd	15 44.00	-0.5	SFI	1.68	130	P	31 49.70	2.7x	
SLKM	1.24	91	iPc	52 10.81	-1.0				eSg	15 48.50								
			eS	52 29.47		RMP	0.66	281	P	15 51.20	0.1	ROB	1.72	246	P	31 47.97	0.4	
AUE	1.24	195	eP	52 11.94	0.1				eSg	16 01.20								
AUP	1.25	197	eP	52 12.28	0.3	AQU	0.68	349	P	15 52.20	0.8	MMK	1.80	306	ePd	31 50.00	1.0	
			eS	52 32.69					eSg	16 02.00		IMI	1.90	235	Pd	31 49.79	-0.5	
AUH	1.25	197	eP	52 11.51	-0.4	MNS	0.96	317	P	15 56.40	0.1							
AUI	1.27	196	eP	52 12.72	0.6				eSg	16 11.30		VVI	1.93	59	P	31 52.80	2.2	
			eS	52 31.63		ASS	1.54	334	P	16 05.00	-0.5	CRE	1.94	135	P	31 52.30	1.5	
CNPM	1.28	143	ePc	52 11.54	-0.7	S.D. = 0.6 on 6 of 6 obs.												
			eS	52 30.65		OCT 31, 1991 05h 24m 49.82±1.23s						OGA	1.98	20	iPnd	31 54.60	3.1x	
SUA	1.33	46	iPd	52 12.15	-0.8	5.872 N ± 7.5km 126.019 E ± 9.1km						RSP	1.99	275	P	31 49.92	-1.7	
			iS	52 31.87		DEPTH = 165.5 ± 11.5 km						BHB	1.99	266	P	31 51.27	-0.3	
SVW	1.52	293	eP	52 13.21	-1.9	4.8mb (7 obs.)												
SKT	1.54	21	iPd	52 14.21	-1.1	MINDANAO, PHILIPPINE ISLANDS (259)						LIS	2.00	339	ePd	31 53.30	1.5	
			eS	52 36.22		MNI	4.55	195	eP	25 59.50	1.1	RSM	2.03	121	P	31 54.40	2.4	
MCNL	1.60	211	ePc	52 15.30	-0.7				eS	26 55.00		ENR	2.04	248	P	31 53.14	0.8	
			eS	52 36.96		TNE	5.21	165	iP	26 06.00	-1.0							
SEW	1.69	104	iPc	52 15.71	-1.4				eS	27 03.00		SAOF	2.06	241	Pg	31 52.86	0.3	
			eS	52 38.28		MTN	19.28	165	eP	29 03.50	-0.7	DOI	2.07	257	P	31 53.00	0.3	
CDD	1.70	196	eP	52 16.46	-0.8	KNA	21.65	173	eP	29 28.00	0.0	STV	2.10	250	P	31 53.96	0.8	
PMS	1.70	65	iPc	52 16.30	-0.9	LAT	24.36	120	eP	29 54.80	0.7	LSD	2.10	283	P	31 52.26	-1.0	
PWA	1.77	50	ePc	52 17.04	-1.0	WR2	26.94	162	iPd	30 16.90	-0.8	AUTN	2.14	243	Pg	31 54.42	0.6	
			eS	52 42.02					0.5s	8.70nm	4.7mb	DIX	2.15	301	ePd	31 55.30	1.3	
SYI	1.96	175	ePd	52 19.90	-0.6	MBL	27.54	193	iPd	30 22.70	-0.4	PZZ	2.17	258	P	31 53.38	-0.8	
			eS	52 45.06					0.5s	4.00nm	4.4mb	SBF	2.20	240	Pg	31 54.29	-0.3	
PLRM	2.03	58	iPc	52 19.39	-2.0	QIS	29.46	153	eP	30 40.00	-0.3	TOUF	2.24	245	Pg	31 56.33	1.0	
			eS	52 45.44					e	30 46.00								
PMR	2.03	58	iPc	52 19.32	-2.1	ASPA	30.35	166	iPc	30 47.60	-0.6	AURF	2.26	241	Pg	31 55.72	0.3	
CUT	2.20	31	ePd	52 22.36	-1.2				0.5s	13.50nm	4.9mb							
			eS	52 49.93		WARB	31.87	179	eP	31 01.60	0.2	RRL	2.33	269	P	31 56.01	-0.6	
GHO	2.21	55	iPc	52 22.00	-1.8	BAL	37.35	193	iPc	31 47.90	-0.1	SCE	2.33	29	iPnd	31 58.00	1.4	
			eS	52 48.84		KLB	38.08	191	eP	31 54.00	-0.1	MVIF	2.36	243	Pg	31 57.89	0.9	
KNK	2.25	66	iPc	52 22.31	-2.0				0.3s	10.00nm	5.0mb							
			eS	52 50.08		RKG	41.11	191	eP	32 20.20	1.2	LPG	2.39	283	Pn	31 57.10	-0.4	
SML	2.47	58	iPc	52 25.10	-2.1	ARMA	43.64	147	eP	32 40.80	1.1	BNI	2.40	272	P	31 57.40	-0.1	
LTJ	2.48	100	iPc	52 24.78	-2.5				0.8s	11.00nm	4.5mb	LPL	2.40	283	Pn	31 57.50	-0.1	
KNIM	2.48	93	ePc	52 24.19	-3.1	GUN	43.92	305	P	32 42.60	0.2	EMS	2.44	297	ePc	32 00.10	2.0	
MTU	2.59	100	ePc	52 26.38	-2.4				0.5s	10.00nm	4.7mb	FVI	2.48	49	P	32 00.70	2.3	
GLI	2.79	81	iPc	52 27.77	-3.6	PKI	44.17	304	P	32 44.00	-0.4	WTTA	2.51	25	iPnc	32 01.80	2.8x	
KDC	2.82	177	eP	52 28.76	-3.0	KKN	44.36	304	P	32 44.80	-1.0							
HUR	2.84	30	eP	52 31.25	-0.8	DMN	44.44	304	P	32 47.40	1.0	WATA	2.55	24	iPnc	32 03.00	3.3x	
			eS	53 03.82		GKN	44.97	304	P	32 50.20	-0.3	ARV	2.56	125	P	32 01.00	1.3	
TTA	2.85	328	eP	52 30.04	-2.2	DZM	48.36	126	iPd	33 17.10	0.1							
SCM	2.91	62	ePc	52 30.92	-2.2	PMR	82.42	29	iP	36 54.10	-0.3	PGF	2.58	198	Pg	31 59.43	-0.6	
			eS	53 06.44					1.1s	27.50nm	4.9mb							
VZW	3.07	78	ePc	52 32.25	-2.9	FBA	83.10	25	eP	36 58.20	0.3	CALN	2.60	242	Pg	32 01.53	1.2	
FID	3.08	84	ePc	52 31.49	-3.8	S.D. = 0.7 on 22 of 22 obs.												
TRF	3.13	21	eP	52 34.46	-1.6	OCT 31, 1991 09h 31m 17.42±0.15s						ASS	2.70	135	Pc	32 02.10	0.4	
VLZ	3.18	77	ePc	52 33.78	-2.8	45.011 N ± 1.9km 10.059 E ± 1.4km												
RND	3.40	31	eP	52 38.50	-1.1	DEPTH = 10.0km (geophysicist)						TRI	2.70	74	iPnc	32 01.70	0.0	
MID	3.40	107	eP	52 37.58	-2.0	3.8mb (2 obs.)												
KLU	3.44	71	iPc	52 37.51	-2.7	NORTHERN ITALY (545)												
TOA	3.52	61	ePc	52 39.62	-1.7	ML 4.3 (LDG). 4.3 (STR). MD 3.9						MAO	2.71	163	Pd	32 02.30	0.5	
IZL	3.83	64	eP	52 43.66	-1.7	(ROM).						ZLA	2.73	335	ePd	32 03.20	1.1	
SDG	3.97	57	ePc	52 45.45	-1.8	BOB	0.50	241	Pc	31 27.80	0.3	FRF	2.85	241	Pn	32 03.60	-0.1	
RAGM	3.99	89	eP	52 45.53	-2.1													

			Sn	32 42.20		TCF	5.65	286	Pn	32 42.80	-0.7	ATZ	22.98	113	eP	36 22.90	-0.2
RIY	3.08	82	iPnc	32 06.60	-0.3				Sn	33 45.00		DSI	23.86	116	eP	36 32.00	0.4
			Pnc	32 42.10		CAF	5.67	272	Pn	32 43.20	-0.6	SOD	24.07	16	iP	36 46.70	13.4X
LRG	3.08	241	Pn	32 07.40	0.4	MOX	5.74	10	ePn	32 42.20	-2.4X	PRNI	24.45	118	eP	36 37.70	0.4
KBA	3.08	47	iPnc	32 09.60	2.4		Z	14s	1.90um			CHG	76.17	77	eP	43 06.90	-0.7
			iPg	32 18.80			N	14s	1.30um			PNT	76.31	329	eP	43 08.00	0.1
			iSn	32 46.50					iPg	33 07.00			S.D. = 1.0 on 142 of 168 obs.				
			iSg	33 00.60					iSn	33 47.00			* OCT 31, 1991 09h 36m 22.10±0.99s				
CEY	3.16	75	ePn	32 08.30	0.1	ZST	5.80	54	iPn	32 45.40	-0.2		72.628 N ±13.9km 3.179 E ±13.6km				
			iSn	32 46.00					i	33 08.70			DEPTH = 10.0km (geophysicist)				
TAVF	3.19	246	P	32 08.82	0.2				i	33 43.30			3.9mb (1 obs.)				
FEL	3.20	334	Pn	32 08.81	0.0				Lg	34 40.00			NORWEGIAN SEA (642)				
MNS	3.24	143	Pd	32 09.90	0.6	PRU	5.83	30	Pn	32 45.20	-0.8	LOF	5.70	137	eP	37 49.01	0.2
LOMF	3.24	317	Pn	32 09.91	0.5			0.6s	72.50nm		5.6mb X			Lg		38 46.84	
FUR	3.27	14	iPnd	32 11.10	1.4				Sn	33 49.00		TRO	5.92	113	iP	37 50.52	-1.2
LJU	3.31	70	iPnc	32 11.00	0.7				Sg	34 30.50				Lg		38 50.53	
			e	32 19.80					Pn	32 47.60	-1.4	DAG	7.10	316	iPc	38 08.10	-0.2
			eSn	32 50.50		RJF	6.05	276	Pn	32 48.80	-1.1		0.5s	8.45nm			5.2mb X
			eSg	33 07.50		LSF	6.11	285	Pn	32 48.80	-1.1			iS	39 20.80		
VILF	3.32	251	P	32 10.93	0.4	UZD	6.17	72	eP	33 02.00	11.3X	KTk1	7.51	109	iP	38 12.92	-1.3
BHG	3.34	35	iPnd	32 13.10	2.4	MEM	6.23	335	iP	32 51.70	0.2	MOR7	7.54	142	iP	38 15.08	0.5
CDR	3.36	248	e(Pn)c	32 10.80	-0.2	DOU	6.29	326	Pn	32 52.60	0.2	KEV	8.18	99	eP	38 28.00	4.4X
			e	32 11.70					i	33 06.40		SOD	9.55	112	iP	38 44.00	1.6
PUYF	3.46	246	P	32 12.58	0.1				i	34 18.20		NB2	12.04	161	P	39 16.70	0.1
MOF	3.49	326	Pn	32 12.91	0.0	BAI	6.32	126	P	32 50.00	-2.9X		0.8s	5.60nm			4.9mb X
LIBD	3.57	333	Pn	32 14.28	0.4	MGR	6.34	138	P	32 51.90	-1.2	HFS	13.20	156	eP	39 31.20	-0.7
BERF	3.57	243	P	32 14.42	0.3	SRO	6.36	61	eP	33 06.50	13.1X		0.4s	3.50nm			4.8mb X
AQU	3.60	136	P	32 14.60	0.2				i	33 21.80		Z	16s	0.42um			3.9MsZ X
BSF	3.61	322	Pn	32 14.88	0.2	ENN	6.40	336	eP	32 59.50	5.6X			LR	41 03.00		
TREF	3.63	249	P	32 15.40	0.5	BRG	6.42	23	iPn	32 53.20	-1.1	KAF	13.66	129	eP	39 38.20	0.2
VBY	3.70	81	iPnc	32 16.20	0.3			0.7s	32.00nm		5.3mb X	NUR	14.72	135	eP	39 50.50	-1.3
			iSn	33 00.00					ePg	33 19.00		CLL	21.83	163	eP	41 24.00	8.1X
			iSb	33 10.60					eSn	34 05.00			1.9s	40.00nm			4.5mb X
			iSg	33 17.20					e	34 18.00		MOX	22.37	166	eP	41 27.20	5.8X
PRAF	3.71	253	P	32 15.88	-0.1				iSg	34 49.00			1.8s	44.00nm			4.6mb X
GELF	3.71	246	P	32 16.18	0.2	BRY	6.48	106	iPnd	32 54.10	-1.2	OBN	22.39	124	iP	41 23.50	2.1
RMP	3.73	148	P	32 16.50	0.2				iSg	33 52.64			1.2s	43.00nm			4.8mb X
ECH	3.78	329	Pn	32 16.87	-0.1	CLL	6.60	16	iPn	32 56.20	-0.7			e	42 09.00		
AZI	3.89	140	P	32 19.50	1.0			0.9s	24.00nm		5.2mb X	PRU	23.28	161	eP	41 36.50	6.3X
CDF	3.90	332	Pn	32 18.52	-0.3	HCY	6.63	110	iPnc	32 55.52	-1.7	GEC2	24.33	163	eP	41 44.50	3.9X
HAU	3.94	321	Pn	32 19.20	-0.1				iSn	33 55.44			0.7s	2.06nm			3.9mb
			Sn	33 04.00		BRT	6.67	126	Pd	32 56.80	-1.1			ePd	41 49.50	18kmX	
PTJ	4.25	76	iPnd	32 23.50	-0.2	BUD	6.69	65	e(P)	33 04.00	5.9X		S.D. = 1.2 on 11 of 16 obs.				
			i(Sn)	33 11.00		NKY	6.82	106	iPnc	32 58.78	-1.3	? OCT 31, 1991 09h 54m 44.89±1.91s	4.448 N ±25.1km 76.153 W ±29.5km				
ZAG	4.25	77	i(Pn)	32 24.70	1.1	BDV	6.92	110	iPnd	32 59.54	-1.8		DEPTH = 90.0km (geophysicist)				
			iSg	33 41.70		PLE	6.92	101	iPnc	33 00.16	-1.3		COLOMBIA (103)				
VITF	4.26	320	Pn	32 23.74	-0.1				iSn	34 03.54			MD 2.7 (UVC).				
SDI	4.29	139	P	32 24.30	0.0	CSI	6.97	136	P	33 02.40	0.3	HOBC	0.09	169	eP	54 59.10	-0.1
GWf	4.30	338	Pn	32 24.15	-0.3	TTG	7.15	108	iPnd	33 03.10	-1.4			eS		55 09.40	
WET	4.56	24	iPnd	32 28.00	-0.1	KSP	7.18	33	iPn	33 03.00	-2.0	CLMC	0.70	216	eP	55 02.15	0.4
GEC2	4.58	32	ePnc	32 26.60	-1.7				i	33 16.80				eS		55 14.80	
	0.5s		id	32 28.20		ROI	7.27	136	P	33 05.60	-0.6	HOOC	1.08	206	eP	55 05.59	-0.6
			e	32 30.70		MFF	7.31	286	Pn	33 06.00	-0.8	DIAC	1.15	182	ePc	55 07.03	0.2
			e	32 34.00		CZI	7.34	140	P	33 08.20	1.0	ANCC	1.17	218	eP	55 07.03	0.1
PLDF	4.63	284	P	32 28.18	-0.9	ULC	7.34	111	iPnd	33 04.98	-2.3		S.D. = 0.5 on 5 of 5 obs.				
SMF	4.64	293	Pn	32 29.00	-0.2				iSn	34 12.88		* OCT 31, 1991 10h 29m 23.43±0.79s	39.120 N ±11.8km 99.582 E ±7.7km				
			Sn	33 22.00		BEO	7.38	88	ePn	33 52.00	44.2X		DEPTH = 33.0km (normal)				
LBF	4.67	297	Pn	32 30.00	0.3	PSZ	7.39	63	eP	33 07.00	-1.0		GANSU, CHINA (322)				
TOD	4.68	350	eP	32 29.28	-0.4	IVA	7.42	103	iPnd	33 06.98	-1.4		ML 4.3 (BJI).				
GRF	4.75	9	iPnd	32 29.30	-1.5	PVY	7.57	105	iPnd	33 08.84	-1.7	GTA	0.34	32	iPg	29 31.90	0.0
	Z	14s	e	32 37.10					iSn	34 18.30				Sg		29 38.50	
			e	32 37.10		SPC	8.11	55	eP	33 29.40	11.3X	LZH	4.54	130	Pnc	30 33.00	1.2
KHC	4.77	29	Pn	32 30.90	-0.2	FLN	8.14	301	Pn	33 16.60	-1.7			Pg		30 45.80	
			ePg	32 49.00		BZS	8.17	82	eP	33 17.00	-1.8	HHC	9.36	76	P	31 39.40	0.2
			e	33 25.00		GRR	8.23	298	Pn	33 18.00	-1.6	WMQ	10.08	302	P	31 56.20	7.2X
			eSg	33 59.50		OHR	8.77	113	eP	33 23.50	-3.8X	TIY	10.18	94	Pc	31 49.50	-1.0
LBL	4.83	275	P	32 30.78	-1.1			0.5s	54.00nm		6.1mb X		Z	10s	1.02um		
LOR	4.86	300	Pn	32 32.20	-0.2	SKO	8.81	106	iP	33 25.80	-1.9X	E	10s	0.47um			
HVAR	4.95	109	iPnc	32 32.10	-1.5	FNA	9.32	113	eP	33 32.40	-2.3X	GYA	13.95	153	P	32 40.00	-1.1
			iSn	33 30.10		VAY	9.86	108	eP	33 39.00	-3.1X	GUN	15.96	230	P	33 09.80	2.3
AGO	4.98	285	P	32 32.83	-1.1	AGG	10.91	119	eP	33 40.00	-16.6X	KKN	16.41	231	P	33 12.80	-0.3
SSF	5.00	297	Pn	32 34.00	-0.3	TOL	11.61	249	eP	34 10.50	4.4X	PKI	16.50	230	P	33 13.00	-1.2
			Sn	33 30.80		NB2	16.07	2	P	35 08.20	3.3X	DMN	16.65	231	P	33 16.20	0.1
PYM	5.02	281	P	32 34.25	-0.4			0.9s	7.30nm		3.8mb	GKN	16.65	233	P	33 15.00	-1.0
RUP	5.12	338	eP	32 35.88	0.0	NUR	17.79	24	eP	35 24.00	-2.4X	WRA	67.16	144	P	40 17.00	0.8
ABH	5.16	342	eP	32 35.89	-0.7	KAF	19.56	23	iP	35 46.00	-2.0X		1.1s	0.50nm			3.5mb
BGF	5.28	290	Pn	32 37.00	-1.2			0.5s	2.90nm		3.8mb		S.D. = 1.2 on 11 of 12 obs.				
			Sn	33 38.00		OBN	19.69	50	eP	35 49.00	-0.5						
TNS	5.33	349	ePc	32 38.00	-1.0				e								
			e	33 03.80													
			e	33 39.40													
WLF	5.36	332	eP	32 44.40	5.1X												
GRG	5.36	298	P	32 39.25	-0.2												
MAF	5.39	286	Pn	32 38.60	-1.3												
HOF	5.45	12	iPnc	32 45.40	4.8X												

% OCT 31, 1991 10h 51m 58.15±0.65s
45.018 N ± 6.4km 9.919 E ± 6.0km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

BOB 0.42 233 P 52 06.80 0.1
eSg 52 13.10
SAL 0.73 36 P 52 13.50 1.1
eSg 52 24.50
MME 1.00 146 P 52 17.30 0.1
eSg 52 31.20
BDI 1.07 153 P 52 18.40 0.0
eSg 52 34.00
CKI 1.31 244 P 52 22.40 0.0
ORO 1.50 295 P 52 25.00 -0.2
eSg 52 45.50
CTI 1.59 49 P 52 25.40 -1.2
eSg 52 47.10
S.D. = 0.8 on 7 of 7 obs.

OCT 31, 1991 10h 55m 44.31±0.60s
24.129 N ± 11.1km 95.518 E ± 7.8km
DEPTH = 33.0km (normal)
MYANMAR (296)

CHG 6.18 148 ePn 57 15.00 -0.7
ePg 57 39.20
eSg 59 07.00
KMI 6.65 80 Pgc 57 22.50 0.1
Sg 57 33.00
BDT 7.59 154 eP 57 36.00 0.6
GUN 9.45 296 P 58 01.60 0.0
0.6s 30.00nm 5.7mb
PKI 9.73 293 P 58 05.00 -0.4
KKN 9.91 294 P 58 08.20 0.4
0.6s 24.00nm 5.6mb
DMN 10.00 292 P 58 09.40 0.4
GKN 10.51 294 P 58 15.60 -0.4
0.6s 19.00nm 5.5mb
S.D. = 0.6 on 8 of 8 obs.

OCT 31, 1991 10h 59m 59.38±0.32s
44.991 N ± 3.2km 9.931 E ± 3.1km
DEPTH = 16.0 ± 3.4 km
NORTHERN ITALY (545)
ML 3.1 (LDG).

BOB 0.41 237 P 00 07.30 -0.6
eSg 00 13.10
SAL 0.75 34 P 00 14.50 1.0
eSg 00 25.20
MME 0.97 145 P 00 17.30 -0.2
eSg 00 32.80
BDI 1.04 153 P 00 19.10 0.4
eSg 00 34.80
PCP 1.08 246 P 00 21.33 2.0
S 00 34.16
VAI 1.20 317 P 00 21.80 0.6
eSg 00 39.10
CKI 1.31 245 P 00 24.10 1.3
eSg 00 41.20
TMA 1.34 327 ePc 00 23.80 0.3
FIN 1.46 238 P 00 25.25 0.3
S 00 40.84
ORO 1.52 295 P 00 25.90 0.0
eSg 00 46.70
ORX 1.52 296 P 00 25.61 -0.3
S 00 41.79
VDL 1.53 348 ePc 00 26.90 0.7
CTI 1.61 48 P 00 26.10 -1.1
eSg 00 48.10
ROB 1.63 245 P 00 28.04 0.6
PGD 1.70 130 P 00 29.20 0.6
OSS 1.70 5 ePd 00 29.70 1.0
MMK 1.74 308 ePd 00 29.60 0.3
SFI 1.74 127 P 00 29.50 0.5
IMI 1.82 234 P 00 30.17 -0.1
BHB 1.90 266 P 00 32.89 1.5
RSP 1.90 276 P 00 29.89 -1.6
ENR 1.95 248 P 00 31.62 -0.6
S 00 51.85
LLS 1.99 341 ePc 00 34.40 1.6
CRE 1.99 132 P 00 32.30 -0.5
eSn 00 57.40
STV 2.01 249 P 00 33.68 0.7
LSD 2.02 284 P 00 33.15 -0.1
PZZ 2.07 257 P 00 33.53 -0.5

SBF 2.11 239 Pn 00 35.40 0.9
Sn 01 02.70
RRL 2.24 269 P 00 38.31 1.9
LPG 2.30 284 Pn 00 37.20 -0.3
EMS 2.37 298 ePc 00 41.80 3.5X
PGF 2.53 196 Pn 00 39.00 -1.5
Sn 01 09.20
FVI 2.56 50 P 00 40.40 -0.4
WTTA 2.56 27 iPd 00 42.50 1.4
i 01 10.20
FRF 2.76 240 Pn 00 44.20 0.5
KBA 3.16 47 eP 00 54.00 4.4X
e 01 28.00
BHG 3.41 36 iPd 01 39.70 46.8X
0.7s 18.00nm
BSF 3.58 324 Pn 00 54.60 -0.8
Sn 01 35.00
CDF 3.88 333 Pn 00 58.10 -1.5
Sn 01 42.00
HAU 3.90 322 Pn 00 58.60 -1.2
Sn 01 43.00
SMF 4.57 293 Pn 01 09.20 -0.2
LOR 4.80 301 Pn 01 11.60 -1.0
BGF 5.20 290 Pn 01 17.40 -0.8
S.D. = 1.0 on 40 of 43 obs.

% OCT 31, 1991 11h 16m 17.34±0.70s
44.340 N ± 5.9km 8.219 E ± 5.5km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.0 (GEN).

FIN 0.13 183 P 16 20.54 0.0
S 16 23.00
ROB 0.25 260 P 16 22.38 -0.4
S 16 26.48
PCP 0.31 49 P 16 23.72 -0.1
S 16 29.05
IMI 0.49 209 P 16 27.41 0.1
S 16 34.48
ENR 0.58 259 P 16 28.84 -0.4
S 16 36.74
STV 0.65 262 P 16 31.10 0.7
S 16 40.22
PZZ 0.82 282 P 16 33.15 -0.1
S 16 44.12
BHB 0.85 307 P 16 33.87 0.2
S 16 45.35
S.D. = 0.4 on 8 of 8 obs.

* OCT 31, 1991 11h 23m 30.48±0.84s
31.513 S ± 10.8km 69.452 W ± 9.4km
DEPTH = 33.0km (normal)
SAN JUAN PROVINCE, ARGENTINA (137)

ZON 0.66 93 iPd 23 45.00 1.6
RTLL 0.86 78 iPc 23 45.60 -0.6
CFA 1.04 95 iP 23 47.90 -0.9
S 24 02.70
RTRS 1.34 360 iPd 23 53.00 0.0
JACH 1.52 219 iP 23 58.00 2.3
iS 24 22.50
PEL 1.93 212 iPd 24 02.40 0.7
iS 24 29.50
ROCH 1.97 222 iP 24 02.60 0.3
iS 24 30.20
PCH 2.29 203 iPd 24 07.00 0.3
iS 24 38.00
CHCH 2.62 202 iPd 24 11.00 -0.4
iS 24 46.00
LCCH 2.65 222 iPd 24 10.50 -1.3
LNV 2.94 214 iP 24 14.00 -1.9
iS 24 51.00
S.D. = 1.4 on 11 of 11 obs.

& OCT 31, 1991 12h 20m 21.30s
36.632 N 121.300 W
DEPTH = 7.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.7 (BRK).

SAO 0.18 319 iPc 20 24.82 -0.2
PRS 0.30 191 iPd 20 27.70 0.2
iS 20 31.87
GCC 0.69 306 iPc 20 33.67 -1.4
iS 20 46.32
PRI 0.71 133 iPc 20 35.84 0.3

ARN 0.74 345 iS 20 49.33
ePc 20 35.60 -0.5
MHC 0.76 339 ePd 20 36.10 -0.4
ed 20 38.05
iS 20 47.90
PHAM 1.08 137 ePn 20 41.15 -0.7
ePg 20 45.09
PKEM 1.12 120 ePn 20 43.03 0.5
ePg 20 46.10
PCC 1.22 315 ePd 20 42.88 -1.5
FRI 1.33 74 iPc 20 44.79 -1.3
eS 21 01.96
CMB 1.58 27 iPc 20 48.99 -0.8
eS 21 08.63
BCH 1.75 145 ePn 20 50.99 -1.3
eS 21 20.00
ORV 2.92 357 eP 21 07.60 -1.5
TNP 3.56 65 e(P) 21 25.72 7.4
14 obs. associated

* OCT 31, 1991 12h 20m 36.35±0.77s
57.869 S ± 12.8km 25.677 W ± 18.0km
DEPTH = 10.0km (geophysicist)
4.8mb (3 obs.)
SOUTH SANDWICH ISLANDS REGION (153)

SNA 15.96 151 iPc 24 22.90 0.8
0.9s 52.10nm 4.7mb
FRS 44.78 74 iPc 28 50.80 -0.8
0.8s 14.93nm 4.9mb
PDCR 46.39 342 eP 29 05.10 0.6
SOB1 49.95 340 eP 29 31.90 -0.3
BUL 54.38 70 iPc 30 04.80 -0.8
0.5s 4.58nm 4.8mb
LIC 66.04 23 P 31 25.80 0.7
KIC 66.23 23 P 31 27.00 0.6
TIC 66.45 22 P 31 28.40 0.6
BGMT 125.04 301 ePKP 39 36.20 -1.5
YKA 138.07 316 ePKP 39 58.80 -2.8X
0.5s 4.10nm
INK 147.73 318 ePKP 40 18.00 -0.1
S.D. = 0.9 on 10 of 11 obs.

OCT 31, 1991 12h 38m 43.33±0.85s
13.792 N ± 11.1km 114.361 W ± 14.0km
DEPTH = 10.0km (geophysicist)
4.8mb (12 obs.)
EAST CENTRAL PACIFIC OCEAN (693)

PLM 19.61 354 eP 43 12.00 -3.1X
RVR 20.30 353 eP 43 22.00 -0.1
PAS 20.56 351 eP 43 28.00 3.1X
SBB 21.04 352 eP 43 30.00 0.1
SYP 21.26 347 eP 43 32.00 -0.2
ABL 21.42 349 P 43 34.00 0.1
GSC 21.53 355 eP 43 35.00 0.1
BCH 21.92 347 P 43 38.00 0.0
CLC 22.12 353 eP 43 42.00 1.2
ALO 22.24 17 ePc 43 42.00 -0.1
1.0s 20.50nm 4.5mb
ANMO 22.24 17 P 43 42.00 -0.1
1.0s 22.50nm 4.6mb
PHAM 22.61 347 P 43 46.50 0.9
CWC 22.80 352 eP 43 48.00 0.4
ARN 24.32 346 P 44 03.10 0.9
BONR 24.32 352 P 44 03.30 0.8
TNP 24.32 355 P 44 03.60 1.1
CMB 24.73 349 P 44 07.10 0.9
1.3s 61.48nm 5.1mb
MEO 25.30 32 iPd 44 13.00 1.4
DUG 26.34 3 P 44 21.90 0.5
ORV 26.42 348 P 44 22.90 0.9
GLD 27.08 16 P 44 29.20 0.9
1.0s 46.00nm 5.1mb
TUL 27.63 34 eP 44 31.80 -1.3
1.2s 21.00nm 4.8mb
HVU 27.92 3 P 44 35.80 0.0
LBFM 28.23 348 P 44 36.90 -1.8
BW06 29.18 7 P 44 46.80 -0.5
1.0s 17.50nm 4.8mb
HPI 29.84 2 P 44 53.50 0.3
RSSD 31.49 14 P 45 07.70 0.0
LRM 31.97 3 eP 45 11.70 -0.2
VGB 32.08 351 P 45 12.20 -0.5
FVM 32.13 37 P 45 12.00 -1.1
1.0s 22.00nm 5.0mb
LON 33.45 351 P 45 24.20 -0.4

DPW	34.13	355 P	45	29.90	-0.6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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			sP	43	35.00				eS	48	10.20				RSSD	79.25	337 P	43	47.20	0.
			PP	45	05.00			ANCC	1.29	208 eP	47	52.33	-0.5			1.0s	18.98nm			5.0mb
			eS	49	55.00			DIAC	1.36	177 eP	47	53.56	-0.2				pP	44	06.50	71k
			sS	50	12.00					eS	48	12.10			DUG	79.44	329 iPc	43	48.80	0.
			eSS	53	07.00			SALC	1.74	195 ePc	47	58.05	-0.1		TNP	79.87	325 iP	43	51.30	1.
CHTO	45.53	93	iP	43	27.20	-0.3				eS	48	19.90			BW06	80.17	332 P	43	51.70	-0.
	1.5s							PURC	2.33	183 eP	48	06.04	0.0			1.0s	9.17nm			4.7mb
BDT	46.24	95	eP	43	32.20	-0.9				eS	48	33.60			BONR	80.32	324 iPd	43	54.10	1.
KMI	46.47	83	Pc	43	35.00	-0.1			S.D. = 0.4	on	8 of	8 obs.		HVU	80.70	330 ePd	43	54.70	0.	
	1.5s													CMB	81.46	323 P	43	59.20	0.	
LOE	48.52	93	eP	43	50.00	-1.0									1.5s	26.94nm			5.0mb	
BTO	48.88	61	eP	43	54.00	0.3			OCT	31, 1991	15h	31m	47.72± 0.26s		ORV	83.17	323 ePd	44	08.40	1.
		N	17s		1.03um											iPp	44	28.10	72k	
		E	17s		1.50um											eSP	44	37.00		
NNT	49.02	100	eP	43	54.70	-0.2									SEK	83.49	119 iPd	44	06.80	-2.
XAN	49.21	70	P	43	55.40	-0.8										0.8s	18.66nm			5.1mb
		E	12s		0.51um										LRM	83.86	332 eP	44	10.50	-0.
GVA	49.39	80	P	43	57.00	-0.8									LBFM	84.69	324 iPd	44	15.70	0.
	1.0s															ePp	44	33.90	65k	
Z	20s															eSP	44	46.40		
N	18s														TIO	85.60	51 iP	44	20.90	1.
E	18s														SES	87.09	336 eP	44	26.00	-0.
			pP	44	06.60	32km											pP	44	46.00	73kr
			PP	45	52.00										DPW	87.88	331 iPd	44	30.70	0.
			S	51	06.00										LON	88.64	328 iPd	44	34.20	0.
HHC	50.00	60	P	44	00.00	-2.3									BMW	89.10	327 P	44	36.80	0.
	1.3s																pP	44	56.30	70kr
Z	27s																e(P)d	44	36.30	-0.
N	11s																eP	44	39.00	0.
E	11s																0.6s	7.00nm	5.1mb	
LSZ	50.22	208	iP	44	08.00	3.8X									LSZ	90.54	108 iP	44	44.00	0.
TIY	51.22	64	Pc	44	11.50	0.0									YKA	98.12	341 eP	45	16.70	-0.
		Z	21s		1.02um	4.8MsZ										0.9s	2.40nm			4.7mb
		N	15s		1.01um										GEC2	108.57	44 ePKPd	50	08.50	-1.
			S	51	32.50											0.7s	0.53nm			
BJI	53.61	61	eP	44	29.00	-0.2											ePpd	50	09.80	
	1.2s																e	50	14.70	
Z	22s																e	50	21.60	
E	11s																e	48	10.00	
			eS	52	00.00															
IPM	54.34	108	ePd	44	33.90	-1.1														
WHN	54.57	72	eP	44	36.50	0.1														
		Z	24s		0.68um	4.6MsZx														
QIZ	54.84	87	P	44	42.20	3.6X														
TIA	55.22	65	Pc	44	41.00	-0.1														
	1.4s																			
DAG	55.71	345	eP	44	44.00	-0.1														
KIC	56.72	257	P	44	53.02	0.8														
	1.0s																			
TIC	56.81	257	P	44	53.54	0.7														
	0.8s																			
LIC	57.04	257	P	44	55.16	0.7														
	0.8s																			
NJ2	57.77	69	Pc	45	03.00	3.7X														
	1.1s																			
Z	18s																			
DL2	57.98	61	eP	45	03.00	2.4														
			eS	53	00.00															
CN2	59.51	54	eP	45	11.40	0.2														
	1.0s																			
N	11s																			
E	11s																			
			epP	45	21.50	33km														
			PP	47	26.00															
			S	53	24.00															
INK	81.42	1	eP	47	23.00	-0.5														
FBA	83.84	8	eP	47	36.20	0.0														
	1.1s																			
YKA	86.49	353	eP	47	49.80	0.4														
	0.9s																			
PMR	86.87	9	eP	47	56.20	4.9X														
BALM	88.18	6	eP	48	00.00	2.1														
WRA	95.11	110	P	48	23.00	-7.4X														
	0.5s																			
					</															

31d 20h

RRL 0.17 38 P 47 35.37 0.2
 S 47 37.83
 PZZ 0.44 131 P 47 40.60 0.4
 S 47 46.65
 BHB 0.45 83 P 47 40.19 -0.2
 S 47 46.34
 RSP 0.57 50 P 47 42.85 0.0
 S 47 50.44
 STV 0.73 138 P 47 45.62 -0.1
 S 47 55.57
 LSD 0.76 29 P 47 46.24 -0.1
 S 47 56.80
 ENR 0.79 135 P 47 46.44 -0.3
 S 47 57.00

S.D. = 0.3 on 7 of 7 obs.

? OCT 31, 1991 21h 42m 28.01 ± 4.60s
 28.269 N ± 35.3km 128.528 E ± 22.6km
 DEPTH = 107.5 ± 29.5 km
 4.6mb (10 obs.)

RYUKYU ISLANDS (238)

SSE 6.98 296 Pg 44 09.50 0.3
 Sn 45 04.50
 BJI 15.55 322 eP 46 07.50 5.1X
 1.0s 22.00nm 4.4mb
 LZH 22.26 297 eP 47 16.80 -0.3
 1.5s 28.00nm 4.4mb
 sP 47 47.50
 CHG 28.64 257 eP 48 16.00 -0.6
 INK 66.92 24 ePd 53 10.30 -0.1
 MBC 67.79 14 eP 53 15.50 -0.3
 KAF 70.85 331 eP 53 33.90 -0.7
 NUR 72.26 330 iP 53 42.60 -0.4
 YKA 76.57 25 eP 54 07.80 0.0
 0.8s 6.20nm 4.5mb
 HFS 77.15 332 eP 54 10.20 -0.7
 0.4s 1.70nm 4.2mb
 NB2 77.61 334 P 54 11.60 -2.0
 0.6s 3.00nm 4.3mb
 KRA 79.69 322 eP 54 25.60 0.6
 KSP 81.21 324 iP 54 34.20 1.2
 ZST 82.27 321 eP 54 37.00 -1.6
 KHC 83.64 323 eP 54 46.50 0.9
 GEC2 83.74 323 ePKPd 54 45.60 -0.6
 0.6s 2.81nm 4.3mb
 HOF 83.81 325 iPc 54 47.50 1.1
 0.7s 14.00nm 5.0mb
 GRF 84.52 325 iPc 54 51.70 1.7
 0.9s 17.00nm 5.0mb
 BHG 84.85 322 iPc 54 53.20 1.5
 0.9s 16.00nm 4.9mb
 FFC 86.66 27 ePd 55 00.60 0.1
 0.6s 9.00nm 5.0mb

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

* OCT 31, 1991 23h 00m 06.56 ± 1.34s
 39.723 N ± 9.7km 143.524 E ± 12.8km
 DEPTH = 34.6 ± 7.7 km
 4.6mb (6 obs.)

OFF EAST COAST OF HONSHU, JAPAN (229)

OFUJ 1.57 247 eP 00 32.10 -0.5
 AOMJ 2.56 290 eP 00 47.20 0.7
 HOOJ 2.66 356 eP 00 48.10 0.1
 eS 01 16.90
 YAMJ 3.13 241 eP 00 55.30 0.6
 MRRJ 3.27 326 eP 00 57.60 0.9
 eS 01 31.90
 KUSJ 3.49 14 P 00 58.50 -1.2
 S 01 37.10
 ASAJ 4.44 352 eP 01 12.70 -0.6
 MAT 5.26 235 eP 01 25.00 0.1
 BJI 20.96 280 eP 04 46.00 -2.9X
 Z 16s 0.29um 3.8MsZX
 WHN 25.47 258 Pd 05 33.20 0.2
 sP 05 42.20
 XAN 28.14 269 P 05 56.50 -1.0
 LZH 31.34 276 eP 06 25.00 -1.2
 1.5s 23.00nm 4.8mb
 Z 15s 0.39um 4.2MsZX
 pP 06 30.00 17kmX
 sP 06 35.00
 GYA 33.36 258 P 06 43.20 -0.6
 GTA 33.45 284 Pd 06 44.40 0.0
 1.0s 11.00nm 4.7mb
 pP 06 54.00 33kmX

WMO 41.17 295 sP 07 01.00
 1.0s 13.00nm 4.6mb
 KKN 49.09 275 P 08 52.40 -0.5
 0.7s 21.00nm 5.3mb
 INK 51.24 28 eP 09 10.00 1.6
 QUE 61.74 287 eP 10 24.60 0.4
 HFS 72.31 336 eP 11 30.20 0.0
 0.5s 1.20nm 4.1mb
 NB2 72.34 338 P 11 30.50 0.1
 0.8s 3.90nm 4.4mb
 S.D. = 0.8 on 19 of 20 obs.

& OCT 31, 1991 23h 16m 59.10s

64.034 N 147.446 W

DEPTH = 9.1km

CENTRAL ALASKA

<AEIC>. ML 3.0 (AEIC). 3.1
 (PMR).

HDA 0.43 30 iP 17 07.47 -0.4
 WRH 0.52 328 iP 17 09.26 -0.4
 CCB 0.63 346 iP 17 11.12 -0.7
 MCK 0.73 246 eP 17 12.80 -0.7
 DDM 0.74 109 eP 17 13.01 -0.8
 DJE 0.78 90 eP 17 13.45 -0.9
 eS 17 25.32
 FBA 0.88 350 iP 17 15.75 -0.4
 RND 0.89 225 eP 17 15.47 -0.8
 eS 17 29.74
 NEA 0.90 308 eP 17 15.85 -0.5
 eS 17 29.05
 BWN 0.90 280 eP 17 15.10 -1.3
 eS 17 28.63
 GLM 0.96 1 eP 17 17.13 -0.3
 eS 17 30.67
 THY 0.98 129 eP 17 17.77 0.0
 eS 17 32.40
 MDM 0.99 340 iP 17 17.86 -0.1
 eS 17 31.52
 PAX 1.39 139 eP 17 24.27 -0.4
 eS 17 43.15
 TRF 1.39 246 eP 17 25.02 0.2
 eS 17 44.36
 HUR 1.45 224 eP 17 26.00 0.6
 eS 17 44.73
 DOT 1.55 103 eP 17 25.63 -1.3
 eS 17 47.51
 SDG 1.74 150 eP 17 30.71 1.0
 eS 17 53.60
 TOA 2.02 163 eP 17 35.43 1.6
 CUT 2.08 219 eP 17 34.70 0.2
 eS 18 03.08
 TMW 2.11 108 eP 17 37.64 2.7
 eS 18 05.38
 TZL 2.20 154 eP 17 39.05 2.7
 SCM 2.21 179 eP 17 37.58 1.0
 eS 18 06.20
 GHO 2.37 197 eP 17 39.09 0.3
 PLRM 2.57 198 eP 17 43.36 1.8
 PMR 2.57 198 eP 17 43.50 2.0
 PWA 2.64 206 eP 17 43.21 0.7
 KLU 2.65 164 eP 17 44.74 2.0
 KNK 2.67 190 eP 17 44.28 1.2
 eS 18 18.34
 FYU 2.71 19 eP 17 43.70 0.2
 eS 18 18.23
 SKT 2.78 224 iP 17 44.40 -0.2
 eS 18 18.93
 VLZ 2.96 169 eP 17 48.50 1.5
 PMS 2.97 200 eP 17 48.78 1.6
 SUA 2.99 212 eP 17 49.20 1.5
 GLB 3.09 146 eP 17 51.74 2.7
 GLI 3.17 177 eP 17 52.06 2.0
 eS 18 31.37
 FID 3.33 172 eP 17 54.33 2.0
 eS 18 35.80
 IMA 3.34 310 eP 17 50.00 -2.6
 NCG 3.42 222 eP 17 53.96 0.3
 eS 18 34.73
 KNIM 3.70 182 eP 18 00.29 2.6
 INK 7.08 47 P 18 42.00 -3.2
 41 obs. associated

STATION DATA REPORT FOR OCTOBER, 1991

1425 stations reported 65250 reading arrival groups

X = data received for this 6-hour time period

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
AAI	XXXXX	XX	XXX	XXXXX	X	XXXXX				XXXX		XX	XX	X	XXXX	X	XXX	XXX	X	XX	XXXX		X	XX	XX		XXXXX	XX	XXXXXX	XX	X	
ABA				X	X	X				X					X	X			X	X				X	XX	X	X	XXX	X	XX	X	
ABL	X	X	XXX		X	XXX	X	X		X	X	XXX		XX		XX	XXX	X		X	X	X	X	X	X	X	X	X	X	X	X	
ACI	X		X		X	X				X			X		X	X	XX					XX					XX	X				
ACO		X	X	X	X	XX		X	X	XX	X		X		XXX	XXX	XXX	XX		X	X	X	X	X	X	X	X	X	X	XXX		
ACX		X	X		X	X	X		X	X		X		X		X	X					X	X		X	XX	XX			XX		
ADE		X	X	X	XX	XX	XX	X		X	XXXXX	X	XXX	XXX	XX	XXX	XXX	XXX				X	XXX			X	X	X	XX	XXX	X	
ADI	X		X		X	X				X		X		X		X	X	XX														
ADK		X	X	X	X	XXX		XX	X	X	X	XX	X	X	X	XX	X					X	XXXXXX		X	X	X	X		XX		
AFC	X	X	X				X	XX	X	X	X	X	X	X	X	X			X	X	X	X		XX	X	X	X	XX		X	X	
AFI		XX	XXXXX		XXXXX	X	X	XXXX	XXX	XX	XX	X	XX	X	XX	X																
AFIF		X			X		X	X		X		X	XXX	X	X	X	X			X	XX	X		X				X	X	XX	XX	X
AFR			X		X		X	X	X					X	X	XXX	X	X					X		X	XX	X	X				
AGG	X	XX	XXXX	XX	X	XX	X	XXX	XXXXXXXXXX	X	XXXXXXXXXX	XX	XXX	XXXX	X	XXXXXX	X	XXXXXX	X	XXXXXX	X	XXXXXX	X	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XX
AGO		X						X	X	X		X	X	X	XX		X	X				X	X		X	XX	X		X	X	XX	XX
AGU		XX	X	XX	X	X		XXX	X		X	X	X		X		X			XX	X	X	X	X	X	X				X		
AIA	XX	X		X	XXXXX	X	XXX	X	XXXX	X	XX	X	XXXXXX	X			XX	X	XX	XXX	XXXXX	X	XXXX	X	XXXX	XXX	XX	XXXXX	XXX	XX	XXXX	XX
AKSR				X													X	X	X													
AKUR																X	X	X	X													
ALJ		X		X	X	XX								X	XX	X	X	X	X	X	X	XX					X	X	X	X		X
ALN	X	XX			X	X	XX	XX	XXX	XX		XX	XXXXXX	XX	XX	X	XXXXXX	X	X	X	X	X	X	XX	X	XX	X	XXXX	XXX	XXX	XXX	X
ALO	X	XX	XXXXXX	XXX	XXXX	X	XXX	X	XX	XXXXXXXXXX	X	XX	XXXXXX	XXX	XXXX	XXXXXX	XXXX	XXXXXX	X	XXXXXX	XXXX	XXXXXX	XXXX	XXXXXX	XXXX	XXXXXX	XXXX	XXXXXX	XXXX	XXXXXX	XXXX	XXXX
ALT	X			X	X	X		XX		X				X																		
ANCC		XXXXXXXXXXXX	XXXXXXXXXX	XXXX	XXXXXXXXXX	XX	XXXXXX	XXXXXXXXXX	XX	XXXXXX	XXXXXXXXXX	XXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
ANM		X																														
ANMO	X	X	X	XX	XX	XXXX	X	X	X	XXXX	XXXX	XX	XXXXXXXXXX	XXXX	XXXXXX	XXXX	XXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
ANT		X	X	XXX	X	XX		XXX	X		XXX	XXXX	XX	XXXX	XXXXXX	XXXX	XXXXXX	XXXX	XXXXXX	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
AOMJ		X		XX		X	XX	X			X	XX		X	XX		X	XXXX									X	X	XXXX	X	X	XX
APM	X				X			X	X	X		X		X					X	XX												
APO		XX	X	XX	X				X	X	X	X	X	X	X								X	X								
APR				X		X		XX						X	X	X	X					X	X			X	X	XX	XX			
AQU				X	X	X	X	X		X				X	X	X	X							X	X	XX	XX	XXXX	XX			
ARE		XX	XX	X	X	X	X	X	XXXX	XXXX	XX	XX	X	XX	X	XXXX	XX	XXXXXXXXXXXX	X	XX		X						X	X	XX	X	
ARMA																																
ARN	X	X	XXX	X	X	XX	XXX	X	X		X			X	XXX	X	XX	X	X	XX	XX	XXX	X	X	XX	X	X	XX	X	XX	XX	X
ARV	XXXXXX	X	XX	X	XXXXXX	X	XXX	XXXX	X	X	XX	X	XXX	XXX	X	XX	XXXXXX	XX		X	X	XX	XXXXXXXXXXXX	XXXXXX	X	XXX	XX	XX	XX	XX	XX	XX
ASAJ	X	X	X	X	X	XXXX	X	XXX	X	XX	X	XXX		XXX	X	XX		XX	X	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
ASK	XX	X	XXX	X	X	XX	X	X	X	X	X	XX		XX	X	XX		X	XXX	X		XXXXXX	X	X	X		XXX	X	XX	X		
ASPA	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXX
ASR	X			X	X		X	X	X									X	X		X	X		X	X	X						
ASS	X	XX	XX	XX	X	XXXXX	XX	XX	XXX		XX	XX	XXXXX	XXXXX	XXXXXX	XX	XXX	XX	XX	X	X	X	XXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX
ASW		X			X		X	X	X		X		X		X		X	X					X									
ATE		X					XX		X		X																					
ATH		X	X	X	X	XXX	XX		X	XX		XX	XXX	XXX	XX		X	X	XXX		X	X	X	X	X	X	X	X	X	XX	X	
ATN	XX		X	XX	X	X	X	X	X	XXX	X	XX	X	XX	XXXX	X	X	X	XX	X		X	XXXXXXXXXX	X	X	X	X	X	X	XX		
ATZ		X			X	XX		X		X																						
AUE		XX	X	XX	X	X		X	XXX	X	X	X	X		X						XX	X	XX	XX	X	X	X	X	X	X	X	
AUH		XX	X	XX	X	X		XXX	X	X	X	X	X		X						XX	X	X	X	X	X	X	X	X	X	X	
AUI		XX	X	XX	X	X		X	XXXX	X	X	X	X		X						XX	X	XX	X	X	X	X	X	X	XX	X	
AUL		XX	X	XX	X	X		X	XXXXX	X	X	X	X		X						XX	X	XX	X	X	X	X	X	X	XX	X	
AUP		X	XX	X	XX	X	X	X	XXXX	X	X	X	X		XX	X					XX	X	XX	XX	X	X	X	X	X	X	X	
AUW		X	XX	X	XX	X	X	X	XXXX	X	X	X	X		XX	X					XX	X	XX	XX	X	X	X	X	X	XX	XX	
AVE	X	X	XX	X	X	X	X	XX	X	XX	XX		X	XX	X	X	XX	XX	X	X	X	XX	X		X	X	XX	X	X	XX	XX	XX
AVF	X	XX	X	X	XXXXXXXXXX	XXXX									XXXX	XXXXXXXXXXXXXX	X	XX	X	XX				XXXX	XXXXXX	X	XX	XXXXXX	X	XX	XXXXXX	X
AZI		X			X		X																									
BAG		XX	XX		XX	X	XX	X	X	XX	XX	X	X	XXXX	XX	XX	XX															
BAI		X						X	X																							
BAL	X	XX	X	XX	XX	X	XX	X	X	XXXX	XXX		XX	XX	XX	X	XX	XXXX	X	XX	XXXX	X	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
BALM	X	X	XXX	XXX	XX	XXXX	X	XX	XXXX	X	XXXX	X	XXX		X	X	XXXX	X	X	XXXX	X	XX	XXXXXXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
BAO		XXX	X	X	X	X	XX	X		XX	X	X	X	XXXXXX	X	X		X	XXXXXX	X	XX					X	XX	XXX	XXX	XXXX	XXXX	
BAR		XX	XX	X	X	XXX	X	X		X	X	XX	X	XXX	X	XXX	XX	XX				X		X		X	X	X	X	X	X	
BBJ		X	X							X	X																					
BBL				X	X	X	X							XX	X	X	X	XX	XX		XX	X	XX	X	XXXX	X	XX	X	XX			
BBS			X	XX	X	X	X	X		X																						
BBTK	XXXX	XXXXXX	XXX	XXXXX	X	XXX	XXXXXX	X	XXXXXXXXXX	X	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
BCH	XX	X	XXX	X	XX	XXX		X	X	X	XXX		X		XX	XXXX	X		XX	XXXX	X	XX	X	X		X	XX	XX	XX	XX	XX	X
BCK		X	X	XX			X	XXX	X	X	X	X	XX	X	X	XX	XXX	X	X	XX	XXX	X	XX	XXX	X	XX	XXX	X	XX	XX	XX	X
BCPM	X																															
BDI		XXX	X	XXX	X	XX	XX	X	X	X	X	X		X		X		X	XXX	XX				X	X	XXXX	XX	XX	X	XXX	XXXX	
BDT	X	X	XXX	X			X	XXX	X	XX	X	XX	X	X	X		X	XXX	XX	XXXXXXXXXX		X	XXXXXX	X		X	X	X				

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
BGF	X	X	XX	X	XXXXXXXXXX		X	X										XXXX	XXX	XXXX	XX	X	XX	XXX	XX	XXXX	XXXXXX	XX	XX	XXXXXXXXXX			
BGL	X	X	XXX	X	XX	X	X	X	XXXXXX	XX	X	X	X	XX				XX	XXX	X	X	XX	XX	XX	XXX	X	XXX	X	X	XX	XX		
BGMT			X					XX	XX									X			X		X			XXXXXX	X	XXX	X				
BHB		XX	X	X	XX	XX	X	X	X	XXX				XX	XX	X	X	X	X	X	XX	XXXXX	X		XX	X	XXXX	XX	X	XXXX	X		
BHD	X	X	X		XX			XXX	X	X	XX	X	X	XXXX	X	X	X	X	XX	X			X	XXX	X	XXXX	X	X	XXX	XXX	X	X	
BHG			X	X	XXX	X		X	X	X	X	X	X		X	XX	X	XX	X	XX	X			XX	XXX	XX	X	X	XXXX	XXXXXX			
BHL	X	X	XX		XX		X	X	X	X	X	X	XX		X	X	X	XXX	X	XXXXXX	X	X		XX	X	X	X	X	X	X	X	X	
BIM				X		X									X	X	X							XX	X	X	XX		XX	X	X	X	
BJI	XXXXXXX	XX		X	XX	XXXXXX	XXXXXX	XX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXX	XXXXXXXXXX	XX	XXX	XXXXXX	XX	XXX	XXXXXX	X	XXXX	XXXX	XXXX	XXXX	XXXX		
BKM	XX	XX		XXXXXX	X	XXX	X	X	XX	XX	XX	XX	XXX	XXX	XX	X	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	
BKS	X	X	X			X	X	XX															X	XX									
BLA					X	XX			X						X				XXX	X		XX		X	X	X		X					
BLF	XX	X	X		X	XXX	X	X	X					XX	X				X	XX	X			X	X		XXX			XXXX			
BLW					X						X	X			X				X						X	XX			XX		XX	X	
BMA				X	X			X	X					XX	XXX	X	X							X		X	XXX			X			
BMG	X	X	X		X	XX	X		X	X	X	X		X	X	XX	X	X	X	X	X			X		X		X	XX	X	XX	X	
BMR		XX	X		X		XX	X		X				X	XXX	XX	XX	X	X	XX		X	XX	X	X		X	X	X	XX	X	X	
BMW				X	XX			X	X	X	X	X						XX	X	XXX	X	X		X	X	XX	X	X	X	X	X	X	
BNH								X	X						XX	X									XX	X		XX					
BNI	XX	X	X	XXXX	XX	X	X	X	X	XXXXXX	X	X		X	X	XX	X	X	X	X	X				X	XX	XXXX	X	XX	X	XX	XXXX	
BNS		X						X	X	X									X	X	X			X	X	X		X					
BNT																							X	XX	X	XXXXXX	XXXXXX	XX					
BOB										X	X				X	XX	X	X	X	XX	XX			XX		XXXX	X	X	XX	XXXX	XXXX		
BOG		X	X		X	XX	X		X	X	X	X		XX	X	XXX	X	X	X	XX						X	XX	XX	X	XX			
BOM																										XX	X						
BONR	XX	X	XXX	X		X	XXXX	XXXXXX	X	X	X	X	XXX		XX	X		XXX	XXXX	X	X		XX	XX	XX	X	X	XX	X	XX	X	XX	
BPA					X	X	X	X							XX	X	X	X	X	XX	X	X		X	X	X		X	X	X	X	X	
BRD	X																		X	X													
BRG	XXXX	XX	X	XXXXXXXXXX	X	XX	XX	XXXXXXXXXXXXXX	X	XX	XXX	XXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXX	XX	XXXX	X	XXXX	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
BRLK				XX	X	X	X	XX	X	X	X			X					X	X	X	X	XX	XXX	X								
BRS	XX	XX	XX	X	XXXX	X	XX	X	XX	XX	XX	X	XX	XX	XX	XXXX	XXXX	XX	XXXX	X	X	X	X	X	X	X	X	X	X	XX	XX	X	
BRT		XX	X		X				XX	X	X	X			X	XX	X		XXX	XXX	X	XX	X	X	XX	XXXX	X	XXX	X	XXX			
BRW																																	
BRY					XX	X	XXX	X	X	XX	X	X	XXXX	XXXX	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX		XX	XX	XX	XX	X	XX	X	XXXX	X		
BSD																			X	X	XX												
BSF	XXXXXXXX	X	XXXXXXXXXX					X	X										X	XXXX	XXXXXXXX	X	X		XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
BSI		X	X	X	XXX	XXX																											
BTH																																	
BTO	XX	X	XXX	X	X	XXXX	X	XXXX	X	XX	XX	XX	X	X	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	
BUC																																	
BUC1	X																																
BUD					X	XXX	X	X	XX	X	XX	X	X	X	X	XX	XX	XX	XX	XX	XX			XX	X	X	X	X	X	X	X	XX	
BUGC		XX	X	X	XX	X	XXXX	XX	X	X	XXX	X		XX	X	XXXX	XX	X	XXXXXXXXXX	X	X	X	XX	XXX	X	XXXX	XX	XX	X	X	X	X	
BUL	XXXXXXXX	XX		X	XXXXXXXXXX	XX	X	X	XXX	X	XXX	X	XXX	X	XXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX					XXX	XXXX	X	XXXX	X	XXXX	X	
BW06		X	X		XX	XXXX	X	X	X	XXXX									XXXX	X	XX	XX	XX	XX	XXXX	XXX	X	X	X	XXXX	X		
BWA	X	X	X	XX	XX	XX	XXXX	X	X	XXXXXX	XXX	XX	XXXXXX	XXXX	XXXXXX	XXXX	XXXXXX	XXXX	XXXXXX	XXXX	XXXX												
BWN	X	XX	X		X	X	X	X	X	XX	X	X							X	X													
BWZ																																	
BZS	X	XXXX	X	X	XXX	XX	XX	XXX	X	X	X	X	XX	XX	XXXX	X	XXX	XXXX	XXXX	XXXX	XXXX					X	XXXXXXXX	X	XX	X	XX	XXX	XXXX
CACH		X	XX	X	X	X	XXXX	X	XXXXXXXX	XXXXXXXX	X	XX	XX	XXXX	X	XX	X	XX								XXXXXXXX	X	XXXX	XX	XXXX	XXXX	XXXX	
CAF																																	
CAN	X	X	X	XX	XX	XX	XXXX	X	X	XXXXXX	XXX	XX	XXXXXX	XXXX	XXXXXX	XXXX	XXXXXX	XXXX	XXXXXX	XXXX	X	X	XXX	XXXX	XXXX	XXXX	X	XX	X	XXXX	X	XXXX	
CAR																																	
CAW	X																																
CBN																																	
CCB	XX	X	XXX	X		X	X		XX	X	XX	X	X	X	X																		
CCH	X	X	XXXXXX	X		X	X	X	XX	X	XX	X	XX	XX	XX	XX	XX	XX	XX	XX	XX												
CD2	XX	XX	XX	XXXX	XX	X	XXXX	XX	XX	XX	XX	XX	XXXX	X	XXXXXXXXXXXX	XXXX	XXXXXXXXXXXX	XXXX	XXXXXXXXXXXX	XXXX	XXXX					XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
CDD	X	XXX	X	XX	X	X		X	XXXX	X	X	X	X																				
CDF	XXX	XXX	X	XXXXXXXXXX																													
CDFW	X																																
CDR	XXXX	XXXXXXXXXXXXXX																															
CE1																																	
CEOS																																	
CER																																	
CEY	X	X	X	X	X	XXX	X	X	X	X	X	X	X	X	XX	XX	XXXX	XX	X	X	X	X	X	X	XXXX	X	X	XX	X	XXXX	X		
CFA	X	XX	XXXXXX	X	XX	XXXX	XXX	XXXXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX					X	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
CFR	X	X	XX					X	XX	X	XXXX	XX	X																				
CGLM		XXX	X	XX	X	X	X	X	XXXX	XX	X	X	X	XX																			
CGX																																	
CHCH																																	
CHG	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	
CHJJ	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CHTO	XXX	XXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX																													

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EGUA	X	X	X				XX	X	X		X	XX	X	X	X		X	X	X	X		X	X	X			XX	X	X		X		
EHOR	X		X		X		X	XXX	X	X		XX		XX	X		X	X	X		XX	X	X				X	X	X	XX	X		
EHUE	X	X	XX				X	XX	X		X	X	X		X		X	X	X		X		X			XXX	X		X		X		
EJIF	X		X				X	XX	X			XX		XX	X		X	X	X		X		X			XX	X	X	X	X	X		
EKA		X	X			XXX	XX	XX	X	X	X	XX	X	XX	X	XXXXXXX	XX	X	X	XXX		XXX	XX	XX		XXXX	XX	X		X	X	X	
ELC				X		X		X		X		X					X	X	X		X	X	XX	X	XX	X		X		X	X	X	
EMS		X	X	X		X	X	X	X	X		X				XX		X	X	X					X	XX	X	XX	X	XX	X	X	
ENIJ	X					X	X	X				X	X	X	X	X		X	X	X		X				X	X		XX		X		
ENN		X	X	X	XXXX	X	X	X	X	X	X	XX	XX	X	X	X	XX	XXX	XX	X	XXXXX		XX		XXXX	XXXX	XX	XX		XXX	XXX		
ENR			XX	X	XX	XX	XX	X	X	XXX	X	XX	XX	XX		XXX	X	X	XXXX	X	X	X	X		XXX	X	X	XXX	X	XX	X	XXXXX	X
ENSF		X	X	X		X		X		X		X			X		X		X		X		X			X	X	X		X	X	X	
ENT	X	X		X			X		X	XXXX	X	XX		X		X		X		X		X		X	XXXXX	X	X	X	X	X	X	X	X
EPF		X	X	X	X	XX	X	X	X					XX	XXX	XXXX	X		X		X		XX		X	XX	X	XX	X	XX	X	XX	X
EPLA	X		X			X	X	X	X			X		XX	X		X	X	X		X		X				X		XX	X	XX	X	X
EPRU			XX		X		X	XXX	X	X		XX		XX	X		X	X	X		X		X		X			XXX	X	XX	X	X	X
ERK							X		X	X								X	X		X				X	X		X					
EROO	X		XX				X		X		X	X			X		X	X	X								X		XX		X	X	X
ERUA			X				X	X	X		X	X		X	X		X	X				X		X			X				X		X
ESD	X				X			XX	X	X								X	X		X				X	X		X					
ESEL	X						X				X	X			X		X	X	X				X									X	X
ETOR	X		XX				X	X	X		X			XX	X		X	X	X				X		X		XX		XX		X		X
EVAL	X		XX		X		X	XXX	X		X	XX		XX	X		X	X	X				X				XX		XX		X	X	X
EVIA	X	X	X			X	X	XX	X	X		X	X	X	X	X	X	X	X				X	X			XX		X	X	X	X	X
EWZ			X		XX		XX			X	XXXX			X	X		XXXX		XXX														

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GTA	XX	XX	XX	XXXXXX	X	XXXX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX		
GUA	X	X	XX	XX	X	X	XX	XX		XX	XX	XX	X	X	XX	X	XXXXXX	XXXXXX	XXXXXX	XXXXXX	X	XX	X	XX	XX	X	X	XX	X	X	XX		
GUAN		X	X		X	X			X	X				X	X		X	X			X	X											
GUD	X	X	XX		X	X	X	X	X		X			XX	X		X	X	X		X	X				X	XX	X	X	XX	X		
GULW	X			X	X			X	X												X				X	X							
GUMD	X	XXXX	XX	XX	XXXX	X	XX	XX	XXXXXX	XX	XXXX	XXXXXX	XX	XXXXXX	XXXXXX	XX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	X	X	XXXXXX	X	XX	X	XXXX	X	XXXX	X	XXXX		
GUN	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX		
GW		X	X	XX	X		X		X	X				X			XX	X	X	X					X	X							
GWJ		X			X		X			X	X			X							X									X	X		
GVA	XX	X	XX	XX	XX	X	XX	XX	X	XX	XXXX	X	XX	X	XX	XXXX	XX	XXXXXX	XXXX	XXXXXX	XX		XXXX	XXXX	XXXX	XXXX	X	XXXX	XXXX	XXXX	XXXX		
GZH	X	X		X	X	XX	X	X	XX	XX	X	XX	X	X		XX	XXXXXX	X					XX	XX	X	X					XX	X	
HAU	XXXXXX	X	XXXXXX	XXXX	X	X										X	XXXX	XXXXXX	X	X		X	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
HAY			X	X						XX																X	X						
HBO			X	X			X		X								X	X			X	X				X							
HBZ	X		XX			X	X	XX	X	X	XX	X	X	X	XX	X	XX	XX	XX	X	XX	X	XX	X	XX	X	XX	X	XX	X	XX	XX	
HCV				X	X	XX	X	X	X	XXXX	X	XXXX	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
HDA	XX	XX	X	X	X	X	XX	X	XX	X	XX	X				X	X			X	X		XX	X	XX	X	XX	X	XX	X	XX	X	
HFS	XXXXXXXXXXXX	XXXXXXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
HHC	X	XX	XX	XX	XX	X	XXXX	XX	XX	XXXX	X	XX	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	X	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
HKC	X	XX	X	X	X	X	XX	X	X	XX	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
HLW			X	X	X	X	XX	X	X	XX	X	X	XX	X	X	XX	X	X	X	X	XX	X	XX	X	XX	X	X	X	X	X	X	X	
HMT		XX		X	X	X	X	XXXX	XX	X	X	X				X	X	X		X	X	X	X	XX	X	XX	X	XX	X	XX	X	XX	
HNR	XXX	XXX	XXXX	XXXXXXXXXX	XX	XXXX	XX	XXXX	XX	XXXX	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
HOB	XX	XX	XX	X	XXXXXX	XXXX	X	XXXX	XX	XXXX	XX	XXXX	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
HOF		X		X	X		X	X	X		X	X		X	X		XX	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
HOI	X	X	X	X	X		X	XXXX					XX	X	X	XX	X	X	X	X	X	XX	XX	XX	X	XX	X	XX	X	XX	X	XX	
HOM	X	XX	X	XX		X	X	XXXX	X	X	X	X	X			XX	XX	X		XX	X	XX	XX	X	X	X	X	X	X	X	X	X	
HON		X				X										X	X	X	X														
HOJ	X		X	X	X	X	XX	XX	X				X	X	X	X	X	X	X	X	XX	X	X	XX	XX	XX	XX	XX	XX	XX	XX	XX	
HOOC	XXXXXX	XXXX	XXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
HP				X	XX		X	X	X	X						XX	XX	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
HRI	X	X	X	X	X	XX	XX	XX	X	X	X	X	XX	X		X	X	XX	XXXX	XXXX	X	X	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	
HRT	X		X	XX	XX	X	X	XX	X	XX	X	XXXX	X	XX	XXXXXX	X	XXXX	XXXX	XXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
HSO				X	X		X	X					X				X	X			X	X											
HSR				X			X	X									X	X			X	X											
HUR	X	X	XX	X		X	X	X		XX	X	X	X	X		X	X			X	XX	X	XX	X	XX	X	X	X	X	X	X	X	
HVAR		X	X	XX	X	X	X	X	X	X	X	X	X	XXXX	XX	XXX	XXX	X	X	X	X	X	X	X	XX	XX	X	X	XXXX	X	XXXX	X	
HVD																																	
HVU			X	X	XX	X	X	X	X	XX						X	X	XX	XXX	XXX	XXX	XXX	XXX	X	X	X	X	X	X	X	X	X	
HYA	XX	XX	XX	X	X		X	X	XX	X	X	X		XX		X	X	XX	XXX	XXX	X	XXXXXX	XX	XX	X			XXX	X			X	
HYB	XXX	XX		X	XXXXXX	X	XX	X	XXXX	XXX	X	X	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
IFR	X	XXX		X	X	XX		XX	XX							XX	XX			XX	XX					X	XXXX	XXX	XXX	XXX	XXX	XXX	
IGT	X			X	X		X			X	X	XXXX	X	XXX	X	X	X	X	XXXX	X	XXX												
IHA		X		X	X	X				X	X			XX	XX		X	X			X	X				XX	X	X	X	X	X	X	
IIDJ	X		X	X	X	X	XX		X	X	X	X		XX	X	XX	XXXX	XX	X					XXX	X	XXX	X	XXX	X	XXX	X	XXX	
III	X		X	XX	X	XX	XX	X		X	X		X	X	X	X	X			X	XX		XX	X	X	XX	XX	XX	XX	XX	XX	XX	
IISM	X		X	XXX	X	XX	X		X	X	XXX	X	XX	X	X		X			X	XX		XX	XX	X	XX	XX	XX	XX	XX	XX	XX	
IIT	X		X		X	X	X		X												X		XX		X	XX	X	XX	X	XX	X	XX	
IKP																																	
IMA	X	XXX	X	XXX	X	XX	X	XXXXXX	X	X	XXXXXX	XXXX		XXXX	X	X	XXXX	XXXXXX	XXXX	XXXXXX	X	XX	XXXXXXXXXXXX	X	X	XX	X	XXXX	XX	XXXX	XX	XXXX	
IMI		X	X	X	XX	XX		X	X	XXX	X	X	X	XX		X	X	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
INE	X	XXX	X	XX	X	X	X	XXXX	X	X	X	XX				XX	XX			XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	
INK	XX	XXXXXXXXXX	XXXXXXXXXXXX	XXXX	XX	XXXXXXXXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
INW	X	X	XXX	X	XX		X	XXXX	X	X	X	XX				X	XX			XX	X	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	
IPM	XX	XXX	X	X	X	X	XX	XX	X	XXX	X	XX		XX	X	XX	XXXX	X	X	X	XX	X	XX	X	XXXX	XX	XX	X	XXXX	X	XXXX	X	
IR1	X	X	XXX		X	X		XXX	X	XXXX	X	XXXX	XX	XXXX	XX	X	XXXX	X	X	X	XX	X	XXXX	X	XX	X	XX	X	XX	X	XX	XX	
IR4	X	X	XXX		X	X		XXX	X	XXXX	X	XXXX	X	XXXX	XX	X	XXXX	X	X	X	XX	X	XXXX	X	XX	X	XX	X	XX	X	XX	XX	
IR5	X	X	XXX		X	X		XXX	X	XXXX	X	XXXX	X	XXXX	XX	X	XXXX	X	X	X	XX	X	XXXX	X	XX	X	XX	X	XX	X	XX	XX	
IR7	X	X	XXX		X	X		XXX	X	XXXX	X	XXXX	XX	XXXX	XX	X	XXXX	X	X	X	XX	X	XXXX	X	XX	X	XX	X	XX	X	XX	XX	
IRK	X	XX	X	XX	XX	XX	X	XX	X	XX	X	XX		XX	XXXX	XX				X	XX												
ISA																																	
ISK	X	X	X	XX	X	X	XX	X	X	X	XX	X	X		X	X	XX	XX	XX	XX	X		X	X	XX	XX	X	XX	X	XX	X	XX	
ISR			X		X		XX	XX	X	XXX	X	X				XX	X	X	X		XX				XX	XXX	X	XX	X	XX	X	XX	
ITB1	X			X	X	X				X				X	X	X	X																
ITU	X	X			X	X	X	X	X	X	X			X	X																		
IVA				XX	X	X	X	X	X	X	XXXX		XXXX	XX	XXXX	XXX	XXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
IZI	XX	XXXX	XXX	X	XX	XX	XXXX	X	X	XXXX	XXXX	XXXX	X	XXXX	XX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	
IZM	X		X	X	XX	XXXX	X	XXXX	XXXX	XXXX	XXXX	XXXX	X	XX	X	XXXX	XX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
JACH			X	X	X	X	XX	XXXXXX	XXXXXX</																								

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MOW					X						X	X						X													X		
MOX	XX	X	XX		XXXX	X	X		X	XX	XX	X	XXXXXX	X	X	XX	XXX	XXX	XXX	XXXX	X	XX	XX	XXX	X	XXXX	XXXXX	XX	X	XXXXXX			
MOZ			XX					X	X			X				X	XX	X	X	X			X		XX	XX					XXX		
MQZ			X	X				X	X		X	X			XX	X	X	X	X	X			X		XX	X					XXXX		
MRRJ			X		X			XX		X		XX	X			X	X	X	XX			X		X		XXXXXX		X		X	X		
MRW			X	X	X		X	X	X	X	X	X	XXXXXX	X		XX	X	X	X	X	XX			X	X	X	XX	X	X	X	XXXX		
MRWA	X	XX	X	X	XX	XX	X	X	XX	X	X	XXXXX	XXX	XXXXXX	XXX	XXXXX	XXXX	XXXXXX	XXXX	XXX	XXX	X	XXX	XXX	XX	X	XXX	XX	X	XXXX	X		
MRX				XX	X	XX	X			X	X			X	X			X	XX	X	X	X		XX	X	X	XX	XX	X		XXX		
MSCZ			X								X						XXX		X	X				X		X					X		
MSL	X	XXXX			XX		XXXX	X	X	X	XX	X	XXXX	X	X	X			X	XX	X			XX	XXXXXX	X		XX	XX	XXX	X		
MSU	X	X	XX		XXX	XXX		X	X	X	XX	XX	XXX		XXX	XX	XX	XXXX	XXXX	XXXXXX		X	XX	X	XX	XX	X	X	X	X	XXX		
MTD	X	XXXX	XX		X		XX	XX		X	X	X	X	X	X	XXXX	XXXX	XXXXXX							XX	XX	X	X	XXXX	X	X		
MTE		XX					X	X		X	X	X			XX	X		X	X	X			X	XX	X	X	X	X	X	XX			
MTMJ		X	XX	X		X	X	XX		X	X	X	X		XX		XXXXXXXX	XX			X		XXX	X	X	XXXX	X	X	XXX	X			
MTMW	X				X	X		X	X	X							X	X			X	X		X	X	X							
MTN	XXXX	XX	X	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXX	X	XX	XXXXXXXXXX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX		
MTU																	XX	X					XX	XX	X	X	XX	X	X	XX	XX		
MTW				X		X		X	X		XX	X	X		XX	X			XX	X				X	X	XX			X	XX	XX		
MUD					X		X	X	X	X	X	X	X						X	XX			XX										
MUN	X	XX	X	XXX	XX	XX	X	XX	X	X	X	XXXX	X	X	X	XX	XXX	XXXX	XXX	XXXX	X	X	X	XXX		XXXXXX	XXXX	X		X			
MVM					X		X			X				X	X	X	X			X		XX	X	X	X		XX		X	X	X		
MWC		XX	XX		XX	XXX	X	X	X	X	XXXX	X		X	XXXX		XXX		XXXXXX			XX	X	XX	X	X	X	X	X	X	X		
NAI						XX		XX	X		X	X		X	X	X	X		XX	X			XX				X				XXX		
NANU	X	X	X	X	XXX	XXX	X	XX	XX	X	XX	XXXX																					
NAV					X	X		X	X	X							X		XXX	X		XX	X			X	X	X			X		
NB2	XXX	XXX	XXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX		
NCG	X	X	XXX	X	XX	X	X	X	X	XXXX	XX	X	X	XX		XX	XXX	X		X	XX	X	XX	XX	XXX	X	XX	X	X	XX	XX	X	
NCT		X	XX	X	XX	X		X	X	X						XX	XX	X		X	XX	X	XX	X		XXX	X	X					
NDE			X					X		X		X			X	X		X	X	X									XX		X		
NDF				X				X		X	X	X	X		XX	XX		XX	XX	X						X	X		X	X			
NDI	XX	X		X	X	XX	XXX	X	XXXX	X	X	XX	X	X	X	XXXXXXXX	XXXXXXXXXXXX	XXX	XXXX	X	X	XXXX	XXXXXXXXXX	XXXX	XX	X	XXX	XXXX	XX	X	XXX	XXXX	
NEA	X	XX	X		X	X	X		XX	X	XX	X				X	X		X	X		XX	XX								X	X	
NEW		X	XX		XXX	XXX		X	X	X	XX	X	X			XX	X		X	XXXXXX	X	X	X	XXXX	XXXX	X	XXX	X		XXXX	X	X	
NGZ																X	X	X	X	X			X		XX						X	X	
NI1J			X	XX	X		X	XX		X	X	X			XX	X	XX	XX	XXXX						XXX	X	XXXX	X		XX	X	X	
NJ2		X	XX	X		X	XXXX	XX	XX	X	XX	XX	XX	X	XX	X	XX	XXXXXXXXXXXXXXXXXX			XX		XXX		XX	X	XX	XX		XX	X	X	
NKA	X	X	XXX	X	XX		X	X	X	XXXX	X	X	X	X		X	X	X		X	XX	X	XX	X		XX	X	X		XX			
NKC		X	X			X		X		X		XXX						X															
NKY				XX	X	XXX	X	X	XX	X	X	XXXX			X	XX	XX	XXXX	XXXX	XXX	XXXX	X				XX	XX	X	XX	X	XXXX	X	
NLO				X	X			X	X									X	X						X	X		X					
NNA		X	XXX	X	X	X	X	XX	XX	X	XX	X	XXXXXX	XX	XX	X	XXX	X	XX	XXX	X	XXX	XX	XXX	X	X		XX	XXXX	XX	X	XX	
NNL		X	XXX	X	XX	X		X	XXXX	X	X	X	X			XX	XX	X		X	XX	X	XX	XX	X	XX	X	X	X	XX	X	X	
NNT																			XXXX	X					XXX	X	XX	X	X	X	XX	XXX	
NOZ	X	X	X	XX	X			X	XX	X	X	X	XXXX	X		XX	X	X	XXXX	X	X	XX	XX	X	XXXX	X	XXX	XX		XXXX			
NPA								X			X							X	XX	X	X	XX											
NPS			X			X		X	X		X	XX	X	X	X	XX			X	XX			X	X		X	X	X			X	X	
NST			X								XX	X	X	X		X		XXXX	XXXX	XX			XXX		XXX	XX	X	X		XX	XX		
NUR	XX	X	XXX	XXX	XXX	XX	XXXXXXXXXX	X	XX	XXXX	X	XXXX	X	XXXX	XXXX	XXXX	XXXX	XXXXXXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	X	XXXXXXXXXXXX			
NVL	X	X	XXXXXXXX	X	XXXX	X	XXXX	XXXX	XX		X	XX	X	X	X	X	X	XXXX	XXXXXXXXXX	X	XXXX	XXXXXXXXXX	XXXXXXXXXXXX										
NWAO	X		X	X	X	XX	XX	X	X	X	X	XX	X	X	X	XX	XX	XX	XX	XXXX	X	XXX	X	XXX		XX	XXX	XX	X	X	X		
NWRM					X	X	XXX				X				X	X			XXX	X	X				X	X					X		
OBN	XXX	XX	XX	XXX	XXX	X	XXXXXX	X	X	XXXX	X	XX	X	X	XXXX	XXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	XX	XXXXXX	XX	XXXX	XXXX	XXXXXX	X	XXXX	XX		XXX	XXX		
ODD1		X	XX		X		X	X	X	X	X	X		X	X	X	X		XX	XXXXXXXX	XX	XXX	XXX	X		XXX	X	X		X	X		
ODZ																		X	X	X													
OFUJ		X	X	X	XXX	XXXX		XX	X	X	X			XX	X	X	XXX	X	XXXX	XX	X	XXX	X		X		XXXX	XX	XX	X	X		
OGA		X	X	X	X	XX	X		X									X	X	X						XXXX	X	XX	X	XX	X		
OHR	X	XXX	XXXX								XX	X	XXXXXXXXXXXXXXXXXXXX	XXXX	XXXXXXXXXX	XXXX	XXXX	XXXX	XXXX	X	X	X	XXX	XXXXXXXXXX	XXX	XXXXXXXXXXXX							
OLLA		X	X															X	X	X													
OLY			X								XXX							XX	XX	X		XX	X	XX	X	X					X	X	
OPT		X	XX	X	XX	X	X	X	XXXX	X	X	X	X			XX	XX	X															
ORO					X			X	X	X	X			X	X			X	X	X				X	XXXX		XX	X	XXX	X	X		
ORV	XXX	X	X	XXXX		X	XX	X	XXX	XX	X	XX	X	X			XXXX	XXXXXX	XXX	XX	XXXXXXXX		XX	XXXXXX	XX	X	XXXX		X	XXX	X		
ORX				XX	XX		X	X	X	X		X						X	X	XX	X		XX			X	X		XXXX				
OSS		X	X	X	XXX	X		X	X	X					XX	X			X	X	X		XXX	X	X	XX	X	XX	X	XX	X	X	
OUR	XXX	X	X				X	XX	XXX	XX	XXXX	XXXXXXXXXXXX	XX	XX	XX	X	X	XXXX	XXXXXX	XX	XX	XXXX	XXXX	X	XXXXXX	XXXX	X	XXXXXXXXXX					
OXX		X	X	XX	XXX	X	X	XX	XX	X	X	XX	X	X	X	X	X	X	XX	X	XXX		X	XX	XXX	X	XXX	XX	XX	XXX			
PAE				X		X	X		X									X	X						X	XX	X	X					
PAF																		X	X	X	X												
PAG				X	X	X	XX	X	X									XX	X	XXXX	XX	XX		XXXX		X	XX	XX	XXX	X	XX	X	
PAHZ			X				X				X	X						X									XX						
PAIG	XXX	X	X	X	X	XXXX	X	XX	XX	XX	XXXX	X	XXXXXXXXXXXX	XX	XX	XXXX		X	XXXX	XXXXXX	XX	XX	XXXXXX	XXXX	X	XXXX	XX	XXXX	XX				
PAS				X	XXX		X		X	XX	X	X	X	X				XX	XX		X			X	X	XXX	X	X		X	X		
PAX	XX	XXX	X		X	X	X	XXXX	XX	X	X	X																					

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DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
TWG			X							XX	X				XX									X		X	X	XX						
TWK		X		X	X					X	X	X			X				X						X	X					X			
TZL	X		XXX	X			X	X	X		X	XXX	XX	X	X	X						X	X	X	X	XX	X	X			X	XX	X	
UCC					XX			X	X	X	X		X		X	X	XX					X			XX	X	X				X	X	X	
UDU				X					X						X	X																		
ULC						X	X	X	X	X	X	X		X	XXXXX		XXXX	XX		XXX	XXX	XXX		XXXX	X		XX	XX	X	XX	X	XXXX	X	
UNM						X	X				X				X																			
UPA		X	X	XX	X	XXX	X	XX		XXXX	XX	XXXXXX		X	XX	XXX	X	XXX	XXX	XX	XX	X	XX	X		XX		XXXXXX	X	XX	XX	X	X	
UPP		X		X		XX	XX	X	X	X	XXX	X	X		XX	X	XXXX	XX	XX	XX	XX	XX	XX	XX	XX	X	XXXX	XXXXXX	X	XXXXXX	X	XXXXXX	X	
UOSK		XX	X			XX			X	X				X	X	X	X	X		X	X	X			X	X						X	X	
URZ	X	X	X	XX	X	XXX		X	XX	X	X	XXXXX	XXX		XX	XX	X	XXXX	X	XXXXXX	X	XX		XX	XX	XXXX	X	XXXX	XX		XXXXX			
USI			X				X			XX	X		X			X									X	X		XX			X			
UZD		X			XXX	X	X		XX	X	X	X		X	X	XX									X	XX	X	X	X	X		XX		
VAH			XX	XX			X	X	X	X	X		X		XX	X								X	X	XX	XX	XX			X			
VAI								X	X	X		XX		X	XX	X	XX								XX	X	X	XX	X	XXXX	XX	X		
VAO		X	X	X		XX	X		X				X	XXXX	XXX	XX	XXXXX																	
VAY																																		
VBEH	X					X	X			X	X																							
VBY		X	XXX	X	X		X	XXX	XX		XX	X	X	X	XXX	XXX	X	XXXX		XXX	XX	X	X	XXX	XXXXXX	X	XX	X	XXXXXX		XXXXXX			
VDL			X	X		XXX	X		X	X		X	X			X	X								XX	X	X	XX		XX	X	XX	X	
VGB						X	X		X	X	X																							
VIPM						X	X		X	X	X					X																		
VIR		X	X	X		X	XXX	X	XX	XX	X	X	X		X	X	X																	
VITF			X	X		XX	X		X	X	X		XX	X	X											X	X					X	XXX	X
VKA		X	X		XXX	X		XX	X	X	X	X		X	X	X	XX	XX							X	XX						X	X	
VLI			X	XX	X	XX	XX		XX	X	XX		XX	XX	X	XX	XXX								X	X	X	X	X	X	XX	X	X	
VLL	X					X			X																									
VLMH	X								X	X	X																							
VLS						X	X	X		XX	X	XX		X																				
VLZ	X	X	XXX	X		XX	X	X		XXXX	XX	X	X	X	X																			
VOY		X	X	X	X	X	XXXXX	X	X	X	X	X		X	XXX	XXX		XXX	XX		X	XXX	X	XXX	XXX	X	X	XX	X	XXXXXX		XXXXXX		
VRI	XXXXX	XX	X		X	XX	X	X	XXXXXX	X	XXXXXX	X	X		XX	XXX		XXXX	X	XXXXX	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
VTS	XXXX	XX	X	X	XXX	XXXX		XX	XX	XX	X	X													XX	X	XXXX		X					
VUN		X	X				X				X				X	XX										XX	X	X	XX	XX		X		
VVI						X	X	X						X	X	X	XX									X	XX	X	XX	XX		X	X	
VVO														X	X	X	XXXX	XXXXXX		XXXX	XX					XX	X	X	X	XX		X	X	
VZW		X	XXX	X	XX		X	X		X	XXXX	XX	X	X	X																			
WAHZ																																		
WARB	X		XXXX	XXXXXX		XXXXXXXXXXXX		X	XXXXXXXXXXXXXXXXXXXX		XXX	XX	XXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
WATA									X	X	X	X																						
WAX		X	XXX	X				X	XX	XX	X																							
WB2																																		
WCZ	X			XX		X		X	X	X	XX	X	X		X	XXXX																		
WDC		X			X	X	X		XX					X	X																			
WDW								X	X		X	X	XXX	X		XX	X																	
WEL				XX											X	X	X																	
WET																																		
WHH																																		
WHN		X	XX	X	X	XX	XXX	X	XX	X	X	X	XX	XX	XXXX		XX	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
WIN		X		X	X	X	XXXXXX	X	X	X		X	X																					
WIT																																		
WKYJ																																		
WLF																																		
WMO		X	XXX	XX	XXXXXXXX		X	XX	XX	X	X	XX	XX	XXXX	X	XXXXXXXXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
WPW	X																																	
WR2	XXXXXXXXXXXXXXXXXXXX																																	
WRA																																		
WRG																																		
WRH	X	XXX	X			X	X	X		X	XX	X	XX	X																				
WTS		X																																
WTTA		X	X	X	XX	XXXXXX		X	X	X	XXX	XXX	XXX	X	X	XXXX	XXXXXX	XXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
WVZ																																		
XAN		XX	XX	XXX	XXXXXXXX	X	XXXX	XX	XXX	XX	XX	XXXX	X	XXX	XXXX	XXX	XXXXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
XLV		X	XX	X	XX	X		X	XXXX	X	X	X																						
YAH	X		XXX	X			X	X	X	XXX	XX	X	X																					
YAK	X	XXX	XX	XXX	X	XXXX	XXXXXX	XXXXXX	X	X	X	X			XXX	XXXXXXXXXX	XXXX	X																
YAMJ																																		
YER																																		
YHJ																																		
YKA	X	XXXXXXXXXX																																
YKU																																		
YLV	X	XXXX	XXX	XXXX	XXX	X	XX	XXXX	XXX	X	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
YONJ																																		
YYYY		XX	XX	X	XX	X	XX		X	X	XX	X	XXXX	XXXXXX		XXXX																		
ZAG		X	X			X	X	X		X	X	X																						
ZLA		X				</																												

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